



# Open Source Used In Cisco Identity Services Engine 2.2

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## Contents

### **1.1 Abdera Client 0.4.0-incubating**

1.1.1 Available under license

### **1.2 Abdera Core 0.4.0-incubating**

1.2.1 Available under license

### **1.3 Abdera Extensions - HTML 0.4.0-incubating**

1.3.1 Available under license

### **1.4 Abdera Extensions - JSON 0.4.0-incubating**

1.4.1 Available under license

### **1.5 Abdera Extensions - Main 0.4.0-incubating**

1.5.1 Available under license

### **1.6 Abdera Parser 0.4.0-incubating**

1.6.1 Available under license

### **1.7 Abdera Server 0.4.0-incubating**

1.7.1 Available under license

### **1.8 abdera-i18n 0.4.0-incubating**

1.8.1 Available under license

### **1.9 abuild 2.27.1 :r1**

- 1.9.1 Available under license
- 1.10 accessors-smart 1.1**
  - 1.10.1 Available under license
- 1.11 acct 6.6.2 :r0**
  - 1.11.1 Available under license
- 1.12 acct 6.6.2 :r0**
  - 1.12.1 Available under license
- 1.13 ace 5.5**
  - 1.13.1 Available under license
- 1.14 Activation 1.1**
  - 1.14.1 Available under license
- 1.15 Activation 1.1 1.0.2**
  - 1.15.1 Available under license
- 1.16 ActiveMQ :: Jar Bundle 5.5.0**
  - 1.16.1 Available under license
- 1.17 activemq-all 5.2.0**
  - 1.17.1 Available under license
- 1.18 ajaxanywhere 1.2.1**
  - 1.18.1 Available under license
- 1.19 AlivePDF 0.1.5.RC**
  - 1.19.1 Available under license
- 1.20 almondjs 0.2.6**
  - 1.20.1 Available under license
- 1.21 alpine-baselayout 3.0.3 :r0**
  - 1.21.1 Available under license
- 1.22 alpine-conf 3.4.1 :r2**
  - 1.22.1 Available under license
- 1.23 alpine-keys 1.1 :r0**
  - 1.23.1 Available under license
- 1.24 alsa-lib 1.1.1 :r3**
  - 1.24.1 Available under license
- 1.25 amqp-client 3.5.5**
  - 1.25.1 Available under license
- 1.26 amqplib 0.4.0**
  - 1.26.1 Available under license
- 1.27 Angular2-common-2.0.0-rc.4 2.0.0 :rc4**
  - 1.27.1 Available under license
- 1.28 angular2-compiler 2.0.0 :rc4**
  - 1.28.1 Available under license

- 1.29 angular2-core 2.0.0 :rc4**
  - 1.29.1 Available under license
- 1.30 angular2-forms 0.2.0 :rc4**
  - 1.30.1 Available under license
- 1.31 angular2-http 2.0.0 :rc4**
  - 1.31.1 Available under license
- 1.32 angular2-in-memory-web-api 0.0.9**
  - 1.32.1 Available under license
- 1.33 angular2-jwt 0.1.16**
  - 1.33.1 Available under license
- 1.34 angular2-platform-browser 2.0.0 :rc4**
  - 1.34.1 Available under license
- 1.35 angular2-platform-browser-dynamic 2.0.0 :rc4**
  - 1.35.1 Available under license
- 1.36 angular2-platform-server 2.0.0 :rc4**
  - 1.36.1 Available under license
- 1.37 angular2-router 3.0.0 :rc4**
  - 1.37.1 Available under license
- 1.38 animal-sniffer-annotation 1.0**
  - 1.38.1 Available under license
- 1.39 Annotation 1.0 1.1.1**
  - 1.39.1 Available under license
- 1.40 annotations 1.3.7**
  - 1.40.1 Available under license
- 1.41 annotations-api 6.0.36**
  - 1.41.1 Available under license
- 1.42 annotations-api 6.0.32**
  - 1.42.1 Available under license
- 1.43 ant 1.9.3**
  - 1.43.1 Available under license
- 1.44 ant-launcher 1.9.3**
  - 1.44.1 Available under license
- 1.45 ANTLR 3.3**
  - 1.45.1 Available under license
- 1.46 ANTLR 2.7.2**
  - 1.46.1 Available under license
- 1.47 AntLR Parser Generator 2.7.7**
  - 1.47.1 Available under license
- 1.48 ANTLR runtime 3.3**



- 1.48.1 Available under license
- 1.49 aopalliance 1.0 1.0**
  - 1.49.1 Available under license
- 1.50 Apache 1.3.30**
  - 1.50.1 Available under license
- 1.51 Apache Axis 1.4**
  - 1.51.1 Available under license
- 1.52 Apache Commons CLI 1.2.0**
  - 1.52.1 Available under license
- 1.53 Apache Commons Codec 1.3.**
  - 1.53.1 Available under license
- 1.54 Apache Commons Collections 3.2.1.**
  - 1.54.1 Available under license
- 1.55 Apache Commons Digester 1.5.0**
  - 1.55.1 Notifications
  - 1.55.2 Available under license
- 1.56 Apache Commons FileUpload 1.2.0**
  - 1.56.1 Available under license
- 1.57 Apache Commons Logging 1.2**
  - 1.57.1 Available under license
- 1.58 Apache Commons Logging 1.1.**
  - 1.58.1 Available under license
- 1.59 Apache Derby Client JDBC Driver 10.10.2.0**
- 1.60 Apache HttpClient 4.3.6**
  - 1.60.1 Available under license
- 1.61 Apache Jakarta Commons Digester 1.8**
  - 1.61.1 Available under license
- 1.62 Apache Jakarta Commons Validator 1.3.1**
  - 1.62.1 Available under license
- 1.63 Apache Log4j 1.2.16**
  - 1.63.1 Available under license
- 1.64 Apache Log4j 1.2.17**
  - 1.64.1 Available under license
- 1.65 Apache Neethi 2.0.1**
  - 1.65.1 Available under license
- 1.66 Apache POI 3.1.Final**
  - 1.66.1 Available under license
- 1.67 Apache SOAP 2.3.1**
  - 1.67.1 Notifications

- 1.67.2 Available under license
- 1.68 Apache Standards Taglibs 1.1.2**
  - 1.68.1 Available under license
- 1.69 Apache Struts 1.2.9**
  - 1.69.1 Available under license
- 1.70 Apache Tomcat 7.0.34.0 :7.0.34.0**
  - 1.70.1 Available under license
- 1.71 Apache Tomcat 6.0.36**
  - 1.71.1 Available under license
- 1.72 Apache Xerces 2.6.2.**
  - 1.72.1 Notifications
  - 1.72.2 Available under license
- 1.73 Apache XMLBeans 2.4.0.**
  - 1.73.1 Available under license
- 1.74 apache-log4j 1.2.15**
  - 1.74.1 Available under license
- 1.75 apache-log4j-extras 1.2.17**
  - 1.75.1 Available under license
- 1.76 apk-tools 2.6.7 :r0**
  - 1.76.1 Available under license
- 1.77 apns 0.2.3**
  - 1.77.1 Available under license
- 1.78 APR 1.4.6**
  - 1.78.1 Available under license
- 1.79 apr-util 1.5.1 :1**
  - 1.79.1 Available under license
- 1.80 archaius-core 0.7.4**
  - 1.80.1 Available under license
- 1.81 ASM 3.3 :asm-3.3**
  - 1.81.1 Available under license
- 1.82 asm 5.0.3**
  - 1.82.1 Available under license
- 1.83 ASM Core 3.1**
  - 1.83.1 Available under license
- 1.84 ASM-commons 3.3**
  - 1.84.1 Available under license
- 1.85 ASM-commons 3.1**
  - 1.85.1 Available under license
- 1.86 asm-tree 3.3**

- 1.86.1 Available under license
- 1.87 asm-tree 3.1**
  - 1.87.1 Available under license
- 1.88 AspectJ runtime 1.6.1**
  - 1.88.1 Available under license
- 1.89 AspectJ runtime 1.8.6**
  - 1.89.1 Available under license
- 1.90 AspectJ Weaver 1.5.4**
  - 1.90.1 Available under license
- 1.91 AspectJ weaver 1.6.5**
  - 1.91.1 Available under license
- 1.92 AspectJ weaver 1.8.6**
  - 1.92.1 Available under license
- 1.93 aspectjrt 1.6.5**
  - 1.93.1 Available under license
- 1.94 aspectjweaver 1.8.9**
  - 1.94.1 Available under license
- 1.95 async-http-client 1.6.4**
  - 1.95.1 Available under license
- 1.96 attr 2.4.47 :r4**
  - 1.96.1 Available under license
- 1.97 avalon-framework 4.1.3**
  - 1.97.1 Notifications
  - 1.97.2 Available under license
- 1.98 Axiom API 1.2.7**
  - 1.98.1 Available under license
- 1.99 Axiom Impl 1.2.7**
  - 1.99.1 Available under license
- 1.100 axiom-api-1.2.4 1.2.4**
  - 1.100.1 Available under license
- 1.101 axiom-impl-1.2.4 1.2.4**
  - 1.101.1 Available under license
- 1.102 axis 1.4 :custom-03**
  - 1.102.1 Available under license
- 1.103 axis wsdl4j 1.4 :custom-03**
  - 1.103.1 Available under license
- 1.104 axis-jaxrpc 1.4**
  - 1.104.1 Available under license
- 1.105 axis-saaj 1.4**

- 1.105.1 Available under license
- 1.106 axis2-adb-1.2 1.2**
  - 1.106.1 Available under license
- 1.107 axis2-kernel 1.2**
  - 1.107.1 Available under license
- 1.108 backbone 1.1.2**
  - 1.108.1 Available under license
- 1.109 backbone associations 0.6.2**
  - 1.109.1 Available under license
- 1.110 backbone bootstrap modal 0.9.0**
  - 1.110.1 Available under license
- 1.111 backbone paginator 2.0.0**
  - 1.111.1 Available under license
- 1.112 backbone-forms 0.14.0**
  - 1.112.1 Available under license
- 1.113 backbone-forms-list 0.11.0**
  - 1.113.1 Available under license
- 1.114 backbone.js 1.1.0**
  - 1.114.1 Available under license
- 1.115 bash 4.3.42 :r3**
  - 1.115.1 Available under license
- 1.116 batik-all 1.7**
  - 1.116.1 Available under license
- 1.117 bcmmail-jdk15on 1.47**
  - 1.117.1 Available under license
- 1.118 bcmmail-jdk16 1.4.6**
  - 1.118.1 Available under license
- 1.119 bcpvg-jdk15on 1.51**
  - 1.119.1 Available under license
- 1.120 bcpkix-jdk15on 1.47**
  - 1.120.1 Available under license
- 1.121 bcprov-jdk15on 1.47**
  - 1.121.1 Available under license
- 1.122 bcprov-jdk15on.jar 1.51**
  - 1.122.1 Available under license
- 1.123 bcprov-jdk16 1.46**
  - 1.123.1 Available under license
- 1.124 Bean Validation API 1.1.0.Final**
  - 1.124.1 Available under license

- 1.125 Bean Validation API 1.0.0.GA**
  - 1.125.1 Available under license
- 1.126 Beanshell 2.0b4**
  - 1.126.1 Available under license
- 1.127 binutils 2.26 :r0**
  - 1.127.1 Available under license
- 1.128 binutils-lib 2.26 :r0**
  - 1.128.1 Available under license
- 1.129 Bitmechanic JDBC Pool Bitmechanic JDBC Pool**
  - 1.129.1 Notifications
  - 1.129.2 Available under license
- 1.130 BlazeDS 4.0.0.14931**
  - 1.130.1 Available under license
- 1.131 body-parser 1.13.2**
  - 1.131.1 Available under license
- 1.132 boost 1.61.0 :r3**
  - 1.132.1 Available under license
- 1.133 boost-date-time 1.61.0 :r3**
  - 1.133.1 Available under license
- 1.134 boost-fileSystem 1.61.0 :r3**
  - 1.134.1 Available under license
- 1.135 boost-fileSystem / jquery-subpart 1.61.0 :r3**
  - 1.135.1 Available under license
- 1.136 boost-program\_options 1.61.0 :r3**
  - 1.136.1 Available under license
- 1.137 boost-program\_options / jquery-subpart 1.61.0 :r3**
  - 1.137.1 Available under license
- 1.138 boost-regex 1.61.0 :r3**
  - 1.138.1 Available under license
- 1.139 boost-system 1.61.0 :r3**
  - 1.139.1 Available under license
- 1.140 boost-system / jquery-subpart 1.61.0 :r3**
  - 1.140.1 Available under license
- 1.141 Bootstrap 3.3.6**
  - 1.141.1 Available under license
- 1.142 bootstrap hover dropdown 2.0.8**
  - 1.142.1 Available under license
- 1.143 bootstrap-datepicker.js n/a**
- 1.144 bootstrap-fileupload 2.3.1-j6**

- 1.144.1 Available under license
- 1.145 Bootstrap\_docs 3.3.6**
  - 1.145.1 Available under license
- 1.146 BouncyCastle 1.46 :ICS**
  - 1.146.1 Available under license
- 1.147 build-info-api 2.5.4**
  - 1.147.1 Available under license
- 1.148 busybox 1.24.2 :r11**
  - 1.148.1 Available under license
- 1.149 busybox 1.24.2**
  - 1.149.1 Available under license
- 1.150 busybox-initscripts 3.0 :r3**
  - 1.150.1 Available under license
- 1.151 bzip2 1.0.6 :r5**
  - 1.151.1 Available under license
- 1.152 bzip2 1.0.6**
  - 1.152.1 Available under license
- 1.153 c3p0 0.9.0**
  - 1.153.1 Available under license
- 1.154 ca-certificates 20160104 :r4**
  - 1.154.1 Available under license
- 1.155 canvg 1.4**
  - 1.155.1 Available under license
- 1.156 catalina 6.0.32**
  - 1.156.1 Available under license
- 1.157 cdrkit 1.1.11 :r2**
  - 1.157.1 Available under license
- 1.158 centos-release 7**
  - 1.158.1 Available under license
- 1.159 cglib 2.1 :3**
  - 1.159.1 Available under license
- 1.160 chai 1.9.2**
  - 1.160.1 Available under license
- 1.161 chrony 2.3**
  - 1.161.1 Available under license
- 1.162 ClassMate 1.0.0 :(15-Oct-2013)**
  - 1.162.1 Available under license
- 1.163 classmate-1.3.1 1.3.1**
  - 1.163.1 Available under license

- 1.164 Click Modular Router 1.6.0**
  - 1.164.1 Available under license
- 1.165 Click Modular Router - gplv2 subpart 1.6.0**
  - 1.165.1 Available under license
- 1.166 Code Generation Library 2.2**
  - 1.166.1 Available under license
- 1.167 com.cisco.xmp.osgi.commons.logging 1.0.4**
  - 1.167.1 Available under license
- 1.168 com.cisco.xmp.osgi.slf4j-api 1.5.8.PATCHED**
  - 1.168.1 Available under license
- 1.169 com.springsourceantlr 2.7.6**
  - 1.169.1 Available under license
- 1.170 com.springsource.javax.activation 1.1.1**
  - 1.170.1 Available under license
- 1.171 com.springsource.javax.persistence 1.0.0**
  - 1.171.1 Available under license
- 1.172 com.springsource.javax.servlet 2.5.0**
  - 1.172.1 Available under license
- 1.173 com.springsource.javax.transaction 1.1.0**
  - 1.173.1 Available under license
- 1.174 com.springsource.javax.validation 1.0.0.GA**
  - 1.174.1 Available under license
- 1.175 com.springsource.javax.xml.bind 2.1.7**
  - 1.175.1 Available under license
- 1.176 com.springsource.org.apache.commons.cli 1.1.0**
  - 1.176.1 Available under license
- 1.177 com.springsource.org.apache.commons.cli 1.2.0**
  - 1.177.1 Available under license
- 1.178 com.springsource.org.apache.commons.codec 1.4.0**
  - 1.178.1 Available under license
- 1.179 com.springsource.org.apache.commons.codec-1.3.0.jar 1.3.0**
  - 1.179.1 Available under license
- 1.180 com.springsource.org.apache.commons.collections 3.2.0**
  - 1.180.1 Available under license
- 1.181 com.springsource.org.apache.commons.dbcp 1.2.2.osgi**
  - 1.181.1 Available under license
- 1.182 com.springsource.org.apache.commons.httpclient 3.1.0**
  - 1.182.1 Available under license
- 1.183 com.springsource.org.apache.commons.io 1.4.0**

- 1.183.1 Available under license
- 1.184 com.springsource.org.apache.commons.lang 2.4.0**
  - 1.184.1 Available under license
- 1.185 com.springsource.org.apache.commons.logging 1.1.1**
  - 1.185.1 Available under license
- 1.186 com.springsource.org.apache.commons.pool 1.3.0**
  - 1.186.1 Available under license
- 1.187 com.springsource.org.apache.commons.pool 1.5.3**
  - 1.187.1 Available under license
- 1.188 com.springsource.org.apache.log4j 1.2.15**
  - 1.188.1 Available under license
- 1.189 com.springsource.org.apache.log4j 1.2.16**
  - 1.189.1 Available under license
- 1.190 com.springsource.org.apache.oro 2.0.8**
  - 1.190.1 Notifications
  - 1.190.2 Available under license
- 1.191 com.springsource.org.apache.velocity 1.6.4**
  - 1.191.1 Available under license
- 1.192 com.springsource.org.apache.ws.commons.schema 1.3.2**
  - 1.192.1 Available under license
- 1.193 com.springsource.org.aspectj.runtime 1.5.4**
  - 1.193.1 Available under license
- 1.194 com.springsource.org.aspectj.runtime 1.6.2.RELEASE**
  - 1.194.1 Available under license
- 1.195 com.springsource.org.aspectj.weaver 1.6.2.RELEASE**
  - 1.195.1 Available under license
- 1.196 com.springsource.org.custommonkey.xmlunit 1.2.0**
  - 1.196.1 Available under license
- 1.197 com.springsource.org.hibernate.validator 4.1.0.GA**
  - 1.197.1 Available under license
- 1.198 com.springsource.org.jdom 1.0.0**
  - 1.198.1 Notifications
  - 1.198.2 Available under license
- 1.199 com.springsource.org.joda.time 1.6.0**
  - 1.199.1 Available under license
- 1.200 com.springsource.slf4j.api 1.5.10**
  - 1.200.1 Available under license
- 1.201 com.springsource.slf4j.api 1.5.6**
  - 1.201.1 Available under license



- 1.202 Commons BeanUtils 1.8.3**
  - 1.202.1 Available under license
- 1.203 Commons BeanUtils Core 1.8.0**
  - 1.203.1 Available under license
- 1.204 Commons Collections 3.2.1**
  - 1.204.1 Available under license
- 1.205 Commons IO 2.3**
  - 1.205.1 Available under license
- 1.206 Commons Logging 1.1.1**
  - 1.206.1 Available under license
- 1.207 Commons Logging 1.1.1**
  - 1.207.1 Available under license
- 1.208 Commons Net 3.1**
  - 1.208.1 Available under license
- 1.209 commons-beanutils 1.7**
  - 1.209.1 Available under license
- 1.210 commons-beanutils (DUPLICATE) 1.6.1**
  - 1.210.1 Available under license
- 1.211 commons-chain 1.2**
  - 1.211.1 Available under license
- 1.212 commons-codec 1.9**
  - 1.212.1 Available under license
- 1.213 commons-codec 1.4 :DUPLICATE**
  - 1.213.1 Available under license
- 1.214 commons-codec 1.7**
  - 1.214.1 Available under license
- 1.215 commons-codec 1.6**
  - 1.215.1 Available under license
- 1.216 commons-collections 3.2.1**
  - 1.216.1 Available under license
- 1.217 commons-collections 3.2.2**
  - 1.217.1 Available under license
- 1.218 commons-collections 3.1**
  - 1.218.1 Available under license
- 1.219 commons-compress 1.8.1**
  - 1.219.1 Available under license
- 1.220 commons-compress 1.8**
  - 1.220.1 Available under license
- 1.221 commons-configuration 1.8**

- 1.221.1 Available under license
- 1.222 commons-configuration 1.5**
  - 1.222.1 Available under license
- 1.223 commons-dbcpl (DUPLICATE) 1.4**
  - 1.223.1 Available under license
- 1.224 commons-digester 1.6.0**
  - 1.224.1 Available under license
- 1.225 commons-discovery 0.2 :DUPLICATE**
  - 1.225.1 Notifications
  - 1.225.2 Available under license
- 1.226 commons-fileupload 1.2.1**
  - 1.226.1 Available under license
- 1.227 commons-fileupload 1.1.1**
  - 1.227.1 Available under license
- 1.228 commons-io 2.4**
  - 1.228.1 Available under license
- 1.229 commons-io 2.4**
  - 1.229.1 Available under license
- 1.230 commons-io 1.3.2**
  - 1.230.1 Available under license
- 1.231 commons-jexl 1.1**
  - 1.231.1 Available under license
- 1.232 commons-lang 2.4**
  - 1.232.1 Available under license
- 1.233 commons-lang 2.6**
  - 1.233.1 Available under license
- 1.234 commons-lang 2.6**
  - 1.234.1 Available under license
- 1.235 commons-lang3 3.1**
  - 1.235.1 Available under license
- 1.236 commons-logging 1.2**
  - 1.236.1 Available under license
- 1.237 commons-logging 1.0.4**
  - 1.237.1 Available under license
- 1.238 commons-pool 1.4**
  - 1.238.1 Available under license
- 1.239 commons-pool 1.6**
  - 1.239.1 Available under license
- 1.240 commons-validator 1.1.4**

- 1.240.1 Available under license
- 1.241 concurrent (in Java programming) 1.3.4**
  - 1.241.1 Available under license
- 1.242 cookie-parser 1.3.5**
  - 1.242.1 Available under license
- 1.243 coyote 6.0.32**
  - 1.243.1 Available under license
- 1.244 cryptsetup-libs 1.7.1 :r0**
  - 1.244.1 Available under license
- 1.245 CSRFGuard 3.1.0**
  - 1.245.1 Available under license
- 1.246 csv4j 0.4.0**
  - 1.246.1 Available under license
- 1.247 curl 7.50.3 :r0**
  - 1.247.1 Available under license
- 1.248 curl 7.28.0**
  - 1.248.1 Available under license
- 1.249 Curl 7.50.1**
  - 1.249.1 Available under license
- 1.250 CXF 2.2.7**
  - 1.250.1 Available under license
- 1.251 CXF Bundle jaxrs 2.2.6**
  - 1.251.1 Available under license
- 1.252 cxf-api 2.6.0**
  - 1.252.1 Available under license
- 1.253 cxf-bundle-jaxrs 2.2.7**
  - 1.253.1 Available under license
- 1.254 cxf-common-schemas 2.2.7**
  - 1.254.1 Available under license
- 1.255 cxf-common-utilities 2.2.7**
  - 1.255.1 Available under license
- 1.256 cxf-rt-bindings-xml 2.6.0**
  - 1.256.1 Available under license
- 1.257 cxf-rt-bindings-xml 2.2.7**
  - 1.257.1 Available under license
- 1.258 cxf-rt-core 2.2.7**
  - 1.258.1 Available under license
- 1.259 cxf-rt-core 2.6.0**
  - 1.259.1 Available under license

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Version 3, 29 June 2007

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## 1.13 ace 5.5

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Back to the [19]ACE home page.

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-- activemq-web

=====  
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=====

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Initial authors:

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/\*\*  
 \* This library lets you generate PDF files with the Adobe Flash Player 9 and 10.  
 \* AlivePDF contains some code from the FPDF PHP library by Olivier Plathey (<http://www.fpdf.org/>)  
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 \* @version 0.1.5 RC current release  
 \* @url <http://alivepdf.bytearray.org>  
 \*/

/\* sprintf(3) implementation in ActionScript 3.0.  
 \*  
 \* Author: Manish Jethani (manish.jethani@gmail.com)  
 \* Date: April 3, 2006  
 \* Version: 0.1  
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## 1.27 Angular2-common-2.0.0-rc.4 2.0.0 :rc4

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# 1.40 annotations 1.3.7

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v 1.2

This is a pluggable jar of stub classes representing the new Apple eAWT and eIO APIs for Java 1.4 on Mac OS X. The purpose of these stubs is to allow for compilation of eAWT- or eIO-referencing code on platforms other than Mac OS X. The jar file is enclosed in a zip archive for easy expansion on other platforms.

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```

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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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```

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```
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=====
```

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Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

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```

```
package org.apache.commons.codec;
```

```

/**
 * Defines common decoding methods for byte array decoders.
 *
 * @author Apache Software Foundation
 * @version $Id: BinaryDecoder.java,v 1.10 2004/06/15 18:14:15 ggregory Exp $
 */

```

```
public interface BinaryDecoder extends Decoder {
```

```

/**
 * Decodes a byte array and returns the results as a byte array.
 *
 * @param pArray A byte array which has been encoded with the
 * appropriate encoder
 *
 * @return a byte array that contains decoded content
 *
 * @throws DecoderException A decoder exception is thrown
 * if a Decoder encounters a failure condition during
 * the decode process.
 */
byte[] decode(byte[] pArray) throws DecoderException;
}

```

The commons-codec team is pleased to announce the Codec 1.3 release!

<http://jakarta.apache.org/commons/codec/>

The codec package contains simple encoder and decoders for various formats such as Base64 and Hexadecimal. In addition to these widely used encoders and decoders, the codec package also maintains a collection of phonetic encoding

utilities.

Changes in this version include:

New Features:

- o BinaryCodec: Encodes and decodes binary to and from Strings of 0s and 1s. Issue: 27813. Thanks to Alex Karasulu.
- o QuotedPrintableCodec: Codec for RFC 1521 MIME (Multipurpose Internet Mail Extensions) Part One. Rules #3, #4, and #5 of the quoted-printable spec are not implemented yet. See also issue 27789. Issue: 26617. Thanks to Oleg Kalnichevski.
- o BCodec: Identical to the Base64 encoding defined by RFC 1521 and allows a character set to be specified. Issue: 26617. Thanks to Oleg Kalnichevski.
- o QCodec: Similar to the Quoted-Printable content-transfer-encoding defined in RFC 1521 and designed to allow text containing mostly ASCII characters to be decipherable on an ASCII terminal without decoding. Issue: 26617. Thanks to Oleg Kalnichevski.
- o Soundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.
- o RefinedSoundex: Implemented the DIFFERENCE algorithm. Issue: 25243. Thanks to Matthew Inger.

Fixed bugs:

- o The default URL encoding logic was broken. Issue: 25995. Thanks to Oleg Kalnichevski.
- o Base64 chunked encoding not compliant with RFC 2045 section 2.1 CRLF. Issue: 27781. Thanks to Gary D. Gregory.
- o Hex converts illegal characters to 255. Issue: 28455.
- o Metaphone now correctly handles a silent B in a word that ends in MB. "COMB" is encoded as "KM", before this fix "COMB" was encoded as "KMB". Issue: 28457.
- o Added missing tags in Javadoc comments.
- o General Javadoc improvements.

Changes:

- o This version is released under the Apache License 2.0, please see LICENSE.txt. Previous versions were released under the Apache License 1.1.
- o The Board recommendation to remove Javadoc author tags has been implemented. All author tags are now "Apache Software Foundation".

Have fun!

-The commons-codec team

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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
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The original XML Schemas for Java EE Deployment Descriptors:

- javaee\_5.xsd
- javaee\_web\_services\_1\_2.xsd
- javaee\_web\_services\_client\_1\_2.xsd

- javaee\_6.xsd  
- javaee\_web\_services\_1\_3.xsd  
- javaee\_web\_services\_client\_1\_3.xsd  
- jsp\_2\_2.xsd  
- web-app\_3\_0.xsd  
- web-common\_3\_0.xsd  
- web-fragment\_3\_0.xsd  
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- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
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- jsp\_2\_2.xsd
- web-app\_3\_0.xsd
- web-common\_3\_0.xsd
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## 1.95 async-http-client 1.6.4

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(last updated \$Date: 2002-12-10 03:15:21 +1100 (Tue, 10 Dec 2002) \$)

This distribution includes a binary distribution of Mozilla Rhino 1.6 release 5 plus one patch.

You can get the unpatched 1.6R5 release of Rhino from the following URL:

[ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1\\_6R5.zip](ftp://ftp.mozilla.org/pub/mozilla.org/js/rhino1_6R5.zip)

To obtain the source code for the 1.6R5 release of Rhino, issue the following commands:

```
cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \  
co -D2006-11-20 mozilla/js/rhino
```

The patch is available here:

<https://bugzilla.mozilla.org/attachment.cgi?id=288467>

which is attached to this bug:

[https://bugzilla.mozilla.org/show\\_bug.cgi?id=367627](https://bugzilla.mozilla.org/show_bug.cgi?id=367627)

Rhino is licensed under both the MPL (Mozilla Public License) 1.1 and the GPL (GNU General Public License) 2.0, which are duplicated below.

The Rhino jar also includes four classes:

```
org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java  
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModel.java  
org.mozilla.javascript.tools.debugger.downloaded.TreeTableModelAdapter.java
```

Which come from:

<http://java.sun.com/products/jfc/tsc/articles/treetable2>

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Code sample

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- icon-general.png (originally preferences-desktop.png)
- icon-language.png (originally preferences-desktop-locale.png)
- icon-network.png (originally applications-internet.png)
- icon-security.png (originally dialog-warning.png)
- icon-stylesheet.png (originally applications-graphics.png)
- media-playback-pause.png
- media-playback-start.png
- process-stop.png
- redo.png (modified version of edit-redo.png)
- system-search.png
- text-html.png
- undo.png (modified version of edit-undo.png)
- utilities-system-monitor.png
- view-refresh.png
- window-new.png

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File Original filename

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zoom-in.png viewmag+.png  
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```
public class LICENSE
```

```
{
    public static String licenseText =
        "Copyright (c) 2000-2014 The Legion of the Bouncy Castle Inc. (http://www.bouncycastle.org) "
        + System.getProperty("line.separator")
        + System.getProperty("line.separator")
        + "Permission is hereby granted, free of charge, to any person obtaining a copy of this software "
        + System.getProperty("line.separator")
        + "and associated documentation files (the \"Software\"), to deal in the Software without restriction, "
        + System.getProperty("line.separator")
        + "including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, "
        + System.getProperty("line.separator")
        + "and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so,"
        + System.getProperty("line.separator")
        + "subject to the following conditions:"
        + System.getProperty("line.separator")
        + System.getProperty("line.separator")
        + "The above copyright notice and this permission notice shall be included in all copies or substantial"
        + System.getProperty("line.separator")
        + "portions of the Software."
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        + "THE SOFTWARE IS PROVIDED \"AS IS\", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,"
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        + System.getProperty("line.separator")
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```

```

+ System.getProperty("line.separator")
+ "LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF
CONTRACT, TORT OR"
+ System.getProperty("line.separator")
+ "OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE
OR OTHER"
+ System.getProperty("line.separator")
+ "DEALINGS IN THE SOFTWARE.";

public static void main(
    String[] args)
{
    System.out.println(licenseText);
}
}

```

## 1.123 bcprov-jdk16 1.46

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You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:

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  - 1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time

a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

#### 5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.
- b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

#### Preamble

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling



it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards

changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library

creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if

necessary. Here is a sample; alter the names:

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it

does `@emph{Less}` to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

@iftex

@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end iftex

@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

@end ifinfo

@enumerate 0

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a

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The modified work must itself be a software library.

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You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

@item

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item

As an exception to the Sections above, you may also combine or link a ``work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the



library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

@end enumerate

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Accompany the combined library with a copy of the same work

based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

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@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

Copyright (C) @var{year} @var{name of author}

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@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

@smallexample

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

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Version 2.1, February 1999

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application

to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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That's all there is to it!  
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+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of



the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete

Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must

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@heading END OF TERMS AND CONDITIONS

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@ifinfo
@center END OF TERMS AND CONDITIONS
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@page
@appendixsubsec How to Apply These Terms to Your New Libraries
```

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Version 2.1, February 1999

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!  
(This file is under construction.) -\*- text -\*-

If you've contributed to gas and your name isn't listed here, it is not meant as a slight. I just don't know about it. Email me, nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into the documentation, and info on specific files will go into an AUTHORS file, as requested by the FSF.

+++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several

processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael

Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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## 1.131 body-parser 1.13.2

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## 1.132 boost 1.61.0 :r3

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </copyright>
    <copyright>
      <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
    <copyright>
      <year>1977</year> <year>1985</year> <holder>Someone else</holder>
    </copyright>
  </articleinfo>
</article>
```

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</article>

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

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Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D. Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.  
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.  
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.  
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.  
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.  
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).  
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This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
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    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

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Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

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/\*!

\* Bootstrap v3.0.3 (<http://getbootstrap.com>)

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\*/

```
if (typeof jQuery === "undefined") { throw new Error("Bootstrap requires jQuery") }
```

/\* =====

\* Bootstrap: transition.js v3.0.3

\* <http://getbootstrap.com/javascript/#transitions>

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## 1.134 boost-filesystem 1.61.0 :r3

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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    </copyright>
    <copyright>
      <year>1977</year> <year>1985</year> <holder>Someone else</holder>
    </copyright>
  </articleinfo>
</article>
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the

current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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## 1.135 boost-fileSystem / jquery-subpart 1.61.0

:r3

### 1.135.1 Available under license :

```
/*!  
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* samaxesJS JavaScript Library  
* http://code.google.com/p/samaxesjs/  
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*  
* 2009-10-04, guwi17: modified and extended to meet uBLAS' needs  
*/
```

## 1.136 boost-program\_options 1.61.0 :r3

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```
<?xml version="1.0" encoding="UTF-8"?>
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"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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      <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
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      <year>1977</year> <year>1985</year> <holder>Someone else</holder>
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.



Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.  
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)  
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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/\*!

\* jQuery TOC Plugin v1.1.x based on  
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\* <http://code.google.com/p/samaxesjs/>

\*

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\* 2009-10-04, guwi17: modified and extended to meet uBLAS' needs

\*/

# 1.137 boost-program\_options / jquery-

## subpart 1.61.0 :r3

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```
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 */
```

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<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost/DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
    </copyright>
    <copyright>
      <year>2018</year> <holder>Joe Blow, John Coe</holder>
    </copyright>
    <copyright>
      <year>1977</year> <year>1985</year> <holder>Someone else</holder>
    </copyright>
  </articleinfo>
</article>
```

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

#### HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the

garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.) This package was debianized by Vladimir Prus <ghost@cs.msu.su> on Wed, 17 July 2002, 19:27:00 +0400.

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Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

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## 1.139 boost-system 1.61.0 :r3

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```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
  <title>Copyright Test</title>
  <articleinfo>
    <copyright>
      <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

#### HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

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Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and  
Dave Detlefs (detlefs@src.dec.com) also provided several generic bug fixes.  
Alistair G. Crooks (agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.  
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.  
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to  
a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to  
nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the  
code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the  
current typed allocation facility. (His dynamic type inference code hasn't  
made it into the released version of the collector, yet.)  
This package was debianized by Vladimir Prus <ghost@cs.msu.su> on  
Wed, 17 July 2002, 19:27:00 +0400.

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- \* 2009-10-04, guwi17: modified and extended to meet uBLAS' needs  
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## 1.143 bootstrap-datepicker.js n/a

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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## 1.160 chai 1.9.2

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[![Chai Documentation](<http://chaijs.com/public/img/chai-logo.png>)](<http://chaijs.com>)

Chai is a BDD / TDD assertion library for [\[node\]](http://nodejs.org) and the browser that  
can be delightfully paired with any javascript testing framework.

For more information or to download plugins, view the [\[documentation\]](http://chaijs.com).

[![Build Status](<https://travis-ci.org/chaijs/chai.svg?branch=master>)](<https://travis-ci.org/chaijs/chai>)

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#### ### Plugins

Chai offers a robust Plugin architecture for extending Chai's assertions and interfaces.

- Need a plugin? View the [\[official plugin list\]](http://chaijs.com/plugins).
- Have a plugin and want it listed? Open a Pull Request at [\[chaijs/chai-docs:plugin.js\]](https://github.com/chaijs/chai-docs/blob/master/plugins.js#L1-L12).
- Want to build a plugin? Read the [\[plugin api documentation\]](http://chaijs.com/guide/plugins/).

#### ### Related Projects

- [\[chaijs / assertion-error\]](https://github.com/chaijs/assertion-error): Custom `Error` constructor thrown upon an assertion failing.
- [\[chaijs / deep-eql\]](https://github.com/chaijs/deep-eql): Improved deep equality testing for Node.js and the browser.

#### ### Contributors

repo age : 2 years, 11 months

active : 189 days

commits : 792

files : 57

authors :

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/*
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```

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## 1.163 classmate-1.3.1 1.3.1

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### 1.6.0

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## 1.196

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## 1.2.0

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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version 2.1 of the License, or (at your option) any later version.
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MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU  
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```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

/\*--

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We call this license the "Lesser" General Public License because it

does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.



4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is

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- javaee\_5.xsd
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- javaee\_web\_services\_client\_1\_2.xsd
- javaee\_6.xsd
- javaee\_web\_services\_1\_3.xsd
- javaee\_web\_services\_client\_1\_3.xsd
- jsp\_2\_2.xsd
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## 1.244 cryptsetup-libs 1.7.1 :r0

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## 1.247 curl 7.50.3 :r0

### 1.247.1 Available under license :

License Mixing

=====

libcurl can be built to use a fair amount of various third party libraries,

libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

#### ## libcurl

Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

#### ## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

#### ## GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](<https://www.gnu.org/licenses/lgpl.html>) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

#### ## WolfSSL

(May be used for SSL/TLS support) Uses the GPL license or a proprietary license. If this is a problem for you, consider using another TLS library.

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## axTLS

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## mbedTLS

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## BoringSSL

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## libressl

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

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## MIT Kerberos

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## Heimdal

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## ## libidn

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#### ## c-ares

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#### ## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

#### ## MIT Kerberos

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### ## libidn

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# 1.248 curl 7.28.0

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libcurl <http://curl.haxx.se/docs/copyright.html>

Uses an MIT (or Modified BSD)-style license that is as liberal as possible. Some of the source files that deal with KRB4 have Original BSD-style announce-clause licenses. You may not distribute binaries with krb4-enabled libcurl that also link with GPL-licensed code!

OpenSSL <http://www.openssl.org/source/license.html>

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using GnuTLS or yassl instead.

GnuTLS <http://www.gnutls.org/>

(May be used for SSL/TLS support) Uses the LGPL[3] license. If this is a problem for you, consider using OpenSSL instead. Also note that GnuTLS itself depends on and uses other libs (libcrypt and libpgg-error) and they too are LGPL- or GPL-licensed.

yassl <http://www.yassl.com/>

(May be used for SSL/TLS support) Uses the GPL[1] license. If this is a problem for you, consider using OpenSSL or GnuTLS instead.

NSS <http://www.mozilla.org/projects/security/pki/nss/>

(May be used for SSL/TLS support) Is covered by the MPL[4] license, the GPL[1] license and the LGPL[3] license. You may choose to license the code under MPL terms, GPL terms, or LGPL terms. These licenses grant you different permissions and impose different obligations. You should select the license that best meets your needs.

axTLS <http://axtls.sourceforge.net/>

(May be used for SSL/TLS support) Uses a Modified BSD-style license.

c-ares <http://daniel.haxx.se/projects/c-ares/license.html>

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

zlib [http://www.gzip.org/zlib/zlib\\_license.html](http://www.gzip.org/zlib/zlib_license.html)

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

krb4

While nothing in particular says that a Kerberos4 library must use any particular license, the one I've tried and used successfully so far (kth-krb4) is partly Original BSD-licensed with the announcement clause. Some of the code in libcurl that is written to deal with Kerberos4 is Modified BSD-licensed.

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GNU GSS <http://www.gnu.org/software/gss/>

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fbopenssl

(Used for SPNEGO support) Unclear license. Based on its name, I assume that it uses the OpenSSL license and thus shares the same issues as described for OpenSSL above.

libidn <http://josefsson.org/libidn/>

(Used for IDNA support) Uses the GNU Lesser General Public License [3]. LGPL is a variation of GPL with slightly less aggressive "copyleft". This license requires more requirements to be met when

distributing binaries, see the license for details. Also note that if you distribute a binary that includes this library, you must also include the full LGPL license text. Please properly point out what parts of the distributed package that the license addresses.

OpenLDAP <http://www.openldap.org/software/release/license.html>

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[2] = <http://www.fsf.org/licenses/gpl-faq.html#GPLIncompatibleLibs> details on how to write such an exception to the GPL

[3] = LGPL - GNU Lesser General Public License:  
<http://www.gnu.org/licenses/lgpl.html>

[4] = MPL - Mozilla Public License:  
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## 1.249 Curl 7.50.1

### 1.249.1 Available under license :

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WolfSSL <https://www.wolfssl.com/>

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## 1.255 cxf-common-utilities 2.2.7

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## 1.262 cxf-rt-frontend-jaxrs 2.2.7

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 * $Id$
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 * $Id$
 */
```

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## 1.270 debug 2.2.0

### 1.270.1 Available under license :

```
# debug
```

tiny node.js debugging utility modelled after node core's debugging technique.

```
## Installation
```

```
```bash
$ npm install debug
```
```

```
## Usage
```

With `debug`` you simply invoke the exported function to generate your debug function, passing it a name which will determine if a noop function is returned, or a decorated ``console.error``, so all of the ``console`` format string

goodies you're used to work fine. A unique color is selected per-function for visibility.

Example `_app.js_`:

```
```js
var debug = require('debug')('http')
, http = require('http')
, name = 'My App';

// fake app

debug('booting %s', name);

http.createServer(function(req, res){
  debug(req.method + ' ' + req.url);
  res.end('hello\n');
}).listen(3000, function(){
  debug('listening');
});

// fake worker of some kind

require('./worker');
```
```

Example `_worker.js_`:

```
```js
var debug = require('debug')('worker');

setInterval(function(){
  debug('doing some work');
}, 1000);
```
```

The `__DEBUG__` environment variable is then used to enable these based on space or comma-delimited names. Here are some examples:

```
![debug http and worker](http://f.cl.ly/items/18471z1H402O24072r1J/Screenshot.png)
```

```
![debug worker](http://f.cl.ly/items/1X413v1a3M0d3C2c1E0i/Screenshot.png)
```

#### Windows note

On Windows the environment variable is set using the ``set`` command.

```
```cmd
set DEBUG=*,-not_this
```
```

...

Then, run the program to be debugged as usual.

```
## Millisecond diff
```

When actively developing an application it can be useful to see when the time spent between one ``debug()`` call and the next. Suppose for example you invoke ``debug()`` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.



When stdout is not a TTY, ``Date#toUTCString()`` is used, making it more useful for logging the debug information as shown below:



```
## Conventions
```

If you're using this in one or more of your libraries, you *should* use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you *should* prefix them with your library name and use ":" to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser".

```
## Wildcards
```

The ``*`` character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with ``DEBUG=connect:bodyParser,connect:compress,connect:session``, you may simply do ``DEBUG=connect:*``, or to run everything using this module simply use ``DEBUG=*``.

You can also exclude specific debuggers by prefixing them with a "-" character. For example, ``DEBUG=*,-connect:*`` would include all debuggers except those starting with "connect:".

```
## Browser support
```

Debug works in the browser as well, currently persisted by ``localStorage``. Consider the situation shown below where you have ``worker:a`` and ``worker:b``, and wish to debug both. Somewhere in the code on your page, include:

```
``js
window.myDebug = require("debug");
``
```

("debug" is a global object in the browser so we give this object a different name.) When your page is open in the browser, type the following in the console:

```
``js
myDebug.enable("worker:*")
```

...

Refresh the page. Debug output will continue to be sent to the console until it is disabled by typing ``myDebug.disable()`` in the console.

```
```js
a = debug('worker:a');
b = debug('worker:b');
```

```
setInterval(function(){
  a('doing some work');
}, 1000);
```

```
setInterval(function(){
  b('doing some work');
}, 1200);
```
```

#### #### Web Inspector Colors

Colors are also enabled on "Web Inspectors" that understand the ``%c`` formatting option. These are WebKit web inspectors, Firefox ([since version 31](<https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/>)) and the Firebug plugin for Firefox (any version).

Colored output looks something like:



#### ### stderr vs stdout

You can set an alternative logging method per-namespace by overriding the ``log`` method on a per-namespace or globally:

Example `_stdout.js`:

```
```js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');

var log = debug('app:log');
// set this namespace to log via console.log
log.log = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout');
```

```
error('still goes to stderr!');

// set all output to go via console.info
// overrides all per-namespace log settings
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');
...

```

### Save debug output to a file

You can save all debug statements to a file by piping them.

Example:

```
```bash
$ DEBUG_FD=3 node your-app.js 3> whatever.log
...

```

## Authors

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- Nathan Rajlich

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# 1.271 dependency-management-plugin

## 0.5.6.RELEASE.

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# 1.290 EasyMock 3.2

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# 1.292 ecj 3.7.2

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## 1.293 ehcache 1.1

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# 1.295 ehcache-core 2.4.3

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# Compress LZF

This library contains efficient implementation of LZF compression format, as well as additional helper classes that build on JDK-provided gzip (deflate) codec.

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## Credit

Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi). It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

- \* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
- \* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

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## 1.308 feign-core 8.16.2

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## 1.313 flex\_sdk\_libs 3.2.0.3958

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#  
# All lines in this file are patterns, including the comment lines; this  
# means that e.g. `FTL.TXT' matches all files that have this string in  
# the file name (including the path relative to the current directory,  
# always starting with `./').  
#  
# Don't put empty lines into this file!  
#  
.gitignore  
#  
builds/unix/pkg.m4  
#  
docs/FTL.TXT  
docs/GPLv2.TXT
```

```
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
```

#

# EOF

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## 1.323 g++ 5.3.0 :r0

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fdlibm contains general algorithms useful for runtimes and compilers to support strict double and float mathematical operations.

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

#### HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.  
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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The precise terms and conditions for copying, distribution and modification follow.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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The work must carry prominent notices stating that you modified it, and giving a relevant date.

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Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

@item

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be

on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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@setfilename gfdl
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with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts being @var{list}.

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

@c man end

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@center Version 2.1, February 1999

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@ifinfo  
@center END OF TERMS AND CONDITIONS  
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@page  
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@var{signature of Ty Coon}, 1 April 1990  
Ty Coon, President of Vice  
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That's all there is to it!

# 1.324 gcc 5.3.0 :r0

## 1.324.1 Available under license :

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Version 3, 29 June 2007

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\* m4/ax\_func\_which\_gethostbyname\_r.m4

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in

README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader

specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and

Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and

Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.

Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.

Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to

a Motorola 88K processor running CX/UX (Harris NightHawk).

Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to

nonIBM development environments (a nontrivial task).

Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.

David Chase, then at Olivetti Research, suggested several improvements.

Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and



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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a

derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)

will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany

it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the `Lesser` General Public License because it does *Less* to protect the user's freedom than the ordinary General Public License. It also provides other free software developers *Less* of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU

operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library" and a ``work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

```
@iftex
@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
@ifinfo
@center GNU LESSER GENERAL PUBLIC LICENSE
@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end ifinfo
```

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@enumerate 0
```

```
@item
```

This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called ``this License"). Each licensee is addressed as ``you".

A ``library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library", below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

@item

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

@item

You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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The modified work must itself be a software library.

@item

You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item

You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

@item

If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

@end enumerate

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

@item

You may copy and distribute the Library (or a portion or

derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library''. Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library''. The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item

As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

@item

If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

@item

Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

@end enumerate

For an executable, the required form of the ``work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

@item

You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

@item

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

@item

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@item

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@end enumerate

@iftex

@heading END OF TERMS AND CONDITIONS

@end iftex

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@center END OF TERMS AND CONDITIONS

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@page

@appendixsubsec How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the library's name and an idea of what it does.}

Copyright (C) @var{year} @var{name of author}

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

@end smallexample

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a ``copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

@smallexample

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

## 1.325 gcc 5.3.0

### 1.325.1 Available under license :

Boost Software License - Version 1.0 - August 17th, 2003

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Version 3, 29 June 2007

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### Preamble

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as

changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

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"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a

computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

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#### 1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically

linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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- b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an



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#### 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
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```
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This is an attempt to acknowledge early contributions to the garbage  
collector. Later contributions should instead be mentioned in  
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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Version 2.1, February 1999

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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```
@c man end
@ignore
@c Set file name and title for man page.
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
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@end ignore
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@comment node-name, next, previous, up
@node GNU Free Documentation License, Concept Index, Old, Top
@end ifnohtml
@html
<h1 align="center">Installing GCC: GNU Free Documentation License</h1>
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Version 3.1, 31 March 2009

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## 1.326 gcc 4.2.1

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Version 3, 29 June 2007

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```

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```

```
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Ty Coon, President of Vice
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-----  
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```

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```



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## 1.337 [github.com/go-yaml/yaml/tree/v2](https://github.com/go-yaml/yaml/tree/v2)

## [github.com/go-yaml/yaml/tree/v2](https://github.com/go-yaml/yaml/tree/v2)

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- parserc.go
- readerc.go
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# 1.338 [github.com/kardianos/govendor](https://github.com/kardianos/govendor)

## [github.com/kardianos/govendor](https://github.com/kardianos/govendor)

### 1.338.1 Available under license :

package context

```
import (  
    "testing"  
)  
  
func TestGetLastVendorRoot(t *testing.T) {  
    tt := []struct {  
        From string  
        To string  
    }{  
        {  
            From: "/foo/bar/bean",  
            To: "/foo/bar/bean",  
        },  
        {  
            From: "/foo/bar/bean/vendor/fox/vax/bax",  
            To: "/fox/vax/bax",  
        },  
    }  
    for _, item := range tt {  
        got := getLastVendorRoot(item.From)  
        if got != item.To {  
            t.Errorf("Want: %q, Got: %q", item.To, got)  
        }  
    }  
}
```

```
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```

```
package context
```

```
import (  
    "fmt"  
    "io/ioutil"  
    "os"  
    "path"  
    "path/filepath"  
    "strings"  
  
    "github.com/kardianos/govendor/internal/pathos"  
    "github.com/pkg/errors"  
)
```

```
type License struct {  
    Path    string  
    Filename string  
    Text    string  
}
```

```
type LicenseSort []License
```

```
func (list LicenseSort) Len() int {  
    return len(list)  
}  
func (list LicenseSort) Swap(i, j int) {  
    list[i], list[j] = list[j], list[i]  
}  
func (list LicenseSort) Less(i, j int) bool {  
    a, b := list[i], list[j]  
    if a.Path == b.Path {  
        return a.Filename < b.Filename  
    }  
    return a.Path < b.Path  
}
```

```
type licenseSearchType byte
```

```
const (  
    licensePrefix licenseSearchType = iota  
    licenseSubstring  
    licenseSuffix  
)
```

```

type licenseSearch struct {
    Text string
    Search licenseSearchType
}

func (t licenseSearchType) Test(filename, test string) bool {
    switch t {
    case licensePrefix:
        return strings.HasPrefix(filename, test)
    case licenseSubstring:
        return strings.Contains(filename, test)
    case licenseSuffix:
        return strings.HasSuffix(filename, test)
    }
    return false
}

type licenseTest interface {
    Test(filename, test string) bool
}

// licenses lists the filenames to copy over to the vendor folder.
var licenses = []licenseSearch{
    {Text: "license", Search: licensePrefix},
    {Text: "unlicense", Search: licensePrefix},
    {Text: "copying", Search: licensePrefix},
    {Text: "copyright", Search: licensePrefix},
    {Text: "copyright", Search: licensePrefix},
    {Text: "legal", Search: licenseSubstring},
    {Text: "notice", Search: licenseSubstring},
    {Text: "disclaimer", Search: licenseSubstring},
    {Text: "patent", Search: licenseSubstring},
    {Text: "third-party", Search: licenseSubstring},
    {Text: "thirdparty", Search: licenseSubstring},
}

var licenseNotExt = []string{
    ".go",
    ".c",
    ".h",
    ".cpp",
    ".hpp",
}

func isLicenseFile(name string) bool {
    cname := strings.ToLower(name)
    for _, X := range licenseNotExt {
        if filepath.Ext(name) == X {

```

```

    return false
}
}
for _, L := range licenses {
    if L.Search.Test(cname, L.Text) {
        return true
    }
}
return false
}

// licenseWalk starts in a folder and searches up the folder tree
// for license like files. Found files are reported to the found function.
func licenseWalk(root, startIn string, found func(folder, name string) error) error {
    folder := startIn
    for i := 0; i <= looplevelimit; i++ {
        dir, err := os.Open(folder)
        if err != nil {
            return err
        }

        fl, err := dir.Readdir(-1)
        dir.Close()
        if err != nil {
            return err
        }
        for _, fi := range fl {
            name := fi.Name()
            if name[0] == '.' {
                continue
            }
            if fi.IsDir() {
                continue
            }
            if !isLicenseFile(name) {
                continue
            }

            err = found(folder, name)
            if err != nil {
                return err
            }
        }

        if len(folder) <= len(root) {
            return nil
        }
    }
}

```

```

nextFolder := filepath.Clean(filepath.Join(folder, ".."))

if nextFolder == folder {
    return nil
}
folder = nextFolder
}
panic("licenseFind loop limit")
}

// licenseCopy starts the search in the parent of "startIn" folder.
// Looks in all sub-folders until root is reached. The root itself is not
// searched.
func licenseCopy(root, startIn, vendorRoot, pkgPath string) error {
    addTo, _ := pathos.TrimCommonSuffix(pathos.SlashToFilepath(pkgPath), startIn)
    startIn = filepath.Clean(filepath.Join(startIn, ".."))
    return licenseWalk(root, startIn, func(folder, name string) error {
        srcPath := filepath.Join(folder, name)
        trimTo := pathos.FileTrimPrefix(getLastVendorRoot(folder), root)

        /*
        Path: "golang.org/x/tools/go/vcs"
        Root: "/tmp/govendor-cache280388238/1"
        StartIn: "/tmp/govendor-cache280388238/1/go/vcs"
        addTo: "golang.org/x/tools"
        $PROJ/vendor + addTo + pathos.FileTrimPrefix(folder, root) + "LICENSE"
        */
        destPath := filepath.Join(vendorRoot, addTo, trimTo, name)

        // Only copy if file does not exist.
        _, err := os.Stat(srcPath)
        if err != nil {
            return errors.Errorf("Source license path doesn't exist %q", srcPath)
        }
        destDir, _ := filepath.Split(destPath)
        os.MkdirAll(destDir, 0777)
        return errors.Wrapf(copyFile(destPath, srcPath, nil), "copyFile dest=%q src=%q", destPath, srcPath)
    })
}

func getLastVendorRoot(s string) string {
    w := strings.Replace(s, "\\", "/", -1)
    ix := strings.LastIndex(w, "/vendor/")
    if ix < 0 {
        return s
    }
    return s[ix+len("/vendor"):]
}

```

```

// LicenseDiscover looks for license files in a given path.
func LicenseDiscover(root, startIn, overridePath string, list map[string]License) error {
return licenseWalk(root, startIn, func(folder, name string) error {
    ipath := pathos.SlashToImportPath(strings.TrimPrefix(folder, root))
    if len(overridePath) > 0 {
        ipath = overridePath
    }
    if _, found := list[ipath]; found {
        return nil
    }
    p := filepath.Join(folder, name)
    text, err := ioutil.ReadFile(p)
    if err != nil {
        return fmt.Errorf("Failed to read license file %q %v", p, err)
    }
    key := path.Join(ipath, name)
    list[key] = License{
        Path:    ipath,
        Filename: name,
        Text:    string(text),
    }
    return nil
})
}

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```

```
package run
```

```

import (
    "flag"
    "fmt"
    "io"
    "io/ioutil"
    "os"
    "path/filepath"
    "sort"
    "text/template"

    "github.com/kardianos/govendor/context"
    "github.com/kardianos/govendor/help"
)

```

```

var defaultLicenseTemplate = `{{range $index, $t := .}}>{{if ne $index
0}}~~~~~
{{end}}>{{.Filename}} - {{.Path}}

```

```
{{.Text}}{{end}}
```

```
func (r *runner) License(w io.Writer, subCmdArgs []string) (help.HelpMessage, error) {  
    flags := flag.NewFlagSet("license", flag.ContinueOnError)  
    flags.SetOutput(nullWriter{ })  
    outputFilename := flags.String("o", "", "output")  
    templateFilename := flags.String("template", "", "custom template file")  
    err := flags.Parse(subCmdArgs)  
    if err != nil {  
        return help.MsgLicense, err  
    }  
    args := flags.Args()  
  
    templateText := defaultLicenseTemplate  
    if len(*templateFilename) > 0 {  
        text, err := ioutil.ReadFile(*templateFilename)  
        if err != nil {  
            return help.MsgNone, err  
        }  
        templateText = string(text)  
    }  
    t, err := template.New("").Parse(templateText)  
    if err != nil {  
        return help.MsgNone, err  
    }  
    output := w  
    if len(*outputFilename) > 0 {  
        f, err := os.Create(*outputFilename)  
        if err != nil {  
            return help.MsgNone, err  
        }  
        defer f.Close()  
        output = f  
    }  
  
    ctx, err := r.NewContextWD(context.RootVendorOrWD)  
    if err != nil {  
        return checkNewContextError(err)  
    }  
    cgp, err := currentGoPath(ctx)  
    if err != nil {  
        return help.MsgNone, err  
    }  
    f, err := parseFilter(cgp, args)  
    if err != nil {  
        return help.MsgLicense, err  
    }  
}
```



```

if len(f.Import) == 0 {
    insertListToAllNot(&f.Status, normal)
} else {
    insertListToAllNot(&f.Status, all)
}

list, err := ctx.Status()
if err != nil {
    return help.MsgNone, err
}
var licenseList context.LicenseSort
var lmap = make(map[string]context.License, 9)

err = context.LicenseDiscover(filepath.Clean(filepath.Join(ctx.Goroot, "..")), ctx.Goroot, " go", lmap)
if err != nil {
    return help.MsgNone, fmt.Errorf("Failed to discover license for Go %q %v", ctx.Goroot, err)
}

for _, item := range list {
    if f.HasStatus(item) == false {
        continue
    }
    if len(f.Import) != 0 && f.FindImport(item) == nil {
        continue
    }
    err = context.LicenseDiscover(ctx.RootGopath, filepath.Join(ctx.RootGopath, item.Local), "", lmap)
    if err != nil {
        return help.MsgNone, fmt.Errorf("Failed to discover license for %q %v", item.Local, err)
    }
}
for _, l := range lmap {
    licenseList = append(licenseList, l)
}
sort.Sort(licenseList)

return help.MsgNone, t.Execute(output, licenseList)
}

```

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,

// Machine generated; DO NOT EDIT.

package help

```
var msgGovendorLicenses = `{{range $index, $t := .}}{{if ne $index  
0}}~~~~~  
{{end}}{.Filename} - {.Path}  
{.Text}{{end}}
```

,

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# 1.339 glib 1.2.10

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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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# 1.340 glibc-common 2.12 :2010-05-03 Ulrich Drepper

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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```
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# 1.343 go viper [github.com/spf13/viper](https://github.com/spf13/viper)

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# 1.344 go-buffruneio [github.com/pelletier/go-buffruneio](https://github.com/pelletier/go-buffruneio)

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## 1.345 go-semver

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## 1.347 golang glog

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## 1.348 golang-github-gorilla-mux

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## 11

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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# 1.362 Hibernate Core 3.6.0.Final

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/\*

\* Hibernate, Relational Persistence for Idiomatic Java

\*

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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```
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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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## 1.370 hibernate-core 4.1.3.Final

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\* Hibernate, Relational Persistence for Idiomatic Java

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## 1.386 i18n requirejs 2.0.4

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## 1.407 jackson-mapper-asl 1.9.13

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## 1.408 jackson-mapper-asl 1.9.12

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# 1.414 Java Activation API 1.1.0

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# 1.415 Java Activation API 1.1.1

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# 1.416 Java Dictionary password validator 1.1

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## 1.417 Java Messaging System API 1.1.0

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## 1.418 Java Persistence API, Version 2.1

### 1.0.0.Final

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## 1.419 Java XML Binding API 2.1.7

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## 1.420 java-getopt 1.0.13 :(2006/08/29)

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## 1.421 Java-WebSocket 1.3.1.1

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### 1.1

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The JAXB expert group has wide industry participation with Oracle as the EG lead. The initial specification (JAXB 1.0) was JSR-31 and was released in March 2003.

The next versions of the spec (JAXB 2.0/2.1/2.2) are being developed as JSR-222. This release addresses a number of additional requirements in the area, and increases the synergy between the JAXB and JAX-WS specifications.

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# 1.448 JBoss Logging 3 3.1.0.GA

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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## 1.451 jboss-common-core 2.2.10.GA

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### 1.7.12

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\*/

package org.apache.commons.logging;

/\*\*

\* <p>A simple logging interface abstracting logging APIs. In order to be

\* instantiated successfully by { @link LogFactory }, classes that implement

\* this interface must have a constructor that takes a single String

\* parameter representing the "name" of this Log.</p>

\*

\* <p> The six logging levels used by <code>Log</code> are (in order):

\* <ol>

\* <li>trace (the least serious)</li>

\* <li>debug</li>

\* <li>info</li>

\* <li>warn</li>

\* <li>error</li>

\* <li>fatal (the most serious)</li>

\* </ol>

\* The mapping of these log levels to the concepts used by the underlying

```

* logging system is implementation dependent.
* The implementation should ensure, though, that this ordering behaves
* as expected.</p>
*
* <p>Performance is often a logging concern.
* By examining the appropriate property,
* a component can avoid expensive operations (producing information
* to be logged).</p>
*
* <p> For example,
* <code><pre>
*   if (log.isDebugEnabled()) {
*       ... do something expensive ...
*       log.debug(theResult);
*   }
* </pre></code>
* </p>
*
* <p>Configuration of the underlying logging system will generally be done
* external to the Logging APIs, through whatever mechanism is supported by
* that system.</p>
*
* <p style="color: #E40; font-weight: bold;">Please note that this interface is identical to that found in JCL
1.1.1.</p>
*
* @author <a href="mailto:sanders@apache.org">Scott Sanders</a>
* @author Rod Waldhoff
* @version $Id: Log.java,v 1.19 2004/06/06 21:16:04 rdonkin Exp $
*/
public interface Log {

    // ----- Logging Properties

    /**
     * <p> Is debug logging currently enabled? </p>
     *
     * <p> Call this method to prevent having to perform expensive operations
     * (for example, <code>String</code> concatenation)
     * when the log level is more than debug. </p>
     */
    public boolean isDebugEnabled();

    /**
     * <p> Is error logging currently enabled? </p>
     *

```



```

* <p> Call this method to prevent having to perform expensive operations
* (for example, <code>String</code> concatenation)
* when the log level is more than error. </p>
*/
public boolean isErrorEnabled();

/**
* <p> Is fatal logging currently enabled? </p>
*
* <p> Call this method to prevent having to perform expensive operations
* (for example, <code>String</code> concatenation)
* when the log level is more than fatal. </p>
*/
public boolean isFatalEnabled();

/**
* <p> Is info logging currently enabled? </p>
*
* <p> Call this method to prevent having to perform expensive operations
* (for example, <code>String</code> concatenation)
* when the log level is more than info. </p>
*
* @return true if info enabled, false otherwise
*/
public boolean isInfoEnabled();

/**
* <p> Is trace logging currently enabled? </p>
*
* <p> Call this method to prevent having to perform expensive operations
* (for example, <code>String</code> concatenation)
* when the log level is more than trace. </p>
*
* @return true if trace enabled, false otherwise
*/
public boolean isTraceEnabled();

/**
* <p> Is warn logging currently enabled? </p>
*
* <p> Call this method to prevent having to perform expensive operations
* (for example, <code>String</code> concatenation)
* when the log level is more than warn. </p>
*/

```

```

public boolean isWarnEnabled();

// ----- Logging Methods

/**
 * <p> Log a message with trace log level. </p>
 *
 * @param message log this message
 */
public void trace(Object message);

/**
 * <p> Log an error with trace log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void trace(Object message, Throwable t);

/**
 * <p> Log a message with debug log level. </p>
 *
 * @param message log this message
 */
public void debug(Object message);

/**
 * <p> Log an error with debug log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void debug(Object message, Throwable t);

/**
 * <p> Log a message with info log level. </p>
 *
 * @param message log this message
 */
public void info(Object message);

```

```
/**
 * <p> Log an error with info log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void info(Object message, Throwable t);
```

```
/**
 * <p> Log a message with warn log level. </p>
 *
 * @param message log this message
 */
public void warn(Object message);
```

```
/**
 * <p> Log an error with warn log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void warn(Object message, Throwable t);
```

```
/**
 * <p> Log a message with error log level. </p>
 *
 * @param message log this message
 */
public void error(Object message);
```

```
/**
 * <p> Log an error with error log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void error(Object message, Throwable t);
```

```
/**
 * <p> Log a message with fatal log level. </p>
 *
 * @param message log this message
 */
```

```

public void fatal(Object message);

/**
 * <p>Log an error with fatal log level. </p>
 *
 * @param message log this message
 * @param t log this cause
 */
public void fatal(Object message, Throwable t);

}

```

## 1.463 jcl-over-slf4j 1.5.8

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\*/

```
package org.jdom;
```

```
/**
```

```
 * An XML comment. Methods allow the user to get and set the text of the  
 * comment.
```

```
 *
```

```
 * @version $Revision: 1.32 $, $Date: 2004/02/11 21:12:43 $
```

```
 * @author Brett McLaughlin
```

```
 * @author Jason Hunter
```

```
*/
```

```
public class Comment extends Content {
```

```
    private static final String CVS_ID =
```

```
        "@(#) $RCSfile: Comment.java,v $ $Revision: 1.32 $ $Date: 2004/02/11 21:12:43 $ $Name: jdom_1_0 $";
```

```
    /** Text of the <code>Comment</code> */
```

```
    protected String text;
```

```
    /**
```

```
     * Default, no-args constructor for implementations to use if needed.
```

```
     */
```

```
    protected Comment() {}
```

```
    /**
```

```
     * This creates the comment with the supplied text.
```

```
     *
```

```
     * @param text <code>String</code> content of comment.
```

```
     */
```

```
    public Comment(String text) {
```

```
        setText(text);
```

```
    }
```

```

/**
 * Returns the XPath 1.0 string value of this element, which is the
 * text of this comment.
 *
 * @return the text of this comment
 */
public String getValue() {
    return text;
}

/**
 * This returns the textual data within the <code>Comment</code>.
 *
 * @return <code>String</code> - text of comment.
 */
public String getText() {
    return text;
}

/**
 * This will set the value of the <code>Comment</code>.
 *
 * @param text <code>String</code> text for comment.
 * @return <code>Comment</code> - this Comment modified.
 * @throws IllegalArgumentException if the given text is illegal for a
 *     Comment.
 */
public Comment setText(String text) {
    String reason;
    if ((reason = Verifier.checkCommentData(text)) != null) {
        throw new IllegalArgumentException(text, "comment", reason);
    }

    this.text = text;
    return this;
}

/**
 * This returns a <code>String</code> representation of the
 * <code>Comment</code>, suitable for debugging. If the XML
 * representation of the <code>Comment</code> is desired,
 * { @link org.jdom.output.XMLOutputter#outputString(Comment) }
 * should be used.
 *
 * @return <code>String</code> - information about the
 *     <code>Attribute</code>
 */
public String toString() {

```

```
        return new StringBuffer()
            .append("[Comment: ")
            .append(new org.jdom.output.XMLOutputter().outputString(this))
            .append("]")
            .toString();
    }

}
```

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# 1.469 jersey-apache-client 4-1.19.1

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19 May, 2009

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## 1.483 jetty-continuation 8.1.3.v20120416

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//
```

```
package org.eclipse.jetty.continuation;
```

```
import javax.servlet.Filter;  
import javax.servlet.FilterChain;  
import javax.servlet.Servlet;  
import javax.servlet.ServletException;  
import javax.servlet.ServletRequest;  
import javax.servlet.ServletResponse;  
import javax.servlet.ServletResponseWrapper;
```

```
/* ----- */
```

```
/**
```

```
 * Continuation.
```

```
 *
```

```
 * A continuation is a mechanism by which a HTTP Request can be suspended and  
 * restarted after a timeout or an asynchronous event has occurred.
```

```
 * <p>
```

```
 * The continuation mechanism is a portable mechanism that will work  
 * asynchronously without additional configuration of all jetty-7,  
 * jetty-8 and Servlet 3.0 containers. With the addition of  
 * the { @link ContinuationFilter}, the mechanism will also work  
 * asynchronously on jetty-6 and non-asynchronously on any  
 * servlet 2.5 container.
```

```
 * <p>
```

```
 * The Continuation API is a simplification of the richer async API  
 * provided by the servlet-3.0 and an enhancement of the continuation  
 * API that was introduced with jetty-6.
```

```
 * </p>
```

```
 * <h1>Continuation Usage</h1>
```

\* <p>  
 \* A continuation object is obtained for a request by calling the  
 \* factory method { @link ContinuationSupport#getContinuation(ServletRequest)}.  
 \* The continuation type returned will depend on the servlet container  
 \* being used.

\* </p>

\* <p>

\* There are two distinct style of operation of the continuation API.

\* </p>

\* <h3>Suspend/Resume Usage</h3>

\* <p>The suspend/resume style is used when a servlet and/or

\* filter is used to generate the response after a asynchronous wait that is

\* terminated by an asynchronous handler.

\* </p>

\* <pre>

\* <b>Filter/Servlet:</b>

\* // if we need to get asynchronous results

\* Object results = request.getAttribute("results");

\* if (results==null)

\* {

\* Continuation continuation = ContinuationSupport.getContinuation(request);

\* continuation.suspend();

\* myAsyncHandler.register(continuation);

\* return; // or continuation.undispatch();

\* }

\*

\* async wait ...

\*

\* <b>Async Handler:</b>

\* // when the waited for event happens

\* continuation.setAttribute("results",event);

\* continuation.resume();

\*

\* <b>Filter/Servlet:</b>

\* // when the request is redispached

\* if (results==null)

\* {

\* ... // see above

\* }

\* else

\* {

\* response.getOutputStream().write(process(results));

\* }

\* </pre>

\* <h3>Suspend/Complete Usage</h3>

\* <p>

\* The suspend/complete style is used when an asynchronous handler is used to

\* generate the response:

```

* </p>
* <pre>
* <b>Filter/Servlet:</b>
* // when we want to enter asynchronous mode
* Continuation continuation = ContinuationSupport.getContinuation(request);
* continuation.suspend(response); // response may be wrapped
* myAsyncHandler.register(continuation);
* return; // or continuation.undispatch();
*
* <b>Wrapping Filter:</b>
* // any filter that had wrapped the response should be implemented like:
* try
* {
*   chain.doFilter(request,wrappedResponse);
* }
* finally
* {
*   if (!continuation.isResponseWrapped())
*     wrappedResponse.finish()
*   else
*     continuation.addContinuationListener(myCompleteListener)
* }
*
* async wait ...
*
* <b>Async Handler:</b>
* // when the async event happens
* continuation.getServletResponse().getOutputStream().write(process(event));
* continuation.complete()
* </pre>
*
* <h1>Continuation Timeout</h1>
* <p>
* If a continuation is suspended, but neither { @link #complete()} or { @link #resume()} is
* called during the period set by { @link #setTimeout(long)}, then the continuation will
* expire and { @link #isExpired()} will return true.
* </p>
* <p>
* When a continuation expires, the { @link ContinuationListener#onTimeout(Continuation)}
* method is called on any { @link ContinuationListener} that has been registered via the
* { @link #addContinuationListener(ContinuationListener)} method. The onTimeout handlers
* may write a response and call { @link #complete()}. If { @link #complete()} is not called,
* then the container will redispach the request as if { @link #resume()} had been called,
* except that { @link #isExpired()} will be true and { @link #isResumed()} will be false.
* </p>
*
* @see ContinuationSupport
* @see ContinuationListener

```



```

*
*/
public interface Continuation
{
    public final static String ATTRIBUTE = "org.eclipse.jetty.continuation";

    /* ----- */
    /**
     * Set the continuation timeout.
     *
     * @param timeoutMs
     *     The time in milliseconds to wait before expiring this
     *     continuation after a call to {@link #suspend()} or {@link #suspend(ServletResponse)}.
     *     A timeout of <=0 means the continuation will never expire.
     */
    void setTimeout(long timeoutMs);

    /* ----- */
    /**
     * Suspend the processing of the request and associated
     * {@link ServletResponse}.
     *
     * <p>
     * After this method has been called, the lifecycle of the request will be
     * extended beyond the return to the container from the
     * {@link Servlet#service(ServletRequest, ServletResponse)} method and
     * {@link Filter#doFilter(ServletRequest, ServletResponse, FilterChain)}
     * calls. When a suspended request is returned to the container after
     * a dispatch, then the container will not commit the associated response
     * (unless an exception other than {@link ContinuationThrowable} is thrown).
     * </p>
     *
     * <p>
     * When the thread calling the filter chain and/or servlet has returned to
     * the container with a suspended request, the thread is freed for other
     * tasks and the request is held until either:
     * <ul>
     * <li>a call to {@link #resume()}.</li>
     * <li>a call to {@link #complete()}.</li>
     * <li>the timeout expires.</li>
     * </ul>
     * <p>
     * Typically suspend with no arguments is used when a call to {@link #resume()}
     * is expected. If a call to {@link #complete()} is expected, then the
     * {@link #suspend(ServletResponse)} method should be used instead of this method.
     * </p>
     *
     * @exception IllegalStateException

```

```

*           If the request cannot be suspended
*/
void suspend();

/* ----- */
/**
 * Suspend the processing of the request and associated
 * {@link ServletResponse}.
 *
 * <p>
 * After this method has been called, the lifecycle of the request will be
 * extended beyond the return to the container from the
 * {@link Servlet#service(ServletRequest, ServletResponse)} method and
 * {@link Filter#doFilter(ServletRequest, ServletResponse, FilterChain)}
 * calls. When a suspended request is returned to the container after
 * a dispatch, then the container will not commit the associated response
 * (unless an exception other than {@link ContinuationThrowable} is thrown).
 * </p>
 * <p>
 * When the thread calling the filter chain and/or servlet has returned to
 * the container with a suspended request, the thread is freed for other
 * tasks and the request is held until either:
 * <ul>
 * <li>a call to {@link #resume()}.</li>
 * <li>a call to {@link #complete()}.</li>
 * <li>the timeout expires.</li>
 * </ul>
 * <p>
 * Typically suspend with a response argument is uses when a call to {@link #complete()}
 * is expected. If a call to {@link #resume()} is expected, then the
 * {@link #suspend()} method should be used instead of this method.
 * </p>
 * <p>
 * Filters that may wrap the response object should check {@link #isResponseWrapped()}
 * to decide if they should destroy/finish the wrapper. If {@link #isResponseWrapped()}
 * returns true, then the wrapped request has been passed to the asynchronous
 * handler and the wrapper should not be destroyed/finished until after a call to
 * {@link #complete()} (potentially using a {@link ContinuationListener#onComplete(Continuation)}
 * listener).
 *
 * @param response The response to return via a call to {@link #getServletResponse()}
 * @exception IllegalStateException
 *           If the request cannot be suspended
 */
void suspend(ServletResponse response);

/* ----- */

```

```

/**
 * Resume a suspended request.
 *
 * <p>
 * This method can be called by any thread that has been passed a reference
 * to a continuation. When called the request is redispached to the
 * normal filter chain and servlet processing with { @link #isInitial() } false.
 * </p>
 * <p>
 * If resume is called before a suspended request is returned to the
 * container (ie the thread that called { @link #suspend() } is still
 * within the filter chain and/or servlet service method), then the resume
 * does not take effect until the call to the filter chain and/or servlet
 * returns to the container. In this case both { @link #isSuspended() } and
 * { @link #isResumed() } return true. Multiple calls to resume are ignored.
 * </p>
 * <p>
 * Typically resume() is used after a call to { @link #suspend() } with
 * no arguments. The dispatch after a resume call will use the original
 * request and response objects, even if { @link #suspend(ServletResponse) }
 * had been passed a wrapped response.
 * </p>
 *
 * @see #suspend()
 * @exception IllegalStateException if the request is not suspended.
 *
 */
void resume();

/* ----- */
/**
 * Complete a suspended request.
 *
 * <p>
 * This method can be called by any thread that has been passed a reference
 * to a suspended request. When a request is completed, the associated
 * response object committed and flushed. The request is not redispached.
 * </p>
 *
 * <p>
 * If complete is called before a suspended request is returned to the
 * container (ie the thread that called { @link #suspend() } is still
 * within the filter chain and/or servlet service method), then the complete
 * does not take effect until the call to the filter chain and/or servlet
 * returns to the container. In this case both { @link #isSuspended() } and
 * { @link #isResumed() } return true.
 * </p>
 *

```

```

* <p>
* Typically resume() is used after a call to {@link #suspend(ServletResponse)} with
* a possibly wrapped response. The async handler should use the response
* provided by {@link #getServletResponse()} to write the response before
* calling {@link #complete()}. If the request was suspended with a
* call to {@link #suspend()} then no response object will be available via
* {@link #getServletResponse()}.
* </p>
*
* <p>
* Once complete has been called and any thread calling the filter chain
* and/or servlet chain has returned to the container, the request lifecycle
* is complete. The container is able to recycle request objects, so it is
* not valid hold a request or continuation reference after the end of the
* life cycle.
*
* @see #suspend()
* @exception IllegalStateException
*         if the request is not suspended.
*
*/
void complete();

/* ----- */
/**
 * @return true after {@link #suspend()} has been called and before the
 * request has been redispached due to being resumed, completed or
 * timed out.
 */
boolean isSuspended();

/* ----- */
/**
 * @return true if the request has been redispached by a call to
 * {@link #resume()}. Returns false after any subsequent call to
 * suspend
 */
boolean isResumed();

/* ----- */
/**
 * @return true after a request has been redispached as the result of a
 * timeout. Returns false after any subsequent call to suspend.
 */
boolean isExpired();

/* ----- */
/**

```

```

* @return true while the request is within the initial dispatch to the
*   filter chain and/or servlet. Will return false once the calling
*   thread has returned to the container after suspend has been
*   called and during any subsequent redispach.
*/
boolean isInitial();

/* ----- */
/**
 * Is the suspended response wrapped.
 * <p>
 * Filters that wrap the response object should check this method to
 * determine if they should destroy/finish the wrapped response. If
 * the request was suspended with a call to { @link #suspend(ServletResponse) }
 * that passed the wrapped response, then the filter should register
 * a { @link ContinuationListener } to destroy/finish the wrapped response
 * during a call to { @link ContinuationListener#onComplete(Continuation) }.
 * @return True if { @link #suspend(ServletResponse) } has been passed a
 * { @link ServletResponseWrapper } instance.
 */
boolean isResponseWrapped();

/* ----- */
/**
 * Get the suspended response.
 * @return the { @link ServletResponse } passed to { @link #suspend(ServletResponse) }.
 */
ServletResponse getServletResponse();

/* ----- */
/**
 * Add a ContinuationListener.
 *
 * @param listener
 */
void addContinuationListener(ContinuationListener listener);

/* ----- */
/** Set a request attribute.
 * This method is a convenience method to call the { @link ServletRequest#setAttribute(String, Object) }
 * method on the associated request object.
 * This is a thread safe call and may be called by any thread.
 * @param name the attribute name
 * @param attribute the attribute value
 */
public void setAttribute(String name, Object attribute);

```

```

/* ----- */
/** Get a request attribute.
 * This method is a convenience method to call the {@link ServletRequest#getAttribute(String)}
 * method on the associated request object.
 * This is a thread safe call and may be called by any thread.
 * @param name the attribute name
 * @return the attribute value
 */
public Object getAttribute(String name);

/* ----- */
/** Remove a request attribute.
 * This method is a convenience method to call the {@link ServletRequest#removeAttribute(String)}
 * method on the associated request object.
 * This is a thread safe call and may be called by any thread.
 * @param name the attribute name
 */
public void removeAttribute(String name);

/* ----- */
/**
 * Undispatch the request.
 * <p>
 * This method can be called on a suspended continuation in order
 * to exit the dispatch to the filter/servlet by throwing a {@link ContinuationThrowable}
 * which is caught either by the container or the {@link ContinuationFilter}.
 * This is an alternative to simply returning from the dispatch in the case
 * where filters in the filter chain may not be prepared to handle a suspended
 * request.
 * </p>
 * This method should only be used as a last resort and a normal return is a preferable
 * solution if filters can be updated to handle that case.
 *
 * @throws ContinuationThrowable thrown if the request is suspended. The instance of the
 * exception may be reused on subsequent calls, so the stack frame may not be accurate.
 */
public void undispatch() throws ContinuationThrowable;
}

```

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# 1.484 jetty-http 8.1.3.v20120416

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# 1.485 jetty-io 8.1.3.v20120416

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//
```

```
package org.eclipse.jetty.io;
```

```
import java.io.IOException;  
import java.io.InputStream;  
import java.io.OutputStream;
```

```
import org.eclipse.jetty.util.TypeUtil;  
import org.eclipse.jetty.util.log.Log;  
import org.eclipse.jetty.util.log.Logger;
```

```
/**
```

```
*
```

```
*
```

```
*/
```

```
public abstract class AbstractBuffer implements Buffer
```

```
{
```

```
    private static final Logger LOG = Log.getLogger(AbstractBuffer.class);
```

```

private final static boolean __boundsChecking =
Boolean.getBoolean("org.eclipse.jetty.io.AbstractBuffer.boundsChecking");

protected final static String
__IMMUTABLE = "IMMUTABLE",
__READONLY = "READONLY",
__READWRITE = "READWRITE",
__VOLATILE = "VOLATILE";

protected int _access;
protected boolean _volatile;

protected int _get;
protected int _put;
protected int _hash;
protected int _hashGet;
protected int _hashPut;
protected int _mark;
protected String _string;
protected View _view;

/**
 * Constructor for BufferView
 *
 * @param access 0==IMMUTABLE, 1==READONLY, 2==READWRITE
 */
public AbstractBuffer(int access, boolean isVolatile)
{
    if (access == IMMUTABLE && isVolatile)
        throw new IllegalArgumentException("IMMUTABLE && VOLATILE");
    setMarkIndex(-1);
    _access = access;
    _volatile = isVolatile;
}

/**
 * @see org.eclipse.io.Buffer#toArray()
 */
public byte[] asArray()
{
    byte[] bytes = new byte[length()];
    byte[] array = array();
    if (array != null)
        System.arraycopy(array, getIndex(), bytes, 0, bytes.length);
    else
        peek(getIndex(), bytes, 0, length());
    return bytes;
}

```

```

}

public ByteBuffer duplicate(int access)
{
    Buffer b=this.buffer();
    if (this instanceof Buffer.CaseInsensitve || b instanceof Buffer.CaseInsensitve)
        return new ByteBuffer.CaseInsensitive(asArray(), 0, length(),access);
    else
        return new ByteBuffer(asArray(), 0, length(), access);
}

/*
 * @see org.eclipse.io.Buffer#asNonVolatile()
 */
public Buffer asNonVolatileBuffer()
{
    if (!isVolatile()) return this;
    return duplicate(_access);
}

public Buffer asImmutableBuffer()
{
    if (isImmutable()) return this;
    return duplicate(IMMUTABLE);
}

/*
 * @see org.eclipse.util.Buffer#asReadOnlyBuffer()
 */
public Buffer asReadOnlyBuffer()
{
    if (isReadOnly()) return this;
    return new View(this, markIndex(), getIndex(), putIndex(), READONLY);
}

public Buffer asMutableBuffer()
{
    if (!isImmutable()) return this;

    Buffer b=this.buffer();
    if (b.isReadOnly())
    {
        return duplicate(READWRITE);
    }
    return new View(b, markIndex(), getIndex(), putIndex(), _access);
}

public Buffer buffer()

```

```

    {
        return this;
    }

    public void clear()
    {
        setMarkIndex(-1);
        setGetIndex(0);
        setPutIndex(0);
    }

    public void compact()
    {
        if (isReadOnly()) throw new IllegalStateException(__READONLY);
        int s = markIndex() >= 0 ? markIndex() : getIndex();
        if (s > 0)
        {
            byte array[] = array();
            int length = putIndex() - s;
            if (length > 0)
            {
                if (array != null)
                    System.arraycopy(array(), s, array(), 0, length);
                else
                    poke(0, peek(s, length));
            }
            if (markIndex() > 0) setMarkIndex(markIndex() - s);
            setGetIndex(getIndex() - s);
            setPutIndex(putIndex() - s);
        }
    }

    @Override
    public boolean equals(Object obj)
    {
        if (obj==this)
            return true;

        // reject non buffers;
        if (obj == null || !(obj instanceof Buffer)) return false;
        Buffer b = (Buffer) obj;

        if (this instanceof Buffer.CaseInsensitive || b instanceof Buffer.CaseInsensitive)
            return equalsIgnoreCase(b);

        // reject different lengths
        if (b.length() != length()) return false;

```



```

// reject AbstractBuffer with different hash value
if (_hash != 0 && obj instanceof AbstractBuffer)
{
    AbstractBuffer ab = (AbstractBuffer) obj;
    if (ab._hash != 0 && _hash != ab._hash) return false;
}

// Nothing for it but to do the hard grind.
int get=getIndex();
int bi=b.putIndex();
for (int i = putIndex(); i-->get;)
{
    byte b1 = peek(i);
    byte b2 = b.peek(--bi);
    if (b1 != b2) return false;
}
return true;
}

public boolean equalsIgnoreCase(Buffer b)
{
    if (b==this)
        return true;

    // reject different lengths
    if (b.length() != length()) return false;

    // reject AbstractBuffer with different hash value
    if (_hash != 0 && b instanceof AbstractBuffer)
    {
        AbstractBuffer ab = (AbstractBuffer) b;
        if (ab._hash != 0 && _hash != ab._hash) return false;
    }

    // Nothing for it but to do the hard grind.
    int get=getIndex();
    int bi=b.putIndex();

    byte[] array = array();
    byte[] barray= b.array();
    if (array!=null && barray!=null)
    {
        for (int i = putIndex(); i-->get;)
        {
            byte b1 = array[i];
            byte b2 = barray[--bi];
            if (b1 != b2)
            {

```

```

        if ('a' <= b1 && b1 <= 'z') b1 = (byte) (b1 - 'a' + 'A');
        if ('a' <= b2 && b2 <= 'z') b2 = (byte) (b2 - 'a' + 'A');
        if (b1 != b2) return false;
    }
}
else
{
    for (int i = putIndex(); i-->get;)
    {
        byte b1 = peek(i);
        byte b2 = b.peek(--bi);
        if (b1 != b2)
        {
            if ('a' <= b1 && b1 <= 'z') b1 = (byte) (b1 - 'a' + 'A');
            if ('a' <= b2 && b2 <= 'z') b2 = (byte) (b2 - 'a' + 'A');
            if (b1 != b2) return false;
        }
    }
}
return true;
}

public byte get()
{
    return peek(_get++);
}

public int get(byte[] b, int offset, int length)
{
    int gi = getIndex();
    int l=length();
    if (l==0)
        return -1;

    if (length>l)
        length=l;

    length = peek(gi, b, offset, length);
    if (length>0)
        setGetIndex(gi + length);
    return length;
}

public Buffer get(int length)
{
    int gi = getIndex();
    Buffer view = peek(gi, length);

```

```

        setGetIndex(gi + length);
        return view;
    }

    public final int getIndex()
    {
        return _get;
    }

    public boolean hasContent()
    {
        return _put > _get;
    }

    @Override
    public int hashCode()
    {
        if (_hash == 0 || _hashGet!=_get || _hashPut!=_put)
        {
            int get=getIndex();
            byte[] array = array();
            if (array==null)
            {
                for (int i = putIndex(); i-- >get;)
                {
                    byte b = peek(i);
                    if ('a' <= b && b <= 'z')
                        b = (byte) (b - 'a' + 'A');
                    _hash = 31 * _hash + b;
                }
            }
            else
            {
                for (int i = putIndex(); i-- >get;)
                {
                    byte b = array[i];
                    if ('a' <= b && b <= 'z')
                        b = (byte) (b - 'a' + 'A');
                    _hash = 31 * _hash + b;
                }
            }
            if (_hash == 0)
                _hash = -1;
            _hashGet=_get;
            _hashPut=_put;
        }
        return _hash;
    }

```

```

}

public boolean isImmutable()
{
    return _access <= IMMUTABLE;
}

public boolean isReadOnly()
{
    return _access <= READONLY;
}

public boolean isVolatile()
{
    return _volatile;
}

public int length()
{
    return _put - _get;
}

public void mark()
{
    setMarkIndex(_get - 1);
}

public void mark(int offset)
{
    setMarkIndex(_get + offset);
}

public int markIndex()
{
    return _mark;
}

public byte peek()
{
    return peek(_get);
}

public Buffer peek(int index, int length)
{
    if (_view == null)
    {
        _view = new View(this, -1, index, index + length, isReadOnly() ? READONLY : READWRITE);
    }
}

```

```

else
{
    _view.update(this.buffer());
    _view.setMarkIndex(-1);
    _view.setGetIndex(0);
    _view.setPutIndex(index + length);
    _view.setGetIndex(index);

}
return _view;
}

public int poke(int index, Buffer src)
{
    _hash=0;
    /*
    if (isReadOnly())
        throw new IllegalStateException(__READONLY);
    if (index < 0)
        throw new IllegalArgumentException("index<0: " + index + "<0");
    */

    int length=src.length();
    if (index + length > capacity())
    {
        length=capacity()-index;
        /*
        if (length<0)
            throw new IllegalArgumentException("index>capacity(): " + index + ">" + capacity());
        */
    }

    byte[] src_array = src.array();
    byte[] dst_array = array();
    if (src_array != null && dst_array != null)
        System.arraycopy(src_array, src.getIndex(), dst_array, index, length);
    else if (src_array != null)
    {
        int s=src.getIndex();
        for (int i=0;i<length;i++)
            poke(index++,src_array[s++]);
    }
    else if (dst_array != null)
    {
        int s=src.getIndex();
        for (int i=0;i<length;i++)
            dst_array[index++]=src.peek(s++);
    }
}

```

```

else
{
    int s=src.getIndex();
    for (int i=0;i<length;i++)
        poke(index++,src.peek(s++));
}

return length;
}

public int poke(int index, byte[] b, int offset, int length)
{
    _hash=0;
    /*
    if (isReadOnly())
        throw new IllegalStateException(__READONLY);
    if (index < 0)
        throw new IllegalArgumentException("index<0: " + index + "<0");
    */
    if (index + length > capacity())
    {
        length=capacity()-index;
        /* if (length<0)
        throw new IllegalArgumentException("index>capacity(): " + index + ">" + capacity());
        */
    }

    byte[] dst_array = array();
    if (dst_array != null)
        System.arraycopy(b, offset, dst_array, index, length);
    else
    {
        int s=offset;
        for (int i=0;i<length;i++)
            poke(index++,b[s++]);
    }
    return length;
}

public int put(Buffer src)
{
    int pi = putIndex();
    int l=poke(pi, src);
    setPutIndex(pi + l);
    return l;
}

```

```

public void put(byte b)
{
    int pi = putIndex();
    poke(pi, b);
    setPutIndex(pi + 1);
}

public int put(byte[] b, int offset, int length)
{
    int pi = putIndex();
    int l = poke(pi, b, offset, length);
    setPutIndex(pi + 1);
    return l;
}

public int put(byte[] b)
{
    int pi = putIndex();
    int l = poke(pi, b, 0, b.length);
    setPutIndex(pi + 1);
    return l;
}

public final int putIndex()
{
    return _put;
}

public void reset()
{
    if (markIndex() >= 0) setGetIndex(markIndex());
}

public void rewind()
{
    setGetIndex(0);
    setMarkIndex(-1);
}

public void setGetIndex(int getIndex)
{
    /* bounds checking
    if (isImmutable())
        throw new IllegalStateException(__IMMUTABLE);
    if (getIndex < 0)
        throw new IllegalArgumentException("getIndex<0: " + getIndex + "<0");
    if (getIndex > putIndex())
        throw new IllegalArgumentException("getIndex>putIndex: " + getIndex + ">" + putIndex());

```

```

    */
    _get = getIndex;
    _hash=0;
}

public void setMarkIndex(int index)
{
    /*
    if (index>=0 && isImmutable())
        throw new IllegalStateException(__IMMUTABLE);
    */
    _mark = index;
}

public void setPutIndex(int putIndex)
{
    /* bounds checking
    if (isImmutable())
        throw new IllegalStateException(__IMMUTABLE);
    if (putIndex > capacity())
        throw new IllegalArgumentException("putIndex>capacity: " + putIndex + ">" + capacity());
    if (getIndex() > putIndex)
        throw new IllegalArgumentException("getIndex>putIndex: " + getIndex() + ">" + putIndex);
    */
    _put = putIndex;
    _hash=0;
}

public int skip(int n)
{
    if (length() < n) n = length();
    setGetIndex(getIndex() + n);
    return n;
}

public Buffer slice()
{
    return peek(getIndex(), length());
}

public Buffer sliceFromMark()
{
    return sliceFromMark(getIndex() - markIndex() - 1);
}

public Buffer sliceFromMark(int length)
{
    if (markIndex() < 0) return null;
}

```



```

    Buffer view = peek(markIndex(), length);
    setMarkIndex(-1);
    return view;
}

public int space()
{
    return capacity() - _put;
}

public String toDetailString()
{
    StringBuilder buf = new StringBuilder();
    buf.append("[");
    buf.append(super.hashCode());
    buf.append(",");
    buf.append(this.buffer().hashCode());
    buf.append(",m=");
    buf.append(markIndex());
    buf.append(",g=");
    buf.append(getIndex());
    buf.append(",p=");
    buf.append(putIndex());
    buf.append(",c=");
    buf.append(capacity());
    buf.append("]={");
    if (markIndex() >= 0)
    {
        for (int i = markIndex(); i < getIndex(); i++)
        {
            byte b = peek(i);
            TypeUtil.toHexString(b,buf);
        }
        buf.append("{}");
    }
    int count = 0;
    for (int i = getIndex(); i < putIndex(); i++)
    {
        byte b = peek(i);
        TypeUtil.toHexString(b,buf);
        if (count++ == 50)
        {
            if (putIndex() - i > 20)
            {
                buf.append(" ... ");
                i = putIndex() - 20;
            }
        }
    }
}

```

```

    }
    buf.append('');
    return buf.toString();
}

/* ----- */
@Override
public String toString()
{
    if (isImmutable())
    {
        if (_string == null)
            _string = new String(asArray(), 0, length());
        return _string;
    }
    return new String(asArray(), 0, length());
}

/* ----- */
public String toString(String charset)
{
    try
    {
        byte[] bytes=array();
        if (bytes!=null)
            return new String(bytes,getIndex(),length(),charset);
        return new String(asArray(), 0, length(),charset);
    }
    catch(Exception e)
    {
        LOG.warn(e);
        return new String(asArray(), 0, length());
    }
}

/* ----- */
public String toDebugString()
{
    return getClass()+"@"+super.hashCode();
}

/* ----- */
public void writeTo(OutputStream out)
throws IOException
{
    byte[] array = array();

```

```

if (array!=null)
{
    out.write(array,getIndex(),length());
}
else
{
    int len = this.length();
    byte[] buf=new byte[len>1024?1024:len];
    int offset=_get;
    while (len>0)
    {
        int l=peek(offset,buf,0,len>buf.length?buf.length:len);
        out.write(buf,0,l);
        offset+=l;
        len-=l;
    }
}
clear();
}

/* ----- */
public int readFrom(InputStream in,int max) throws IOException
{
    byte[] array = array();
    int s=space();
    if (s>max)
        s=max;

    if (array!=null)
    {
        int l=in.read(array,_put,s);
        if (l>0)
            _put+=l;
        return l;
    }
    else
    {
        byte[] buf=new byte[s>1024?1024:s];
        int total=0;
        while (s>0)
        {
            int l=in.read(buf,0,buf.length);
            if (l<0)
                return total>0?total:-1;
            int p=put(buf,0,l);
            assert l==p;
            s-=l;
        }
    }
}

```

```
        return total;
    }
}
}
```

# 1.486 jetty-security 8.1.3.v20120416

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19 May, 2009

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# 1.487 jetty-server 8.1.3.v20120416

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19 May, 2009

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## 1.488 jetty-servlet 8.1.3.v20120416

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```

```
package org.eclipse.jetty.servlet;  
  
import java.io.FileNotFoundException;  
import java.io.IOException;  
import java.io.InputStream;  
import java.io.OutputStream;  
import java.net.MalformedURLException;  
import java.net.URL;  
import java.util.ArrayList;  
import java.util.Enumeration;  
import java.util.List;
```

```

import java.util.Map;

import javax.servlet.RequestDispatcher;
import javax.servlet.ServletContext;
import javax.servlet.ServletException;
import javax.servlet.UnavailableException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

import org.eclipse.jetty.http.HttpContent;
import org.eclipse.jetty.http.HttpFields;
import org.eclipse.jetty.http.HttpHeaderValues;
import org.eclipse.jetty.http.HttpHeaders;
import org.eclipse.jetty.http.HttpMethods;
import org.eclipse.jetty.http.MimeTypes;
import org.eclipse.jetty.io.Buffer;
import org.eclipse.jetty.io.ByteArrayBuffer;
import org.eclipse.jetty.io.WriterOutputStream;
import org.eclipse.jetty.server.AbstractHttpConnection;
import org.eclipse.jetty.server.Connector;
import org.eclipse.jetty.server.Dispatcher;
import org.eclipse.jetty.server.HttpOutput;
import org.eclipse.jetty.server.InclusiveByteRange;
import org.eclipse.jetty.server.ResourceCache;
import org.eclipse.jetty.server.Response;
import org.eclipse.jetty.server.handler.ContextHandler;
import org.eclipse.jetty.server.nio.NIOConnector;
import org.eclipse.jetty.server.ssl.SslConnector;
import org.eclipse.jetty.util.IO;
import org.eclipse.jetty.util.MultiPartOutputStream;
import org.eclipse.jetty.util.URIUtil;
import org.eclipse.jetty.util.log.Log;
import org.eclipse.jetty.util.log.Logger;
import org.eclipse.jetty.util.resource.FileResource;
import org.eclipse.jetty.util.resource.Resource;
import org.eclipse.jetty.util.resource.ResourceCollection;
import org.eclipse.jetty.util.resource.ResourceFactory;

```

```

/* ----- */

```

```

/** The default servlet.

```

```

* This servlet, normally mapped to /, provides the handling for static

```

```

* content, OPTION and TRACE methods for the context.

```

```

* The following initParameters are supported, these can be set either

```

```

* on the servlet itself or as ServletContext initParameters with a prefix

```

```

* of org.eclipse.jetty.servlet.Default. :

```



```

* <PRE>
* acceptRanges    If true, range requests and responses are
*                 supported
*
* dirAllowed      If true, directory listings are returned if no
*                 welcome file is found. Else 403 Forbidden.
*
* welcomeServlets If true, attempt to dispatch to welcome files
*                 that are servlets, but only after no matching static
*                 resources could be found. If false, then a welcome
*                 file must exist on disk. If "exact", then exact
*                 servlet matches are supported without an existing file.
*                 Default is true.
*
*                 This must be false if you want directory listings,
*                 but have index.jsp in your welcome file list.
*
* redirectWelcome If true, welcome files are redirected rather than
*                 forwarded to.
*
* gzip            If set to true, then static content will be served as
*                 gzip content encoded if a matching resource is
*                 found ending with ".gz"
*
* resourceBase    Set to replace the context resource base
*
* resourceCache   If set, this is a context attribute name, which the servlet
*                 will use to look for a shared ResourceCache instance.
*
* relativeResourceBase
*                 Set with a pathname relative to the base of the
*                 servlet context root. Useful for only serving static content out
*                 of only specific subdirectories.
*
* pathInfoOnly    If true, only the path info will be applied to the resourceBase
*
* stylesheet      Set with the location of an optional stylesheet that will be used
*                 to decorate the directory listing html.
*
* aliases         If True, aliases of resources are allowed (eg. symbolic
*                 links and caps variations). May bypass security constraints.
*
* maxCacheSize    The maximum total size of the cache or 0 for no cache.
* maxCachedFileSize The maximum size of a file to cache
* maxCachedFiles  The maximum number of files to cache
*
* useFileMappedBuffer
*                 If set to true, it will use mapped file buffer to serve static content

```

```

*         when using NIO connector. Setting this value to false means that
*         a direct buffer will be used instead of a mapped file buffer.
*         By default, this is set to true.
*
* cacheControl    If set, all static content will have this value set as the cache-control
*                 header.
*
*
* </PRE>
*
*/

```

```

public class DefaultServlet extends HttpServlet implements ResourceFactory

```

```

{
    private static final Logger LOG = Log.getLogger(DefaultServlet.class);

    private static final long serialVersionUID = 4930458713846881193L;
    private ServletContext _servletContext;
    private ContextHandler _contextHandler;

    private boolean _acceptRanges=true;
    private boolean _dirAllowed=true;
    private boolean _welcomeServlets=false;
    private boolean _welcomeExactServlets=false;
    private boolean _redirectWelcome=false;
    private boolean _gzip=true;
    private boolean _pathInfoOnly=false;

    private Resource _resourceBase;
    private ResourceCache _cache;

    private MimeTypes _mimeTypes;
    private String[] _welcomes;
    private Resource _stylesheet;
    private boolean _useFileMappedBuffer=false;
    private ByteBuffer _cacheControl;
    private String _relativeResourceBase;
    private ServletHandler _servletHandler;
    private ServletHolder _defaultHolder;

    /* ----- */
    @Override
    public void init()
    throws UnavailableException
    {

```

```

_servletContext=getServletContext();
_contextHandler = initContextHandler(_servletContext);

_mimeTypes = _contextHandler.getMimeTypes();

_welcomes = _contextHandler.getWelcomeFiles();
if (_welcomes==null)
    _welcomes=new String[] {"index.html","index.jsp"};

_acceptRanges=getInitBoolean("acceptRanges",_acceptRanges);
_dirAllowed=getInitBoolean("dirAllowed",_dirAllowed);
_redirectWelcome=getInitBoolean("redirectWelcome",_redirectWelcome);
_gzip=getInitBoolean("gzip",_gzip);
_pathInfoOnly=getInitBoolean("pathInfoOnly",_pathInfoOnly);

if ("exact".equals(getInitParameter("welcomeServlets")))
{
    _welcomeExactServlets=true;
    _welcomeServlets=false;
}
else
    _welcomeServlets=getInitBoolean("welcomeServlets", _welcomeServlets);

if (getInitParameter("aliases")!=null)
    _contextHandler.setAliases(getInitBoolean("aliases",false));

boolean aliases=_contextHandler.isAliases();
if (!aliases && !FileResource.getCheckAliases())
    throw new IllegalStateException("Alias checking disabled");
if (aliases)
    _servletContext.log("Aliases are enabled");

_useFileMappedBuffer=getInitBoolean("useFileMappedBuffer",_useFileMappedBuffer);

_relativeResourceBase = getInitParameter("relativeResourceBase");

String rb=getInitParameter("resourceBase");
if (rb!=null)
{
    if (_relativeResourceBase!=null)
        throw new UnavailableException("resourceBase & relativeResourceBase");
    try{_resourceBase=_contextHandler.newResource(rb);}
    catch (Exception e)
    {
        LOG.warn(Log.EXCEPTION,e);
        throw new UnavailableException(e.toString());
    }
}
}

```

```

String css=getInitParameter("stylesheet");
try
{
    if(css!=null)
    {
        _stylesheet = Resource.newResource(css);
        if(!_stylesheet.exists())
        {
            LOG.warn("!" + css);
            _stylesheet = null;
        }
    }
    if(_stylesheet == null)
    {
        _stylesheet = Resource.newResource(this.getClass().getResource("/jetty-dir.css"));
    }
}
catch(Exception e)
{
    LOG.warn(e.toString());
    LOG.debug(e);
}

String t=getInitParameter("cacheControl");
if (t!=null)
    _cacheControl=new ByteBuffer(t);

String resourceCache = getInitParameter("resourceCache");
int max_cache_size=getInitInt("maxCacheSize", -2);
int max_cached_file_size=getInitInt("maxCachedFileSize", -2);
int max_cached_files=getInitInt("maxCachedFiles", -2);
if (resourceCache!=null)
{
    if (max_cache_size!=-1 || max_cached_file_size!= -2 || max_cached_files!=-2)
        LOG.debug("ignoring resource cache configuration, using resourceCache attribute");
    if (_relativeResourceBase!=null || _resourceBase!=null)
        throw new UnavailableException("resourceCache specified with resource bases");
    _cache=(ResourceCache)_servletContext.getAttribute(resourceCache);

    LOG.debug("Cache {}={}",resourceCache,_cache);
}

try
{
    if (_cache==null && max_cached_files>0)
    {
        _cache= new ResourceCache(null,this,_mimeTypes,_useFileMappedBuffer);
    }
}

```

```

        if (max_cache_size>0)
            _cache.setMaxCacheSize(max_cache_size);
        if (max_cached_file_size>=-1)
            _cache.setMaxCachedFileSize(max_cached_file_size);
        if (max_cached_files>=-1)
            _cache.setMaxCachedFiles(max_cached_files);
    }
}
catch (Exception e)
{
    LOG.warn(Log.EXCEPTION,e);
    throw new UnavailableException(e.toString());
}

_servletHandler= (ServletHandler) _contextHandler.getChildHandlerByClass(ServletHandler.class);
for (ServletHolder h : _servletHandler.getServlets())
    if (h.getServletInstance()==this)
        _defaultHolder=h;

if (LOG.isDebugEnabled())
    LOG.debug("resource base = "+_resourceBase);
}

/**
 * Compute the field _contextHandler.<br/>
 * In the case where the DefaultServlet is deployed on the HttpService it is likely that
 * this method needs to be overwritten to unwrap the ServletContext facade until we reach
 * the original jetty's ContextHandler.
 * @param servletContext The servletContext of this servlet.
 * @return the jetty's ContextHandler for this servletContext.
 */
protected ContextHandler initContextHandler(ServletContext servletContext)
{
    ContextHandler.Context scontext=ContextHandler.getCurrentContext();
    if (scontext==null)
    {
        if (servletContext instanceof ContextHandler.Context)
            return ((ContextHandler.Context)servletContext).getContextHandler();
        else
            throw new IllegalArgumentException("The servletContext " + servletContext + " " +
                servletContext.getClass().getName() + " is not " + ContextHandler.Context.class.getName());
    }
    else
        return ContextHandler.getCurrentContext().getContextHandler();
}

/* ----- */

```

```

@Override
public String getInitParameter(String name)
{
    String value=getServletContext().getInitParameter("org.eclipse.jetty.servlet.Default."+name);
    if (value==null)
        value=super.getInitParameter(name);
    return value;
}

/* ----- */
private boolean getInitBoolean(String name, boolean dft)
{
    String value=getInitParameter(name);
    if (value==null || value.length()==0)
        return dft;
    return (value.startsWith("t")||
            value.startsWith("T")||
            value.startsWith("y")||
            value.startsWith("Y")||
            value.startsWith("1"));
}

/* ----- */
private int getInitInt(String name, int dft)
{
    String value=getInitParameter(name);
    if (value==null)
        value=getInitParameter(name);
    if (value!=null && value.length(>0))
        return Integer.parseInt(value);
    return dft;
}

/* ----- */
/** get Resource to serve.
 * Map a path to a resource. The default implementation calls
 * HttpContext.getResource but derived servlets may provide
 * their own mapping.
 * @param pathInContext The path to find a resource for.
 * @return The resource to serve.
 */
public Resource getResource(String pathInContext)
{
    Resource r=null;
    if (_relativeResourceBase!=null)
        pathInContext=URIUtil.addPaths(_relativeResourceBase,pathInContext);

    try

```

```

    {
        if (_resourceBase!=null)
        {
            r = _resourceBase.addPath(pathInContext);
        }
        else
        {
            URL u = _servletContext.getResource(pathInContext);
            r = _contextHandler.newResource(u);
        }

        if (LOG.isDebugEnabled())
            LOG.debug("Resource "+pathInContext+"="+r);
    }
    catch (IOException e)
    {
        LOG.ignore(e);
    }

    if((r==null || !r.exists()) && pathInContext.endsWith("/jetty-dir.css"))
        r=_stylesheet;

    return r;
}

/* ----- */
@Override
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
{
    String servletPath=null;
    String pathInfo=null;
    Enumeration<String> reqRanges = null;
    Boolean included =request.getAttribute(Dispatcher.INCLUDE_REQUEST_URI)!=null;
    if (included!=null && included.booleanValue())
    {
        servletPath=(String)request.getAttribute(Dispatcher.INCLUDE_SERVLET_PATH);
        pathInfo=(String)request.getAttribute(Dispatcher.INCLUDE_PATH_INFO);
        if (servletPath==null)
        {
            servletPath=request.getServletPath();
            pathInfo=request.getPathInfo();
        }
    }
    else
    {
        included = Boolean.FALSE;
        servletPath = _pathInfoOnly?"":request.getServletPath();
    }
}

```

```

pathInfo = request.getPathInfo();

// Is this a Range request?
reqRanges = request.getHeaders(Headers.RANGE);
if (!hasDefinedRange(reqRanges))
    reqRanges = null;
}

String pathInContext=URIUtil.addPaths(servletPath,pathInfo);
boolean endsWithSlash=(pathInfo==null?request.getServletPath():pathInfo).endsWith(URIUtil.SLASH);

// Can we gzip this request?
String pathInContextGz=null;
boolean gzip=false;
if (!included.booleanValue() && _gzip && reqRanges==null && !endsWithSlash )
{
    // Tell caches that response may vary by accept-encoding
    response.setHeader(Headers.VARY,Headers.ACCEPT_ENCODING);
    // Should we vary this response according to accept-encoding?
    String accept=request.getHeader(Headers.ACCEPT_ENCODING);
    if (accept!=null && accept.indexOf("gzip")>=0)
        gzip=true;
}

// Find the resource and content
Resource resource=null;
HttpContent content=null;

try
{
    // Try gzipped content first
    if (gzip)
    {
        pathInContextGz=pathInContext+".gz";

        if (_cache==null)
        {
            resource=getResource(pathInContextGz);
        }
        else
        {
            content=_cache.lookup(pathInContextGz);
            resource=(content==null)?null:content.getResource();
        }

        if (resource==null || !resource.exists() || resource.isDirectory())
        {
            gzip=false;

```



```

        pathInContextGz=null;
    }
}

// find resource
if (!gzip)
{
    if (_cache==null)
        resource=getResource(pathInContext);
    else
    {
        content=_cache.lookup(pathInContext);
        resource=content==null?null:content.getResource();
    }
}

if (LOG.isDebugEnabled())
    LOG.debug("uri="+request.getRequestURI()+" resource="+resource+(content!=null?" content":""));

// Handle resource
if (resource==null || !resource.exists())
{
    if (included)
        throw new FileNotFoundException("!" + pathInContext);
    response.sendError(HttpServletResponse.SC_NOT_FOUND);
}
else if (!resource.isDirectory())
{
    if (endsWithSlash && _contextHandler.isAliases() && pathInContext.length()>1)
    {
        String q=request.getQueryString();
        pathInContext=pathInContext.substring(0,pathInContext.length()-1);
        if (q!=null&&q.length()!>0)
            pathInContext+="?" +q;
        response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(_servletContext.getContextPath(),pathInContext)));
    }
    else
    {
        // ensure we have content
        if (content==null)
            content=new
HttpContent.ResourceAsHttpContent(resource,_mimeTypes.getMimeTypeByExtension(resource.toString()),response.get
BufferSize());

        if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))
        {
            if (gzip)

```

```

        {
            response.setHeader(HttpHeaders.CONTENT_ENCODING,"gzip");
            String mt=_servletContext.getMimeType(pathInContext);
            if (mt!=null)
                response.setContentType(mt);
        }
        sendData(request,response,included.booleanValue(),resource,content,reqRanges);
    }
}
else
{
    String welcome=null;

    if (!endsWithSlash || (pathInContext.length()==1 &&
request.getAttribute("org.eclipse.jetty.server.nullPathInfo")!=null))
    {
        StringBuffer buf=request.getRequestURL();
        synchronized(buf)
        {
            int param=buf.lastIndexOf(";");
            if (param<0)
                buf.append('/');
            else
                buf.insert(param, '/');
            String q=request.getQueryString();
            if (q!=null&&q.length()!=0)
            {
                buf.append("?");
                buf.append(q);
            }
            response.setContentLength(0);
            response.sendRedirect(response.encodeRedirectURL(buf.toString()));
        }
    }
    // else look for a welcome file
    else if (null!=(welcome=getWelcomeFile(pathInContext)))
    {
        LOG.debug("welcome={ }",welcome);
        if (_redirectWelcome)
        {
            // Redirect to the index
            response.setContentLength(0);
            String q=request.getQueryString();
            if (q!=null&&q.length()!=0)
                response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(
_servletContext.getContextPath(),welcome)+"?" +q));
            else

```

```

        response.sendRedirect(response.encodeRedirectURL(URIUtil.addPaths(
_servletContext.getContextPath(),welcome)));
    }
    else
    {
        // Forward to the index
        RequestDispatcher dispatcher=request.getRequestDispatcher(welcome);
        if (dispatcher!=null)
        {
            if (included.booleanValue())
                dispatcher.include(request,response);
            else
            {
                request.setAttribute("org.eclipse.jetty.server.welcome",welcome);
                dispatcher.forward(request,response);
            }
        }
    }
}
else
{
    content=new
HttpContent.ResourceAsHttpContent(resource,_mimeTypes.getMimeByExtension(resource.toString()));
    if (included.booleanValue() || passConditionalHeaders(request,response, resource,content))
        sendDirectory(request,response,resource,pathInContext);
}
}
}
catch(IllegalArgumentException e)
{
    LOG.warn(Log.EXCEPTION,e);
    if(!response.isCommitted())
        response.sendError(500, e.getMessage());
}
finally
{
    if (content!=null)
        content.release();
    else if (resource!=null)
        resource.release();
}
}

/* ----- */
private boolean hasDefinedRange(Enumeration<String> reqRanges)
{
    return (reqRanges!=null && reqRanges.hasMoreElements());
}

```

```

}

/* ----- */
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException
{
    doGet(request,response);
}

/* ----- */
/* (non-Javadoc)
 * @see javax.servlet.http.HttpServlet#doTrace(javax.servlet.http.HttpServletRequest,
javax.servlet.http.HttpServletResponse)
 */
@Override
protected void doTrace(HttpServletRequest req, HttpServletResponse resp) throws ServletException, IOException
{
    resp.sendError(HttpServletResponse.SC_METHOD_NOT_ALLOWED);
}

/* ----- */
@Override
protected void doOptions(HttpServletRequest req, HttpServletResponse resp)
throws ServletException, IOException
{
    resp.setHeader("Allow", "GET,HEAD,POST,OPTIONS");
}

/* ----- */
/**
 * Finds a matching welcome file for the supplied {@link Resource}. This will be the first entry in the list of
 * configured {@link #_welcomes welcome files} that existing within the directory referenced by the
 <code>Resource</code>.
 * If the resource is not a directory, or no matching file is found, then it may look for a valid servlet mapping.
 * If there is none, then <code>null</code> is returned.
 * The list of welcome files is read from the {@link ContextHandler} for this servlet, or
 * <code>"index.jsp" , "index.html"</code> if that is <code>null</code>.
 * @param resource
 * @return The path of the matching welcome file in context or null.
 * @throws IOException
 * @throws MalformedURLException
 */
private String getWelcomeFile(String pathInContext) throws MalformedURLException, IOException
{
    if (_welcomes==null)
        return null;

```

```

String welcome_servlet=null;
for (int i=0;i<_welcomes.length;i++)
{
    String welcome_in_context=URIUtil.addPaths(pathInContext,_welcomes[i]);
    Resource welcome=getResource(welcome_in_context);
    if (welcome!=null && welcome.exists())
        return _welcomes[i];

    if ((_welcomeServlets || _welcomeExactServlets) && welcome_servlet==null)
    {
        Map.Entry entry=_servletHandler.getHolderEntry(welcome_in_context);
        if (entry!=null && entry.getValue()!=_defaultHolder &&
            (_welcomeServlets || (_welcomeExactServlets && entry.getKey().equals(welcome_in_context))))
            welcome_servlet=welcome_in_context;
    }
}
return welcome_servlet;
}

/* ----- */
/* Check modification date headers.
*/

protected boolean passConditionalHeaders(HttpServletRequest request,HttpServletResponse response, Resource
resource, HttpContent content)
throws IOException
{
    try
    {
        if (!request.getMethod().equals(HttpMethods.HEAD) )
        {
            String ifms=request.getHeader(HttpHeaders.IF_MODIFIED_SINCE);
            if (ifms!=null)
            {
                //Get jetty's Response impl
                Response r = Response.getResponse(response);

                if (content!=null)
                {
                    Buffer mdlm=content.getLastModified();
                    if (mdlm!=null)
                    {
                        if (ifms.equals(mdlm.toString()))
                        {
                            r.reset(true);
                            r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
                            r.flushBuffer();
                            return false;
                        }
                    }
                }
            }
        }
    }
}

```

```

        }
    }
}

long ifmsl=request.getDateHeader(HttpHeaders.IF_MODIFIED_SINCE);
if (ifmsl!=-1)
{
    if (resource.lastModified()/1000 <= ifmsl/1000)
    {
        r.reset(true);
        r.setStatus(HttpServletResponse.SC_NOT_MODIFIED);
        r.flushBuffer();
        return false;
    }
}

// Parse the if[un]modified dates and compare to resource
long date=request.getDateHeader(HttpHeaders.IF_UNMODIFIED_SINCE);

if (date!=-1)
{
    if (resource.lastModified()/1000 > date/1000)
    {
        response.sendError(HttpServletResponse.SC_PRECONDITION_FAILED);
        return false;
    }
}

}
}
catch(IllegalArgumentException iae)
{
    if(!response.isCommitted())
        response.sendError(400, iae.getMessage());
    throw iae;
}
return true;
}

/* ----- */
protected void sendDirectory(HttpServletRequest request,
    HttpServletResponse response,
    Resource resource,
    String pathInContext)
throws IOException
{

```

```

if (!_dirAllowed)
{
    response.sendError(HttpServletResponse.SC_FORBIDDEN);
    return;
}

byte[] data=null;
String base = URIUtil.addPaths(request.getRequestURI(),URIUtil.SLASH);

//If the DefaultServlet has a resource base set, use it
if (_resourceBase != null)
{
    // handle ResourceCollection
    if (_resourceBase instanceof ResourceCollection)
        resource=_resourceBase.addPath(pathInContext);
}
//Otherwise, try using the resource base of its enclosing context handler
else if (_contextHandler.getBaseResource() instanceof ResourceCollection)
    resource=_contextHandler.getBaseResource().addPath(pathInContext);

String dir = resource.getListHTML(base,pathInContext.length(>1);
if (dir==null)
{
    response.sendError(HttpServletResponse.SC_FORBIDDEN,
        "No directory");
    return;
}

data=dir.getBytes("UTF-8");
response.setContentType("text/html; charset=UTF-8");
response.setContentLength(data.length);
response.getOutputStream().write(data);
}

/* ----- */
protected void sendData(HttpServletRequest request,
    HttpServletResponse response,
    boolean include,
    Resource resource,
    HttpContent content,
    Enumeration reqRanges)
throws IOException
{
    boolean direct;
    long content_length;
    if (content==null)
    {
        direct=false;

```

```

        content_length=resource.length();
    }
    else
    {
        Connector connector = AbstractHttpConnection.getCurrentConnection().getConnector();
        direct=connector instanceof NIOConnector && ((NIOConnector)connector).getUseDirectBuffers() &&
!(connector instanceof SslConnector);
        content_length=content.getContentLength();
    }

    // Get the output stream (or writer)
    OutputStream out =null;
    boolean written;
    try
    {
        out = response.getOutputStream();

        // has a filter already written to the response?
        written = out instanceof HttpOutput
            ? ((HttpOutput)out).isWritten()
            : AbstractHttpConnection.getCurrentConnection().getGenerator().isWritten();
    }
    catch(IllegalStateException e)
    {
        out = new WriterOutputStream(response.getWriter());
        written=true; // there may be data in writer buffer, so assume written
    }

    if ( reqRanges == null || !reqRanges.hasMoreElements() || content_length<0)
    {
        // if there were no ranges, send entire entity
        if (include)
        {
            resource.writeTo(out,0,content_length);
        }
        else
        {
            // See if a direct methods can be used?
            if (content!=null && !written && out instanceof HttpOutput)
            {
                if (response instanceof Response)
                {
                    writeOptionHeaders(((Response)response).getHttpFields());
                    ((AbstractHttpConnection.Output)out).sendContent(content);
                }
                else
                {

```



```

    Buffer buffer = direct?content.getDirectBuffer():content.getIndirectBuffer();
    if (buffer!=null)
    {
        writeHeaders(response,content,content_length);
        ((AbstractHttpConnection.Output)out).sendContent(buffer);
    }
    else
    {
        writeHeaders(response,content,content_length);
        resource.writeTo(out,0,content_length);
    }
}
}
else
{
    // Write headers normally
    writeHeaders(response,content,written?-1:content_length);

    // Write content normally
    Buffer buffer = (content==null)?null:content.getIndirectBuffer();
    if (buffer!=null)
        buffer.writeTo(out);
    else
        resource.writeTo(out,0,content_length);
}
}
}
else
{
    // Parse the satisfiable ranges
    List ranges =InclusiveByteRange.satisfiableRanges(reqRanges,content_length);

    // if there are no satisfiable ranges, send 416 response
    if (ranges==null || ranges.size()==0)
    {
        writeHeaders(response, content, content_length);
        response.setStatus(HttpServletResponse.SC_REQUESTED_RANGE_NOT_SATISFIABLE);
        response.setHeader(HttpHeaders.CONTENT_RANGE,
            InclusiveByteRange.to416HeaderRangeString(content_length));
        resource.writeTo(out,0,content_length);
        return;
    }

    // if there is only a single valid range (must be satisfiable
    // since were here now), send that range with a 216 response
    if ( ranges.size()== 1)
    {
        InclusiveByteRange singleSatisfiableRange =

```

```

        (InclusiveByteRange)ranges.get(0);
        long singleLength = singleSatisfiableRange.getSize(content_length);
        writeHeaders(response,content,singleLength
                    );
        response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);
        response.setHeader(HttpHeaders.CONTENT_RANGE,
                singleSatisfiableRange.toHeaderRangeString(content_length));
        resource.writeTo(out,singleSatisfiableRange.getFirst(content_length),singleLength);
        return;
    }

    // multiple non-overlapping valid ranges cause a multipart
    // 216 response which does not require an overall
    // content-length header
    //
    writeHeaders(response,content,-1);
    String mimetype=content.getContentType().toString();
    MultiPartOutputStream multi = new MultiPartOutputStream(out);
    response.setStatus(HttpServletResponse.SC_PARTIAL_CONTENT);

    // If the request has a "Request-Range" header then we need to
    // send an old style multipart/x-byteranges Content-Type. This
    // keeps Netscape and acrobat happy. This is what Apache does.
    String ctp;
    if (request.getHeader(HttpHeaders.REQUEST_RANGE)!=null)
        ctp = "multipart/x-byteranges; boundary=";
    else
        ctp = "multipart/byteranges; boundary=";
    response.setContentType(ctp+multi.getBoundary());

    InputStream in=resource.getInputStream();
    long pos=0;

    // calculate the content-length
    int length=0;
    String[] header = new String[ranges.size()];
    for (int i=0;i<ranges.size();i++)
    {
        InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
        header[i]=ibr.toHeaderRangeString(content_length);
        length+=
            ((i>0)?2:0)+
            2+multi.getBoundary().length()+2+
            HttpHeaders.CONTENT_TYPE.length()+2+mimetype.length()+2+
            HttpHeaders.CONTENT_RANGE.length()+2+header[i].length()+2+
            2+
            (ibr.getLast(content_length)-ibr.getFirst(content_length))+1;
    }
    length+=2+2+multi.getBoundary().length()+2+2;

```

```

response.setContentLength(length);

for (int i=0;i<ranges.size();i++)
{
    InclusiveByteRange ibr = (InclusiveByteRange) ranges.get(i);
    multi.startPart(mimetype,new String[]{HttpHeaders.CONTENT_RANGE+" "+header[i]});

    long start=ibr.getFirst(content_length);
    long size=ibr.getSize(content_length);
    if (in!=null)
    {
        // Handle non cached resource
        if (start<pos)
        {
            in.close();
            in=resource.getInputStream();
            pos=0;
        }
        if (pos<start)
        {
            in.skip(start-pos);
            pos=start;
        }
        IO.copy(in,multi,size);
        pos+=size;
    }
    else
        // Handle cached resource
        (resource).writeTo(multi,start,size);

}
if (in!=null)
    in.close();
multi.close();
}
return;
}

/* ----- */
protected void writeHeaders(HttpServletResponse response,HttpContent content,long count)
throws IOException
{
    if (content.getContentType()!=null && response.getContentType()==null)
        response.setContentType(content.getContentType().toString());

    if (response instanceof Response)
    {
        Response r=(Response)response;

```

```

HttpFields fields = r.getHttpFields();

if (content.getLastModified()!=null)
    fields.put(HttpHeaders.LAST_MODIFIED_BUFFER,content.getLastModified());
else if (content.getResource()!=null)
{
    long lml=content.getResource().lastModified();
    if (lml!=-1)
        fields.putDateField(HttpHeaders.LAST_MODIFIED_BUFFER,lml);
}

if (count != -1)
    r.setLongContentLength(count);

writeOptionHeaders(fields);
}
else
{
    long lml=content.getResource().lastModified();
    if (lml>=0)
        response.setDateHeader(HttpHeaders.LAST_MODIFIED,lml);

if (count != -1)
{
    if (count<Integer.MAX_VALUE)
        response.setContentLength((int)count);
    else
        response.setHeader(HttpHeaders.CONTENT_LENGTH,Long.toString(count));
}

writeOptionHeaders(response);
}
}

/* ----- */
protected void writeOptionHeaders(HttpFields fields) throws IOException
{
    if (_acceptRanges)
        fields.put(HttpHeaders.ACCEPT_RANGES_BUFFER,HttpHeaderValues.BYTES_BUFFER);

    if (_cacheControl!=null)
        fields.put(HttpHeaders.CACHE_CONTROL_BUFFER,_cacheControl);
}

/* ----- */
protected void writeOptionHeaders(HttpServletResponse response) throws IOException
{
    if (_acceptRanges)

```

```

        response.setHeader(HttpHeaders.ACCEPT_RANGES,"bytes");

        if (_cacheControl!=null)
            response.setHeader(HttpHeaders.CACHE_CONTROL,_cacheControl.toString());
    }

    /* ----- */
    /*
     * @see javax.servlet.Servlet#destroy()
     */
    @Override
    public void destroy()
    {
        if (_cache!=null)
            _cache.flushCache();
        super.destroy();
    }
}

```

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\* Git HEAD hash: f09aae0e035d6805e461a7be246d04a0dbc98f69 <> Date: Thu Dec 19 2013 17:34:22 UTC

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## 1.517 json-path-ptr 1.0.0

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## 1.519 json-smart 2.2.1

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## 1.520 jsoup 1.6.1

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## 1.531 JTidy 04aug2000r7-dev

## 1.532 JUL to SLF4J bridge 1.7.12

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\*\*\*\*\*/

# 1.541 jzlib 1.0.7

## 1.541.1 Available under license :

```
/* -*-mode:java; c-basic-offset:2; -*- */
```

```
/*
```

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```
*/
```

```
/*
```

```
* This program is based on zlib-1.1.3, so all credit should go authors
```

```
* Jean-loup Gailly(jloup@gzip.org) and Mark Adler(madler@alumni.caltech.edu)
```

```
* and contributors of zlib.
```

```
*/
```

```
package com.jcraft.jzlib;
```

```
final class Adler32{
```

```
    // largest prime smaller than 65536
```

```
    static final private int BASE=65521;
```

```
    // NMAX is the largest n such that 255n(n+1)/2 + (n+1)(BASE-1) <= 2^32-1
```

```
    static final private int NMAX=5552;
```

```
    long adler32(long adler, byte[] buf, int index, int len){
```

```

if(buf == null){ return 1L; }

long s1=adler&0xffff;
long s2=(adler>>16)&0xffff;
int k;

while(len > 0) {
    k=len<NMAX?len:NMAX;
    len-=k;
    while(k>=16){
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        s1+=buf[index++]&0xff; s2+=s1;
        k-=16;
    }
    if(k!=0){
        do{
            s1+=buf[index++]&0xff; s2+=s1;
        }
        while(--k!=0);
    }
    s1%=BASE;
    s2%=BASE;
}
return (s2<<16)|s1;
}

/*
private java.util.zip.Adler32 adler=new java.util.zip.Adler32();
long Adler32(long value, byte[] buf, int index, int len){
    if(value==1) { adler.reset();}
    if(buf==null) { adler.reset();}
    else{ adler.update(buf, index, len);}
    return adler.getValue();
}

```

```
*/  
}
```

# 1.542 kerberos 0.0.17

## 1.542.1 Available under license :

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in 'src/lib/gssapi', including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c

lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c  
lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr\_hdr.h  
kadmin/server/ipropr\_svc.c  
lib/kdb/ipropr.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
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- lib/gssapi/mechglue/g\_accept\_sec\_context.c
- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c
- lib/gssapi/mechglue/g\_imp\_name.c
- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c
- lib/gssapi/mechglue/g\_rel\_buffer.c
- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
- lib/gssapi/mechglue/g\_rel\_oid\_set.c
- lib/gssapi/mechglue/g\_seal.c
- lib/gssapi/mechglue/g\_sign.c
- lib/gssapi/mechglue/g\_store\_cred.c
- lib/gssapi/mechglue/g\_unseal.c
- lib/gssapi/mechglue/g\_userok.c
- lib/gssapi/mechglue/g\_utils.c
- lib/gssapi/mechglue/g\_verify.c
- lib/gssapi/mechglue/gssd\_pname\_to\_uid.c
- lib/gssapi/mechglue/mglueP.h
- lib/gssapi/mechglue/oid\_ops.c
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
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(at your option) any later version.
```

```
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```

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Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
```

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate

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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

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## 1.546 kmod 22.0 :r0

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## 1.548 krb5-libs 1.14.3 :r0

### 1.548.1 Available under license :

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cmd/krb5/ipropl/ipropl.x
cmd/krb5/ipropl/ipropl_hdr.h
cmd/krb5/kadmin/server/ipropl_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
```

lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
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lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
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lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

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- lib/gssapi/mechglue/g\_accept\_sec\_context.c
- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c

lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
slave/kpropd\_rpc.c  
slave/kproplog.c

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NSS_TREE = ../security
MOD_DEPTH = ../nsprpub
CORECONFDIR = ../coreconf
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DEPTH = ..
CONFIGDIR = c-sdk/config
MOD_DEPTH = c-sdk

include $(CONFIGDIR)/config.mk
include c-sdk/build.mk

ifeq ($(COMPONENT_PULL_METHOD), FTP)
  COMP_PULL_ARG="USE_FTP=YES"
endif

all: FORCE
@echo
@echo The following are build targets that you can choose from:
@echo
@echo "  gmake buildLdapClientSDK"
@echo "  gmake clean"
@echo
@echo Allowed options:
@echo
@echo "  BUILD_OPT=1 for optimized build"
@echo "  USE_PTHREADS=1 for using pthreads"
@echo "  USE_64=1 for building 64 bit versions"
@echo "  BUILD_CLU=1 build command line utilities"
@echo "  COMPS_FROM_OBJDIR=1 use components from ../dist/$(OBJDIR_NAME)"
@echo "  SOLARIS_USE_FORTE6=1 use Sun Workshop 6/Forte compiler on SunOS 5.6"

@echo "  VENDOR_NAME=string SDK vendor name (default $(DEFAULT_VENDOR_NAME))"
@echo "  VENDOR_VERSION=# vendor specific version number * 100 (default
$(DEFAULT_VENDOR_VERSION))"
@echo "  HAVE_SVRCORE=1 for building with svrcore"
@echo
@echo Internal options
@echo
@echo "  gmake buildAndPkgLdapSDK"
@echo "  gmake PullSDKComponents"
@echo "  gmake pkgLdapSDK"
@echo
@echo "  HAVE_LIBNLS=1 for building/linking with LIBNLS"
@echo "  HAVE_CCONF=1 for building with components"
@echo "  DONT_REPULL=1 for not repulling components"

```

```

@echo " PKG_PRIVATE_HDRS=0 do not ship private headers"
@echo " PKG_PRIVATE_LIBS=0 do not ship private libraries"
@echo " PKG_DEP_LIBS=0 do not ship dependent libraries"
ifneq ($(OS_ARCH), WINNT)
@echo " COMPONENT_PULL_METHOD=FTP  pull components using FTP"
endif

@echo
@echo " For internal builds, coreconf must be installed"
@echo " in $(CORECONFDIR)"

buildLdapClientSDK export: PullSDKComponents
@echo
@echo ===== Starting LDAP Client SDK =====
@echo
ifneq ($(HAVE_CCONF), 1)
@if [ -d $(NSPR_TREE)/ ]; then \
echo "NSPR $(NSPR_VERSION) directory found"; \
else \
echo "No NSPR $(NSPR_VERSION) directory found"; \
fi
@if [ -d $(NSS_TREE)/ ]; then \
echo "NSS $(NSS_VERSION) directory found"; \
else \
echo "No NSS $(NSS_VERSION) directory found"; \
fi
else
@if [ -d $(CORECONFDIR)/ ]; then \
echo "coreconf $(CORECONFDIR) directory found"; \
else \
echo "No $(CORECONFDIR) found checking for alternate location"; \
if [ -d $(ALTCORECONFDIR)/ ]; then \
echo "found $(ALTCORECONFDIR)....copying to $(CORECONFDIR)"; \
cp -r $(ALTCORECONFDIR) $(CORECONFDIR); \
else \
echo "No coreconf directory found"; \
exit 1; \
fi \
fi
@if [ -d $(CORECONFDIR)/ ]; then \
cd $(CORECONFDIR); \
gmake; \
else \
echo "No $(CORECONFDIR) directory found"; \
fi
endif
@if [ -d $(CONFIGDIR)/ ]; then \
cd $(CONFIGDIR); \

```

```

gmake -f Makefile.client; \
else \
echo "No $(CONFIGDIR) directory found"; \
fi
@if [ -d $(LDAP_DEPTH)/c-sdk/ldap ]; then \
cd $(LDAP_DEPTH)/c-sdk/ldap; \
$(MAKE) -f Makefile.client $(MFLAGS) export; \
$(MAKE) -f Makefile.client $(MFLAGS) install; \
else \
echo "No LDAP directory -- skipping"; \
exit 0; \
fi

pkgLdapSDK: FORCE
@echo
@echo ===== Starting LDAP Client SDK packaging =====
@echo
@if [ -d $(DIST_TREE)/ ]; then \
cd $(LDAP_DEPTH)/c-sdk/; \
$(MAKE) -f package.mk $(MFLAGS) all; \
else \
echo "No dist directory found -- can't package"; \
exit 0; \
fi

buildAndPkgLdapSDK: buildLdapClientSDK pkgLdapSDK

PullSDKComponents: FORCE
@echo
@echo ===== Starting to pull components =====
@echo
ifneq ($(DONT_REPULL), 1)
ifeq ($(HAVE_CCONF), 1)
@if [ -d $(CORECONFDIR)/ ]; then \
echo "coreconf $(CORECONFDIR) directory found"; \
else \
echo "No $(CORECONFDIR) found checking for alternate location"; \
if [ -d $(ALTCORECONFDIR)/ ]; then \
echo "found $(ALTCORECONFDIR)....copying to $(CORECONFDIR)"; \
cp -r $(ALTCORECONFDIR) $(CORECONFDIR); \
else \
echo "No coreconf directory found"; \
exit 1; \
fi \
fi
@if [ -d $(CORECONFDIR)/ ]; then \
cd $(CORECONFDIR); \
gmake; \

```

```

else \
  echo "No $(CORECONFDIR) directory found"; \
fi
# cd $(CORECONFDIR)/dbm; \
# $(MAKE) VERSION=$(DBM_RELEASE_TAG) $(MFLAGS) $(COMP_PULL_ARG) import
cd $(CORECONFDIR)/nspr20; \
  $(MAKE) RELEASE_TREE=$(NSPR_RELEASE_TREE) \
  VERSION=$(NSPR_RELEASE_TAG) $(MFLAGS) $(COMP_PULL_ARG) import
cd $(CORECONFDIR)/security; \
  $(MAKE) RELEASE_TREE=$(NSS_RELEASE_TREE) \
  VERSION=$(NSS_RELEASE_TAG) $(MFLAGS) $(COMP_PULL_ARG) import
cd $(CORECONFDIR)/svrcore; \
  $(MAKE) RELEASE_TREE=$(SVRCORE_RELEASE_TREE) \
  VERSION=$(SVRCORE_RELEASE_TAG) $(MFLAGS) $(COMP_PULL_ARG) import
endif
endif

```

```

clean clobber: FORCE
@if [ -d $(LDAP_DEPTH)/c-sdk/ldap ]; then \
  cd $(LDAP_DEPTH)/c-sdk/ldap; \
  $(MAKE) -f Makefile.client $(MFLAGS) clean; \
else \
  echo "No LDAP directory -- skipping"; \
  exit 0; \
fi
@if [ -d $(CONFIGDIR) ]; then \
  cd $(CONFIGDIR); \
  gmake -f Makefile.client cleanconfig; \
fi

```

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

# 1.551 LDAP SDK - Netscape 5.0.8

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Version 1.1

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```

## 1.552 Iddtree 1.25 :r2

### 1.552.1 Available under license :

```

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# $Header: /var/cvsroot/gentoo-projects/pax-utils/lddtree.sh,v 1.22 2013/04/07 19:20:09 vapier Exp $

argv0=${0##*/}
version=1.25

: ${ROOT:=/}

[ "${ROOT}" = "${ROOT%/" } ] && ROOT="${ROOT}/"
[ "${ROOT}" = "${ROOT#/" } ] && ROOT="${PWD}/${ROOT}"

usage() {
cat <<-EOF
Display ELF dependencies as a tree

Usage: ${argv0} [options] <ELF file[s]>

Options:
-a          Show all duplicated dependencies
-x          Run with debugging
-R <root>   Use this ROOT filesystem tree
--no-auto-root Do not automatically prefix input ELF's with ROOT
-l          Display output in a flat format
-h          Show this help output
-V          Show version information
EOF
exit ${1:-0}
}

```

```

version() {
    exec echo "lddtree-${version}"
}

error() {
    echo "${argv0}: $*" 1>&2
    ret=1
    return 1
}

elf_specs() {
    # With glibc, the NONE, SYSV, GNU, and LINUX OSABI's are compatible.
    # LINUX and GNU are the same thing, as are NONE and SYSV, so normalize
    # GNU & LINUX to NONE. #442024 #464380
    scanelf -BF '#F%a %M %D %I' "$1" | \
    sed -r 's: (LINUX|GNU)$: NONE:'
}

unset lib_paths_fallback
for p in ${ROOT}lib* ${ROOT}usr/lib* ${ROOT}usr/local/lib*; do
    lib_paths_fallback="${lib_paths_fallback}${lib_paths_fallback:+;}${p}"
done
c_ldso_paths_loaded='false'
find_elf() {
    _find_elf=""

    local elf=$1 needed_by=$2
    if [ "${elf}" != "${elf##*/}" ] && [ -e "${elf}" ]; then
        _find_elf=${elf}
        return 0
    else
        check_paths() {
            local elf="$1"
            local pathstr="$2"
            IFS=:
            set -- $pathstr
            unset IFS
            local path pe
            for path ; do
                : ${path:=${PWD}}
                if [ "${path}${ROOT}" = "${path}" ]; then
                    path="${ROOT}${path#}"
                fi
                pe="${path%}/${elf#}"
                if [ -e "${pe}" ]; then
                    if [ "$(elf_specs "${pe}")" = "${elf_specs}" ]; then
                        _find_elf=${pe}
                    fi
                fi
            done
        }
    fi
}

```

```

    return 0
fi
fi
done
return 1
}

if [ "${c_last_needed_by}" != "${needed_by}" ]; then
c_last_needed_by="${needed_by}"
c_last_needed_by_rpaths=$(scanelf -qF '#F%r' "${needed_by}" | \
sed -e "s:[${ORIGIN}:${needed_by%/*}:")
fi
if [ -n "${c_last_needed_by_rpaths}" ]; then
check_paths "${elf}" "${c_last_needed_by_rpaths}" && return 0
fi

if [ -n "${LD_LIBRARY_PATH}" ]; then
check_paths "${elf}" "${LD_LIBRARY_PATH}"
fi

if ! ${c_ldso_paths_loaded} ; then
c_ldso_paths_loaded='true'
c_ldso_paths=
if [ -r ${ROOT}etc/ld.so.conf ] ; then
read_ldso_conf() {
local line p
for p ; do
# if the glob didnt match anything #360041,
# or the files arent readable, skip it
[ -r "${p}" ] || continue
while read line ; do
case ${line} in
"#"*) ;;
"include "*) read_ldso_conf ${line##* } ;;
*) c_ldso_paths="$c_ldso_paths:${ROOT}${line#/}";;
esac
done <"${p}"
done
}
# the 'include' command is relative
local _oldpwd="$PWD"
cd "${ROOT}etc >/dev/null
read_ldso_conf "${ROOT}etc/ld.so.conf
cd "$_oldpwd"
fi
fi
if [ -n "${c_ldso_paths}" ] ; then
check_paths "${elf}" "${c_ldso_paths}" && return 0

```

```

fi

check_paths "${elf}" "${lib_paths_ldso:-${lib_paths_fallback}}" && return 0
fi
return 1
}

list_existing_file() {
if [ -e "$1" ]; then
echo "$1"
else
echo "$1: Not found." >&2
fi
}

show_elf() {
local elf=$1 indent=$2 parent_elfs=$3
local rlib lib libs
local interp resolved
find_elf "${elf}"
resolved=${_find_elf}
elf=${elf##*/}

${LIST} || printf "%${indent}s%s => " "" "${elf}"
case ",${parent_elfs}," in
*,${elf},*)
${LIST} || printf "!!! circular loop !!!\n" ""
return
;;
esac
parent_elfs="${parent_elfs},${elf}"
if ${LIST} ; then
list_existing_file "${resolved:-$1}"
else
printf "${resolved:-not found}"
fi
local oldpwd="$PWD"
cd "${resolved%/*}"
while [ -L "$resolved" ]; do
resolved=$(readlink "$resolved")
case "$resolved" in
/*) resolved="${ROOT}${resolved#/}"
cd "${resolved%/*}"
;;
/*/*) cd "${resolved%/*}"
;;
esac
resolved=$(pwd -P)/${resolved##*/}

```



```

if ${LIST} ; then
  list_existing_file "${resolved:-$1}"
else
  printf "${resolved:-not found}"
fi
done
cd "$oldpwd"
if [ ${indent} -eq 0 ] ; then
  elf_specs=$(elf_specs "${resolved}")
  interp=$(scanelf -qF '#F%i' "${resolved}")
  # ignore interpreters that do not have absolute path
  [ "${interp#/}" = "${interp}" ] && interp=
  [ -n "${interp}" ] && interp="${ROOT}${interp#/}"

  if ${LIST} ; then
    [ -n "${interp}" ] && echo "${interp}"
  else
    printf " (interpreter => ${interp:-none})"
  fi
  if [ -r "${interp}" ] ; then
    # Extract the default lib paths out of the ldso.
    lib_paths_ldso=$(
      strings "${interp}" | \
      sed -nr -e '/^\.*/lib/{s/^/?|${ROOT}|;s/|$|;s/?/:?|:${ROOT}|g;p}'
    )
  fi
  interp=${interp##*/}
fi
${LIST} || printf "\n"

[ -z "${resolved}" ] && return

libs=$(scanelf -qF '#F%n' "${resolved}")

local my_allhits
if ! ${SHOW_ALL} ; then
  my_allhits="${allhits}"
  allhits="${allhits},${interp},${libs}"
fi

for lib in ${libs//,/ } ; do
  lib=${lib##*/}
  case ",${my_allhits}," in
    *,$lib,*) continue;;
  esac
  find_elf "${lib}" "${resolved}"
  rlib=${_find_elf}

```

```

    show_elf "${rlib:-${lib}}" $((indent + 4)) "${parent_elfs}"
done
}

```

```

SHOW_ALL=false
SET_X=false
LIST=false
AUTO_ROOT=true

```

```

while getopts haxVR:l: OPT ; do
case ${OPT} in
a) SHOW_ALL=true;;
x) SET_X=true;;
h) usage;;
V) version;;
R) ROOT="${OPTARG%/}/";;
l) LIST=true;;
-) # Long opts ftw.
case ${OPTARG} in
no-auto-root) AUTO_ROOT=false;;
*) usage 1;;
esac
;;
?) usage 1;;
esac
done
shift $(( $OPTIND - 1))
[ -z "$1" ] && usage 1

```

```

${SET_X} && set -x

```

```

ret=0
for elf ; do
unset lib_paths_ldso
unset c_last_needed_by
if ${AUTO_ROOT} && [ -z "${elf##/*}" ] ; then
elf="${ROOT}${elf#/}"
fi
if [ ! -e "${elf}" ] ; then
error "${elf}: file does not exist"
elif [ ! -r "${elf}" ] ; then
error "${elf}: file is not readable"
elif [ -d "${elf}" ] ; then
if $LIST; then
echo ${elf}
else
error "${elf}: is a directory"
fi

```

```

else
allhits=""
[ "${elf##*/}" = "${elf}" ] && elf="./${elf}"
show_elf "${elf}" 0 ""
fi
done
exit ${ret}

```

## 1.553 Iddtree 1.25 :r2

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```

#!/bin/sh
# Copyright 2007-2013 Gentoo Foundation
# Copyright 2007-2013 Mike Frysinger <vapier@gentoo.org>
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# $Header: /var/cvsroot/gentoo-projects/pax-utils/lddtree.sh,v 1.22 2013/04/07 19:20:09 vapier Exp $

argv0=${0##*/}
version=1.25

: ${ROOT:=/}

[ "${ROOT}" = "${ROOT%/" } ] && ROOT="${ROOT}/"
[ "${ROOT}" = "${ROOT#/}" ] && ROOT="${PWD}/${ROOT}"

usage() {
cat <<-EOF
Display ELF dependencies as a tree

Usage: ${argv0} [options] <ELF file[s]>

Options:
-a      Show all duplicated dependencies
-x      Run with debugging
-R <root> Use this ROOT filesystem tree
--no-auto-root Do not automatically prefix input ELF's with ROOT
-l      Display output in a flat format
-h      Show this help output
-V      Show version information
EOF
exit ${1:-0}
}

version() {
exec echo "lddtree-${version}"
}

```

```

error() {
    echo "${argv0}: $" 1>&2
    ret=1
    return 1
}

elf_specs() {
    # With glibc, the NONE, SYSV, GNU, and LINUX OSABI's are compatible.
    # LINUX and GNU are the same thing, as are NONE and SYSV, so normalize
    # GNU & LINUX to NONE. #442024 #464380
    scanelf -BF #F%a %M %D %I "$1" | \
    sed -r 's: (LINUX|GNU)$: NONE:'
}

unset lib_paths_fallback
for p in ${ROOT}lib* ${ROOT}usr/lib* ${ROOT}usr/local/lib*; do
    lib_paths_fallback="${lib_paths_fallback}${lib_paths_fallback:+;}${p}"
done
c_ldso_paths_loaded='false'
find_elf() {
    _find_elf=""

    local elf=$1 needed_by=$2
    if [ "${elf}" != "${elf##*/}" ] && [ -e "${elf}" ]; then
        _find_elf=${elf}
        return 0
    else
        check_paths() {
            local elf="$1"
            local pathstr="$2"
            IFS=:
            set -- $pathstr
            unset IFS
            local path pe
            for path ; do
                : ${path:=${PWD}}
                if [ "${path}${ROOT}" = "${path}" ]; then
                    path="${ROOT}${path#}"
                fi
                pe="${path%}/${elf#}"
                if [ -e "${pe}" ]; then
                    if [ "$(elf_specs "${pe}")" = "${elf_specs}" ]; then
                        _find_elf=${pe}
                        return 0
                    fi
                fi
            done
        }
    fi
}
done

```

```

return 1
}

if [ "${c_last_needed_by}" != "${needed_by}" ]; then
c_last_needed_by="${needed_by}"
c_last_needed_by_rpaths=$(scanelf -qF '#F%r' "${needed_by}" | \
sed -e "s:[\$]ORIGIN:[\$]needed_by%/*:")
fi
if [ -n "${c_last_needed_by_rpaths}" ]; then
check_paths "${elf}" "${c_last_needed_by_rpaths}" && return 0
fi

if [ -n "${LD_LIBRARY_PATH}" ]; then
check_paths "${elf}" "${LD_LIBRARY_PATH}"
fi

if ! ${c_ldso_paths_loaded} ; then
c_ldso_paths_loaded='true'
c_ldso_paths=
if [ -r ${ROOT}etc/ld.so.conf ] ; then
read_ldso_conf() {
local line p
for p ; do
# if the glob didnt match anything #360041,
# or the files arent readable, skip it
[ -r "${p}" ] || continue
while read line ; do
case ${line} in
"#"*) ;;
"include"*) read_ldso_conf ${line##* } ;;
*) c_ldso_paths="${c_ldso_paths}:${ROOT}${line#/}";;
esac
done <"${p}"
done
}
# the 'include' command is relative
local _oldpwd="$PWD"
cd "${ROOT}etc >/dev/null
read_ldso_conf "${ROOT}etc/ld.so.conf
cd "$_oldpwd"
fi
fi
if [ -n "${c_ldso_paths}" ] ; then
check_paths "${elf}" "${c_ldso_paths}" && return 0
fi

check_paths "${elf}" "${lib_paths_ldso:-${lib_paths_fallback}}" && return 0
fi

```

```

return 1
}

list_existing_file() {
if [ -e "$1" ]; then
echo "$1"
else
echo "$1: Not found." >&2
fi
}

show_elf() {
local elf=$1 indent=$2 parent_elfs=$3
local rlib lib libs
local interp resolved
find_elf "${elf}"
resolved=${_find_elf}
elf=${elf##*/}

${LIST} || printf "%${indent}s%s => " "" "${elf}"
case ",${parent_elfs}," in
*,${elf},*)
${LIST} || printf "!!! circular loop !!!\n" ""
return
;;
esac
parent_elfs=" ${parent_elfs},${elf}"
if ${LIST} ; then
list_existing_file "${resolved:-$1}"
else
printf "${resolved:-not found}"
fi
local oldpwd="$PWD"
cd "${resolved%/*}"
while [ -L "$resolved" ]; do
resolved=$(readlink "$resolved")
case "$resolved" in
/*) resolved="${ROOT}${resolved#/}"
cd "${resolved%/*}"
;;
/*/*) cd "${resolved%/*}"
;;
esac
resolved=$(pwd -P)/${resolved##*/}

if ${LIST} ; then
list_existing_file "${resolved:-$1}"
else

```

```

    printf "${resolved:-not found}"
fi
done
cd "$oldpwd"
if [ "${indent} -eq 0 ] ; then
    elf_specs=$(elf_specs "${resolved}")
    interp=$(scanelf -qF '#F%i' "${resolved}")
    # ignore interpreters that do not have absolute path
    [ "${interp#/}" = "${interp}" ] && interp=
    [ -n "${interp}" ] && interp="${ROOT}${interp#/"
fi
if ${LIST} ; then
    [ -n "${interp}" ] && echo "${interp}"
else
    printf " (interpreter => ${interp:-none})"
fi
if [ -r "${interp}" ] ; then
    # Extract the default lib paths out of the ldso.
    lib_paths_ldso=$(
        strings "${interp}" | \
        sed -nr -e "/^\.*/lib/{s/^?/${ROOT};s/;/|;s/?/?|:/${ROOT}|g;p}"
    )
fi
interp=${interp##*/}
fi
${LIST} || printf "\n"

[ -z "${resolved}" ] && return

libs=$(scanelf -qF '#F%n' "${resolved}")

local my_allhits
if ! ${SHOW_ALL} ; then
    my_allhits="${allhits}"
    allhits="${allhits},${interp},${libs}"
fi

for lib in ${libs//,/ } ; do
    lib=${lib##*/}
    case ",${my_allhits}," in
        *,$lib,*) continue;;
    esac
    find_elf "${lib}" "${resolved}"
    rlib=${_find_elf}
    show_elf "${rlib:-${lib}}" $((indent + 4)) "${parent_elfs}"
done
}

```

```
SHOW_ALL=false
SET_X=false
LIST=false
AUTO_ROOT=true
```

```
while getopts haxVR:l: OPT ; do
case ${OPT} in
a) SHOW_ALL=true;;
x) SET_X=true;;
h) usage;;
V) version;;
R) ROOT="${OPTARG%/}/";;
l) LIST=true;;
-) # Long opts ftw.
case ${OPTARG} in
no-auto-root) AUTO_ROOT=false;;
*) usage 1;;
esac
;;
?) usage 1;;
esac
done
shift $(( $OPTIND - 1))
[ -z "$1" ] && usage 1
```

```
${SET_X} && set -x
```

```
ret=0
for elf ; do
unset lib_paths_ldso
unset c_last_needed_by
if ${AUTO_ROOT} && [ -z "${elf##/*}" ] ; then
elf="${ROOT}${elf#/}"
fi
if [ ! -e "${elf}" ] ; then
error "${elf}: file does not exist"
elif [ ! -r "${elf}" ] ; then
error "${elf}: file is not readable"
elif [ -d "${elf}" ] ; then
if $LIST; then
echo ${elf}
else
error "${elf}: is a directory"
fi
else
allhits=""
[ "${elf##/*}" = "${elf}" ] && elf=".${elf}"
show_elf "${elf}" 0 ""
```



fi  
done  
exit \${ret}

# 1.554 Less 3.7.1

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# 1.557 libatomic 5.3.0 :r0

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
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```



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```
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```

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```

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<signature of Ty Coon>, 1 April 1989
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.  
The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.  
Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.  
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.  
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.  
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.  
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.  
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.  
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.



(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which

must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the

Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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That's all there is to it!

@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

gfdl(7), fsf-funding(7).

@c man end

@c man begin COPYRIGHT

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@node Copying  
@c man begin DESCRIPTION  
@unnumbered GNU General Public License  
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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

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``Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

``The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you". ``Licensees" and ``recipients" may be individuals or organizations.

To ``modify" a work means to copy from or adapt all or part of the work

in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

@item Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to

produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

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The work must carry prominent notices stating that you modified it, and giving a relevant date.

@item

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to ``keep intact all notices".

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You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

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@item

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@item

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

@item

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

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If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

@c man end

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@node Library Copying

@appendixsec GNU LESSER GENERAL PUBLIC LICENSE

@cindex LGPL, Lesser General Public License

@center Version 2.1, February 1999

@display

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@appendixsubsec Preamble

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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@ifinfo

@center GNU LESSER GENERAL PUBLIC LICENSE

@center TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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@smallexample

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@smallexample

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

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## 1.558 libattr 2.4.47 :r4

### 1.558.1 Available under license :

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a



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This package was debianized by Nathan Scott [nathans@debian.org](mailto:nathans@debian.org) on  
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## 1.559 libblkid 2.28 :r3

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## 1.560 libbz2-1.0 1.0.6 :r5

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Julian Seward, [jseward@bzip.org](mailto:jseward@bzip.org)

---

# 1.561 libc-utils 0.7 :r0

## 1.561.1 Available under license :

```
/* $NetBSD: queue.h,v 1.68 2014/11/19 08:10:01 uebayasi Exp $ */
```

```
/*
```

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```

```
*
```

```
* @(#)queue.h 8.5 (Berkeley) 8/20/94
```

```
*/
```

```
#ifndef _SYS_QUEUE_H_
```

```
#define _SYS_QUEUE_H_
```

```
/*
```

```
* This file defines five types of data structures: singly-linked lists,
```

```
* lists, simple queues, tail queues, and circular queues.
```

```
*
```

\* A singly-linked list is headed by a single forward pointer. The  
\* elements are singly linked for minimum space and pointer manipulation  
\* overhead at the expense of O(n) removal for arbitrary elements. New  
\* elements can be added to the list after an existing element or at the  
\* head of the list. Elements being removed from the head of the list  
\* should use the explicit macro for this purpose for optimum  
\* efficiency. A singly-linked list may only be traversed in the forward  
\* direction. Singly-linked lists are ideal for applications with large  
\* datasets and few or no removals or for implementing a LIFO queue.

\*

\* A list is headed by a single forward pointer (or an array of forward  
\* pointers for a hash table header). The elements are doubly linked  
\* so that an arbitrary element can be removed without a need to  
\* traverse the list. New elements can be added to the list before  
\* or after an existing element or at the head of the list. A list  
\* may only be traversed in the forward direction.

\*

\* A simple queue is headed by a pair of pointers, one the head of the  
\* list and the other to the tail of the list. The elements are singly  
\* linked to save space, so elements can only be removed from the  
\* head of the list. New elements can be added to the list after  
\* an existing element, at the head of the list, or at the end of the  
\* list. A simple queue may only be traversed in the forward direction.

\*

\* A tail queue is headed by a pair of pointers, one to the head of the  
\* list and the other to the tail of the list. The elements are doubly  
\* linked so that an arbitrary element can be removed without a need to  
\* traverse the list. New elements can be added to the list before or  
\* after an existing element, at the head of the list, or at the end of  
\* the list. A tail queue may be traversed in either direction.

\*

\* A circle queue is headed by a pair of pointers, one to the head of the  
\* list and the other to the tail of the list. The elements are doubly  
\* linked so that an arbitrary element can be removed without a need to  
\* traverse the list. New elements can be added to the list before or after  
\* an existing element, at the head of the list, or at the end of the list.

\* A circle queue may be traversed in either direction, but has a more  
\* complex end of list detection.

\*

\* For details on the use of these macros, see the queue(3) manual page.

\*/

/\*

\* Include the definition of NULL only on NetBSD because sys/null.h  
\* is not available elsewhere. This conditional makes the header  
\* portable and it can simply be dropped verbatim into any system.

\* The caveat is that on other systems some other header

\* must provide NULL before the macros can be used.

```

*/
#ifdef __NetBSD__
#include <sys/null.h>
#endif

#if defined(QUEUEDEBUG)
# if defined(_KERNEL)
# define QUEUEDEBUG_ABORT(...) panic(__VA_ARGS__)
# else
# include <err.h>
# define QUEUEDEBUG_ABORT(...) err(1, __VA_ARGS__)
# endif
#endif

/*
* Singly-linked List definitions.
*/
#define SLIST_HEAD(name, type) \
struct name { \
    struct type *slh_first; /* first element */ \
}

#define SLIST_HEAD_INITIALIZER(head) \
{ NULL }

#define SLIST_ENTRY(type) \
struct { \
    struct type *sle_next; /* next element */ \
}

/*
* Singly-linked List access methods.
*/
#define SLIST_FIRST(head) ((head)->slh_first)
#define SLIST_END(head) NULL
#define SLIST_EMPTY(head) ((head)->slh_first == NULL)
#define SLIST_NEXT(elm, field) ((elm)->field.sle_next)

#define SLIST_FOREACH(var, head, field) \
for((var) = (head)->slh_first; \
    (var) != SLIST_END(head); \
    (var) = (var)->field.sle_next)

#define SLIST_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = SLIST_FIRST((head)); \
    (var) != SLIST_END(head) && \
    ((tvar) = SLIST_NEXT((var), field), 1); \
    (var) = (tvar))

```

```

/*
 * Singly-linked List functions.
 */
#define SLIST_INIT(head) do { \
    (head)->slh_first = SLIST_END(head); \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_AFTER(slistelm, elm, field) do { \
    (elm)->field.sle_next = (slistelm)->field.sle_next; \
    (slistelm)->field.sle_next = (elm); \
} while (/*CONSTCOND*/0)

#define SLIST_INSERT_HEAD(head, elm, field) do { \
    (elm)->field.sle_next = (head)->slh_first; \
    (head)->slh_first = (elm); \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_AFTER(slistelm, field) do { \
    (slistelm)->field.sle_next = \
        SLIST_NEXT(SLIST_NEXT((slistelm), field), field); \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE_HEAD(head, field) do { \
    (head)->slh_first = (head)->slh_first->field.sle_next; \
} while (/*CONSTCOND*/0)

#define SLIST_REMOVE(head, elm, type, field) do { \
    if ((head)->slh_first == (elm)) { \
        SLIST_REMOVE_HEAD((head), field); \
    } \
    else { \
        struct type *curelm = (head)->slh_first; \
        while(curelm->field.sle_next != (elm)) \
            curelm = curelm->field.sle_next; \
        curelm->field.sle_next = \
            curelm->field.sle_next->field.sle_next; \
    } \
} while (/*CONSTCOND*/0)

/*
 * List definitions.
 */
#define LIST_HEAD(name, type) \
struct name { \
    struct type *lh_first; /* first element */ \
}

```

```

#define LIST_HEAD_INITIALIZER(head) \
{ NULL }

#define LIST_ENTRY(type) \
struct { \
    struct type *le_next; /* next element */ \
    struct type **le_prev; /* address of previous next element */ \
}

/*
 * List access methods.
 */
#define LIST_FIRST(head) ((head)->lh_first)
#define LIST_END(head) NULL
#define LIST_EMPTY(head) ((head)->lh_first == LIST_END(head))
#define LIST_NEXT(elm, field) ((elm)->field.le_next)

#define LIST_FOREACH(var, head, field) \
for ((var) = ((head)->lh_first); \
     (var) != LIST_END(head); \
     (var) = ((var)->field.le_next))

#define LIST_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = LIST_FIRST((head)); \
     (var) != LIST_END(head) && \
     ((tvar) = LIST_NEXT((var), field), 1); \
     (var) = (tvar))

#define LIST_MOVE(head1, head2) do { \
    LIST_INIT((head2)); \
    if (!LIST_EMPTY((head1))) { \
        (head2)->lh_first = (head1)->lh_first; \
        LIST_INIT((head1)); \
    } \
} while (/*CONSTCOND*/0)

/*
 * List functions.
 */
#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field) \
if ((head)->lh_first && \
    (head)->lh_first->field.le_prev != &(head)->lh_first) \
    QUEUEDEBUG_ABORT("LIST_INSERT_HEAD %p %s:%d", (head), \
        __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_OP(elm, field) \
if ((elm)->field.le_next && \

```

```

    (elm)->field.le_next->field.le_prev != \
    &(elm)->field.le_next) \
    QUEUEDEBUG_ABORT("LIST_* forw %p %s:%d", (elm), \
    __FILE__, __LINE__); \
    if (*(elm)->field.le_prev != (elm)) \
    QUEUEDEBUG_ABORT("LIST_* back %p %s:%d", (elm), \
    __FILE__, __LINE__);
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field) \
    (elm)->field.le_next = (void *)1L; \
    (elm)->field.le_prev = (void *)1L;
#else
#define QUEUEDEBUG_LIST_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_LIST_OP(elm, field)
#define QUEUEDEBUG_LIST_POSTREMOVE(elm, field)
#endif

#define LIST_INIT(head) do { \
    (head)->lh_first = LIST_END(head); \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_AFTER(listelm, elm, field) do { \
    QUEUEDEBUG_LIST_OP((listelm), field) \
    if (((elm)->field.le_next = (listelm)->field.le_next) != \
    LIST_END(head)) \
    (listelm)->field.le_next->field.le_prev = \
    &(elm)->field.le_next; \
    (listelm)->field.le_next = (elm); \
    (elm)->field.le_prev = &(listelm)->field.le_next; \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_BEFORE(listelm, elm, field) do { \
    QUEUEDEBUG_LIST_OP((listelm), field) \
    (elm)->field.le_prev = (listelm)->field.le_prev; \
    (elm)->field.le_next = (listelm); \
    *(listelm)->field.le_prev = (elm); \
    (listelm)->field.le_prev = &(elm)->field.le_next; \
} while (/*CONSTCOND*/0)

#define LIST_INSERT_HEAD(head, elm, field) do { \
    QUEUEDEBUG_LIST_INSERT_HEAD((head), (elm), field) \
    if (((elm)->field.le_next = (head)->lh_first) != LIST_END(head)) \
    (head)->lh_first->field.le_prev = &(elm)->field.le_next; \
    (head)->lh_first = (elm); \
    (elm)->field.le_prev = &(head)->lh_first; \
} while (/*CONSTCOND*/0)

#define LIST_REMOVE(elm, field) do { \
    QUEUEDEBUG_LIST_OP((elm), field) \

```



```

if ((elm)->field.le_next != NULL) \
    (elm)->field.le_next->field.le_prev = \
        (elm)->field.le_prev; \
*(elm)->field.le_prev = (elm)->field.le_next; \
QUEUEDEBUG_LIST_POSTREMOVE((elm), field) \
} while (/*CONSTCOND*/0)

#define LIST_REPLACE(elm, elm2, field) do { \
if (((elm2)->field.le_next = (elm)->field.le_next) != NULL) \
    (elm2)->field.le_next->field.le_prev = \
        &(elm2)->field.le_next; \
    (elm2)->field.le_prev = (elm)->field.le_prev; \
    *(elm2)->field.le_prev = (elm2); \
    QUEUEDEBUG_LIST_POSTREMOVE((elm), field) \
} while (/*CONSTCOND*/0)

/*
 * Simple queue definitions.
 */
#define SIMPLEQ_HEAD(name, type) \
struct name { \
    struct type *sqh_first; /* first element */ \
    struct type **sqh_last; /* addr of last next element */ \
}

#define SIMPLEQ_HEAD_INITIALIZER(head) \
{ NULL, &(head).sqh_first }

#define SIMPLEQ_ENTRY(type) \
struct { \
    struct type *sqe_next; /* next element */ \
}

/*
 * Simple queue access methods.
 */
#define SIMPLEQ_FIRST(head) ((head)->sqh_first)
#define SIMPLEQ_END(head) NULL
#define SIMPLEQ_EMPTY(head) ((head)->sqh_first == SIMPLEQ_END(head))
#define SIMPLEQ_NEXT(elm, field) ((elm)->field.sqe_next)

#define SIMPLEQ_FOREACH(var, head, field) \
for ((var) = ((head)->sqh_first); \
    (var) != SIMPLEQ_END(head); \
    (var) = ((var)->field.sqe_next))

#define SIMPLEQ_FOREACH_SAFE(var, head, field, next) \
for ((var) = ((head)->sqh_first); \

```

```

    (var) != SIMPLEQ_END(head) && \
    ((next = ((var)->field.sqe_next)), 1); \
    (var) = (next))

/*
 * Simple queue functions.
 */
#define SIMPLEQ_INIT(head) do { \
    (head)->sqh_first = NULL; \
    (head)->sqh_last = &(head)->sqh_first; \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_HEAD(head, elm, field) do { \
    if (((elm)->field.sqe_next = (head)->sqh_first) == NULL) \
        (head)->sqh_last = &(elm)->field.sqe_next; \
    (head)->sqh_first = (elm); \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_TAIL(head, elm, field) do { \
    (elm)->field.sqe_next = NULL; \
    *(head)->sqh_last = (elm); \
    (head)->sqh_last = &(elm)->field.sqe_next; \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_INSERT_AFTER(head, listelm, elm, field) do { \
    if (((elm)->field.sqe_next = (listelm)->field.sqe_next) == NULL) \
        (head)->sqh_last = &(elm)->field.sqe_next; \
    (listelm)->field.sqe_next = (elm); \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_HEAD(head, field) do { \
    if (((head)->sqh_first = (head)->sqh_first->field.sqe_next) == NULL) \
        (head)->sqh_last = &(head)->sqh_first; \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE_AFTER(head, elm, field) do { \
    if (((elm)->field.sqe_next = (elm)->field.sqe_next->field.sqe_next) \
        == NULL) \
        (head)->sqh_last = &(elm)->field.sqe_next; \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_REMOVE(head, elm, type, field) do { \
    if ((head)->sqh_first == (elm)) { \
        SIMPLEQ_REMOVE_HEAD((head), field); \
    } else { \
        struct type *curelm = (head)->sqh_first; \
        while (curelm->field.sqe_next != (elm)) \
            curelm = curelm->field.sqe_next; \
    } \
} while (/*CONSTCOND*/0)

```

```

if ((curelm->field.sqe_next = \
    curelm->field.sqe_next->field.sqe_next) == NULL) \
    (head)->sqh_last = &(curelm)->field.sqe_next; \
} \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_CONCAT(head1, head2) do { \
    if (!SIMPLEQ_EMPTY((head2))) { \
        *(head1)->sqh_last = (head2)->sqh_first; \
        (head1)->sqh_last = (head2)->sqh_last; \
        SIMPLEQ_INIT((head2)); \
    } \
} while (/*CONSTCOND*/0)

#define SIMPLEQ_LAST(head, type, field) \
(SIMPLEQ_EMPTY((head)) ? \
    NULL : \
    ((struct type *) (void *) \
    ((char *) ((head)->sqh_last) - offsetof(struct type, field))))

/*
 * Tail queue definitions.
 */
#define _TAILQ_HEAD(name, type, qual) \
struct name { \
    qual type *tqh_first; /* first element */ \
    qual type *qual *tqh_last; /* addr of last next element */ \
}
#define TAILQ_HEAD(name, type) _TAILQ_HEAD(name, struct type,)

#define TAILQ_HEAD_INITIALIZER(head) \
{ TAILQ_END(head), &(head).tqh_first }

#define _TAILQ_ENTRY(type, qual) \
struct { \
    qual type *tqe_next; /* next element */ \
    qual type *qual *tqe_prev; /* address of previous next element */ \
}
#define TAILQ_ENTRY(type) _TAILQ_ENTRY(struct type,)

/*
 * Tail queue access methods.
 */
#define TAILQ_FIRST(head) ((head)->tqh_first)
#define TAILQ_END(head) (NULL)
#define TAILQ_NEXT(elm, field) ((elm)->field.tqe_next)
#define TAILQ_LAST(head, headname) \
    (((struct headname *) (head)->tqh_last)->tqh_last)

```

```

#define TAILQ_PREV(elm, headname, field) \
    (*((struct headname *)((elm)->field.tqe_prev))->tqh_last)
#define TAILQ_EMPTY(head) (TAILQ_FIRST(head) == TAILQ_END(head))

#define TAILQ_FOREACH(var, head, field) \
    for ((var) = ((head)->tqh_first); \
         (var) != TAILQ_END(head); \
         (var) = ((var)->field.tqe_next))

#define TAILQ_FOREACH_SAFE(var, head, field, next) \
    for ((var) = ((head)->tqh_first); \
         (var) != TAILQ_END(head) && \
         ((next) = TAILQ_NEXT(var, field), 1); (var) = (next))

#define TAILQ_FOREACH_REVERSE(var, head, headname, field) \
    for ((var) = *((struct headname *)((head)->tqh_last))->tqh_last); \
         (var) != TAILQ_END(head); \
         (var) = *((struct headname *)((var)->field.tqe_prev))->tqh_last))

#define TAILQ_FOREACH_REVERSE_SAFE(var, head, headname, field, prev) \
    for ((var) = TAILQ_LAST((head), headname); \
         (var) != TAILQ_END(head) && \
         ((prev) = TAILQ_PREV((var), headname, field), 1); (var) = (prev))

/*
 * Tail queue functions.
 */
#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head, elm, field) \
    if ((head)->tqh_first && \
        (head)->tqh_first->field.tqe_prev != &(head)->tqh_first) \
        QUEUEDEBUG_ABORT("TAILQ_INSERT_HEAD %p %s:%d", (head), \
            __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field) \
    if (*(head)->tqh_last != NULL) \
        QUEUEDEBUG_ABORT("TAILQ_INSERT_TAIL %p %s:%d", (head), \
            __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_OP(elm, field) \
    if ((elm)->field.tqe_next && \
        (elm)->field.tqe_next->field.tqe_prev != \
        &(elm)->field.tqe_next) \
        QUEUEDEBUG_ABORT("TAILQ_* forw %p %s:%d", (elm), \
            __FILE__, __LINE__); \
    if (*(elm)->field.tqe_prev != (elm)) \
        QUEUEDEBUG_ABORT("TAILQ_* back %p %s:%d", (elm), \
            __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field) \

```

```

if ((elm)->field.tqe_next == NULL && \
    (head)->tqh_last != &(elm)->field.tqe_next) \
    QUEUEDEBUG_ABORT("TAILQ_PREREMOVE head %p elm %p %s:%d",\
        (head), (elm), __FILE__, __LINE__);
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field) \
    (elm)->field.tqe_next = (void *)1L; \
    (elm)->field.tqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_TAILQ_INSERT_HEAD(head, elm, field)
#define QUEUEDEBUG_TAILQ_INSERT_TAIL(head, elm, field)
#define QUEUEDEBUG_TAILQ_OP(elm, field)
#define QUEUEDEBUG_TAILQ_PREREMOVE(head, elm, field)
#define QUEUEDEBUG_TAILQ_POSTREMOVE(elm, field)
#endif

#define TAILQ_INIT(head) do { \
    (head)->tqh_first = TAILQ_END(head); \
    (head)->tqh_last = &(head)->tqh_first; \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_HEAD(head, elm, field) do { \
    QUEUEDEBUG_TAILQ_INSERT_HEAD((head), (elm), field) \
    if (((elm)->field.tqe_next = (head)->tqh_first) != TAILQ_END(head))\
        (head)->tqh_first->field.tqe_prev = \
            &(elm)->field.tqe_next; \
    else \
        (head)->tqh_last = &(elm)->field.tqe_next; \
    (head)->tqh_first = (elm); \
    (elm)->field.tqe_prev = &(head)->tqh_first; \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_TAIL(head, elm, field) do { \
    QUEUEDEBUG_TAILQ_INSERT_TAIL((head), (elm), field) \
    (elm)->field.tqe_next = TAILQ_END(head); \
    (elm)->field.tqe_prev = (head)->tqh_last; \
    *(head)->tqh_last = (elm); \
    (head)->tqh_last = &(elm)->field.tqe_next; \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_AFTER(head, listelm, elm, field) do { \
    QUEUEDEBUG_TAILQ_OP((listelm), field) \
    if (((elm)->field.tqe_next = (listelm)->field.tqe_next) != \
        TAILQ_END(head)) \
        (elm)->field.tqe_next->field.tqe_prev = \
            &(elm)->field.tqe_next; \
    else \
        (head)->tqh_last = &(elm)->field.tqe_next; \
    (listelm)->field.tqe_next = (elm); \
} while (/*CONSTCOND*/0)

```

```

(elm)->field.tqe_prev = &(listelm)->field.tqe_next; \
} while (/*CONSTCOND*/0)

#define TAILQ_INSERT_BEFORE(listelm, elm, field) do { \
    QUEUEDEB_DEBUG_TAILQ_OP((listelm), field) \
    (elm)->field.tqe_prev = (listelm)->field.tqe_prev; \
    (elm)->field.tqe_next = (listelm); \
    *(listelm)->field.tqe_prev = (elm); \
    (listelm)->field.tqe_prev = &(elm)->field.tqe_next; \
} while (/*CONSTCOND*/0)

#define TAILQ_REMOVE(head, elm, field) do { \
    QUEUEDEB_DEBUG_TAILQ_PREREMOVE((head), (elm), field) \
    QUEUEDEB_DEBUG_TAILQ_OP((elm), field) \
    if (((elm)->field.tqe_next != TAILQ_END(head)) \
        (elm)->field.tqe_next->field.tqe_prev = \
            (elm)->field.tqe_prev; \
    else \
        (head)->tqh_last = (elm)->field.tqe_prev; \
    *(elm)->field.tqe_prev = (elm)->field.tqe_next; \
    QUEUEDEB_DEBUG_TAILQ_POSTREMOVE((elm), field); \
} while (/*CONSTCOND*/0)

#define TAILQ_REPLACE(head, elm, elm2, field) do { \
    if (((elm2)->field.tqe_next = (elm)->field.tqe_next) != \
        TAILQ_END(head)) \
        (elm2)->field.tqe_next->field.tqe_prev = \
            &(elm2)->field.tqe_next; \
    else \
        (head)->tqh_last = &(elm2)->field.tqe_next; \
    (elm2)->field.tqe_prev = (elm)->field.tqe_prev; \
    *(elm2)->field.tqe_prev = (elm2); \
    QUEUEDEB_DEBUG_TAILQ_POSTREMOVE((elm), field); \
} while (/*CONSTCOND*/0)

#define TAILQ_CONCAT(head1, head2, field) do { \
    if (!TAILQ_EMPTY(head2)) { \
        *(head1)->tqh_last = (head2)->tqh_first; \
        (head2)->tqh_first->field.tqe_prev = (head1)->tqh_last; \
        (head1)->tqh_last = (head2)->tqh_last; \
        TAILQ_INIT((head2)); \
    } \
} while (/*CONSTCOND*/0)

/*
 * Singly-linked Tail queue declarations.
 */
#define STAILQ_HEAD(name, type) \

```

```

struct name {
    \
    struct type *stqh_first; /* first element */ \
    struct type **stqh_last; /* addr of last next element */ \
}

#define STAILQ_HEAD_INITIALIZER(head) \
    { NULL, &(head).stqh_first }

#define STAILQ_ENTRY(type) \
    struct {
        \
        struct type *stqe_next; /* next element */ \
    }

/*
 * Singly-linked Tail queue access methods.
 */
#define STAILQ_FIRST(head) ((head)->stqh_first)
#define STAILQ_END(head) NULL
#define STAILQ_NEXT(elm, field) ((elm)->field.stqe_next)
#define STAILQ_EMPTY(head) (STAILQ_FIRST(head) == STAILQ_END(head))

/*
 * Singly-linked Tail queue functions.
 */
#define STAILQ_INIT(head) do { \
    (head)->stqh_first = NULL; \
    (head)->stqh_last = &(head)->stqh_first; \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_HEAD(head, elm, field) do { \
    if (((elm)->field.stqe_next = (head)->stqh_first) == NULL) \
        (head)->stqh_last = &(elm)->field.stqe_next; \
    (head)->stqh_first = (elm); \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_TAIL(head, elm, field) do { \
    (elm)->field.stqe_next = NULL; \
    *(head)->stqh_last = (elm); \
    (head)->stqh_last = &(elm)->field.stqe_next; \
} while (/*CONSTCOND*/0)

#define STAILQ_INSERT_AFTER(head, listelm, elm, field) do { \
    if (((elm)->field.stqe_next = (listelm)->field.stqe_next) == NULL) \
        (head)->stqh_last = &(elm)->field.stqe_next; \
    (listelm)->field.stqe_next = (elm); \
} while (/*CONSTCOND*/0)

#define STAILQ_REMOVE_HEAD(head, field) do { \

```

```

if (((head)->stqh_first = (head)->stqh_first->field.stqe_next) == NULL) \
    (head)->stqh_last = &(head)->stqh_first; \
} while (/*CONSTCOND*/0)

#define STAILQ_REMOVE(head, elm, type, field) do { \
    if ((head)->stqh_first == (elm)) { \
        STAILQ_REMOVE_HEAD((head), field); \
    } else { \
        struct type *curelm = (head)->stqh_first; \
        while (curelm->field.stqe_next != (elm)) \
            curelm = curelm->field.stqe_next; \
        if ((curelm->field.stqe_next = \
            curelm->field.stqe_next->field.stqe_next) == NULL) \
            (head)->stqh_last = &(curelm)->field.stqe_next; \
    } \
} while (/*CONSTCOND*/0)

#define STAILQ_FOREACH(var, head, field) \
    for ((var) = ((head)->stqh_first); \
        (var); \
        (var) = ((var)->field.stqe_next))

#define STAILQ_FOREACH_SAFE(var, head, field, tvar) \
    for ((var) = STAILQ_FIRST((head)); \
        (var) && ((tvar) = STAILQ_NEXT((var), field), 1); \
        (var) = (tvar))

#define STAILQ_CONCAT(head1, head2) do { \
    if (!STAILQ_EMPTY((head2))) { \
        *(head1)->stqh_last = (head2)->stqh_first; \
        (head1)->stqh_last = (head2)->stqh_last; \
        STAILQ_INIT((head2)); \
    } \
} while (/*CONSTCOND*/0)

#define STAILQ_LAST(head, type, field) \
    (STAILQ_EMPTY((head)) ? \
    NULL : \
    ((struct type *) (void *) \
    ((char *) ((head)->stqh_last) - offsetof(struct type, field))))

#ifdef _KERNEL
/*
 * Circular queue definitions. Do not use. We still keep the macros
 * for compatibility but because of pointer aliasing issues their use
 * is discouraged!
 */

```



```

/*
 * __launder_type(): We use this ugly hack to work around the the compiler
 * noticing that two types may not alias each other and elide tests in code.
 * We hit this in the CIRCLEQ macros when comparing 'struct name *' and
 * 'struct type *' (see CIRCLEQ_HEAD()). Modern compilers (such as GCC
 * 4.8) declare these comparisons as always false, causing the code to
 * not run as designed.
 *
 * This hack is only to be used for comparisons and thus can be fully const.
 * Do not use for assignment.
 *
 * If we ever choose to change the ABI of the CIRCLEQ macros, we could fix
 * this by changing the head/tail sentinel values, but see the note above
 * this one.
 */
static __inline const void * __launder_type(const void *);
static __inline const void *
__launder_type(const void *__x)
{
    __asm __volatile("" : "+r" (__x));
    return __x;
}

#if defined(QUEUEDEBUG)
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field) \
    if ((head)->cqh_first != CIRCLEQ_ENDC(head) && \
        (head)->cqh_first->field.cqe_prev != CIRCLEQ_ENDC(head)) \
        QUEUEDEBUG_ABORT("CIRCLEQ head forw %p %s:%d", (head), \
            __FILE__, __LINE__); \
    if ((head)->cqh_last != CIRCLEQ_ENDC(head) && \
        (head)->cqh_last->field.cqe_next != CIRCLEQ_ENDC(head)) \
        QUEUEDEBUG_ABORT("CIRCLEQ head back %p %s:%d", (head), \
            __FILE__, __LINE__);
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field) \
    if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) { \
        if ((head)->cqh_last != (elm)) \
            QUEUEDEBUG_ABORT("CIRCLEQ elm last %p %s:%d", \
                (elm), __FILE__, __LINE__); \
    } else { \
        if ((elm)->field.cqe_next->field.cqe_prev != (elm)) \
            QUEUEDEBUG_ABORT("CIRCLEQ elm forw %p %s:%d", \
                (elm), __FILE__, __LINE__); \
    } \
    if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) { \
        if ((head)->cqh_first != (elm)) \
            QUEUEDEBUG_ABORT("CIRCLEQ elm first %p %s:%d", \
                (elm), __FILE__, __LINE__); \
    }

```

```

} else { \
if ((elm)->field.cqe_prev->field.cqe_next != (elm)) \
    QUEUEDEBUG_ABORT("CIRCLEQ elm prev %p %s:%d", \
        (elm), __FILE__, __LINE__); \
}
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field) \
    (elm)->field.cqe_next = (void *)1L; \
    (elm)->field.cqe_prev = (void *)1L;
#else
#define QUEUEDEBUG_CIRCLEQ_HEAD(head, field)
#define QUEUEDEBUG_CIRCLEQ_ELM(head, elm, field)
#define QUEUEDEBUG_CIRCLEQ_POSTREMOVE(elm, field)
#endif

#define CIRCLEQ_HEAD(name, type) \
struct name { \
    struct type *cqh_first; /* first element */ \
    struct type *cqh_last; /* last element */ \
}

#define CIRCLEQ_HEAD_INITIALIZER(head) \
    { CIRCLEQ_END(&head), CIRCLEQ_END(&head) }

#define CIRCLEQ_ENTRY(type) \
struct { \
    struct type *cqe_next; /* next element */ \
    struct type *cqe_prev; /* previous element */ \
}

/*
 * Circular queue functions.
 */
#define CIRCLEQ_INIT(head) do { \
    (head)->cqh_first = CIRCLEQ_END(head); \
    (head)->cqh_last = CIRCLEQ_END(head); \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_INSERT_AFTER(head, listelm, elm, field) do { \
    QUEUEDEBUG_CIRCLEQ_HEAD((head), field) \
    QUEUEDEBUG_CIRCLEQ_ELM((head), (listelm), field) \
    (elm)->field.cqe_next = (listelm)->field.cqe_next; \
    (elm)->field.cqe_prev = (listelm); \
    if ((listelm)->field.cqe_next == CIRCLEQ_ENDC(head)) \
        (head)->cqh_last = (elm); \
    else \
        (listelm)->field.cqe_next->field.cqe_prev = (elm); \
    (listelm)->field.cqe_next = (elm); \
} while (/*CONSTCOND*/0)

```

```

#define CIRCLEQ_INSERT_BEFORE(head, listelm, elm, field) do { \
    QUEUEDEBDEBUG_CIRCLEQ_HEAD((head), field) \
    QUEUEDEBDEBUG_CIRCLEQ_ELM((head), (listelm), field) \
    (elm)->field.cqe_next = (listelm); \
    (elm)->field.cqe_prev = (listelm)->field.cqe_prev; \
    if ((listelm)->field.cqe_prev == CIRCLEQ_ENDC(head)) \
        (head)->cqh_first = (elm); \
    else \
        (listelm)->field.cqe_prev->field.cqe_next = (elm); \
    (listelm)->field.cqe_prev = (elm); \
} while (/*CONSTCOND*/0)

```

```

#define CIRCLEQ_INSERT_HEAD(head, elm, field) do { \
    QUEUEDEBDEBUG_CIRCLEQ_HEAD((head), field) \
    (elm)->field.cqe_next = (head)->cqh_first; \
    (elm)->field.cqe_prev = CIRCLEQ_END(head); \
    if ((head)->cqh_last == CIRCLEQ_ENDC(head)) \
        (head)->cqh_last = (elm); \
    else \
        (head)->cqh_first->field.cqe_prev = (elm); \
    (head)->cqh_first = (elm); \
} while (/*CONSTCOND*/0)

```

```

#define CIRCLEQ_INSERT_TAIL(head, elm, field) do { \
    QUEUEDEBDEBUG_CIRCLEQ_HEAD((head), field) \
    (elm)->field.cqe_next = CIRCLEQ_END(head); \
    (elm)->field.cqe_prev = (head)->cqh_last; \
    if ((head)->cqh_first == CIRCLEQ_ENDC(head)) \
        (head)->cqh_first = (elm); \
    else \
        (head)->cqh_last->field.cqe_next = (elm); \
    (head)->cqh_last = (elm); \
} while (/*CONSTCOND*/0)

```

```

#define CIRCLEQ_REMOVE(head, elm, field) do { \
    QUEUEDEBDEBUG_CIRCLEQ_HEAD((head), field) \
    QUEUEDEBDEBUG_CIRCLEQ_ELM((head), (elm), field) \
    if ((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) \
        (head)->cqh_last = (elm)->field.cqe_prev; \
    else \
        (elm)->field.cqe_next->field.cqe_prev = \
            (elm)->field.cqe_prev; \
    if ((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) \
        (head)->cqh_first = (elm)->field.cqe_next; \
    else \
        (elm)->field.cqe_prev->field.cqe_next = \
            (elm)->field.cqe_next; \
} while (/*CONSTCOND*/0)

```

```

QUEUEDEBUG_CIRCLEQ_POSTREMOVE((elm), field) \
} while (/*CONSTCOND*/0)

#define CIRCLEQ_FOREACH(var, head, field) \
for ((var) = ((head)->cqh_first); \
(var) != CIRCLEQ_ENDC(head); \
(var) = ((var)->field.cqe_next))

#define CIRCLEQ_FOREACH_REVERSE(var, head, field) \
for ((var) = ((head)->cqh_last); \
(var) != CIRCLEQ_ENDC(head); \
(var) = ((var)->field.cqe_prev))

/*
 * Circular queue access methods.
 */
#define CIRCLEQ_FIRST(head) ((head)->cqh_first)
#define CIRCLEQ_LAST(head) ((head)->cqh_last)
/* For comparisons */
#define CIRCLEQ_ENDC(head) (__laundry_type(head))
/* For assignments */
#define CIRCLEQ_END(head) ((void*)(head))
#define CIRCLEQ_NEXT(elm, field) ((elm)->field.cqe_next)
#define CIRCLEQ_PREV(elm, field) ((elm)->field.cqe_prev)
#define CIRCLEQ_EMPTY(head) \
(CIRCLEQ_FIRST(head) == CIRCLEQ_ENDC(head))

#define CIRCLEQ_LOOP_NEXT(head, elm, field) \
(((elm)->field.cqe_next == CIRCLEQ_ENDC(head)) \
? ((head)->cqh_first) \
: (elm->field.cqe_next))
#define CIRCLEQ_LOOP_PREV(head, elm, field) \
(((elm)->field.cqe_prev == CIRCLEQ_ENDC(head)) \
? ((head)->cqh_last) \
: (elm->field.cqe_prev))
#endif /* !_KERNEL */

#endif /* !_SYS_QUEUE_H_ */
/* $NetBSD: tree.h,v 1.20 2013/09/14 13:20:45 joerg Exp $ */
/* $OpenBSD: tree.h,v 1.13 2011/07/09 00:19:45 pirofti Exp $ */
/*
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\*/

```
#ifndef _SYS_TREE_H_
#define _SYS_TREE_H_
```

```
/*
 * This file defines data structures for different types of trees:
 * splay trees and red-black trees.
 *
 * A splay tree is a self-organizing data structure. Every operation
 * on the tree causes a splay to happen. The splay moves the requested
 * node to the root of the tree and partly rebalances it.
 *
 * This has the benefit that request locality causes faster lookups as
 * the requested nodes move to the top of the tree. On the other hand,
 * every lookup causes memory writes.
 *
 * The Balance Theorem bounds the total access time for m operations
 * and n inserts on an initially empty tree as  $O((m + n)\lg n)$ . The
 * amortized cost for a sequence of m accesses to a splay tree is  $O(\lg n)$ ;
 *
 * A red-black tree is a binary search tree with the node color as an
 * extra attribute. It fulfills a set of conditions:
 * - every search path from the root to a leaf consists of the
 * same number of black nodes,
 * - each red node (except for the root) has a black parent,
 * - each leaf node is black.
 *
 * Every operation on a red-black tree is bounded as  $O(\lg n)$ .
 * The maximum height of a red-black tree is  $2\lg(n+1)$ .
 */
```

```
#define SPLAY_HEAD(name, type) \
```

```

struct name {
    struct type *sph_root; /* root of the tree */
}

#define SPLAY_INITIALIZER(root)
{ NULL }

#define SPLAY_INIT(root) do {
    (root)->sph_root = NULL;
} while (/*CONSTCOND*/ 0)

#define SPLAY_ENTRY(type)
struct {
    struct type *spe_left; /* left element */
    struct type *spe_right; /* right element */
}

#define SPLAY_LEFT(elm, field) (elm)->field.spe_left
#define SPLAY_RIGHT(elm, field) (elm)->field.spe_right
#define SPLAY_ROOT(head) (head)->sph_root
#define SPLAY_EMPTY(head) (SPLAY_ROOT(head) == NULL)

/* SPLAY_ROTATE_{LEFT,RIGHT} expect that tmp hold SPLAY_{RIGHT,LEFT} */
#define SPLAY_ROTATE_RIGHT(head, tmp, field) do {
    SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(tmp, field);
    SPLAY_RIGHT(tmp, field) = (head)->sph_root;
    (head)->sph_root = tmp;
} while (/*CONSTCOND*/ 0)

#define SPLAY_ROTATE_LEFT(head, tmp, field) do {
    SPLAY_RIGHT((head)->sph_root, field) = SPLAY_LEFT(tmp, field);
    SPLAY_LEFT(tmp, field) = (head)->sph_root;
    (head)->sph_root = tmp;
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKLEFT(head, tmp, field) do {
    SPLAY_LEFT(tmp, field) = (head)->sph_root;
    tmp = (head)->sph_root;
    (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);
} while (/*CONSTCOND*/ 0)

#define SPLAY_LINKRIGHT(head, tmp, field) do {
    SPLAY_RIGHT(tmp, field) = (head)->sph_root;
    tmp = (head)->sph_root;
    (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field);
} while (/*CONSTCOND*/ 0)

#define SPLAY_ASSEMBLE(head, node, left, right, field) do {

```

```

SPLAY_RIGHT(left, field) = SPLAY_LEFT((head)->sph_root, field); \
SPLAY_LEFT(right, field) = SPLAY_RIGHT((head)->sph_root, field); \
SPLAY_LEFT((head)->sph_root, field) = SPLAY_RIGHT(node, field); \
SPLAY_RIGHT((head)->sph_root, field) = SPLAY_LEFT(node, field); \
} while (/*CONSTCOND*/ 0)

```

```

/* Generates prototypes and inline functions */

```

```

#define SPLAY_PROTOTYPE(name, type, field, cmp) \
void name##_SPLAY(struct name *, struct type *); \
void name##_SPLAY_MINMAX(struct name *, int); \
struct type *name##_SPLAY_INSERT(struct name *, struct type *); \
struct type *name##_SPLAY_REMOVE(struct name *, struct type *); \
\
/* Finds the node with the same key as elm */ \
static __inline struct type * \
name##_SPLAY_FIND(struct name *head, struct type *elm) \
{ \
if (SPLAY_EMPTY(head)) \
return(NULL); \
name##_SPLAY(head, elm); \
if ((cmp)(elm, (head)->sph_root) == 0) \
return (head->sph_root); \
return (NULL); \
} \
\
static __inline __unused struct type * \
name##_SPLAY_NEXT(struct name *head, struct type *elm) \
{ \
name##_SPLAY(head, elm); \
if (SPLAY_RIGHT(elm, field) != NULL) { \
elm = SPLAY_RIGHT(elm, field); \
while (SPLAY_LEFT(elm, field) != NULL) { \
elm = SPLAY_LEFT(elm, field); \
} \
} else \
elm = NULL; \
return (elm); \
} \
\
static __unused __inline struct type * \
name##_SPLAY_MIN_MAX(struct name *head, int val) \
{ \
name##_SPLAY_MINMAX(head, val); \
return (SPLAY_ROOT(head)); \
}

```

```

/* Main splay operation.

```

```

* Moves node close to the key of elm to top
*/
#define SPLAY_GENERATE(name, type, field, cmp) \
struct type * \
name##_SPLAY_INSERT(struct name *head, struct type *elm) \
{ \
    if (SPLAY_EMPTY(head)) { \
        SPLAY_LEFT(elm, field) = SPLAY_RIGHT(elm, field) = NULL; \
    } else { \
        int __comp; \
        name##_SPLAY(head, elm); \
        __comp = (cmp)(elm, (head)->sph_root); \
        if(__comp < 0) { \
            SPLAY_LEFT(elm, field) = SPLAY_LEFT((head)->sph_root, field);\
            SPLAY_RIGHT(elm, field) = (head)->sph_root; \
            SPLAY_LEFT((head)->sph_root, field) = NULL; \
        } else if (__comp > 0) { \
            SPLAY_RIGHT(elm, field) = SPLAY_RIGHT((head)->sph_root, field);\
            SPLAY_LEFT(elm, field) = (head)->sph_root; \
            SPLAY_RIGHT((head)->sph_root, field) = NULL; \
        } else \
            return ((head)->sph_root); \
    } \
    (head)->sph_root = (elm); \
    return (NULL); \
} \
\
struct type * \
name##_SPLAY_REMOVE(struct name *head, struct type *elm) \
{ \
    struct type *__tmp; \
    if (SPLAY_EMPTY(head)) \
        return (NULL); \
    name##_SPLAY(head, elm); \
    if ((cmp)(elm, (head)->sph_root) == 0) { \
        if (SPLAY_LEFT((head)->sph_root, field) == NULL) { \
            (head)->sph_root = SPLAY_RIGHT((head)->sph_root, field);\
        } else { \
            __tmp = SPLAY_RIGHT((head)->sph_root, field); \
            (head)->sph_root = SPLAY_LEFT((head)->sph_root, field);\
            name##_SPLAY(head, elm); \
            SPLAY_RIGHT((head)->sph_root, field) = __tmp; \
        } \
        return (elm); \
    } \
    return (NULL); \
} \
\

```



```

void      \
name##_SPLAY(struct name *head, struct type *elm) \
{      \
    struct type __node, *__left, *__right, *__tmp; \
    int __comp;      \
    \
    SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
    __left = __right = &__node;      \
    \
    while ((__comp = (cmp)(elm, (head)->sph_root)) != 0) { \
        if (__comp < 0) { \
            __tmp = SPLAY_LEFT((head)->sph_root, field); \
            if (__tmp == NULL) \
                break; \
            if ((cmp)(elm, __tmp) < 0){ \
                SPLAY_ROTATE_RIGHT(head, __tmp, field); \
                if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
                    break; \
            } \
            SPLAY_LINKLEFT(head, __right, field); \
        } else if (__comp > 0) { \
            __tmp = SPLAY_RIGHT((head)->sph_root, field); \
            if (__tmp == NULL) \
                break; \
            if ((cmp)(elm, __tmp) > 0){ \
                SPLAY_ROTATE_LEFT(head, __tmp, field); \
                if (SPLAY_RIGHT((head)->sph_root, field) == NULL)\
                    break; \
            } \
            SPLAY_LINKRIGHT(head, __left, field); \
        } \
    } \
    SPLAY_ASSEMBLE(head, &__node, __left, __right, field); \
} \
    \
/* Splay with either the minimum or the maximum element \
 * Used to find minimum or maximum element in tree. \
 */ \
void name##_SPLAY_MINMAX(struct name *head, int __comp) \
{ \
    struct type __node, *__left, *__right, *__tmp; \
    \
    SPLAY_LEFT(&__node, field) = SPLAY_RIGHT(&__node, field) = NULL;\
    __left = __right = &__node;      \
    \
    while (1) { \
        if (__comp < 0) { \
            __tmp = SPLAY_LEFT((head)->sph_root, field); \

```

```

if (__tmp == NULL) \
break; \
if (__comp < 0){ \
SPLAY_ROTATE_RIGHT(head, __tmp, field); \
if (SPLAY_LEFT((head)->sph_root, field) == NULL)\
break; \
} \
SPLAY_LINKLEFT(head, __right, field); \
} else if (__comp > 0) { \
__tmp = SPLAY_RIGHT((head)->sph_root, field); \
if (__tmp == NULL) \
break; \
if (__comp > 0) { \
SPLAY_ROTATE_LEFT(head, __tmp, field); \
if (SPLAY_RIGHT((head)->sph_root, field) == NULL)\
break; \
} \
SPLAY_LINKRIGHT(head, __left, field); \
} \
} \
SPLAY_ASSEMBLE(head, &__node, __left, __right, field); \
}

#define SPLAY_NEGINF -1
#define SPLAY_INF 1

#define SPLAY_INSERT(name, x, y) name##_SPLAY_INSERT(x, y)
#define SPLAY_REMOVE(name, x, y) name##_SPLAY_REMOVE(x, y)
#define SPLAY_FIND(name, x, y) name##_SPLAY_FIND(x, y)
#define SPLAY_NEXT(name, x, y) name##_SPLAY_NEXT(x, y)
#define SPLAY_MIN(name, x) (SPLAY_EMPTY(x) ? NULL \
: name##_SPLAY_MIN_MAX(x, SPLAY_NEGINF))
#define SPLAY_MAX(name, x) (SPLAY_EMPTY(x) ? NULL \
: name##_SPLAY_MIN_MAX(x, SPLAY_INF))

#define SPLAY_FOREACH(x, name, head) \
for ((x) = SPLAY_MIN(name, head); \
(x) != NULL; \
(x) = SPLAY_NEXT(name, head, x))

/* Macros that define a red-black tree */
#define RB_HEAD(name, type) \
struct name { \
struct type *rbh_root; /* root of the tree */ \
}

#define RB_INITIALIZER(root) \
{ NULL }

```

```

#define RB_INIT(root) do { \
    (root)->rbh_root = NULL; \
} while (/*CONSTCOND*/ 0)

#define RB_BLACK 0
#define RB_RED 1
#define RB_ENTRY(type) \
struct { \
    struct type *rbe_left; /* left element */ \
    struct type *rbe_right; /* right element */ \
    struct type *rbe_parent; /* parent element */ \
    int rbe_color; /* node color */ \
}

#define RB_LEFT(elm, field) (elm)->field.rbe_left
#define RB_RIGHT(elm, field) (elm)->field.rbe_right
#define RB_PARENT(elm, field) (elm)->field.rbe_parent
#define RB_COLOR(elm, field) (elm)->field.rbe_color
#define RB_ROOT(head) (head)->rbh_root
#define RB_EMPTY(head) (RB_ROOT(head) == NULL)

#define RB_SET(elm, parent, field) do { \
    RB_PARENT(elm, field) = parent; \
    RB_LEFT(elm, field) = RB_RIGHT(elm, field) = NULL; \
    RB_COLOR(elm, field) = RB_RED; \
} while (/*CONSTCOND*/ 0)

#define RB_SET_BLACKRED(black, red, field) do { \
    RB_COLOR(black, field) = RB_BLACK; \
    RB_COLOR(red, field) = RB_RED; \
} while (/*CONSTCOND*/ 0)

#ifndef RB_AUGMENT
#define RB_AUGMENT(x) do {} while (/*CONSTCOND*/ 0)
#endif

#define RB_ROTATE_LEFT(head, elm, tmp, field) do { \
    (tmp) = RB_RIGHT(elm, field); \
    if ((RB_RIGHT(elm, field) = RB_LEFT(tmp, field)) != NULL) { \
        RB_PARENT(RB_LEFT(tmp, field), field) = (elm); \
    } \
    RB_AUGMENT(elm); \
    if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
        if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
            RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
        else \
            RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
    } \
} while (/*CONSTCOND*/ 0)

```

```

} else \
(head)->rbh_root = (tmp); \
RB_LEFT(tmp, field) = (elm); \
RB_PARENT(elm, field) = (tmp); \
RB_AUGMENT(tmp); \
if ((RB_PARENT(tmp, field))) \
RB_AUGMENT(RB_PARENT(tmp, field)); \
} while (/*CONSTCOND*/ 0)

#define RB_ROTATE_RIGHT(head, elm, tmp, field) do { \
(tmp) = RB_LEFT(elm, field); \
if ((RB_LEFT(elm, field) = RB_RIGHT(tmp, field)) != NULL) { \
RB_PARENT(RB_RIGHT(tmp, field), field) = (elm); \
} \
RB_AUGMENT(elm); \
if ((RB_PARENT(tmp, field) = RB_PARENT(elm, field)) != NULL) { \
if ((elm) == RB_LEFT(RB_PARENT(elm, field), field)) \
RB_LEFT(RB_PARENT(elm, field), field) = (tmp); \
else \
RB_RIGHT(RB_PARENT(elm, field), field) = (tmp); \
} else \
(head)->rbh_root = (tmp); \
RB_RIGHT(tmp, field) = (elm); \
RB_PARENT(elm, field) = (tmp); \
RB_AUGMENT(tmp); \
if ((RB_PARENT(tmp, field))) \
RB_AUGMENT(RB_PARENT(tmp, field)); \
} while (/*CONSTCOND*/ 0)

/* Generates prototypes and inline functions */
#define RB_PROTOTYPE(name, type, field, cmp) \
RB_PROTOTYPE_INTERNAL(name, type, field, cmp,)
#define RB_PROTOTYPE_STATIC(name, type, field, cmp) \
RB_PROTOTYPE_INTERNAL(name, type, field, cmp, __unused static)
#define RB_PROTOTYPE_INTERNAL(name, type, field, cmp, attr) \
attr void name##_RB_INSERT_COLOR(struct name *, struct type *); \
attr void name##_RB_REMOVE_COLOR(struct name *, struct type *, struct type *); \
attr struct type *name##_RB_REMOVE(struct name *, struct type *); \
attr struct type *name##_RB_INSERT(struct name *, struct type *); \
attr struct type *name##_RB_FIND(struct name *, struct type *); \
attr struct type *name##_RB_NFIND(struct name *, struct type *); \
attr struct type *name##_RB_NEXT(struct type *); \
attr struct type *name##_RB_PREV(struct type *); \
attr struct type *name##_RB_MINMAX(struct name *, int); \
\

/* Main rb operation.
* Moves node close to the key of elm to top

```

```

*/
#define RB_GENERATE(name, type, field, cmp) \
    RB_GENERATE_INTERNAL(name, type, field, cmp,)
#define RB_GENERATE_STATIC(name, type, field, cmp) \
    RB_GENERATE_INTERNAL(name, type, field, cmp, __unused static)
#define RB_GENERATE_INTERNAL(name, type, field, cmp, attr) \
    attr void \
name##_RB_INSERT_COLOR(struct name *head, struct type *elm) \
{ \
    struct type *parent, *gparent, *tmp; \
    while ((parent = RB_PARENT(elm, field)) != NULL && \
        RB_COLOR(parent, field) == RB_RED) { \
        gparent = RB_PARENT(parent, field); \
        if (parent == RB_LEFT(gparent, field)) { \
            tmp = RB_RIGHT(gparent, field); \
            if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
                RB_COLOR(tmp, field) = RB_BLACK; \
                RB_SET_BLACKRED(parent, gparent, field); \
                elm = gparent; \
                continue; \
            } \
            if (RB_RIGHT(parent, field) == elm) { \
                RB_ROTATE_LEFT(head, parent, tmp, field); \
                tmp = parent; \
                parent = elm; \
                elm = tmp; \
            } \
            RB_SET_BLACKRED(parent, gparent, field); \
            RB_ROTATE_RIGHT(head, gparent, tmp, field); \
        } else { \
            tmp = RB_LEFT(gparent, field); \
            if (tmp && RB_COLOR(tmp, field) == RB_RED) { \
                RB_COLOR(tmp, field) = RB_BLACK; \
                RB_SET_BLACKRED(parent, gparent, field); \
                elm = gparent; \
                continue; \
            } \
            if (RB_LEFT(parent, field) == elm) { \
                RB_ROTATE_RIGHT(head, parent, tmp, field); \
                tmp = parent; \
                parent = elm; \
                elm = tmp; \
            } \
            RB_SET_BLACKRED(parent, gparent, field); \
            RB_ROTATE_LEFT(head, gparent, tmp, field); \
        } \
    } \
    RB_COLOR(head->rbh_root, field) = RB_BLACK; \
}

```

```

} \
 \
attr void \
name##_RB_REMOVE_COLOR(struct name *head, struct type *parent, struct type *elm) \
{ \
struct type *tmp; \
while ((elm == NULL || RB_COLOR(elm, field) == RB_BLACK) && \
    elm != RB_ROOT(head)) { \
if (RB_LEFT(parent, field) == elm) { \
tmp = RB_RIGHT(parent, field); \
if (RB_COLOR(tmp, field) == RB_RED) { \
RB_SET_BLACKRED(tmp, parent, field); \
RB_ROTATE_LEFT(head, parent, tmp, field);\
tmp = RB_RIGHT(parent, field); \
} \
if ((RB_LEFT(tmp, field) == NULL || \
    RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
    (RB_RIGHT(tmp, field) == NULL || \
    RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK)) {\
RB_COLOR(tmp, field) = RB_RED; \
elm = parent; \
parent = RB_PARENT(elm, field); \
} else { \
if (RB_RIGHT(tmp, field) == NULL || \
    RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK) {\
struct type *oleft; \
if ((oleft = RB_LEFT(tmp, field)) \
    != NULL) \
    RB_COLOR(oleft, field) = RB_BLACK;\
RB_COLOR(tmp, field) = RB_RED; \
RB_ROTATE_RIGHT(head, tmp, oleft, field);\
tmp = RB_RIGHT(parent, field); \
} \
RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
RB_COLOR(parent, field) = RB_BLACK; \
if (RB_RIGHT(tmp, field) \
    RB_COLOR(RB_RIGHT(tmp, field), field) = RB_BLACK;\
RB_ROTATE_LEFT(head, parent, tmp, field);\
elm = RB_ROOT(head); \
break; \
} \
} else { \
tmp = RB_LEFT(parent, field); \
if (RB_COLOR(tmp, field) == RB_RED) { \
RB_SET_BLACKRED(tmp, parent, field); \
RB_ROTATE_RIGHT(head, parent, tmp, field);\
tmp = RB_LEFT(parent, field); \
} \
}

```

```

if ((RB_LEFT(tmp, field) == NULL || \
    RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) &&\
    (RB_RIGHT(tmp, field) == NULL || \
    RB_COLOR(RB_RIGHT(tmp, field), field) == RB_BLACK)) {\
RB_COLOR(tmp, field) = RB_RED; \
elm = parent; \
parent = RB_PARENT(elm, field); \
} else { \
if (RB_LEFT(tmp, field) == NULL || \
    RB_COLOR(RB_LEFT(tmp, field), field) == RB_BLACK) {\
struct type *oright; \
if ((oright = RB_RIGHT(tmp, field)) \
    != NULL) \
    RB_COLOR(oright, field) = RB_BLACK;\
    RB_COLOR(tmp, field) = RB_RED; \
    RB_ROTATE_LEFT(head, tmp, oright, field);\
    tmp = RB_LEFT(parent, field); \
} \
RB_COLOR(tmp, field) = RB_COLOR(parent, field);\
RB_COLOR(parent, field) = RB_BLACK; \
if (RB_LEFT(tmp, field)) \
    RB_COLOR(RB_LEFT(tmp, field), field) = RB_BLACK;\
    RB_ROTATE_RIGHT(head, parent, tmp, field);\
    elm = RB_ROOT(head); \
    break; \
} \
} \
} \
if (elm) \
    RB_COLOR(elm, field) = RB_BLACK; \
} \
\
attr struct type * \
name##_RB_REMOVE(struct name *head, struct type *elm) \
{ \
    struct type *child, *parent, *old = elm; \
    int color; \
    if (RB_LEFT(elm, field) == NULL) \
        child = RB_RIGHT(elm, field); \
    else if (RB_RIGHT(elm, field) == NULL) \
        child = RB_LEFT(elm, field); \
    else { \
        struct type *left; \
        elm = RB_RIGHT(elm, field); \
        while ((left = RB_LEFT(elm, field)) != NULL) \
            elm = left; \
        child = RB_RIGHT(elm, field); \
        parent = RB_PARENT(elm, field); \

```

```

color = RB_COLOR(elm, field); \
if (child) \
  RB_PARENT(child, field) = parent; \
if (parent) { \
  if (RB_LEFT(parent, field) == elm) \
    RB_LEFT(parent, field) = child; \
  else \
    RB_RIGHT(parent, field) = child; \
  RB_AUGMENT(parent); \
} else \
  RB_ROOT(head) = child; \
if (RB_PARENT(elm, field) == old) \
  parent = elm; \
(elm)->field = (old)->field; \
if (RB_PARENT(old, field)) { \
  if (RB_LEFT(RB_PARENT(old, field), field) == old)\
    RB_LEFT(RB_PARENT(old, field), field) = elm;\
  else \
    RB_RIGHT(RB_PARENT(old, field), field) = elm;\
  RB_AUGMENT(RB_PARENT(old, field)); \
} else \
  RB_ROOT(head) = elm; \
RB_PARENT(RB_LEFT(old, field), field) = elm; \
if (RB_RIGHT(old, field)) \
  RB_PARENT(RB_RIGHT(old, field), field) = elm; \
if (parent) { \
  left = parent; \
  do { \
    RB_AUGMENT(left); \
  } while ((left = RB_PARENT(left, field)) != NULL); \
} \
goto color; \
} \
parent = RB_PARENT(elm, field); \
color = RB_COLOR(elm, field); \
if (child) \
  RB_PARENT(child, field) = parent; \
if (parent) { \
  if (RB_LEFT(parent, field) == elm) \
    RB_LEFT(parent, field) = child; \
  else \
    RB_RIGHT(parent, field) = child; \
  RB_AUGMENT(parent); \
} else \
  RB_ROOT(head) = child; \
color: \
if (color == RB_BLACK) \
  name##_RB_REMOVE_COLOR(head, parent, child); \

```



```

return (old); \
} \
\
/* Inserts a node into the RB tree */ \
attr struct type * \
name##_RB_INSERT(struct name *head, struct type *elm) \
{ \
    struct type *tmp; \
    struct type *parent = NULL; \
    int comp = 0; \
    tmp = RB_ROOT(head); \
    while (tmp) { \
        parent = tmp; \
        comp = (cmp)(elm, parent); \
        if (comp < 0) \
            tmp = RB_LEFT(tmp, field); \
        else if (comp > 0) \
            tmp = RB_RIGHT(tmp, field); \
        else \
            return (tmp); \
    } \
    RB_SET(elm, parent, field); \
    if (parent != NULL) { \
        if (comp < 0) \
            RB_LEFT(parent, field) = elm; \
        else \
            RB_RIGHT(parent, field) = elm; \
        RB_AUGMENT(parent); \
    } else \
        RB_ROOT(head) = elm; \
    name##_RB_INSERT_COLOR(head, elm); \
    return (NULL); \
} \
\
/* Finds the node with the same key as elm */ \
attr struct type * \
name##_RB_FIND(struct name *head, struct type *elm) \
{ \
    struct type *tmp = RB_ROOT(head); \
    int comp; \
    while (tmp) { \
        comp = cmp(elm, tmp); \
        if (comp < 0) \
            tmp = RB_LEFT(tmp, field); \
        else if (comp > 0) \
            tmp = RB_RIGHT(tmp, field); \
        else \
            return (tmp); \
    } \
}

```

```

} \
return (NULL); \
} \
\
/* Finds the first node greater than or equal to the search key */\
attr struct type * \
name##_RB_NFIND(struct name *head, struct type *elm) \
{ \
    struct type *tmp = RB_ROOT(head); \
    struct type *res = NULL; \
    int comp; \
    while (tmp) { \
        comp = cmp(elm, tmp); \
        if (comp < 0) { \
            res = tmp; \
            tmp = RB_LEFT(tmp, field); \
        } \
        else if (comp > 0) \
            tmp = RB_RIGHT(tmp, field); \
        else \
            return (tmp); \
    } \
    return (res); \
} \
\
/* ARGSUSED */ \
attr struct type * \
name##_RB_NEXT(struct type *elm) \
{ \
    if (RB_RIGHT(elm, field)) { \
        elm = RB_RIGHT(elm, field); \
        while (RB_LEFT(elm, field)) \
            elm = RB_LEFT(elm, field); \
    } else { \
        if (RB_PARENT(elm, field) && \
            (elm == RB_LEFT(RB_PARENT(elm, field), field))) \
            elm = RB_PARENT(elm, field); \
        else { \
            while (RB_PARENT(elm, field) && \
                (elm == RB_RIGHT(RB_PARENT(elm, field), field))) \
                elm = RB_PARENT(elm, field); \
            elm = RB_PARENT(elm, field); \
        } \
    } \
    return (elm); \
} \
\
/* ARGSUSED */ \

```

```

attr struct type * \
name##_RB_PREV(struct type *elm) \
{ \
if (RB_LEFT(elm, field)) { \
elm = RB_LEFT(elm, field); \
while (RB_RIGHT(elm, field)) \
elm = RB_RIGHT(elm, field); \
} else { \
if (RB_PARENT(elm, field) && \
(elm == RB_RIGHT(RB_PARENT(elm, field), field))) \
elm = RB_PARENT(elm, field); \
else { \
while (RB_PARENT(elm, field) && \
(elm == RB_LEFT(RB_PARENT(elm, field), field))) \
elm = RB_PARENT(elm, field); \
elm = RB_PARENT(elm, field); \
} \
} \
return (elm); \
} \
\
attr struct type * \
name##_RB_MINMAX(struct name *head, int val) \
{ \
struct type *tmp = RB_ROOT(head); \
struct type *parent = NULL; \
while (tmp) { \
parent = tmp; \
if (val < 0) \
tmp = RB_LEFT(tmp, field); \
else \
tmp = RB_RIGHT(tmp, field); \
} \
return (parent); \
}

#define RB_NEGINF -1
#define RB_INF 1

#define RB_INSERT(name, x, y) name##_RB_INSERT(x, y)
#define RB_REMOVE(name, x, y) name##_RB_REMOVE(x, y)
#define RB_FIND(name, x, y) name##_RB_FIND(x, y)
#define RB_NFIND(name, x, y) name##_RB_NFIND(x, y)
#define RB_NEXT(name, x, y) name##_RB_NEXT(y)
#define RB_PREV(name, x, y) name##_RB_PREV(y)
#define RB_MIN(name, x) name##_RB_MINMAX(x, RB_NEGINF)
#define RB_MAX(name, x) name##_RB_MINMAX(x, RB_INF)

```

```

#define RB_FOREACH(x, name, head) \
for ((x) = RB_MIN(name, head); \
(x) != NULL; \
(x) = name##_RB_NEXT(x))

#define RB_FOREACH_FROM(x, name, y) \
for ((x) = (y); \
((x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
(x) = (y))

#define RB_FOREACH_SAFE(x, name, head, y) \
for ((x) = RB_MIN(name, head); \
(x) != NULL) && ((y) = name##_RB_NEXT(x), (x) != NULL); \
(x) = (y))

#define RB_FOREACH_REVERSE(x, name, head) \
for ((x) = RB_MAX(name, head); \
(x) != NULL; \
(x) = name##_RB_PREV(x))

#define RB_FOREACH_REVERSE_FROM(x, name, y) \
for ((x) = (y); \
((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
(x) = (y))

#define RB_FOREACH_REVERSE_SAFE(x, name, head, y) \
for ((x) = RB_MAX(name, head); \
((x) != NULL) && ((y) = name##_RB_PREV(x), (x) != NULL); \
(x) = (y))

#endif /* _SYS_TREE_H_ */

```

## 1.562 libcap 2.25 :r0

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Theodore Ts'o  
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General

Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square



root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

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Ty Coon, President of Vice

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Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;'/'\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"



```
@$(INSTALL_PROGRAM) $(BSD_LIB) \  
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)  
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

clean::

```
$(RM) -rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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Gadi Oxman, August 1995

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Version 2, June 1991

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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Theodore Ts'o  
23-June-2007

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```
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This is free software, and you are welcome to redistribute it
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```

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<signature of Ty Coon>, 1 April 1990  
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Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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\*\* NOTE! The following LGPL license applies to the tdb

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's/lib/;'/`/\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \



```
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

clean::

```
$(RM) -rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

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Gadi Oxman, August 1995

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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## 1.565 libcrypto 1.0-1.0.2j :r0

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# 1.567 libcurl 7.50.3 :r0

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=====

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# 1.568 libedit 0.33.0 :2009-09-05 Jess Thrysoee

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## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dossier provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.

Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.  
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.  
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

```
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{ } 2007 Free Software Foundation, Inc.
```

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```
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
```

```
@c This file is intended to be included in another file.
```

```
@display
Copyright @copyright{ } 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
```

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```
@end display
```

```
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```

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@enumerate 0

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@item

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@item

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@item

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@item

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@item

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@smallexample

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```
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```

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```
@c man end
@ignore
@c Set file name and title for man page.
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
gpl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}
```

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```
@c This file is intended to be included within another document,
@c hence no sectioning command or @node.
@c man end
@end ignore
@c Special handling for inclusion in the install manual.
@ifset gfdlhtml
```

```

@ifnohtml
@comment node-name, next, previous, up
@node GNU Free Documentation License, Concept Index, Old, Top
@end ifnohtml
@html
<h1 align="center">Installing GCC: GNU Free Documentation License</h1>
@end html
@ifnohtml
@unnumbered GNU Free Documentation License
@end ifnohtml
@end ifset
@c man begin DESCRIPTION
@ifclear gfdlhtml
@node GNU Free Documentation License
@unnumbered GNU Free Documentation License
@end ifclear

@cindex FDL, GNU Free Documentation License
@center Version 1.3, 3 November 2008

@display
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```

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@item

Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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@appendixsubsec How to Apply These Terms to Your New Libraries

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@smallexample

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@end smallexample

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@smallexample

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice

@end smallexample

That's all there is to it!

# 1.572 libgomp 5.3.0 :r0

## 1.572.1 Available under license :

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Version 3, 29 June 2007

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Developed by:

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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely



due to Vernon Lee, on machines made available to Rice by IBM.  
Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.  
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.  
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.  
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and  
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.  
Thomas Funke (thf@zelator.in-berlin.de(?)) and  
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.  
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.  
Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.  
Alistair G. Crooks(agg@uts.amdahl.com) supplied the NetBSD and 386BSD ports.  
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.  
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk).  
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task).  
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.  
David Chase, then at Olivetti Research, suggested several improvements.  
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC.  
Jesse Hull and John Ellis supplied the C++ interface code.  
Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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Version 2.1, February 1999

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```
@c man end
@ignore
@c Set file name and title for man page.
@setfilename gfdl
```

```
@settitle GNU Free Documentation License
@c man begin SEEALSO
gpl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{ } 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}
```

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```
@c This file is intended to be included within another document,
@c hence no sectioning command or @node.
```

```
@c man end
```

```
@end ignore
```

```
@c Special handling for inclusion in the install manual.
```

```
@ifset gfdlhtml
```

```
@ifnohtml
```

```
@comment node-name, next, previous, up
```

```
@node GNU Free Documentation License, Concept Index, Old, Top
```

```
@end ifnohtml
```

```
@html
```

```
<h1 align="center">Installing GCC: GNU Free Documentation License</h1>
```

```
@end html
```

```
@ifnohtml
```

```
@unnumbered GNU Free Documentation License
```

```
@end ifnohtml
```

```
@end ifset
```

```
@c man begin DESCRIPTION
```

```
@ifclear gfdlhtml
```

```
@node GNU Free Documentation License
```

```
@unnumbered GNU Free Documentation License
```

```
@end ifclear
```

```
@cindex FDL, GNU Free Documentation License
```

```
@center Version 1.3, 3 November 2008
```

```
@display
```

```
Copyright @copyright{ } 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
```

```
@uref{http://fsf.org/}
```

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```
@end display
```

```
@enumerate 0
```

```
@item
```

```
PREAMBLE
```

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

@c man end

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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```
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```
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```

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Ty Coon, President of Vice
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H:Oed 18uyMQ9]FO6
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BS=)d ;\*!;\_>KfB }&ea)F~H#@|DExb  
Fw=|  
;}8SPT"\_p;27 \*D-sS|11np#\_(~\*uM%S61opMG`B=gD7~`rFTvDY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d  
;\*!;\_>KfBqxY(F|0.Ve%S61opMG`YfRXx+sS|11np#\_(~\*uM%S61opMG`YfRXvY[R+t[ BS=)d  
;\*!;\_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d ;\*!;\_>KfBqxY(F|0.Ve%Q?f\_+T@Uo)2fgYZ

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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## 1.582 libsasl 2.1.26 :r7

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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This is an attempt to acknowledge early contributions to the garbage collector. Later contributions should instead be mentioned in README.changes.

## HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser.

The Encore Multimax modifications were supplied by

Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM.

Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood.

Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.

Al Dossier (dossier@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code.

Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and

Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.

Thomas Funke (thf@zelator.in-berlin.de(?)) and

Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.

Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.

Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code. Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's

complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote



it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library

creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the

Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the

Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

```
This library is free software; you can redistribute it and/or  
modify it under the terms of the GNU Lesser General Public  
License as published by the Free Software Foundation; either  
version 2.1 of the License, or (at your option) any later version.
```

```
This library is distributed in the hope that it will be useful,  
but WITHOUT ANY WARRANTY; without even the implied warranty of  
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
```

Lesser General Public License for more details.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

```
@ignore
@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{ } 2007 Free Software Foundation, Inc.
```

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

```
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
```

```
@c This file is intended to be included in another file.
```

```
@display
Copyright @copyright{ } 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
```

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

```
@end display
```

@heading Preamble

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for



individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

@heading TERMS AND CONDITIONS

@enumerate 0

@item Definitions.

``This License" refers to version 3 of the GNU General Public License.

``Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

``The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as ``you". ``Licensees" and ``recipients" may be individuals or organizations.

To ``modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a ``modified version" of the earlier work or a work ``based on" the earlier work.

A ``covered work" means either the unmodified Program or a work based on the Program.

To ``propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To ``convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user

through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

@item Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can

regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

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@item Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

@enumerate a

@item

The work must carry prominent notices stating that you modified it, and giving a relevant date.

@item

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to ``keep intact all notices".

@item

You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

@item

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

@end enumerate

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program,

in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

@item Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

@enumerate a

@item

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@item

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

@item

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports

equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

@end enumerate

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```
@c man end
@ignore
@c Set file name and title for man page.
@setfilename gfdl
@settitle GNU Free Documentation License
@c man begin SEEALSO
gpl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{} 2000, 2001, 2002, 2007, 2008 Free Software Foundation, Inc.
@uref{http://fsf.org/}
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@c hence no sectioning command or @node.
```

```
@c man end
@end ignore
@c Special handling for inclusion in the install manual.
@ifset gfdlhtml
@ifnohtml
@comment node-name, next, previous, up
@node GNU Free Documentation License, Concept Index, Old, Top
@end ifnohtml
@html
<h1 align="center">Installing GCC: GNU Free Documentation License</h1>
@end html
@ifnohtml
@unnumbered GNU Free Documentation License
@end ifnohtml
@end ifset
@c man begin DESCRIPTION
@ifclear gfdlhtml
@node GNU Free Documentation License
@unnumbered GNU Free Documentation License
@end ifclear
```

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@center Version 1.3, 3 November 2008
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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

@c man end

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@center END OF TERMS AND CONDITIONS
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@page
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## 1.587 libtasn1 4.8

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<signature of Ty Coon>, 1 April 1990  
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</head>

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(last updated 14-Aug-1998  
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)

## 1.595 libwww/modules/expat 5.4.0

### 1.595.1 Available under license :

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  14-Aug-1998<!--webbot bot="Timestamp"
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  )
</address>
</body>
</html>
/*
```

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```
*/
```

```
#include "xmldef.h"
```

```
#ifdef XML_UNICODE_WCHAR_T
#ifndef XML_UNICODE
#define XML_UNICODE
#endif
#endif
#endif
```

```

#include "hashtable.h"

#define INIT_SIZE 64

static
int keyeq(KEY s1, KEY s2)
{
    for (; *s1 == *s2; s1++, s2++)
        if (*s1 == 0)
            return 1;
    return 0;
}

static
unsigned long hash(KEY s)
{
    unsigned long h = 0;
    while (*s)
        h = (h << 5) + h + (unsigned char)*s++;
    return h;
}

NAMED *lookup(HASH_TABLE *table, KEY name, size_t createSize)
{
    size_t i;
    if (table->size == 0) {
        if (!createSize)
            return 0;
        table->v = calloc(INIT_SIZE, sizeof(NAMED *));
        if (!table->v)
            return 0;
        table->size = INIT_SIZE;
        table->usedLim = INIT_SIZE / 2;
        i = hash(name) & (table->size - 1);
    }
    else {
        unsigned long h = hash(name);
        for (i = h & (table->size - 1);
            table->v[i];
            i == 0 ? i = table->size - 1 : --i) {
            if (keyeq(name, table->v[i]->name))
                return table->v[i];
        }
        if (!createSize)
            return 0;
        if (table->used == table->usedLim) {
            /* check for overflow */

```

```

    size_t newSize = table->size * 2;
    NAMED **newV = calloc(newSize, sizeof(NAMED *));
    if (!newV)
return 0;
    for (i = 0; i < table->size; i++)
if (table->v[i]) {
    size_t j;
    for (j = hash(table->v[i]->name) & (newSize - 1);
        newV[j];
        j == 0 ? j = newSize - 1 : --j)
        ;
    newV[j] = table->v[i];
}
    free(table->v);
    table->v = newV;
    table->size = newSize;
    table->usedLim = newSize/2;
    for (i = h & (table->size - 1);
        table->v[i];
        i == 0 ? i = table->size - 1 : --i)
        ;
    }
}
table->v[i] = calloc(1, createSize);
if (!table->v[i])
    return 0;
table->v[i]->name = name;
(table->used)++;
return table->v[i];
}

```

```

void hashTableDestroy(HASH_TABLE *table)
{
    size_t i;
    for (i = 0; i < table->size; i++) {
        NAMED *p = table->v[i];
        if (p)
            free(p);
    }
    free(table->v);
}

```

```

void hashTableInit(HASH_TABLE *p)
{
    p->size = 0;
    p->usedLim = 0;
    p->used = 0;
    p->v = 0;
}

```

```

}

void hashTableIterInit(HASH_TABLE_ITER *iter, const HASH_TABLE *table)
{
    iter->p = table->v;
    iter->end = iter->p + table->size;
}

NAMED *hashTableIterNext(HASH_TABLE_ITER *iter)
{
    while (iter->p != iter->end) {
        NAMED *tem = *(iter->p)++;
        if (tem)
            return tem;
    }
    return 0;
}

```

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Version 1.1

-----

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for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
line to the DVB mailing list)

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
*
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```

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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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## 1.613 logback-classic.jar 1.1.7

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=====

Building logback is documented at:

<http://logback.qos.ch/setup.html#ide>

In case of problems

=====

In case of problems please do not hesitate to post an e-mail message on the logback-user@qos.ch mailing list. However, please do not directly e-mail logback developers. The answer to your question might be useful to other users. Moreover, there are many knowledgeable users on the logback-user mailing lists who can quickly answer your questions.

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=====

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# 1.617 lua5.2-libs 5.2.4 :r2

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```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<HTML>
<HEAD>
<TITLE>Lua 5.2 readme</TITLE>
<LINK REL="stylesheet" TYPE="text/css" HREF="lua.css">
<META HTTP-EQUIV="content-type" CONTENT="text/html; charset=iso-8859-1">
<STYLE TYPE="text/css">
blockquote, .display {
border: solid #a0a0a0 2px ;
border-radius: 8px ;
padding: 1em ;
margin: 0px ;
}

.display {
word-spacing: 0.25em ;
}

dl.display dd {
padding-bottom: 0.2em ;
}

tt, kbd, code {
font-size: 12pt ;
}
</STYLE>
</HEAD>

<BODY>

<HR>
<H1>
<A HREF="http://www.lua.org/"><IMG SRC="logo.gif" ALT="Lua" BORDER=0></A>
Welcome to Lua 5.2
</H1>

<P>
<A HREF="#about">about</A>
&middot;
<A HREF="#install">installation</A>
&middot;
<A HREF="#changes">changes</A>
&middot;
```

[license](#)  
&middot;  
[reference manual](#)

[About Lua](#)

<P>

Lua is a powerful, fast, lightweight, embeddable scripting language developed by a

[team](#)

at

[PUC-Rio](#),

the Pontifical Catholic University of Rio de Janeiro in Brazil.

Lua is

[free software](#)

used in many products and projects around the world.

<P>

Lua's

[official web site](#)

provides complete information

about Lua,

including

an

[executive summary](#)

and

updated

[documentation](#),

especially the

[reference manual](#),

which may differ slightly from the

[local copy](#)

distributed in this package.

[Installing Lua](#)

<P>

Lua is distributed in

[source](#)

form.

You need to build it before using it.

Building Lua should be straightforward

because

Lua is implemented in pure ANSI C and compiles unmodified in all known platforms that have an ANSI C compiler.

Lua also compiles unmodified as C++.

The instructions given below for building Lua are for Unix-like platforms.

See also

<A HREF="#other">instructions for other systems</A>  
and  
<A HREF="#customization">customization options</A>.

<P>

If you don't have the time or the inclination to compile Lua yourself,  
get a binary from

<A HREF="http://lua-users.org/wiki/LuaBinaries">LuaBinaries</A>.

Try also

<A HREF="http://luadist.org/">LuaDist</A>,

a multi-platform distribution of Lua that includes batteries.

<H3>Building Lua</H3>

<P>

In most Unix-like platforms, simply do "<KBD>make</KBD>" with a suitable target.  
Here are the details.

<OL>

<LI>

Open a terminal window and move to  
the top-level directory, which is named <TT>lua-5.2.x</TT>.

The <TT>Makefile</TT> there controls both the build process and the installation process.

<P>

<LI>

Do "<KBD>make</KBD>" and see if your platform is listed.

The platforms currently supported are:

<P>

<P CLASS="display">

aix ansi bsd freebsd generic linux macosx mingw posix solaris

</P>

<P>

If your platform is listed, just do "<KBD>make xxx</KBD>", where xxx  
is your platform name.

<P>

If your platform is not listed, try the closest one or posix, generic,  
ansi, in this order.

<P>

<LI>

The compilation takes only a few moments  
and produces three files in the <TT>src</TT> directory:

lua (the interpreter),

luac (the compiler),

and liblua.a (the library).

<P>

<LI>

To check that Lua has been built correctly, do "<KBD>make test</KBD>"  
after building Lua. This will run the interpreter and print its version.

</OL>

<P>

If you're running Linux and get compilation errors, make sure you have installed the <TT>readline</TT> development package (which is probably named <TT>libreadline-dev</TT> or <TT>readline-devel</TT>).

If you get link errors after that, then try "`make linux MYLIBS=-ltermcap`".

### Installing Lua

<P>

Once you have built Lua, you may want to install it in an official place in your system. In this case, do "`make install`". The official place and the way to install files are defined in the <TT>Makefile</TT>. You'll probably need the right permissions to install files.

<P>

To build and install Lua in one step, do "`make xxx install`", where xxx is your platform name.

<P>

To install Lua locally, do "`make local`".

This will create a directory <TT>install</TT> with subdirectories <TT>bin</TT>, <TT>include</TT>, <TT>lib</TT>, <TT>man</TT>, <TT>share</TT>, and install Lua as listed below.

To install Lua locally, but in some other directory, do "`make install INSTALL_TOP=xxx`", where xxx is your chosen directory. The installation starts in the <TT>src</TT> and <TT>doc</TT> directories, so take care if <TT>INSTALL\_TOP</TT> is not an absolute path.

<DL CLASS="display">

<DT>

bin:

<DD>

lua luac

<DT>

include:

<DD>

lua.h luaconf.h lualib.h lauxlib.h lua.hpp

<DT>

lib:

<DD>

liblua.a

<DT>

man/man1:

<DD>

lua.1 luac.1

</DL>

<P>

These are the only directories you need for development.

If you only want to run Lua programs,  
you only need the files in `<TT>bin</TT>` and `<TT>man</TT>`.

The files in `<TT>include</TT>` and `<TT>lib</TT>` are needed for  
embedding Lua in C or C++ programs.

### <H3><A NAME="customization">Customization</A></H3>

<P>

Three kinds of things can be customized by editing a file:

<UL>

<LI> Where and how to install Lua &mdash; edit `<TT>Makefile</TT>`.

<LI> How to build Lua &mdash; edit `<TT>src/Makefile</TT>`.

<LI> Lua features &mdash; edit `<TT>src/luacnf.h</TT>`.

</UL>

<P>

You don't actually need to edit the Makefiles because you may set the  
relevant variables in the command line when invoking make.

Nevertheless, it's probably best to edit and save the Makefiles to  
record the changes you've made.

<P>

On the other hand, if you need to customize some Lua features, you'll need  
to edit `<TT>src/luacnf.h</TT>` before building and installing Lua.

The edited file will be the one installed, and

it will be used by any Lua clients that you build, to ensure consistency.

Further customization is available to experts by editing the Lua sources.

<P>

We strongly recommend that you enable dynamic loading in `<TT>src/luacnf.h</TT>`.

This is done automatically for all platforms listed above that have  
this feature and also for Windows.

### <H3><A NAME="other">Building Lua on other systems</A></H3>

<P>

If you're not using the usual Unix tools, then the instructions for  
building Lua depend on the compiler you use. You'll need to create  
projects (or whatever your compiler uses) for building the library,  
the interpreter, and the compiler, as follows:

<DL CLASS="display">

<DT>

library:

<DD>

lapi.c lcode.c lctype.c ldebug.c ldo.c ldump.c lfunc.c lgc.c llex.c

lmem.c lobject.c lopcodes.c lparser.c lstate.c lstring.c ltable.c  
ltm.c lundump.c lvm.c lzio.c  
lauxlib.c lbaselib.c lbitlib.c lcorolib.c ldblib.c liolib.c  
lmathlib.c loslib.c lstrlib.c ltablib.c loadlib.c linit.c

<DT>

interpreter:

<DD>

library, lua.c

<DT>

compiler:

<DD>

library, luac.c

</DL>

<P>

To use Lua as a library in your own programs you'll need to know how to create and use libraries with your compiler. Moreover, to dynamically load C libraries for Lua you'll need to know how to create dynamic libraries and you'll need to make sure that the Lua API functions are accessible to those dynamic libraries &mdash; but *don't* link the Lua library into each dynamic library. For Unix, we recommend that the Lua library be linked statically into the host program and its symbols exported for dynamic linking; `src/Makefile` does this for the Lua interpreter. For Windows, we recommend that the Lua library be a DLL. In all cases, the compiler `luac` should be linked statically.

<P>

As mentioned above, you may edit `src/luaconf.h` to customize some features before building Lua.

<H2><A NAME="changes">Changes since Lua 5.1</A></H2>

<P>

Here are the main changes introduced in Lua 5.2.

The

[reference manual](contents.html)

lists the

[incompatibilities](manual.html#8) that had to be introduced.

<H3>Main changes</H3>

<UL>

<LI> yieldable `pcall` and metamethods

<LI> new lexical scheme for globals

<LI> ephemeron tables

<LI> new library for bitwise operations

<LI> light C functions

<LI> emergency garbage collector

<LI> `goto` statement

- <LI> finalizers for tables

- </UL>

Here are the other changes introduced in Lua 5.2:

### <H3>Language</H3>

- <UL>

- <LI> no more fenv for threads or functions

- <LI> tables honor the <CODE>\_\_len</CODE> metamethod

- <LI> hex and <CODE>\z</CODE> escapes in strings

- <LI> support for hexadecimal floats

- <LI> order metamethods work for different types

- <LI> no more verification of opcode consistency

- <LI> hook event "tail return" replaced by "tail call"

- <LI> empty statement

- <LI> <CODE>break</CODE> statement may appear in the middle of a block

- </UL>

### <H3>Libraries</H3>

- <UL>

- <LI> arguments for function called through <CODE>xpcall</CODE>

- <LI> optional 'mode' argument to load and loadfile (to control binary x text)

- <LI> optional 'env' argument to load and loadfile (environment for loaded chunk)

- <LI> <CODE>loadlib</CODE> may load libraries with global names (RTLD\_GLOBAL)

- <LI> new function <CODE>package.searchpath</CODE>

- <LI> modules receive their paths when loaded

- <LI> optional base in <CODE>math.log</CODE>

- <LI> optional separator in <CODE>string.rep</CODE>

- <LI> <CODE>file:write</CODE> returns <CODE>file</CODE>

- <LI> closing a pipe returns exit status

- <LI> <CODE>os.exit</CODE> may close state

- <LI> new metamethods <CODE>\_\_pairs</CODE> and <CODE>\_\_ipairs</CODE>

- <LI> new option 'isrunning' for <CODE>collectgarbage</CODE> and <CODE>lua\_gc</CODE>

- <LI> frontier patterns

- <LI> <CODE>|0</CODE> in patterns

- <LI> new option <CODE>\*L</CODE> for <CODE>io.read</CODE>

- <LI> options for <CODE>io.lines</CODE>

- <LI> <CODE>debug.getlocal</CODE> can access function varargs

- </UL>

### <H3>C API</H3>

- <UL>

- <LI> main thread predefined in the registry

- <LI> new functions

- <CODE>lua\_absindex</CODE>,</li>

- <CODE>lua\_arith</CODE>,</li>

- <CODE>lua\_compare</CODE>,</li>

- <CODE>lua\_copy</CODE>,</li>

- <CODE>lua\_len</CODE>,</li>

- <CODE>lua\_rawgetp</CODE>,</li><li><CODE>lua\_rawsetp</CODE>,</li><li><CODE>lua\_upvalueid</CODE>,</li><li><CODE>lua\_upvaluejoin</CODE>,</li><li><CODE>lua\_version</CODE>.</li><li><LI> new functions</li><li><CODE>luaL\_checkversion</CODE>,</li><li><CODE>luaL\_setmetatable</CODE>,</li><li><CODE>luaL\_testudata</CODE>,</li><li><CODE>luaL\_tolstring</CODE>.</li><li><LI> <CODE>lua\_pushstring</CODE> and <CODE>pushlstring</CODE> return string</li><li><LI> <CODE>nparams</CODE> and <CODE>isvararg</CODE> available in debug API</li><li><LI> new <CODE>lua\_Unsigned</CODE></li></ul></div><div data-bbox="147 314 343 330" data-label="Section-Header"><H3>Implementation</H3></div><div data-bbox="147 333 584 471" data-label="Text"><ul style="list-style-type: none;"><li><LI> max constants per function raised to 2<SUP>26</SUP></li><li><LI> generational mode for garbage collection (experimental)</li><li><LI> NaN trick (experimental)</li><li><LI> internal (immutable) version of ctypes</li><li><LI> simpler implementation for string buffers</li><li><LI> parser uses much less C-stack space (no more auto arrays)</li></ul></div><div data-bbox="147 493 413 508" data-label="Section-Header"><H3>Lua standalone interpreter</H3></div><div data-bbox="147 512 634 578" data-label="Text"><ul style="list-style-type: none;"><li><LI> new <CODE>-E</CODE> option to avoid environment variables</li><li><LI> handling of non-string error messages</li></ul></div><div data-bbox="147 600 480 614" data-label="Section-Header"><H2><A NAME="license">License</A></H2></div><div data-bbox="147 618 574 633" data-label="Text"><A HREF="http://www.opensource.org/docs/definition.php"></div><div data-bbox="147 636 949 668" data-label="Text"><IMG SRC="osi-certified-72x60.png" ALIGN="right" BORDER="0" ALT="[osi certified]" STYLE="padding-left: 30px ;"></div><div data-bbox="147 672 190 686" data-label="Text"></A></div><div data-bbox="147 707 183 721" data-label="Text"><P></div><div data-bbox="147 725 516 738" data-label="Text">Lua is free software distributed under the terms of the</div><div data-bbox="147 743 729 758" data-label="Text"><A HREF="http://www.opensource.org/licenses/mit-license.html">MIT license</A></div><div data-bbox="147 761 280 775" data-label="Text">reproduced below;</div><div data-bbox="147 778 584 793" data-label="Text">it may be used for any purpose, including commercial purposes,</div><div data-bbox="147 796 464 811" data-label="Text">at absolutely no cost without having to ask us.</div><div data-bbox="147 831 470 846" data-label="Text">The only requirement is that if you do use Lua,</div><div data-bbox="147 849 897 881" data-label="Text">then you should give us credit by including the appropriate copyright notice somewhere in your product or its documentation.</div><div data-bbox="104 930 469 944" data-label="Page-Footer"><hr/>Open Source Used In Cisco Identity Services Engine 2.2</div><div data-bbox="71 944 108 958" data-label="Page-Footer">5012</div>



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</BODY>

</HTML>

## 1.618 luajit 2.0.4 :r0

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

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- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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## 1.624 mapstructure git :r0.0

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## 1.625 mariadb-connector-j 1.4.5

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## 1.626 [mgo github.com/dgrijalva/jwt-go](https://github.com/dgrijalva/jwt-go)

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BSON library for Go

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mgo - MongoDB driver for Go

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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zlib.h -- interface of the 'zlib' general purpose compression library  
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Written by: Philip Hazel  
Email local part: ph10  
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## 1.640 mongodb(npm) 2.0.49

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# 1.641 mongodb-tools r3.2.4

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tomb - support for clean goroutine termination in Go.

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BSON library for Go

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mgo - MongoDB driver for Go

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```
// +build freebsd openbsd netbsd
```

```
package gopass
```

```
/*
```

```
#include <termios.h>
```

```
#include <unistd.h>
```

```
#include <stdio.h>
```

```
int getch() {
```

```
    int ch;
```

```
    struct termios t_old, t_new;
```

```
    tcgetattr(STDIN_FILENO, &t_old);
```

```
    t_new = t_old;
```

```
    t_new.c_lflag &= ~(ICANON | ECHO);
```

```
    tcsetattr(STDIN_FILENO, TCSANOW, &t_new);
```

```
    ch = getchar();
```

```
    tcsetattr(STDIN_FILENO, TCSANOW, &t_old);
```

```
    return ch;
```

```
}
```

```
*/  
import "C"  
  
func getch() byte {  
    return byte(C.getch())  
}  
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```

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mgo - MongoDB driver for Go

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BSON library for Go

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## 1.649 mtools 4.0.18 :r1

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## 1.651 musl-dev 1.1.14 :r14

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# 1.654 ncurses-libs 6.0 :r7

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# 1.655 ncurses-terminfo 6.0 :r7

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Upstream source <http://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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# 1.657 neethi 2.0.4

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## 1.658 negroni

# github.com/codegangsta/negroni

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```

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Email local part: ph10  
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Table of Contents

\* GNU GENERAL PUBLIC LICENSE

- o Preamble
- o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
- o How to Apply These Terms to Your New Programs

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On all platforms, Nmap is normally linked with:

- o libpcap: Network packet capture library. Distributed with Nmap in the libpcap subdirectory.  
<http://www.tcpdump.org/>
- o libdnet: Networking library, used for low-level tasks such as sending ethernet frames. A modified version is distributed with Nmap in the libdnet-stripped subdirectory. A summary of Nmap-local modifications is in the file NMAP\_MODIFICATIONS.  
<http://code.google.com/p/libdnet/>
- o PCRE: Perl-compatible regular expressions. PCRE is part of Nmap's version detection and is also made available as an NSE library. Distributed with Nmap in the libpcre subdirectory.  
<http://www.pcre.org/>
- o liblua: Lua programming language. Lua is the implementation language of NSE, the Nmap Scripting Engine. Nmap links with liblua to allow running Lua programs inside Nmap. Distributed with Nmap in the liblua subdirectory. liblua can be omitted by configuring with the `--without-liblua` configuration directive.  
<http://www.lua.org/>
- o OpenSSL: Cryptographic library. OpenSSL is used by service detection and by NSE to connect to SSL services. NSE also provides access to OpenSSL functions such as encryption and digest calculation. OpenSSL can be disabled by configuring with the `--without-openssl` configuration directive.  
<http://www.openssl.org/>
- o LIBLINEAR. Used for IPv6 OS classification.  
<http://www.csie.ntu.edu.tw/~cjlin/liblinear/>
- o libsvn. The Subversion library, used by the updater program `nmap-update`. <http://subversion.apache.org/>
- o APR (Apache Portable Runtime). Used by libsvn. <http://apr.apache.org/>

On Windows only, Nmap uses:

- o WinPcap: libpcap for Windows. The libpcap license applies to WinPcap,

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- o Python. The binary distributions of Nmap include a Python interpreter and various libraries, built using either py2exe or py2app.  
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## THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
Email local part: ph10  
Email domain: cam.ac.uk

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and

is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a



derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a

medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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### Table of Contents

#### \* GNU GENERAL PUBLIC LICENSE

- o Preamble
- o TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
- o How to Apply These Terms to Your New Programs

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\*

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## 1.679 node-ping 0.1.10

## 1.680 node-uuid 1.4.7

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## 1.681 NodeJS 5.7.0

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation

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// Original can be found at:

// <https://bitbucket.org/lindenlab/llsd>

// Modifications by Joshua Bell [inexorable@lindenlab.com](mailto:inexorable@lindenlab.com)

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos Typed Array Specification

// Ref: <http://www.khronos.org/registry/typedarray/specs/latest/>

// Date: 2011-02-01

//

// Variations:

// \* Allows `typed_array.get/set()` as alias for subscripts (`typed_array[]`)

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# 1.685 NW.js 0.12.3

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\$OpenBSD: LICENCE,v 1.19 2004/08/30 09:18:08 markus Exp \$

# 1.701 openssh-client 7.2\_p2 :r4

## 1.701.1 Available under license :

SSH-ADD(1)            General Commands Manual            SSH-ADD(1)

### NAME

ssh-add M-bM-^@M-^S adds private key identities to the authentication agent

### SYNOPSIS

```
ssh-add [-cDdkLIXx] [-E fingerprint_hash] [-t life] [file ...]
ssh-add -s pkcs11
ssh-add -e pkcs11
```

### DESCRIPTION

ssh-add adds private key identities to the authentication agent, ssh-agent(1). When run without arguments, it adds the files ~/.ssh/id\_rsa, ~/.ssh/id\_dsa, ~/.ssh/id\_ecdsa, ~/.ssh/id\_ed25519 and ~/.ssh/identity. After loading a private key, ssh-add will try to load corresponding certificate information from the filename obtained by appending -cert.pub to the name of the private key file. Alternative file names can be given on the command line.

If any file requires a passphrase, ssh-add asks for the passphrase from the user. The passphrase is read from the user's tty. ssh-add retries the last passphrase if multiple identity files are given.

The authentication agent must be running and the SSH\_AUTH\_SOCKET environment variable must contain the name of its socket for ssh-add to work.

The options are as follows:

- c    Indicates that added identities should be subject to confirmation before being used for authentication. Confirmation is performed by ssh-askpass(1). Successful confirmation is signaled by a zero exit status from ssh-askpass(1), rather than text entered into the requester.
  
- D    Deletes all identities from the agent.

- d Instead of adding identities, removes identities from the agent. If ssh-add has been run without arguments, the keys for the default identities and their corresponding certificates will be removed. Otherwise, the argument list will be interpreted as a list of paths to public key files to specify keys and certificates to be removed from the agent. If no public key is found at a given path, ssh-add will append .pub and retry.
  
- E fingerprint\_hash  
Specifies the hash algorithm used when displaying key fingerprints. Valid options are: M-bM-^@M-^\md5M-bM-^@M-^] and M-bM-^@M-^\sha256M-bM-^@M-^]. The default is M-bM-^@M-^\sha256M-bM-^@M-^].
  
- e pkcs11  
Remove keys provided by the PKCS#11 shared library pkcs11.
  
- k When loading keys into or deleting keys from the agent, process plain private keys only and skip certificates.
  
- L Lists public key parameters of all identities currently represented by the agent.
  
- l Lists fingerprints of all identities currently represented by the agent.
  
- s pkcs11  
Add keys provided by the PKCS#11 shared library pkcs11.
  
- t life  
Set a maximum lifetime when adding identities to an agent. The lifetime may be specified in seconds or in a time format specified in sshd\_config(5).
  
- X Unlock the agent.
  
- x Lock the agent with a password.

## ENVIRONMENT

### DISPLAY and SSH\_ASKPASS

If ssh-add needs a passphrase, it will read the passphrase from the current terminal if it was run from a terminal. If ssh-add does not have a terminal associated with it but DISPLAY and SSH\_ASKPASS are set, it will execute the program specified by SSH\_ASKPASS (by default M-bM-^@M-^\ssh-askpassM-bM-^@M-^]) and open an X11 window to read the passphrase. This is particularly useful when calling ssh-add from a .xsession or related script. (Note that on some



machines it may be necessary to redirect the input from /dev/null to make this work.)

## SSH\_AUTH\_SOCK

Identifies the path of a UNIX-domain socket used to communicate with the agent.

## FILES

~/.ssh/identity

Contains the protocol version 1 RSA authentication identity of the user.

~/.ssh/id\_dsa

Contains the protocol version 2 DSA authentication identity of the user.

~/.ssh/id\_ecdsa

Contains the protocol version 2 ECDSA authentication identity of the user.

~/.ssh/id\_ed25519

Contains the protocol version 2 Ed25519 authentication identity of the user.

~/.ssh/id\_rsa

Contains the protocol version 2 RSA authentication identity of the user.

Identity files should not be readable by anyone but the user. Note that ssh-add ignores identity files if they are accessible by others.

## EXIT STATUS

Exit status is 0 on success, 1 if the specified command fails, and 2 if ssh-add is unable to contact the authentication agent.

## SEE ALSO

ssh(1), ssh-agent(1), ssh-askpass(1), ssh-keygen(1), sshd(8)

## AUTHORS

OpenSSH is a derivative of the original and free ssh 1.2.12 release by Tatu Ylonen. Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos, Theo de Raadt and Dug Song removed many bugs, re-added newer features and created OpenSSH. Markus Friedl contributed the support for SSH protocol versions 1.5 and 2.0.

OpenBSD 5.9

March 30, 2015

OpenBSD 5.9

.\" \$OpenBSD: ssh-add.1,v 1.62 2015/03/30 18:28:37 jmc Exp \$

.\"

```

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.\"
.Dd $Mdocdate: March 30 2015 $
.Dt SSH-ADD 1
.Os
.Sh NAME
.Nm ssh-add
.Nd adds private key identities to the authentication agent
.Sh SYNOPSIS
.Nm ssh-add
.Op Fl cDdkLIXx
.Op Fl E Ar fingerprint_hash
.Op Fl t Ar life
.Op Ar
.Nm ssh-add

```

.Fl s Ar pkcs11

.Nm ssh-add

.Fl e Ar pkcs11

.Sh DESCRIPTION

.Nm

adds private key identities to the authentication agent,

.Xr ssh-agent 1 .

When run without arguments, it adds the files

.Pa ~/.ssh/id\_rsa ,

.Pa ~/.ssh/id\_dsa ,

.Pa ~/.ssh/id\_ecdsa ,

.Pa ~/.ssh/id\_ed25519

and

.Pa ~/.ssh/identity .

After loading a private key,

.Nm

will try to load corresponding certificate information from the filename obtained by appending

.Pa -cert.pub

to the name of the private key file.

Alternative file names can be given on the command line.

.Pp

If any file requires a passphrase,

.Nm

asks for the passphrase from the user.

The passphrase is read from the user's tty.

.Nm

retries the last passphrase if multiple identity files are given.

.Pp

The authentication agent must be running and the

.Ev SSH\_AUTH\_SOCK

environment variable must contain the name of its socket for

.Nm

to work.

.Pp

The options are as follows:

.Bl -tag -width Ds

.It Fl c

Indicates that added identities should be subject to confirmation before being used for authentication.

Confirmation is performed by

.Xr ssh-askpass 1 .

Successful confirmation is signaled by a zero exit status from

.Xr ssh-askpass 1 ,

rather than text entered into the requester.

.It Fl D

Deletes all identities from the agent.

.It Fl d

Instead of adding identities, removes identities from the agent.

If

.Nm

has been run without arguments, the keys for the default identities and their corresponding certificates will be removed.

Otherwise, the argument list will be interpreted as a list of paths to public key files to specify keys and certificates to be removed from the agent.

If no public key is found at a given path,

.Nm

will append

.Pa .pub

and retry.

.It Fl E Ar fingerprint\_hash

Specifies the hash algorithm used when displaying key fingerprints.

Valid options are:

.Dq md5

and

.Dq sha256 .

The default is

.Dq sha256 .

.It Fl e Ar pkcs11

Remove keys provided by the PKCS#11 shared library

.Ar pkcs11 .

.It Fl k

When loading keys into or deleting keys from the agent, process plain private keys only and skip certificates.

.It Fl L

Lists public key parameters of all identities currently represented by the agent.

.It Fl l

Lists fingerprints of all identities currently represented by the agent.

.It Fl s Ar pkcs11

Add keys provided by the PKCS#11 shared library

.Ar pkcs11 .

.It Fl t Ar life

Set a maximum lifetime when adding identities to an agent.

The lifetime may be specified in seconds or in a time format specified in

.Xr sshd\_config 5 .

.It Fl X

Unlock the agent.

.It Fl x

Lock the agent with a password.

.El

.Sh ENVIRONMENT

.Bl -tag -width Ds

.It Ev "DISPLAY" and "SSH\_ASKPASS"

If

.Nm

needs a passphrase, it will read the passphrase from the current terminal if it was run from a terminal.

If

.Nm

does not have a terminal associated with it but

.Ev DISPLAY

and

.Ev SSH\_ASKPASS

are set, it will execute the program specified by

.Ev SSH\_ASKPASS

(by default

.Dq ssh-askpass )

and open an X11 window to read the passphrase.

This is particularly useful when calling

.Nm

from a

.Pa .xsession

or related script.

(Note that on some machines it

may be necessary to redirect the input from

.Pa /dev/null

to make this work.)

.It Ev SSH\_AUTH\_SOCK

Identifies the path of a

.Ux Ns -domain

socket used to communicate with the agent.

.El

.Sh FILES

.Bl -tag -width Ds

.It Pa ~/.ssh/identity

Contains the protocol version 1 RSA authentication identity of the user.

.It Pa ~/.ssh/id\_dsa

Contains the protocol version 2 DSA authentication identity of the user.

.It Pa ~/.ssh/id\_ecdsa

Contains the protocol version 2 ECDSA authentication identity of the user.

.It Pa ~/.ssh/id\_ed25519

Contains the protocol version 2 Ed25519 authentication identity of the user.

.It Pa ~/.ssh/id\_rsa

Contains the protocol version 2 RSA authentication identity of the user.

.El

.Pp

Identity files should not be readable by anyone but the user.

Note that

.Nm

ignores identity files if they are accessible by others.

.Sh EXIT STATUS

Exit status is 0 on success, 1 if the specified command fails,

and 2 if

.Nm

is unable to contact the authentication agent.

.Sh SEE ALSO

.Xr ssh 1 ,

.Xr ssh-agent 1 ,

.Xr ssh-askpass 1 ,

.Xr ssh-keygen 1 ,

.Xr sshd 8

.Sh AUTHORS

OpenSSH is a derivative of the original and free

ssh 1.2.12 release by Tatu Ylonen.

Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos,

Theo de Raadt and Dug Song

removed many bugs, re-added newer features and

created OpenSSH.

Markus Friedl contributed the support for SSH

protocol versions 1.5 and 2.0.

/\* \$OpenBSD: ssh-add.c,v 1.128 2016/02/15 09:47:49 dtucker Exp \$ \*/

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\*/

```
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```

```
#include <sys/types.h>
```

```
#include <sys/stat.h>
```

```
#include <openssl/evp.h>
```

```
#include "openbsd-compat/openssl-compat.h"
```

```
#include <errno.h>
```

```
#include <fcntl.h>
```

```
#include <pwd.h>
```

```
#include <stdarg.h>
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <string.h>
```

```
#include <unistd.h>
```

```
#include <limits.h>
```

```
#include "xmalloc.h"
```

```
#include "ssh.h"
```

```
#include "rsa.h"
```

```
#include "log.h"
```

```
#include "sshkey.h"
```

```
#include "sshbuf.h"
```

```
#include "authfd.h"
```

```
#include "authfile.h"
```

```
#include "pathnames.h"
```

```
#include "misc.h"
```

```
#include "ssherr.h"
```

```
#include "digest.h"
```

```
/* argv0 */
```

```
extern char *__progname;
```

```
/* Default files to add */
```

```
static char *default_files[] = {
```

```
#ifdef WITH_OPENSSL
```

```
    _PATH_SSH_CLIENT_ID_RSA,
```

```
    _PATH_SSH_CLIENT_ID_DSA,
```

```
#ifdef OPENSSL_HAS_ECC
```

```
    _PATH_SSH_CLIENT_ID_ECDSA,
```

```

#endif
#endif /* WITH_OPENSSL */
_PATH_SSH_CLIENT_ID_ED25519,
#ifdef WITH_SSH1
_PATH_SSH_CLIENT_IDENTITY,
#endif
NULL
};

static int fingerprint_hash = SSH_FP_HASH_DEFAULT;

/* Default lifetime (0 == forever) */
static int lifetime = 0;

/* User has to confirm key use */
static int confirm = 0;

/* we keep a cache of one passphrase */
static char *pass = NULL;
static void
clear_pass(void)
{
    if (pass) {
        explicit_bzero(pass, strlen(pass));
        free(pass);
        pass = NULL;
    }
}

static int
delete_file(int agent_fd, const char *filename, int key_only)
{
    struct sshkey *public, *cert = NULL;
    char *certpath = NULL, *comment = NULL;
    int r, ret = -1;

    if ((r = sshkey_load_public(filename, &public, &comment)) != 0) {
        printf("Bad key file %s: %s\n", filename, ssh_err(r));
        return -1;
    }
    if ((r = ssh_remove_identity(agent_fd, public)) == 0) {
        fprintf(stderr, "Identity removed: %s (%s)\n", filename, comment);
        ret = 0;
    } else
        fprintf(stderr, "Could not remove identity \"%s\": %s\n",
            filename, ssh_err(r));

    if (key_only)

```



```

goto out;

/* Now try to delete the corresponding certificate too */
free(comment);
comment = NULL;
xasprintf(&certpath, "%s-cert.pub", filename);
if ((r = sshkey_load_public(certpath, &cert, &comment)) != 0) {
    if (r != SSH_ERR_SYSTEM_ERROR || errno != ENOENT)
        error("Failed to load certificate \"%s\": %s",
            certpath, ssh_err(r));
    goto out;
}

if (!sshkey_equal_public(cert, public))
    fatal("Certificate %s does not match private key %s",
        certpath, filename);

if ((r = ssh_remove_identity(agent_fd, cert)) == 0) {
    fprintf(stderr, "Identity removed: %s (%s)\n", certpath,
        comment);
    ret = 0;
} else
    fprintf(stderr, "Could not remove identity \"%s\": %s\n",
        certpath, ssh_err(r));

out:
sshkey_free(cert);
sshkey_free(public);
free(certpath);
free(comment);

return ret;
}

/* Send a request to remove all identities. */
static int
delete_all(int agent_fd)
{
    int ret = -1;

    if (ssh_remove_all_identities(agent_fd, 2) == 0)
        ret = 0;
    /* ignore error-code for ssh1 */
    ssh_remove_all_identities(agent_fd, 1);

    if (ret == 0)
        fprintf(stderr, "All identities removed.\n");
    else

```

```

fprintf(stderr, "Failed to remove all identities.\n");

return ret;
}

static int
add_file(int agent_fd, const char *filename, int key_only)
{
    struct sshkey *private, *cert;
    char *comment = NULL;
    char msg[1024], *certpath = NULL;
    int r, fd, ret = -1;
    struct sshbuf *keyblob;

    if (strcmp(filename, "-") == 0) {
        fd = STDIN_FILENO;
        filename = "(stdin)";
    } else if ((fd = open(filename, O_RDONLY)) < 0) {
        perror(filename);
        return -1;
    }

    /*
     * Since we'll try to load a keyfile multiple times, permission errors
     * will occur multiple times, so check perms first and bail if wrong.
     */
    if (fd != STDIN_FILENO) {
        if (sshkey_perm_ok(fd, filename) != 0) {
            close(fd);
            return -1;
        }
    }

    if ((keyblob = sshbuf_new()) == NULL)
        fatal("%s: sshbuf_new failed", __func__);
    if ((r = sshkey_load_file(fd, keyblob)) != 0) {
        fprintf(stderr, "Error loading key \"%s\": %s\n",
            filename, ssh_err(r));
        sshbuf_free(keyblob);
        close(fd);
        return -1;
    }
    close(fd);

    /* At first, try empty passphrase */
    if ((r = sshkey_parse_private_fileblob(keyblob, "", &private,
        &comment)) != 0 && r != SSH_ERR_KEY_WRONG_PASSPHRASE) {
        fprintf(stderr, "Error loading key \"%s\": %s\n",
            filename, ssh_err(r));
    }
}

```

```

goto fail_load;
}
/* try last */
if (private == NULL && pass != NULL) {
if ((r = sshkey_parse_private_fileblob(keyblob, pass, &private,
&comment)) != 0 && r != SSH_ERR_KEY_WRONG_PASSPHRASE) {
fprintf(stderr, "Error loading key \"%s\": %s\n",
filename, ssh_err(r));
goto fail_load;
}
}
if (private == NULL) {
/* clear passphrase since it did not work */
clear_pass();
snprintf(msg, sizeof msg, "Enter passphrase for %s%s: ",
filename, confirm ? " (will confirm each use)" : "");
for (;;) {
pass = read_passphrase(msg, RP_ALLOW_STDIN);
if (strcmp(pass, "") == 0)
goto fail_load;
if ((r = sshkey_parse_private_fileblob(keyblob, pass,
&private, &comment)) == 0)
break;
else if (r != SSH_ERR_KEY_WRONG_PASSPHRASE) {
fprintf(stderr,
"Error loading key \"%s\": %s\n",
filename, ssh_err(r));
}
fail_load:
clear_pass();
sshbuf_free(keyblob);
return -1;
}
clear_pass();
snprintf(msg, sizeof msg,
"Bad passphrase, try again for %s%s: ", filename,
confirm ? " (will confirm each use)" : "");
}
}
if (comment == NULL || *comment == '\0')
comment = xstrdup(filename);
sshbuf_free(keyblob);

if ((r = ssh_add_identity_constrained(agent_fd, private, comment,
lifetime, confirm)) == 0) {
fprintf(stderr, "Identity added: %s (%s)\n", filename, comment);
ret = 0;
if (lifetime != 0)
fprintf(stderr,

```

```

    "Lifetime set to %d seconds\n", lifetime);
if (confirm != 0)
    fprintf(stderr,
        "The user must confirm each use of the key\n");
} else {
    fprintf(stderr, "Could not add identity \"%s\": %s\n",
        filename, ssh_err(r));
}

/* Skip trying to load the cert if requested */
if (key_only)
    goto out;

/* Now try to add the certificate flavour too */
xasprintf(&certpath, "%s-cert.pub", filename);
if ((r = sshkey_load_public(certpath, &cert, NULL)) != 0) {
    if (r != SSH_ERR_SYSTEM_ERROR || errno != ENOENT)
        error("Failed to load certificate \"%s\": %s",
            certpath, ssh_err(r));
    goto out;
}

if (!sshkey_equal_public(cert, private)) {
    error("Certificate %s does not match private key %s",
        certpath, filename);
    sshkey_free(cert);
    goto out;
}

/* Graft with private bits */
if ((r = sshkey_to_certified(private)) != 0) {
    error("%s: sshkey_to_certified: %s", __func__, ssh_err(r));
    sshkey_free(cert);
    goto out;
}
if ((r = sshkey_cert_copy(cert, private)) != 0) {
    error("%s: key_cert_copy: %s", __func__, ssh_err(r));
    sshkey_free(cert);
    goto out;
}
sshkey_free(cert);

if ((r = ssh_add_identity_constrained(agent_fd, private, comment,
    lifetime, confirm)) != 0) {
    error("Certificate %s (%s) add failed: %s", certpath,
        private->cert->key_id, ssh_err(r));
    goto out;
}

```

```

fprintf(stderr, "Certificate added: %s (%s)\n", certpath,
    private->cert->key_id);
if (lifetime != 0)
    fprintf(stderr, "Lifetime set to %d seconds\n", lifetime);
if (confirm != 0)
    fprintf(stderr, "The user must confirm each use of the key\n");
out:
free(certpath);
free(comment);
sshkey_free(private);

return ret;
}

static int
update_card(int agent_fd, int add, const char *id)
{
    char *pin = NULL;
    int r, ret = -1;

    if (add) {
        if ((pin = read_passphrase("Enter passphrase for PKCS#11: ",
            RP_ALLOW_STDIN)) == NULL)
            return -1;
    }

    if ((r = ssh_update_card(agent_fd, add, id, pin == NULL ? "" : pin,
        lifetime, confirm)) == 0) {
        fprintf(stderr, "Card %s: %s\n",
            add ? "added" : "removed", id);
        ret = 0;
    } else {
        fprintf(stderr, "Could not %s card \"%s\": %s\n",
            add ? "add" : "remove", id, ssh_err(r));
        ret = -1;
    }
    free(pin);
    return ret;
}

static int
list_identities(int agent_fd, int do_fp)
{
    char *fp;
    int r, had_identities = 0;
    struct ssh_identitylist *idlist;
    size_t i;
#ifdef WITH_SSH1

```

```

int version = 1;
#else
int version = 2;
#endif

for (; version <= 2; version++) {
if ((r = ssh_fetch_identitylist(agent_fd, version,
&idlist)) != 0) {
if (r != SSH_ERR_AGENT_NO_IDENTITIES)
fprintf(stderr, "error fetching identities for "
"protocol %d: %s\n", version, ssh_err(r));
continue;
}
for (i = 0; i < idlist->nkeys; i++) {
had_identities = 1;
if (do_fp) {
fp = sshkey_fingerprint(idlist->keys[i],
fingerprint_hash, SSH_FP_DEFAULT);
printf("%u %s %s (%s)\n",
sshkey_size(idlist->keys[i],
fp == NULL ? "(null)" : fp,
idlist->comments[i],
sshkey_type(idlist->keys[i]));
free(fp);
} else {
if ((r = sshkey_write(idlist->keys[i],
stdout)) != 0) {
fprintf(stderr, "sshkey_write: %s\n",
ssh_err(r));
continue;
}
fprintf(stdout, " %s\n", idlist->comments[i]);
}
}
ssh_free_identitylist(idlist);
}
if (!had_identities) {
printf("The agent has no identities.\n");
return -1;
}
return 0;
}

static int
lock_agent(int agent_fd, int lock)
{
char prompt[100], *p1, *p2;
int r, passok = 1, ret = -1;

```

```

strncpy(prompt, "Enter lock password: ", sizeof(prompt));
p1 = read_passphrase(prompt, RP_ALLOW_STDIN);
if (lock) {
    strncpy(prompt, "Again: ", sizeof(prompt));
    p2 = read_passphrase(prompt, RP_ALLOW_STDIN);
    if (strcmp(p1, p2) != 0) {
        fprintf(stderr, "Passwords do not match.\n");
        passok = 0;
    }
    explicit_bzero(p2, strlen(p2));
    free(p2);
}
if (passok) {
    if ((r = ssh_lock_agent(agent_fd, lock, p1)) == 0) {
        fprintf(stderr, "Agent %slocked.\n", lock ? "" : "un");
        ret = 0;
    } else {
        fprintf(stderr, "Failed to %slock agent: %s\n",
            lock ? "" : "un", ssh_err(r));
    }
}
explicit_bzero(p1, strlen(p1));
free(p1);
return (ret);
}

static int
do_file(int agent_fd, int deleting, int key_only, char *file)
{
    if (deleting) {
        if (delete_file(agent_fd, file, key_only) == -1)
            return -1;
    } else {
        if (add_file(agent_fd, file, key_only) == -1)
            return -1;
    }
    return 0;
}

static void
usage(void)
{
    fprintf(stderr, "usage: %s [options] [file ...]\n", __progname);
    fprintf(stderr, "Options:\n");
    fprintf(stderr, " -l      List fingerprints of all identities.\n");
    fprintf(stderr, " -E hash  Specify hash algorithm used for fingerprints.\n");
    fprintf(stderr, " -L      List public key parameters of all identities.\n");
}

```

```

fprintf(stderr, " -k      Load only keys and not certificates.\n");
fprintf(stderr, " -c      Require confirmation to sign using identities\n");
fprintf(stderr, " -t life  Set lifetime (in seconds) when adding identities.\n");
fprintf(stderr, " -d      Delete identity.\n");
fprintf(stderr, " -D      Delete all identities.\n");
fprintf(stderr, " -x      Lock agent.\n");
fprintf(stderr, " -X      Unlock agent.\n");
fprintf(stderr, " -s pkcs11  Add keys from PKCS#11 provider.\n");
fprintf(stderr, " -e pkcs11  Remove keys provided by PKCS#11 provider.\n");
}

```

```
int
```

```
main(int argc, char **argv)
```

```

{
extern char *optarg;
extern int optind;
int agent_fd;
char *pkcs11provider = NULL;
int r, i, ch, deleting = 0, ret = 0, key_only = 0;
int xflag = 0, lflag = 0, Dflag = 0;

ssh_malloc_init(); /* must be called before any mallocs */
/* Ensure that fds 0, 1 and 2 are open or directed to /dev/null */
sanitise_stdio();

```

```

__progname = ssh_get_progname(argv[0]);
seed_rng();

```

```

#ifdef WITH_OPENSSL
OpenSSL_add_all_algorithms();
#endif

```

```
setvbuf(stdout, NULL, _IOLBF, 0);
```

```

/* First, get a connection to the authentication agent. */
switch (r = ssh_get_authentication_socket(&agent_fd)) {
case 0:
break;
case SSH_ERR_AGENT_NOT_PRESENT:
fprintf(stderr, "Could not open a connection to your "
"authentication agent.\n");
exit(2);
default:
fprintf(stderr, "Error connecting to agent: %s\n", ssh_err(r));
exit(2);
}

```

```
while ((ch = getopt(argc, argv, "kLcdDxXE:e:s:t:")) != -1) {
```



```

switch (ch) {
case 'E':
    fingerprint_hash = ssh_digest_alg_by_name(optarg);
    if (fingerprint_hash == -1)
        fatal("Invalid hash algorithm \"%s\"", optarg);
    break;
case 'k':
    key_only = 1;
    break;
case 'l':
case 'L':
    if (lflag != 0)
        fatal("-%c flag already specified", lflag);
    lflag = ch;
    break;
case 'x':
case 'X':
    if (xflag != 0)
        fatal("-%c flag already specified", xflag);
    xflag = ch;
    break;
case 'c':
    confirm = 1;
    break;
case 'd':
    deleting = 1;
    break;
case 'D':
    Dflag = 1;
    break;
case 's':
    pkcs11provider = optarg;
    break;
case 'e':
    deleting = 1;
    pkcs11provider = optarg;
    break;
case 't':
    if ((lifetime = convtime(optarg)) == -1) {
        fprintf(stderr, "Invalid lifetime\n");
        ret = 1;
        goto done;
    }
    break;
default:
    usage();
    ret = 1;
    goto done;
}

```

```

}
}

if ((xflag != 0) + (lflag != 0) + (Dflag != 0) > 1)
    fatal("Invalid combination of actions");
else if (xflag) {
    if (lock_agent(agent_fd, xflag == 'x' ? 1 : 0) == -1)
        ret = 1;
    goto done;
} else if (lflag) {
    if (list_identities(agent_fd, lflag == 'l' ? 1 : 0) == -1)
        ret = 1;
    goto done;
} else if (Dflag) {
    if (delete_all(agent_fd) == -1)
        ret = 1;
    goto done;
}

argc -= optind;
argv += optind;
if (pkcs11provider != NULL) {
    if (update_card(agent_fd, !deleting, pkcs11provider) == -1)
        ret = 1;
    goto done;
}
if (argc == 0) {
    char buf[PATH_MAX];
    struct passwd *pw;
    struct stat st;
    int count = 0;

    if ((pw = getpwuid(getuid())) == NULL) {
        fprintf(stderr, "No user found with uid %u\n",
            (u_int)getuid());
        ret = 1;
        goto done;
    }

    for (i = 0; default_files[i]; i++) {
        snprintf(buf, sizeof(buf), "%s/%s", pw->pw_dir,
            default_files[i]);
        if (stat(buf, &st) < 0)
            continue;
        if (do_file(agent_fd, deleting, key_only, buf) == -1)
            ret = 1;
        else
            count++;
    }
}

```

```

}
if (count == 0)
    ret = 1;
} else {
for (i = 0; i < argc; i++) {
    if (do_file(agent_fd, deleting, key_only,
        argv[i]) == -1)
        ret = 1;
    }
}
clear_pass();

done:
ssh_close_authentication_socket(agent_fd);
return ret;
}
SSH-AGENT(1)          General Commands Manual          SSH-AGENT(1)

```

## NAME

ssh-agent M-bM-^@M-^S authentication agent

## SYNOPSIS

```

ssh-agent [-c | -s] [-Dd] [-a bind_address] [-E fingerprint_hash]
          [-t life] [command [arg ...]]
ssh-agent [-c | -s] -k

```

## DESCRIPTION

ssh-agent is a program to hold private keys used for public key authentication (RSA, DSA, ECDSA, Ed25519). ssh-agent is usually started in the beginning of an X-session or a login session, and all other windows or programs are started as clients to the ssh-agent program. Through use of environment variables the agent can be located and automatically used for authentication when logging in to other machines using ssh(1).

The agent initially does not have any private keys. Keys are added using ssh(1) (see AddKeysToAgent in ssh\_config(5) for details) or ssh-add(1). Multiple identities may be stored in ssh-agent concurrently and ssh(1) will automatically use them if present. ssh-add(1) is also used to remove keys from ssh-agent and to query the keys that are held in one.

The options are as follows:

-a bind\_address

Bind the agent to the UNIX-domain socket bind\_address. The default is \$TMPDIR/ssh-XXXXXXXXXX/agent.<ppid>.

-c Generate C-shell commands on stdout. This is the default if

SHELL looks like it's a csh style of shell.

- D Foreground mode. When this option is specified ssh-agent will not fork.
- d Debug mode. When this option is specified ssh-agent will not fork and will write debug information to standard error.
- E fingerprint\_hash  
Specifies the hash algorithm used when displaying key fingerprints. Valid options are: M-bM-^@M-^\md5M-bM-^@M-^] and M-bM-^@M-^\sha256M-bM-^@M-^]. The default is M-bM-^@M-^\sha256M-bM-^@M-^].
- k Kill the current agent (given by the SSH\_AGENT\_PID environment variable).
- s Generate Bourne shell commands on stdout. This is the default if SHELL does not look like it's a csh style of shell.
- t life  
Set a default value for the maximum lifetime of identities added to the agent. The lifetime may be specified in seconds or in a time format specified in sshd\_config(5). A lifetime specified for an identity with ssh-add(1) overrides this value. Without this option the default maximum lifetime is forever.

If a command line is given, this is executed as a subprocess of the agent. When the command dies, so does the agent.

The idea is that the agent is run in the user's local PC, laptop, or terminal. Authentication data need not be stored on any other machine, and authentication passphrases never go over the network. However, the connection to the agent is forwarded over SSH remote logins, and the user can thus use the privileges given by the identities anywhere in the network in a secure way.

There are two main ways to get an agent set up: The first is that the agent starts a new subcommand into which some environment variables are exported, eg ssh-agent xterm &. The second is that the agent prints the needed shell commands (either sh(1) or csh(1) syntax can be generated) which can be evaluated in the calling shell, eg eval `ssh-agent -s` for Bourne-type shells such as sh(1) or ksh(1) and eval `ssh-agent -c` for csh(1) and derivatives.

Later ssh(1) looks at these variables and uses them to establish a connection to the agent.

The agent will never send a private key over its request channel. Instead, operations that require a private key will be performed by the agent, and the result will be returned to the requester. This way, private keys are not exposed to clients using the agent.

A UNIX-domain socket is created and the name of this socket is stored in the SSH\_AUTH\_SOCK environment variable. The socket is made accessible only to the current user. This method is easily abused by root or another instance of the same user.

The SSH\_AGENT\_PID environment variable holds the agent's process ID.

The agent exits automatically when the command given on the command line terminates.

## FILES

\$TMPDIR/ssh-XXXXXXXXXX/agent.<ppid>

UNIX-domain sockets used to contain the connection to the authentication agent. These sockets should only be readable by the owner. The sockets should get automatically removed when the agent exits.

## SEE ALSO

ssh(1), ssh-add(1), ssh-keygen(1), sshd(8)

## AUTHORS

OpenSSH is a derivative of the original and free ssh 1.2.12 release by Tatu Ylonen. Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos, Theo de Raadt and Dug Song removed many bugs, re-added newer features and created OpenSSH. Markus Friedl contributed the support for SSH protocol versions 1.5 and 2.0.

OpenBSD 5.9                      November 15, 2015                      OpenBSD 5.9

```
.\" $OpenBSD: ssh-agent.1,v 1.62 2015/11/15 23:54:15 jmc Exp $
```

```
.\"
```

```
.\" Author: Tatu Ylonen <ylo@cs.hut.fi>
```

```
.\" Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
```

```
.\"                      All rights reserved
```

```
.\"
```

```
.\" As far as I am concerned, the code I have written for this software
```

```
.\" can be used freely for any purpose. Any derived versions of this
```

```
.\" software must be clearly marked as such, and if the derived work is
```

```
.\" incompatible with the protocol description in the RFC file, it must be
```

```
.\" called by a name other than "ssh" or "Secure Shell".
```

```
.\"
```

```
.\" Copyright (c) 1999,2000 Markus Friedl. All rights reserved.
```

```
.\" Copyright (c) 1999 Aaron Campbell. All rights reserved.
```

```
.\" Copyright (c) 1999 Theo de Raadt. All rights reserved.
```

.\"

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.\"

.Dd \$Mdocdate: November 15 2015 \$

.Dt SSH-AGENT 1

.Os

.Sh NAME

.Nm ssh-agent

.Nd authentication agent

.Sh SYNOPSIS

.Nm ssh-agent

.Op Fl c | s

.Op Fl \&Dd

.Op Fl a Ar bind\_address

.Op Fl E Ar fingerprint\_hash

.Op Fl t Ar life

.Op Ar command Op Ar arg ...

.Nm ssh-agent

.Op Fl c | s

.Fl k

.Sh DESCRIPTION

.Nm

is a program to hold private keys used for public key authentication  
(RSA, DSA, ECDSA, Ed25519).

.Nm

is usually started in the beginning of an X-session or a login session, and  
all other windows or programs are started as clients to the ssh-agent  
program.

Through use of environment variables the agent can be located  
and automatically used for authentication when logging in to other

machines using

```
.Xr ssh 1 .
```

.Pp

The agent initially does not have any private keys.

Keys are added using

```
.Xr ssh 1
```

(see

```
.Cm AddKeysToAgent
```

in

```
.Xr ssh_config 5
```

for details)

or

```
.Xr ssh-add 1 .
```

Multiple identities may be stored in

```
.Nm
```

concurrently and

```
.Xr ssh 1
```

will automatically use them if present.

```
.Xr ssh-add 1
```

is also used to remove keys from

```
.Nm
```

and to query the keys that are held in one.

.Pp

The options are as follows:

```
.Bl -tag -width Ds
```

```
.It Fl a Ar bind_address
```

Bind the agent to the

```
.Ux Ns -domain
```

socket

```
.Ar bind_address .
```

The default is

```
.Pa $TMPDIR/ssh-XXXXXXXXXX/agent.\*(Ltpid\*(Gt .
```

```
.It Fl c
```

Generate C-shell commands on

```
.Dv stdout .
```

This is the default if

```
.Ev SHELL
```

looks like it's a csh style of shell.

```
.It Fl D
```

Foreground mode.

When this option is specified

```
.Nm
```

will not fork.

```
.It Fl d
```

Debug mode.

When this option is specified

```
.Nm
```

will not fork and will write debug information to standard error.

.It Fl E Ar fingerprint\_hash

Specifies the hash algorithm used when displaying key fingerprints.

Valid options are:

.Dq md5

and

.Dq sha256 .

The default is

.Dq sha256 .

.It Fl k

Kill the current agent (given by the

.Ev SSH\_AGENT\_PID

environment variable).

.It Fl s

Generate Bourne shell commands on

.Dv stdout .

This is the default if

.Ev SHELL

does not look like it's a csh style of shell.

.It Fl t Ar life

Set a default value for the maximum lifetime of identities added to the agent.

The lifetime may be specified in seconds or in a time format specified in

.Xr sshd\_config 5 .

A lifetime specified for an identity with

.Xr ssh-add 1

overrides this value.

Without this option the default maximum lifetime is forever.

.El

.Pp

If a command line is given, this is executed as a subprocess of the agent.

When the command dies, so does the agent.

.Pp

The idea is that the agent is run in the user's local PC, laptop, or terminal.

Authentication data need not be stored on any other machine, and authentication passphrases never go over the network.

However, the connection to the agent is forwarded over SSH remote logins, and the user can thus use the privileges given by the identities anywhere in the network in a secure way.

.Pp

There are two main ways to get an agent set up:

The first is that the agent starts a new subcommand into which some environment variables are exported, eg

.Cm ssh-agent xterm & .

The second is that the agent prints the needed shell commands (either

.Xr sh 1

or

.Xr csh 1

syntax can be generated) which can be evaluated in the calling shell, eg



.Cm eval `ssh-agent -s`  
for Bourne-type shells such as

.Xr sh 1

or

.Xr ksh 1

and

.Cm eval `ssh-agent -c`

for

.Xr csh 1

and derivatives.

.Pp

Later

.Xr ssh 1

looks at these variables and uses them to establish a connection to the agent.

.Pp

The agent will never send a private key over its request channel.

Instead, operations that require a private key will be performed

by the agent, and the result will be returned to the requester.

This way, private keys are not exposed to clients using the agent.

.Pp

A

.Ux Ns -domain

socket is created and the name of this socket is stored in the

.Ev SSH\_AUTH\_SOCK

environment

variable.

The socket is made accessible only to the current user.

This method is easily abused by root or another instance of the same

user.

.Pp

The

.Ev SSH\_AGENT\_PID

environment variable holds the agent's process ID.

.Pp

The agent exits automatically when the command given on the command

line terminates.

.Sh FILES

.Bl -tag -width Ds

.It Pa \$TMPDIR/ssh-XXXXXXXXXX/agent.\\*(Ltpid\\*(Gt

.Ux Ns -domain

sockets used to contain the connection to the authentication agent.

These sockets should only be readable by the owner.

The sockets should get automatically removed when the agent exits.

.El

.Sh SEE ALSO

.Xr ssh 1 ,

.Xr ssh-add 1 ,

.Xr ssh-keygen 1 ,

```
.Xr sshd 8
.Sh AUTHORS
OpenSSH is a derivative of the original and free
ssh 1.2.12 release by Tatu Ylonen.
Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos,
Theo de Raadt and Dug Song
removed many bugs, re-added newer features and
created OpenSSH.
Markus Friedl contributed the support for SSH
protocol versions 1.5 and 2.0.
/* $OpenBSD: ssh-agent.c,v 1.212 2016/02/15 09:47:49 dtucker Exp $ */
/*
 * Author: Tatu Ylonen <ylo@cs.hut.fi>
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 * The authentication agent program.
 *
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 * software must be clearly marked as such, and if the derived work is
 * incompatible with the protocol description in the RFC file, it must be
 * called by a name other than "ssh" or "Secure Shell".
 *
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 */

#include "includes.h"
```

```

#include <sys/param.h> /* MIN MAX */
#include <sys/types.h>
#include <sys/param.h>
#include <sys/resource.h>
#include <sys/stat.h>
#include <sys/socket.h>
#ifdef HAVE_SYS_TIME_H
# include <sys/time.h>
#endif
#ifdef HAVE_SYS_UN_H
# include <sys/un.h>
#endif
#include "openbsd-compat/sys-queue.h"

#ifdef WITH_OPENSSL
#include <openssl/evp.h>
#include "openbsd-compat/openssl-compat.h"
#endif

#include <errno.h>
#include <fcntl.h>
#include <limits.h>
#ifdef HAVE_PATHS_H
# include <paths.h>
#endif
#include <signal.h>
#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
#include <time.h>
#include <string.h>
#include <unistd.h>
#ifdef HAVE_UTIL_H
# include <util.h>
#endif

#include "xmalloc.h"
#include "ssh.h"
#include "rsa.h"
#include "sshbuf.h"
#include "sshkey.h"
#include "authfd.h"
#include "compat.h"
#include "log.h"
#include "misc.h"
#include "digest.h"
#include "ssherr.h"

```

```

#ifdef ENABLE_PKCS11
#include "ssh-pkcs11.h"
#endif

#if defined(HAVE_SYS_PRCTL_H)
#include <sys/prctl.h> /* For prctl() and PR_SET_DUMPABLE */
#endif

typedef enum {
    AUTH_UNUSED,
    AUTH_SOCKET,
    AUTH_CONNECTION
} sock_type;

typedef struct {
    int fd;
    sock_type type;
    struct sshbuf *input;
    struct sshbuf *output;
    struct sshbuf *request;
} SocketEntry;

u_int sockets_alloc = 0;
SocketEntry *sockets = NULL;

typedef struct identity {
    TAILQ_ENTRY(identity) next;
    struct sshkey *key;
    char *comment;
    char *provider;
    time_t death;
    u_int confirm;
} Identity;

typedef struct {
    int nentries;
    TAILQ_HEAD(idqueue, identity) idlist;
} Idtab;

/* private key table, one per protocol version */
Idtab idtable[3];

int max_fd = 0;

/* pid of shell == parent of agent */
pid_t parent_pid = -1;
time_t parent_alive_interval = 0;

```

```

/* pid of process for which cleanup_socket is applicable */
pid_t cleanup_pid = 0;

/* pathname and directory for AUTH_SOCKET */
char socket_name[PATH_MAX];
char socket_dir[PATH_MAX];

/* locking */
#define LOCK_SIZE 32
#define LOCK_SALT_SIZE 16
#define LOCK_ROUNDS 1
int locked = 0;
char lock_passwd[LOCK_SIZE];
char lock_salt[LOCK_SALT_SIZE];

extern char *__progname;

/* Default lifetime in seconds (0 == forever) */
static long lifetime = 0;

static int fingerprint_hash = SSH_FP_HASH_DEFAULT;

static void
close_socket(SocketEntry *e)
{
    close(e->fd);
    e->fd = -1;
    e->type = AUTH_UNUSED;
    sshbuf_free(e->input);
    sshbuf_free(e->output);
    sshbuf_free(e->request);
}

static void
idtab_init(void)
{
    int i;

    for (i = 0; i <= 2; i++) {
        TAILQ_INIT(&idtable[i].idlist);
        idtable[i].nentries = 0;
    }
}

/* return private key table for requested protocol version */
static Idtab *
idtab_lookup(int version)
{

```

```

if (version < 1 || version > 2)
    fatal("internal error, bad protocol version %d", version);
return &idtable[version];
}

static void
free_identity(Identity *id)
{
    sshkey_free(id->key);
    free(id->provider);
    free(id->comment);
    free(id);
}

/* return matching private key for given public key */
static Identity *
lookup_identity(struct sshkey *key, int version)
{
    Identity *id;

    Idtab *tab = idtab_lookup(version);
    TAILQ_FOREACH(id, &tab->idlist, next) {
        if (sshkey_equal(key, id->key))
            return (id);
    }
    return (NULL);
}

/* Check confirmation of key sign request */
static int
confirm_key(Identity *id)
{
    char *p;
    int ret = -1;

    p = sshkey_fingerprint(id->key, fingerprint_hash, SSH_FP_DEFAULT);
    if (p != NULL &&
        ask_permission("Allow use of key %s?\nKey fingerprint %s.",
            id->comment, p))
        ret = 0;
    free(p);

    return (ret);
}

static void
send_status(SocketEntry *e, int success)
{

```

```

int r;

if ((r = sshbuf_put_u32(e->output, 1)) != 0 ||
    (r = sshbuf_put_u8(e->output, success ?
        SSH_AGENT_SUCCESS : SSH_AGENT_FAILURE)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));
}

/* send list of supported public keys to 'client' */
static void
process_request_identities(SocketEntry *e, int version)
{
    Idtab *tab = idtab_lookup(version);
    Identity *id;
    struct sshbuf *msg;
    int r;

    if ((msg = sshbuf_new()) == NULL)
        fatal("%s: sshbuf_new failed", __func__);
    if ((r = sshbuf_put_u8(msg, (version == 1) ?
        SSH_AGENT_RSA_IDENTITIES_ANSWER :
        SSH2_AGENT_IDENTITIES_ANSWER)) != 0 ||
        (r = sshbuf_put_u32(msg, tab->nentries)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));
    TAILQ_FOREACH(id, &tab->idlist, next) {
        if (id->key->type == KEY_RSA1) {
#ifdef WITH_SSH1
            if ((r = sshbuf_put_u32(msg,
                BN_num_bits(id->key->rsa->n))) != 0 ||
                (r = sshbuf_put_bignum1(msg,
                    id->key->rsa->e)) != 0 ||
                (r = sshbuf_put_bignum1(msg,
                    id->key->rsa->n)) != 0)
                fatal("%s: buffer error: %s",
                    __func__, ssh_err(r));
#endif
        } else {
            u_char *blob;
            size_t blen;

            if ((r = sshkey_to_blob(id->key, &blob, &blen)) != 0) {
                error("%s: sshkey_to_blob: %s", __func__,
                    ssh_err(r));
                continue;
            }
            if ((r = sshbuf_put_string(msg, blob, blen)) != 0)
                fatal("%s: buffer error: %s",
                    __func__, ssh_err(r));
        }
    }
}

```

```

    free(blob);
}
if ((r = sshbuf_put_cstring(msg, id->comment)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));
}
if ((r = sshbuf_put_stringb(e->output, msg)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));
sshbuf_free(msg);
}

#ifdef WITH_SSH1
/* ssh1 only */
static void
process_authentication_challenge1(SocketEntry *e)
{
    u_char buf[32], mdbuf[16], session_id[16];
    u_int response_type;
    BIGNUM *challenge;
    Identity *id;
    int r, len;
    struct sshbuf *msg;
    struct ssh_digest_ctx *md;
    struct sshkey *key;

    if ((msg = sshbuf_new()) == NULL)
        fatal("%s: sshbuf_new failed", __func__);
    if ((key = sshkey_new(KEY_RSA1)) == NULL)
        fatal("%s: sshkey_new failed", __func__);
    if ((challenge = BN_new()) == NULL)
        fatal("%s: BN_new failed", __func__);

    if ((r = sshbuf_get_u32(e->request, NULL)) != 0 || /* ignored */
        (r = sshbuf_get_bignum1(e->request, key->rsa->e)) != 0 ||
        (r = sshbuf_get_bignum1(e->request, key->rsa->n)) != 0 ||
        (r = sshbuf_get_bignum1(e->request, challenge)))
        fatal("%s: buffer error: %s", __func__, ssh_err(r));

    /* Only protocol 1.1 is supported */
    if (sshbuf_len(e->request) == 0)
        goto failure;
    if ((r = sshbuf_get(e->request, session_id, sizeof(session_id))) != 0 ||
        (r = sshbuf_get_u32(e->request, &response_type)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));
    if (response_type != 1)
        goto failure;

    id = lookup_identity(key, 1);
    if (id != NULL && (!id->confirm || confirm_key(id) == 0)) {

```



```

struct sshkey *private = id->key;
/* Decrypt the challenge using the private key. */
if ((r = rsa_private_decrypt(challenge, challenge,
    private->rsa) != 0)) {
    fatal("%s: rsa_public_encrypt: %s", __func__,
        ssh_err(r));
    goto failure; /* XXX ? */
}

/* The response is MD5 of decrypted challenge plus session id */
len = BN_num_bytes(challenge);
if (len <= 0 || len > 32) {
    logit("%s: bad challenge length %d", __func__, len);
    goto failure;
}
memset(buf, 0, 32);
BN_bn2bin(challenge, buf + 32 - len);
if ((md = ssh_digest_start(SSH_DIGEST_MD5)) == NULL ||
    ssh_digest_update(md, buf, 32) < 0 ||
    ssh_digest_update(md, session_id, 16) < 0 ||
    ssh_digest_final(md, mdbuf, sizeof(mdbuf)) < 0)
    fatal("%s: md5 failed", __func__);
ssh_digest_free(md);

/* Send the response. */
if ((r = sshbuf_put_u8(msg, SSH_AGENT_RSA_RESPONSE)) != 0 ||
    (r = sshbuf_put(msg, mdbuf, sizeof(mdbuf))) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));
goto send;
}

failure:
/* Unknown identity or protocol error. Send failure. */
if ((r = sshbuf_put_u8(msg, SSH_AGENT_FAILURE)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));
send:
if ((r = sshbuf_put_stringb(e->output, msg)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));
sshkey_free(key);
BN_clear_free(challenge);
sshbuf_free(msg);
}
#endif

static char *
agent_decode_alg(struct sshkey *key, u_int flags)
{
    if (key->type == KEY_RSA) {

```

```

if (flags & SSH_AGENT_RSA_SHA2_256)
    return "rsa-sha2-256";
else if (flags & SSH_AGENT_RSA_SHA2_512)
    return "rsa-sha2-512";
}
return NULL;
}

/* ssh2 only */
static void
process_sign_request2(SocketEntry *e)
{
    u_char *blob, *data, *signature = NULL;
    size_t blen, dlen, slen = 0;
    u_int compat = 0, flags;
    int r, ok = -1;
    struct sshbuf *msg;
    struct sshkey *key;
    struct identity *id;

    if ((msg = sshbuf_new()) == NULL)
        fatal("%s: sshbuf_new failed", __func__);
    if ((r = sshbuf_get_string(e->request, &blob, &blen)) != 0 ||
        (r = sshbuf_get_string(e->request, &data, &dlen)) != 0 ||
        (r = sshbuf_get_u32(e->request, &flags)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));
    if (flags & SSH_AGENT_OLD_SIGNATURE)
        compat = SSH_BUG_SIGBLOB;
    if ((r = sshkey_from_blob(blob, blen, &key)) != 0) {
        error("%s: cannot parse key blob: %s", __func__, ssh_err(r));
        goto send;
    }
    if ((id = lookup_identity(key, 2)) == NULL) {
        verbose("%s: %s key not found", __func__, sshkey_type(key));
        goto send;
    }
    if (id->confirm && confirm_key(id) != 0) {
        verbose("%s: user refused key", __func__);
        goto send;
    }
    if ((r = sshkey_sign(id->key, &signature, &slen,
        data, dlen, agent_decode_alg(key, flags), compat)) != 0) {
        error("%s: sshkey_sign: %s", __func__, ssh_err(r));
        goto send;
    }
    /* Success */
    ok = 0;
send:

```

```

sshkey_free(key);
if (ok == 0) {
    if ((r = sshbuf_put_u8(msg, SSH2_AGENT_SIGN_RESPONSE)) != 0 ||
        (r = sshbuf_put_string(msg, signature, slen)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));
    } else if ((r = sshbuf_put_u8(msg, SSH_AGENT_FAILURE)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));

    if ((r = sshbuf_put_stringb(e->output, msg)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));

    sshbuf_free(msg);
    free(data);
    free(blob);
    free(signature);
}

/* shared */
static void
process_remove_identity(SocketEntry *e, int version)
{
    size_t blen;
    int r, success = 0;
    struct sshkey *key = NULL;
    u_char *blob;
#ifdef WITH_SSH1
    u_int bits;
#endif /* WITH_SSH1 */

    switch (version) {
#ifdef WITH_SSH1
    case 1:
        if ((key = sshkey_new(KEY_RSA1)) == NULL) {
            error("%s: sshkey_new failed", __func__);
            return;
        }
        if ((r = sshbuf_get_u32(e->request, &bits)) != 0 ||
            (r = sshbuf_get_bignum1(e->request, key->rsa->e)) != 0 ||
            (r = sshbuf_get_bignum1(e->request, key->rsa->n)) != 0)
            fatal("%s: buffer error: %s", __func__, ssh_err(r));

        if (bits != sshkey_size(key))
            logit("Warning: identity keysize mismatch: "
                "actual %u, announced %u",
                sshkey_size(key), bits);
        break;
#endif /* WITH_SSH1 */
    case 2:

```

```

if ((r = sshbuf_get_string(e->request, &blob, &blen)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));
if ((r = sshkey_from_blob(blob, blen, &key)) != 0)
    error("%s: sshkey_from_blob failed: %s",
        __func__, ssh_err(r));
free(blob);
break;
}
if (key != NULL) {
    Identity *id = lookup_identity(key, version);
    if (id != NULL) {
        /*
         * We have this key. Free the old key. Since we
         * don't want to leave empty slots in the middle of
         * the array, we actually free the key there and move
         * all the entries between the empty slot and the end
         * of the array.
         */
        Idtab *tab = idtab_lookup(version);
        if (tab->nentries < 1)
            fatal("process_remove_identity: "
                "internal error: tab->nentries %d",
                tab->nentries);
        TAILQ_REMOVE(&tab->idlist, id, next);
        free_identity(id);
        tab->nentries--;
        success = 1;
    }
    sshkey_free(key);
}
send_status(e, success);
}

```

```

static void
process_remove_all_identities(SocketEntry *e, int version)
{
    Idtab *tab = idtab_lookup(version);
    Identity *id;

    /* Loop over all identities and clear the keys. */
    for (id = TAILQ_FIRST(&tab->idlist); id;
        id = TAILQ_FIRST(&tab->idlist)) {
        TAILQ_REMOVE(&tab->idlist, id, next);
        free_identity(id);
    }

    /* Mark that there are no identities. */
    tab->nentries = 0;
}

```

```

/* Send success. */
send_status(e, 1);
}

/* removes expired keys and returns number of seconds until the next expiry */
static time_t
reaper(void)
{
    time_t deadline = 0, now = monotime();
    Identity *id, *nxt;
    int version;
    Idtab *tab;

    for (version = 1; version < 3; version++) {
        tab = idtab_lookup(version);
        for (id = TAILQ_FIRST(&tab->idlist); id; id = nxt) {
            nxt = TAILQ_NEXT(id, next);
            if (id->death == 0)
                continue;
            if (now >= id->death) {
                debug("expiring key '%s'", id->comment);
                TAILQ_REMOVE(&tab->idlist, id, next);
                free_identity(id);
                tab->nentries--;
            } else
                deadline = (deadline == 0) ? id->death :
                    MIN(deadline, id->death);
        }
    }
    if (deadline == 0 || deadline <= now)
        return 0;
    else
        return (deadline - now);
}

/*
 * XXX this and the corresponding serialisation function probably belongs
 * in key.c
 */
#ifdef WITH_SSH1
static int
agent_decode_rsa1(struct sshbuf *m, struct sshkey **kp)
{
    struct sshkey *k = NULL;
    int r = SSH_ERR_INTERNAL_ERROR;

    *kp = NULL;

```

```

if ((k = sshkey_new_private(KEY_RSA1)) == NULL)
    return SSH_ERR_ALLOC_FAIL;

if ((r = sshbuf_get_u32(m, NULL)) != 0 || /* ignored */
    (r = sshbuf_get_bignum1(m, k->rsa->n)) != 0 ||
    (r = sshbuf_get_bignum1(m, k->rsa->e)) != 0 ||
    (r = sshbuf_get_bignum1(m, k->rsa->d)) != 0 ||
    (r = sshbuf_get_bignum1(m, k->rsa->iqmp)) != 0 ||
    /* SSH1 and SSL have p and q swapped */
    (r = sshbuf_get_bignum1(m, k->rsa->q)) != 0 || /* p */
    (r = sshbuf_get_bignum1(m, k->rsa->p)) != 0) /* q */
    goto out;

/* Generate additional parameters */
if ((r = rsa_generate_additional_parameters(k->rsa)) != 0)
    goto out;
/* enable blinding */
if (RSA_blinding_on(k->rsa, NULL) != 1) {
    r = SSH_ERR_LIBCRYPTO_ERROR;
    goto out;
}

r = 0; /* success */
out:
if (r == 0)
    *kp = k;
else
    sshkey_free(k);
return r;
}
#endif /* WITH_SSH1 */

static void
process_add_identity(SocketEntry *e, int version)
{
    Idtab *tab = idtab_lookup(version);
    Identity *id;
    int success = 0, confirm = 0;
    u_int seconds;
    char *comment = NULL;
    time_t death = 0;
    struct sshkey *k = NULL;
    u_char ctype;
    int r = SSH_ERR_INTERNAL_ERROR;

    switch (version) {
#ifdef WITH_SSH1
    case 1:

```

```

    r = agent_decode_rsa1(e->request, &k);
    break;
#endif /* WITH_SSH1 */
case 2:
    r = sshkey_private_deserialize(e->request, &k);
    break;
}
if (r != 0 || k == NULL ||
    (r = sshbuf_get_cstring(e->request, &comment, NULL)) != 0) {
    error("%s: decode private key: %s", __func__, ssh_err(r));
    goto err;
}

while (sshbuf_len(e->request)) {
    if ((r = sshbuf_get_u8(e->request, &ctype)) != 0) {
        error("%s: buffer error: %s", __func__, ssh_err(r));
        goto err;
    }
    switch (ctype) {
    case SSH_AGENT_CONSTRAIN_LIFETIME:
        if ((r = sshbuf_get_u32(e->request, &seconds)) != 0) {
            error("%s: bad lifetime constraint: %s",
                __func__, ssh_err(r));
            goto err;
        }
        death = monotime() + seconds;
        break;
    case SSH_AGENT_CONSTRAIN_CONFIRM:
        confirm = 1;
        break;
    default:
        error("%s: Unknown constraint %d", __func__, ctype);
    }
err:
    sshbuf_reset(e->request);
    free(comment);
    sshkey_free(k);
    goto send;
}

success = 1;
if (lifetime && !death)
    death = monotime() + lifetime;
if ((id = lookup_identity(k, version)) == NULL) {
    id = xcalloc(1, sizeof(Identity));
    id->key = k;
    TAILQ_INSERT_TAIL(&tab->idlist, id, next);
    /* Increment the number of identities. */
}

```

```

tab->nentries++;
} else {
sshkey_free(k);
free(id->comment);
}
id->comment = comment;
id->death = death;
id->confirm = confirm;
send:
send_status(e, success);
}

/* XXX todo: encrypt sensitive data with passphrase */
static void
process_lock_agent(SocketEntry *e, int lock)
{
int r, success = 0, delay;
char *passwd, passwdhash[LOCK_SIZE];
static u_int fail_count = 0;
size_t pwlen;

if ((r = sshbuf_get_cstring(e->request, &passwd, &pwlen)) != 0)
fatal("%s: buffer error: %s", __func__, ssh_err(r));
if (pwlen == 0) {
debug("empty password not supported");
} else if (locked && !lock) {
if (bcrypt_pbkdf(passwd, pwlen, lock_salt, sizeof(lock_salt),
passwdhash, sizeof(passwdhash), LOCK_ROUNDS) < 0)
fatal("bcrypt_pbkdf");
if (timingsafe_bcmp(passwdhash, lock_passwd, LOCK_SIZE) == 0) {
debug("agent unlocked");
locked = 0;
fail_count = 0;
explicit_bzero(lock_passwd, sizeof(lock_passwd));
success = 1;
} else {
/* delay in 0.1s increments up to 10s */
if (fail_count < 100)
fail_count++;
delay = 100000 * fail_count;
debug("unlock failed, delaying %0.1lf seconds",
(double)delay/1000000);
usleep(delay);
}
explicit_bzero(passwdhash, sizeof(passwdhash));
} else if (!locked && lock) {
debug("agent locked");
locked = 1;
}
}

```



```

arc4random_buf(lock_salt, sizeof(lock_salt));
if (bcrypt_pbkdf(passwd, pwlen, lock_salt, sizeof(lock_salt),
    lock_passwd, sizeof(lock_passwd), LOCK_ROUNDS) < 0)
    fatal("bcrypt_pbkdf");
success = 1;
}
explicit_bzero(passwd, pwlen);
free(passwd);
send_status(e, success);
}

```

static void

no\_identities(SocketEntry \*e, u\_int type)

```

{
    struct sshbuf *msg;
    int r;

    if ((msg = sshbuf_new()) == NULL)
        fatal("%s: sshbuf_new failed", __func__);
    if ((r = sshbuf_put_u8(msg,
        (type == SSH_AGENTC_REQUEST_RSA_IDENTITIES) ?
        SSH_AGENT_RSA_IDENTITIES_ANSWER :
        SSH2_AGENT_IDENTITIES_ANSWER)) != 0 ||
        (r = sshbuf_put_u32(msg, 0)) != 0 ||
        (r = sshbuf_put_stringb(e->output, msg)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));
    sshbuf_free(msg);
}

```

#ifdef ENABLE\_PKCS11

static void

process\_add\_smartcard\_key(SocketEntry \*e)

```

{
    char *provider = NULL, *pin;
    int r, i, version, count = 0, success = 0, confirm = 0;
    u_int seconds;
    time_t death = 0;
    u_char type;
    struct sshkey **keys = NULL, *k;
    Identity *id;
    Idtab *tab;

    if ((r = sshbuf_get_cstring(e->request, &provider, NULL)) != 0 ||
        (r = sshbuf_get_cstring(e->request, &pin, NULL)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));

    while (sshbuf_len(e->request) {
        if ((r = sshbuf_get_u8(e->request, &type)) != 0)

```

```

fatal("%s: buffer error: %s", __func__, ssh_err(r));
switch (type) {
case SSH_AGENT_CONSTRAIN_LIFETIME:
if ((r = sshbuf_get_u32(e->request, &seconds)) != 0)
fatal("%s: buffer error: %s",
__func__, ssh_err(r));
death = monotime() + seconds;
break;
case SSH_AGENT_CONSTRAIN_CONFIRM:
confirm = 1;
break;
default:
error("process_add_smartcard_key: "
"Unknown constraint type %d", type);
goto send;
}
}
if (lifetime && !death)
death = monotime() + lifetime;

count = pkcs11_add_provider(provider, pin, &keys);
for (i = 0; i < count; i++) {
k = keys[i];
version = k->type == KEY_RSA1 ? 1 : 2;
tab = idtab_lookup(version);
if (lookup_identity(k, version) == NULL) {
id = xcalloc(1, sizeof(Identity));
id->key = k;
id->provider = xstrdup(provider);
id->comment = xstrdup(provider); /* XXX */
id->death = death;
id->confirm = confirm;
TAILQ_INSERT_TAIL(&tab->idlist, id, next);
tab->nentries++;
success = 1;
} else {
sshkey_free(k);
}
keys[i] = NULL;
}
send:
free(pin);
free(provider);
free(keys);
send_status(e, success);
}

static void

```

```

process_remove_smartcard_key(SocketEntry *e)
{
    char *provider = NULL, *pin = NULL;
    int r, version, success = 0;
    Identity *id, *nxt;
    Idtab *tab;

    if ((r = sshbuf_get_cstring(e->request, &provider, NULL)) != 0 ||
        (r = sshbuf_get_cstring(e->request, &pin, NULL)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));
    free(pin);

    for (version = 1; version < 3; version++) {
        tab = idtab_lookup(version);
        for (id = TAILQ_FIRST(&tab->idlist); id; id = nxt) {
            nxt = TAILQ_NEXT(id, next);
            /* Skip file--based keys */
            if (id->provider == NULL)
                continue;
            if (!strcmp(provider, id->provider)) {
                TAILQ_REMOVE(&tab->idlist, id, next);
                free_identity(id);
                tab->nentries--;
            }
        }
    }
    if (pkcs11_del_provider(provider) == 0)
        success = 1;
    else
        error("process_remove_smartcard_key:"
            " pkcs11_del_provider failed");
    free(provider);
    send_status(e, success);
}
#endif /* ENABLE_PKCS11 */

/* dispatch incoming messages */

static void
process_message(SocketEntry *e)
{
    u_int msg_len;
    u_char type;
    const u_char *cp;
    int r;

    if (sshbuf_len(e->input) < 5)
        return; /* Incomplete message. */

```

```

cp = sshbuf_ptr(e->input);
msg_len = PEEK_U32(cp);
if (msg_len > 256 * 1024) {
    close_socket(e);
    return;
}
if (sshbuf_len(e->input) < msg_len + 4)
    return;

/* move the current input to e->request */
sshbuf_reset(e->request);
if ((r = sshbuf_get_stringb(e->input, e->request)) != 0 ||
    (r = sshbuf_get_u8(e->request, &type)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));

/* check wheter agent is locked */
if (locked && type != SSH_AGENTC_UNLOCK) {
    sshbuf_reset(e->request);
    switch (type) {
        case SSH_AGENTC_REQUEST_RSA_IDENTITIES:
        case SSH2_AGENTC_REQUEST_IDENTITIES:
            /* send empty lists */
            no_identities(e, type);
            break;
        default:
            /* send a fail message for all other request types */
            send_status(e, 0);
    }
    return;
}

debug("type %d", type);
switch (type) {
    case SSH_AGENTC_LOCK:
    case SSH_AGENTC_UNLOCK:
        process_lock_agent(e, type == SSH_AGENTC_LOCK);
        break;
#ifdef WITH_SSH1
    /* ssh1 */
    case SSH_AGENTC_RSA_CHALLENGE:
        process_authentication_challenge1(e);
        break;
    case SSH_AGENTC_REQUEST_RSA_IDENTITIES:
        process_request_identities(e, 1);
        break;
    case SSH_AGENTC_ADD_RSA_IDENTITY:
    case SSH_AGENTC_ADD_RSA_ID_CONSTRAINED:
        process_add_identity(e, 1);

```

```

break;
case SSH_AGENTC_REMOVE_RSA_IDENTITY:
    process_remove_identity(e, 1);
    break;
#endif
case SSH_AGENTC_REMOVE_ALL_RSA_IDENTITIES:
    process_remove_all_identities(e, 1); /* safe for !WITH_SSH1 */
    break;
/* ssh2 */
case SSH2_AGENTC_SIGN_REQUEST:
    process_sign_request2(e);
    break;
case SSH2_AGENTC_REQUEST_IDENTITIES:
    process_request_identities(e, 2);
    break;
case SSH2_AGENTC_ADD_IDENTITY:
case SSH2_AGENTC_ADD_ID_CONSTRAINED:
    process_add_identity(e, 2);
    break;
case SSH2_AGENTC_REMOVE_IDENTITY:
    process_remove_identity(e, 2);
    break;
case SSH2_AGENTC_REMOVE_ALL_IDENTITIES:
    process_remove_all_identities(e, 2);
    break;
#ifdef ENABLE_PKCS11
case SSH_AGENTC_ADD_SMARTCARD_KEY:
case SSH_AGENTC_ADD_SMARTCARD_KEY_CONSTRAINED:
    process_add_smartcard_key(e);
    break;
case SSH_AGENTC_REMOVE_SMARTCARD_KEY:
    process_remove_smartcard_key(e);
    break;
#endif /* ENABLE_PKCS11 */
default:
    /* Unknown message. Respond with failure. */
    error("Unknown message %d", type);
    sshbuf_reset(e->request);
    send_status(e, 0);
    break;
}
}

static void
new_socket(sock_type type, int fd)
{
    u_int i, old_alloc, new_alloc;

```

```

set_nonblock(fd);

if (fd > max_fd)
    max_fd = fd;

for (i = 0; i < sockets_alloc; i++)
    if (sockets[i].type == AUTH_UNUSED) {
        sockets[i].fd = fd;
        if ((sockets[i].input = sshbuf_new()) == NULL)
            fatal("%s: sshbuf_new failed", __func__);
        if ((sockets[i].output = sshbuf_new()) == NULL)
            fatal("%s: sshbuf_new failed", __func__);
        if ((sockets[i].request = sshbuf_new()) == NULL)
            fatal("%s: sshbuf_new failed", __func__);
        sockets[i].type = type;
        return;
    }
old_alloc = sockets_alloc;
new_alloc = sockets_alloc + 10;
sockets = xreallocarray(sockets, new_alloc, sizeof(sockets[0]));
for (i = old_alloc; i < new_alloc; i++)
    sockets[i].type = AUTH_UNUSED;
sockets_alloc = new_alloc;
sockets[old_alloc].fd = fd;
if ((sockets[old_alloc].input = sshbuf_new()) == NULL)
    fatal("%s: sshbuf_new failed", __func__);
if ((sockets[old_alloc].output = sshbuf_new()) == NULL)
    fatal("%s: sshbuf_new failed", __func__);
if ((sockets[old_alloc].request = sshbuf_new()) == NULL)
    fatal("%s: sshbuf_new failed", __func__);
sockets[old_alloc].type = type;
}

static int
prepare_select(fd_set **fdrp, fd_set **fdwp, int *fdl, u_int *nallocp,
    struct timeval **tvp)
{
    u_int i, sz;
    int n = 0;
    static struct timeval tv;
    time_t deadline;

    for (i = 0; i < sockets_alloc; i++) {
        switch (sockets[i].type) {
        case AUTH_SOCKET:
        case AUTH_CONNECTION:
            n = MAX(n, sockets[i].fd);
            break;

```

```

case AUTH_UNUSED:
    break;
default:
    fatal("Unknown socket type %d", sockets[i].type);
    break;
}
}

sz = howmany(n+1, NFDBITS) * sizeof(fd_mask);
if (*fdrp == NULL || sz > *nallocp) {
    free(*fdrp);
    free(*fdwp);
    *fdrp = xmalloc(sz);
    *fdwp = xmalloc(sz);
    *nallocp = sz;
}
if (n < *fdl)
    debug("XXX shrink: %d < %d", n, *fdl);
*fdl = n;
memset(*fdrp, 0, sz);
memset(*fdwp, 0, sz);

for (i = 0; i < sockets_alloc; i++) {
    switch (sockets[i].type) {
    case AUTH_SOCKET:
    case AUTH_CONNECTION:
        FD_SET(sockets[i].fd, *fdrp);
        if (sshbuf_len(sockets[i].output) > 0)
            FD_SET(sockets[i].fd, *fdwp);
        break;
    default:
        break;
    }
}
deadline = reaper();
if (parent_alive_interval != 0)
    deadline = (deadline == 0) ? parent_alive_interval :
        MIN(deadline, parent_alive_interval);
if (deadline == 0) {
    *tvpp = NULL;
} else {
    tv.tv_sec = deadline;
    tv.tv_usec = 0;
    *tvpp = &tv;
}
return (1);
}

```

```

static void
after_select(fd_set *readset, fd_set *writeset)
{
    struct sockaddr_un sunaddr;
    socklen_t slen;
    char buf[1024];
    int len, sock, r;
    u_int i, orig_alloc;
    uid_t euid;
    gid_t egid;

    for (i = 0, orig_alloc = sockets_alloc; i < orig_alloc; i++)
        switch (sockets[i].type) {
            case AUTH_UNUSED:
                break;
            case AUTH_SOCKET:
                if (FD_ISSET(sockets[i].fd, readset)) {
                    slen = sizeof(sunaddr);
                    sock = accept(sockets[i].fd,
                        (struct sockaddr *)&sunaddr, &slen);
                    if (sock < 0) {
                        error("accept from AUTH_SOCKET: %s",
                            strerror(errno));
                        break;
                    }
                    if (getpeereid(sock, &euid, &egid) < 0) {
                        error("getpeereid %d failed: %s",
                            sock, strerror(errno));
                        close(sock);
                        break;
                    }
                    if ((euid != 0) && (getuid() != euid)) {
                        error("uid mismatch: "
                            "peer euid %u != uid %u",
                            (u_int) euid, (u_int) getuid());
                        close(sock);
                        break;
                    }
                    new_socket(AUTH_CONNECTION, sock);
                }
                break;
            case AUTH_CONNECTION:
                if (sshbuf_len(sockets[i].output) > 0 &&
                    FD_ISSET(sockets[i].fd, writeset)) {
                    len = write(sockets[i].fd,
                        sshbuf_ptr(sockets[i].output),
                        sshbuf_len(sockets[i].output));
                    if (len == -1 && (errno == EAGAIN ||

```



```

        errno == EWOULDBLOCK ||
        errno == EINTR))
    continue;
    if (len <= 0) {
        close_socket(&sockets[i]);
        break;
    }
    if ((r = sshbuf_consume(sockets[i].output,
        len)) != 0)
        fatal("%s: buffer error: %s",
            __func__, ssh_err(r));
    }
    if (FD_ISSET(sockets[i].fd, readset)) {
        len = read(sockets[i].fd, buf, sizeof(buf));
        if (len == -1 && (errno == EAGAIN ||
            errno == EWOULDBLOCK ||
            errno == EINTR))
            continue;
        if (len <= 0) {
            close_socket(&sockets[i]);
            break;
        }
        if ((r = sshbuf_put(sockets[i].input,
            buf, len)) != 0)
            fatal("%s: buffer error: %s",
                __func__, ssh_err(r));
        explicit_bzero(buf, sizeof(buf));
        process_message(&sockets[i]);
    }
    break;
default:
    fatal("Unknown type %d", sockets[i].type);
}
}

static void
cleanup_socket(void)
{
    if (cleanup_pid != 0 && getpid() != cleanup_pid)
        return;
    debug("%s: cleanup", __func__);
    if (socket_name[0])
        unlink(socket_name);
    if (socket_dir[0])
        rmdir(socket_dir);
}

void

```

```

cleanup_exit(int i)
{
    cleanup_socket();
    _exit(i);
}

/*ARGSUSED*/
static void
cleanup_handler(int sig)
{
    cleanup_socket();
#ifdef ENABLE_PKCS11
    pkcs11_terminate();
#endif
    _exit(2);
}

static void
check_parent_exists(void)
{
    /*
     * If our parent has exited then getppid() will return (pid_t)1,
     * so testing for that should be safe.
     */
    if (parent_pid != -1 && getppid() != parent_pid) {
        /* printf("Parent has died - Authentication agent exiting.\n"); */
        cleanup_socket();
        _exit(2);
    }
}

static void
usage(void)
{
    fprintf(stderr,
        "usage: ssh-agent [-c | -s] [-Dd] [-a bind_address] [-E fingerprint_hash]\n"
        "          [-t life] [command [arg ...]]\n"
        "          ssh-agent [-c | -s] -k\n");
    exit(1);
}

int
main(int ac, char **av)
{
    int c_flag = 0, d_flag = 0, D_flag = 0, k_flag = 0, s_flag = 0;
    int sock, fd, ch, result, saved_errno;
    u_int nalloc;
    char *shell, *format, *pidstr, *agentsocket = NULL;

```

```

fd_set *readsetp = NULL, *writesetp = NULL;
#ifdef HAVE_SETRLIMIT
    struct rlimit rlim;
#endif
extern int optind;
extern char *optarg;
pid_t pid;
char pidstrbuff[1 + 3 * sizeof pid];
struct timeval *tvp = NULL;
size_t len;
mode_t prev_mask;

ssh_malloc_init(); /* must be called before any mallocs */
/* Ensure that fds 0, 1 and 2 are open or directed to /dev/null */
sanitise_stdio();

/* drop */
setegid(getgid());
setgid(getgid());

#ifdef HAVE_PRCTL && defined(PR_SET_DUMPABLE)
/* Disable ptrace on Linux without sgid bit */
prctl(PR_SET_DUMPABLE, 0);
#endif

#ifdef WITH_OPENSSL
    OpenSSL_add_all_algorithms();
#endif

__progname = ssh_get_progname(av[0]);
seed_rng();

while ((ch = getopt(ac, av, "cDdksE:a:t:")) != -1) {
    switch (ch) {
        case 'E':
            fingerprint_hash = ssh_digest_alg_by_name(optarg);
            if (fingerprint_hash == -1)
                fatal("Invalid hash algorithm \"%s\"", optarg);
            break;
        case 'c':
            if (s_flag)
                usage();
            c_flag++;
            break;
        case 'k':
            k_flag++;
            break;
        case 's':

```

```

if (c_flag)
    usage();
s_flag++;
break;
case 'd':
if (d_flag || D_flag)
    usage();
d_flag++;
break;
case 'D':
if (d_flag || D_flag)
    usage();
D_flag++;
break;
case 'a':
agentsocket = optarg;
break;
case 't':
if ((lifetime = convtime(optarg)) == -1) {
    fprintf(stderr, "Invalid lifetime\n");
    usage();
}
break;
default:
usage();
}
}
ac -= optind;
av += optind;

if (ac > 0 && (c_flag || k_flag || s_flag || d_flag || D_flag))
    usage();

if (ac == 0 && !c_flag && !s_flag) {
    shell = getenv("SHELL");
    if (shell != NULL && (len = strlen(shell)) > 2 &&
        strcmp(shell + len - 3, "csh", 3) == 0)
        c_flag = 1;
}
if (k_flag) {
    const char *errstr = NULL;

    pidstr = getenv(SSH_AGENTPID_ENV_NAME);
    if (pidstr == NULL) {
        fprintf(stderr, "%s not set, cannot kill agent\n",
            SSH_AGENTPID_ENV_NAME);
        exit(1);
    }
}

```

```

pid = (int)strtonum(pidstr, 2, INT_MAX, &errstr);
if (errstr) {
    fprintf(stderr,
        "%s=\"%s\", which is not a good PID: %s\n",
        SSH_AGENTPID_ENV_NAME, pidstr, errstr);
    exit(1);
}
if (kill(pid, SIGTERM) == -1) {
    perror("kill");
    exit(1);
}
format = c_flag ? "unsetenv %s;\n" : "unset %s;\n";
printf(format, SSH_AUTHSOCKET_ENV_NAME);
printf(format, SSH_AGENTPID_ENV_NAME);
printf("echo Agent pid %ld killed;\n", (long)pid);
exit(0);
}
parent_pid = getpid();

if (agentsocket == NULL) {
    /* Create private directory for agent socket */
    mktemp_proto(socket_dir, sizeof(socket_dir));
    if (mkdtemp(socket_dir) == NULL) {
        perror("mkdtemp: private socket dir");
        exit(1);
    }
    snprintf(socket_name, sizeof socket_name, "%s/agent.%ld", socket_dir,
        (long)parent_pid);
} else {
    /* Try to use specified agent socket */
    socket_dir[0] = '\0';
    strcpy(socket_name, agentsocket, sizeof socket_name);
}

/*
 * Create socket early so it will exist before command gets run from
 * the parent.
 */
prev_mask = umask(0177);
sock = unix_listener(socket_name, SSH_LISTEN_BACKLOG, 0);
if (sock < 0) {
    /* XXX - unix_listener() calls error() not perror() */
    /*socket_name = '\0'; /* Don't unlink any existing file */
    cleanup_exit(1);
}
umask(prev_mask);

/*

```

```

* Fork, and have the parent execute the command, if any, or present
* the socket data. The child continues as the authentication agent.
*/
if (D_flag || d_flag) {
log_init(__progname,
    d_flag ? SYSLOG_LEVEL_DEBUG3 : SYSLOG_LEVEL_INFO,
    SYSLOG_FACILITY_AUTH, 1);
format = c_flag ? "setenv %s %s;\n" : "%s=%s; export %s;\n";
printf(format, SSH_AUTHSOCKET_ENV_NAME, socket_name,
    SSH_AUTHSOCKET_ENV_NAME);
printf("echo Agent pid %ld;\n", (long)parent_pid);
fflush(stdout);
goto skip;
}
pid = fork();
if (pid == -1) {
perror("fork");
cleanup_exit(1);
}
if (pid != 0) { /* Parent - execute the given command. */
close(sock);
snprintf(pidstrbuf, sizeof pidstrbuf, "%ld", (long)pid);
if (ac == 0) {
format = c_flag ? "setenv %s %s;\n" : "%s=%s; export %s;\n";
printf(format, SSH_AUTHSOCKET_ENV_NAME, socket_name,
    SSH_AUTHSOCKET_ENV_NAME);
printf(format, SSH_AGENTPID_ENV_NAME, pidstrbuf,
    SSH_AGENTPID_ENV_NAME);
printf("echo Agent pid %ld;\n", (long)pid);
exit(0);
}
if (setenv(SSH_AUTHSOCKET_ENV_NAME, socket_name, 1) == -1 ||
    setenv(SSH_AGENTPID_ENV_NAME, pidstrbuf, 1) == -1) {
perror("setenv");
exit(1);
}
execvp(av[0], av);
perror(av[0]);
exit(1);
}
/* child */
log_init(__progname, SYSLOG_LEVEL_INFO, SYSLOG_FACILITY_AUTH, 0);

if (setsid() == -1) {
error("setsid: %s", strerror(errno));
cleanup_exit(1);
}

```

```

(void)chdir("/");
if ((fd = open(_PATH_DEVNULL, O_RDWR, 0)) != -1) {
    /* XXX might close listen socket */
    (void)dup2(fd, STDIN_FILENO);
    (void)dup2(fd, STDOUT_FILENO);
    (void)dup2(fd, STDERR_FILENO);
    if (fd > 2)
        close(fd);
}

#ifdef HAVE_SETRLIMIT
    /* deny core dumps, since memory contains unencrypted private keys */
    rlim.rlim_cur = rlim.rlim_max = 0;
    if (setrlimit(RLIMIT_CORE, &rlim) < 0) {
        error("setrlimit RLIMIT_CORE: %s", strerror(errno));
        cleanup_exit(1);
    }
#endif

skip:

cleanup_pid = getpid();

#ifdef ENABLE_PKCS11
    pkcs11_init(0);
#endif
new_socket(AUTH_SOCKET, sock);
if (ac > 0)
    parent_alive_interval = 10;
idtab_init();
signal(SIGPIPE, SIG_IGN);
signal(SIGINT, (d_flag | D_flag) ? cleanup_handler : SIG_IGN);
signal(SIGHUP, cleanup_handler);
signal(SIGTERM, cleanup_handler);
nalloc = 0;

if (pledge("stdio cpath unix id proc exec", NULL) == -1)
    fatal("%s: pledge: %s", __progname, strerror(errno));
platform_pledge_agent();

while (1) {
    prepare_select(&readsetp, &writesetp, &max_fd, &nalloc, &tvp);
    result = select(max_fd + 1, readsetp, writesetp, NULL, tvp);
    saved_errno = errno;
    if (parent_alive_interval != 0)
        check_parent_exists();
    (void) reaper(); /* remove expired keys */
    if (result < 0) {

```

```

if (saved_errno == EINTR)
    continue;
fatal("select: %s", strerror(saved_errno));
} else if (result > 0)
    after_select(readsetp, writesetp);
}
/* NOTREACHED */
}
/* $OpenBSD: ssh-dss.c,v 1.34 2015/12/11 04:21:12 mmcc Exp $ */
/*
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*/

#include "includes.h"

#ifdef WITH_OPENSSL

#include <sys/types.h>

#include <openssl/bn.h>
#include <openssl/dsa.h>
#include <openssl/evp.h>

#include <stdarg.h>
#include <string.h>

#include "sshbuf.h"
#include "compat.h"

```



```

#include "ssherr.h"
#include "digest.h"
#define SSHKEY_INTERNAL
#include "sshkey.h"

#define INTBLOB_LEN 20
#define SIGBLOB_LEN (2*INTBLOB_LEN)

int
ssh_dss_sign(const struct sshkey *key, u_char **sigp, size_t *lenp,
             const u_char *data, size_t datalen, u_int compat)
{
    DSA_SIG *sig = NULL;
    u_char digest[SSH_DIGEST_MAX_LENGTH], sigblob[SIGBLOB_LEN];
    size_t rlen, slen, len, dlen = ssh_digest_bytes(SSH_DIGEST_SHA1);
    struct sshbuf *b = NULL;
    int ret = SSH_ERR_INVALID_ARGUMENT;

    if (lenp != NULL)
        *lenp = 0;
    if (sigp != NULL)
        *sigp = NULL;

    if (key == NULL || key->dsa == NULL ||
        sshkey_type_plain(key->type) != KEY_DSA)
        return SSH_ERR_INVALID_ARGUMENT;
    if (dlen == 0)
        return SSH_ERR_INTERNAL_ERROR;

    if ((ret = ssh_digest_memory(SSH_DIGEST_SHA1, data, datalen,
                                digest, sizeof(digest))) != 0)
        goto out;

    if ((sig = DSA_do_sign(digest, dlen, key->dsa)) == NULL) {
        ret = SSH_ERR_LIBCRYPTO_ERROR;
        goto out;
    }

    rlen = BN_num_bytes(sig->r);
    slen = BN_num_bytes(sig->s);
    if (rlen > INTBLOB_LEN || slen > INTBLOB_LEN) {
        ret = SSH_ERR_INTERNAL_ERROR;
        goto out;
    }
    explicit_bzero(sigblob, SIGBLOB_LEN);
    BN_bn2bin(sig->r, sigblob + SIGBLOB_LEN - INTBLOB_LEN - rlen);
    BN_bn2bin(sig->s, sigblob + SIGBLOB_LEN - slen);
}

```

```

if (compat & SSH_BUG_SIGBLOB) {
    if (sigp != NULL) {
        if ((*sigp = malloc(SIGBLOB_LEN)) == NULL) {
            ret = SSH_ERR_ALLOC_FAIL;
            goto out;
        }
        memcpy(*sigp, sigblob, SIGBLOB_LEN);
    }
    if (lenp != NULL)
        *lenp = SIGBLOB_LEN;
    ret = 0;
} else {
    /* ietf-drafts */
    if ((b = sshbuf_new()) == NULL) {
        ret = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    if ((ret = sshbuf_put_cstring(b, "ssh-dss")) != 0 ||
        (ret = sshbuf_put_string(b, sigblob, SIGBLOB_LEN)) != 0)
        goto out;
    len = sshbuf_len(b);
    if (sigp != NULL) {
        if ((*sigp = malloc(len)) == NULL) {
            ret = SSH_ERR_ALLOC_FAIL;
            goto out;
        }
        memcpy(*sigp, sshbuf_ptr(b), len);
    }
    if (lenp != NULL)
        *lenp = len;
    ret = 0;
}
out:
explicit_bzero(digest, sizeof(digest));
if (sig != NULL)
    DSA_SIG_free(sig);
sshbuf_free(b);
return ret;
}

int
ssh_dss_verify(const struct sshkey *key,
               const u_char *signature, size_t signaturelen,
               const u_char *data, size_t datalen, u_int compat)
{
    DSA_SIG *sig = NULL;
    u_char digest[SSH_DIGEST_MAX_LENGTH], *sigblob = NULL;
    size_t len, dlen = ssh_digest_bytes(SSH_DIGEST_SHA1);

```

```

int ret = SSH_ERR_INTERNAL_ERROR;
struct sshbuf *b = NULL;
char *ktype = NULL;

if (key == NULL || key->dsa == NULL ||
    sshkey_type_plain(key->type) != KEY_DSA)
    return SSH_ERR_INVALID_ARGUMENT;
if (dlen == 0)
    return SSH_ERR_INTERNAL_ERROR;

/* fetch signature */
if (compat & SSH_BUG_SIGBLOB) {
    if ((sigblob = malloc(signaturelen)) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    memcpy(sigblob, signature, signaturelen);
    len = signaturelen;
} else {
    /* ietf-drafts */
    if ((b = sshbuf_from(signature, signaturelen)) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    if (sshbuf_get_cstring(b, &ktype, NULL) != 0 ||
        sshbuf_get_string(b, &sigblob, &len) != 0) {
        ret = SSH_ERR_INVALID_FORMAT;
        goto out;
    }
    if (strcmp("ssh-dss", ktype) != 0) {
        ret = SSH_ERR_KEY_TYPE_MISMATCH;
        goto out;
    }
    if (sshbuf_len(b) != 0) {
        ret = SSH_ERR_UNEXPECTED_TRAILING_DATA;
        goto out;
    }
}

if (len != SIGBLOB_LEN) {
    ret = SSH_ERR_INVALID_FORMAT;
    goto out;
}

/* parse signature */
if ((sig = DSA_SIG_new()) == NULL ||
    (sig->r = BN_new()) == NULL ||
    (sig->s = BN_new()) == NULL) {
    ret = SSH_ERR_ALLOC_FAIL;
    goto out;
}
if ((BN_bin2bn(sigblob, INTBLOB_LEN, sig->r) == NULL) ||

```

```

    (BN_bin2bn(sigblob+ INTBLOB_LEN, INTBLOB_LEN, sig->s) == NULL)) {
ret = SSH_ERR_LIBCRYPTO_ERROR;
goto out;
}

/* sha1 the data */
if ((ret = ssh_digest_memory(SSH_DIGEST_SHA1, data, datalen,
    digest, sizeof(digest))) != 0)
goto out;

switch (DSA_do_verify(digest, dlen, sig, key->dsa)) {
case 1:
ret = 0;
break;
case 0:
ret = SSH_ERR_SIGNATURE_INVALID;
goto out;
default:
ret = SSH_ERR_LIBCRYPTO_ERROR;
goto out;
}

out:
explicit_bzero(digest, sizeof(digest));
if (sig != NULL)
    DSA_SIG_free(sig);
sshbuf_free(b);
free(ktype);
if (sigblob != NULL) {
    explicit_bzero(sigblob, len);
    free(sigblob);
}
return ret;
}
#endif /* WITH_OPENSSL */
/* $OpenBSD: ssh-ecdsa.c,v 1.12 2015/12/11 04:21:12 mmcc Exp $ */
/*
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*/
```

```
#include "includes.h"
```

```
#if defined(WITH_OPENSSL) && defined(OPENSSL_HAS_ECC)
```

```
#include <sys/types.h>
```

```
#include <openssl/bn.h>
```

```
#include <openssl/ec.h>
```

```
#include <openssl/ecdsa.h>
```

```
#include <openssl/evp.h>
```

```
#include <string.h>
```

```
#include "sshbuf.h"
```

```
#include "ssherr.h"
```

```
#include "digest.h"
```

```
#define SSHKEY_INTERNAL
```

```
#include "sshkey.h"
```

```
/* ARGSUSED */
```

```
int
```

```
ssh_ecdsa_sign(const struct sshkey *key, u_char **sigp, size_t *lenp,  
    const u_char *data, size_t datalen, u_int compat)
```

```
{
```

```
    ECDSA_SIG *sig = NULL;
```

```
    int hash_alg;
```

```
    u_char digest[SSH_DIGEST_MAX_LENGTH];
```

```
    size_t len, dlen;
```

```
    struct sshbuf *b = NULL, *bb = NULL;
```

```
    int ret = SSH_ERR_INTERNAL_ERROR;
```

```
    if (lenp != NULL)
```

```
        *lenp = 0;
```

```
    if (sigp != NULL)
```

```
        *sigp = NULL;
```

```

if (key == NULL || key->ecdsa == NULL ||
    sshkey_type_plain(key->type) != KEY_ECDSA)
return SSH_ERR_INVALID_ARGUMENT;

if ((hash_alg = sshkey_ec_nid_to_hash_alg(key->ecdsa_nid)) == -1 ||
    (dlen = ssh_digest_bytes(hash_alg)) == 0)
return SSH_ERR_INTERNAL_ERROR;
if ((ret = ssh_digest_memory(hash_alg, data, datalen,
    digest, sizeof(digest))) != 0)
goto out;

if ((sig = ECDSA_do_sign(digest, dlen, key->ecdsa) == NULL) {
ret = SSH_ERR_LIBCRYPTO_ERROR;
goto out;
}

if ((bb = sshbuf_new()) == NULL || (b = sshbuf_new()) == NULL) {
ret = SSH_ERR_ALLOC_FAIL;
goto out;
}
if ((ret = sshbuf_put_bignum2(bb, sig->r) != 0 ||
    (ret = sshbuf_put_bignum2(bb, sig->s) != 0)
goto out;
if ((ret = sshbuf_put_cstring(b, sshkey_ssh_name_plain(key))) != 0 ||
    (ret = sshbuf_put_stringb(b, bb)) != 0)
goto out;
len = sshbuf_len(b);
if (sigp != NULL) {
if ((*sigp = malloc(len)) == NULL) {
ret = SSH_ERR_ALLOC_FAIL;
goto out;
}
memcpy(*sigp, sshbuf_ptr(b), len);
}
if (lenp != NULL)
*lenp = len;
ret = 0;
out:
explicit_bzero(digest, sizeof(digest));
sshbuf_free(b);
sshbuf_free(bb);
if (sig != NULL)
ECDSA_SIG_free(sig);
return ret;
}

/* ARGSUSED */

```

```

int
ssh_ecdsa_verify(const struct sshkey *key,
    const u_char *signature, size_t signaturelen,
    const u_char *data, size_t datalen, u_int compat)
{
    ECDSA_SIG *sig = NULL;
    int hash_alg;
    u_char digest[SSH_DIGEST_MAX_LENGTH];
    size_t dlen;
    int ret = SSH_ERR_INTERNAL_ERROR;
    struct sshbuf *b = NULL, *sigbuf = NULL;
    char *ktype = NULL;

    if (key == NULL || key->ecdsa == NULL ||
        sshkey_type_plain(key->type) != KEY_ECDSA)
        return SSH_ERR_INVALID_ARGUMENT;

    if ((hash_alg = sshkey_ec_nid_to_hash_alg(key->ecdsa_nid)) == -1 ||
        (dlen = ssh_digest_bytes(hash_alg)) == 0)
        return SSH_ERR_INTERNAL_ERROR;

    /* fetch signature */
    if ((b = sshbuf_from(signature, signaturelen)) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    if (sshbuf_get_cstring(b, &ktype, NULL) != 0 ||
        sshbuf_froms(b, &sigbuf) != 0) {
        ret = SSH_ERR_INVALID_FORMAT;
        goto out;
    }
    if (strcmp(sshkey_ssh_name_plain(key), ktype) != 0) {
        ret = SSH_ERR_KEY_TYPE_MISMATCH;
        goto out;
    }
    if (sshbuf_len(b) != 0) {
        ret = SSH_ERR_UNEXPECTED_TRAILING_DATA;
        goto out;
    }

    /* parse signature */
    if ((sig = ECDSA_SIG_new()) == NULL) {
        ret = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    if (sshbuf_get_bignum2(sigbuf, sig->r) != 0 ||
        sshbuf_get_bignum2(sigbuf, sig->s) != 0) {
        ret = SSH_ERR_INVALID_FORMAT;
        goto out;
    }
}

```

```

if (sshbuf_len(sigbuf) != 0) {
    ret = SSH_ERR_UNEXPECTED_TRAILING_DATA;
    goto out;
}
if ((ret = ssh_digest_memory(hash_alg, data, datalen,
    digest, sizeof(digest))) != 0)
    goto out;

switch (ECDSA_do_verify(digest, dlen, sig, key->ecdsa)) {
case 1:
    ret = 0;
    break;
case 0:
    ret = SSH_ERR_SIGNATURE_INVALID;
    goto out;
default:
    ret = SSH_ERR_LIBCRYPTO_ERROR;
    goto out;
}

out:
explicit_bzero(digest, sizeof(digest));
sshbuf_free(sigbuf);
sshbuf_free(b);
if (sig != NULL)
    ECDSA_SIG_free(sig);
free(ktype);
return ret;
}

#endif /* WITH_OPENSSL && OPENSSL_HAS_ECC */
/* $OpenBSD: ssh-ed25519.c,v 1.6 2015/01/15 21:38:50 markus Exp $ */
/*
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 *
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 */

```



```

#include "includes.h"

#include <sys/types.h>
#include <limits.h>

#include "crypto_api.h"

#include <string.h>
#include <stdarg.h>

#include "log.h"
#include "sshbuf.h"
#define SSHKEY_INTERNAL
#include "sshkey.h"
#include "ssherr.h"
#include "ssh.h"

int
ssh_ed25519_sign(const struct sshkey *key, u_char **sigp, size_t *lenp,
    const u_char *data, size_t datalen, u_int compat)
{
    u_char *sig = NULL;
    size_t slen = 0, len;
    unsigned long long smlen;
    int r, ret;
    struct sshbuf *b = NULL;

    if (lenp != NULL)
        *lenp = 0;
    if (sigp != NULL)
        *sigp = NULL;

    if (key == NULL ||
        sshkey_type_plain(key->type) != KEY_ED25519 ||
        key->ed25519_sk == NULL ||
        datalen >= INT_MAX - crypto_sign_ed25519_BYTES)
        return SSH_ERR_INVALID_ARGUMENT;
    smlen = slen = datalen + crypto_sign_ed25519_BYTES;
    if ((sig = malloc(slen)) == NULL)
        return SSH_ERR_ALLOC_FAIL;

    if ((ret = crypto_sign_ed25519(sig, &smlen, data, datalen,
        key->ed25519_sk)) != 0 || smlen <= datalen) {
        r = SSH_ERR_INVALID_ARGUMENT; /* XXX better error? */
        goto out;
    }
    /* encode signature */
    if ((b = sshbuf_new()) == NULL) {

```

```

r = SSH_ERR_ALLOC_FAIL;
goto out;
}
if ((r = sshbuf_put_cstring(b, "ssh-ed25519")) != 0 ||
    (r = sshbuf_put_string(b, sig, smlen - datalen)) != 0)
    goto out;
len = sshbuf_len(b);
if (sigp != NULL) {
    if ((*sigp = malloc(len)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    memcpy(*sigp, sshbuf_ptr(b), len);
}
if (lenp != NULL)
    *lenp = len;
/* success */
r = 0;
out:
sshbuf_free(b);
if (sig != NULL) {
    explicit_bzero(sig, slen);
    free(sig);
}

return r;
}

int
ssh_ed25519_verify(const struct sshkey *key,
    const u_char *signature, size_t signaturelen,
    const u_char *data, size_t datalen, u_int compat)
{
    struct sshbuf *b = NULL;
    char *ktype = NULL;
    const u_char *sigblob;
    u_char *sm = NULL, *m = NULL;
    size_t len;
    unsigned long long smlen = 0, mlen = 0;
    int r, ret;

    if (key == NULL ||
        sshkey_type_plain(key->type) != KEY_ED25519 ||
        key->ed25519_pk == NULL ||
        datalen >= INT_MAX - crypto_sign_ed25519_BYTES)
        return SSH_ERR_INVALID_ARGUMENT;

    if ((b = sshbuf_from(signature, signaturelen)) == NULL)

```

```

return SSH_ERR_ALLOC_FAIL;
if ((r = sshbuf_get_cstring(b, &ktype, NULL)) != 0 ||
    (r = sshbuf_get_string_direct(b, &sigblob, &len)) != 0)
    goto out;
if (strcmp("ssh-ed25519", ktype) != 0) {
    r = SSH_ERR_KEY_TYPE_MISMATCH;
    goto out;
}
if (sshbuf_len(b) != 0) {
    r = SSH_ERR_UNEXPECTED_TRAILING_DATA;
    goto out;
}
if (len > crypto_sign_ed25519_BYTES) {
    r = SSH_ERR_INVALID_FORMAT;
    goto out;
}
if (datalen >= SIZE_MAX - len) {
    r = SSH_ERR_INVALID_ARGUMENT;
    goto out;
}
smlen = len + datalen;
mlen = smlen;
if ((sm = malloc(smlen)) == NULL || (m = malloc(mlen)) == NULL) {
    r = SSH_ERR_ALLOC_FAIL;
    goto out;
}
memcpy(sm, sigblob, len);
memcpy(sm+len, data, datalen);
if ((ret = crypto_sign_ed25519_open(m, &mlen, sm, smlen,
    key->ed25519_pk)) != 0) {
    debug2("%s: crypto_sign_ed25519_open failed: %d",
        __func__, ret);
}
if (ret != 0 || mlen != datalen) {
    r = SSH_ERR_SIGNATURE_INVALID;
    goto out;
}
/* XXX compare 'm' and 'data' ? */
/* success */
r = 0;
out:
if (sm != NULL) {
    explicit_bzero(sm, smlen);
    free(sm);
}
if (m != NULL) {
    explicit_bzero(m, smlen); /* NB mlen may be invalid if r != 0 */
    free(m);
}

```

```

}
sshbuf_free(b);
free(ktype);
return r;
}
/* $OpenBSD: ssh-gss.h,v 1.11 2014/02/26 20:28:44 djm Exp $ */
/*
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*/

#ifndef _SSH_GSS_H
#define _SSH_GSS_H

#ifdef GSSAPI

#ifdef HAVE_GSSAPI_H
#include <gssapi.h>
#elif defined(HAVE_GSSAPI_GSSAPI_H)
#include <gssapi/gssapi.h>
#endif

#ifdef KRB5
#ifndef HEIMDAL
#ifdef HAVE_GSSAPI_GENERIC_H
#include <gssapi_generic.h>
#elif defined(HAVE_GSSAPI_GSSAPI_GENERIC_H)
#include <gssapi/gssapi_generic.h>
#endif
#endif
#endif

```

```

/* Old MIT Kerberos doesn't seem to define GSS_NT_HOSTBASED_SERVICE */

# if !HAVE_DECL_GSS_C_NT_HOSTBASED_SERVICE
# define GSS_C_NT_HOSTBASED_SERVICE gss_nt_service_name
# endif /* !HAVE_DECL_GSS_C_NT... */

# endif /* !HEIMDAL */
#endif /* KRB5 */

/* draft-ietf-secsh-gsskeyex-06 */
#define SSH2_MSG_USERAUTH_GSSAPI_RESPONSE 60
#define SSH2_MSG_USERAUTH_GSSAPI_TOKEN 61
#define SSH2_MSG_USERAUTH_GSSAPI_EXCHANGE_COMPLETE 63
#define SSH2_MSG_USERAUTH_GSSAPI_ERROR 64
#define SSH2_MSG_USERAUTH_GSSAPI_ERRTOK 65
#define SSH2_MSG_USERAUTH_GSSAPI_MIC 66

#define SSH_GSS_OIDTYPE 0x06

typedef struct {
    char *filename;
    char *envvar;
    char *envval;
    void *data;
} ssh_gssapi_ccache;

typedef struct {
    gss_buffer_desc displayname;
    gss_buffer_desc exportedname;
    gss_cred_id_t creds;
    struct ssh_gssapi_mech_struct *mech;
    ssh_gssapi_ccache store;
} ssh_gssapi_client;

typedef struct ssh_gssapi_mech_struct {
    char *enc_name;
    char *name;
    gss_OID_desc oid;
    int (*dochild) (ssh_gssapi_client *);
    int (*userok) (ssh_gssapi_client *, char *);
    int (*localname) (ssh_gssapi_client *, char **);
    void (*storecreds) (ssh_gssapi_client *);
} ssh_gssapi_mech;

typedef struct {
    OM_uint32 major; /* both */
    OM_uint32 minor; /* both */

```

```

gss_ctx_id_t context; /* both */
gss_name_t name; /* both */
gss_OID oid; /* client */
gss_cred_id_t creds; /* server */
gss_name_t client; /* server */
gss_cred_id_t client_creds; /* server */
} Gssctxt;

extern ssh_gssapi_mech *supported_mechs[];

int ssh_gssapi_check_oid(Gssctxt *, void *, size_t);
void ssh_gssapi_set_oid_data(Gssctxt *, void *, size_t);
void ssh_gssapi_set_oid(Gssctxt *, gss_OID);
void ssh_gssapi_supported_oids(gss_OID_set *);
ssh_gssapi_mech *ssh_gssapi_get_ctype(Gssctxt *);
void ssh_gssapi_prepare_supported_oids(void);
OM_uint32 ssh_gssapi_test_oid_supported(OM_uint32 *, gss_OID, int *);

OM_uint32 ssh_gssapi_import_name(Gssctxt *, const char *);
OM_uint32 ssh_gssapi_init_ctx(Gssctxt *, int,
    gss_buffer_desc *, gss_buffer_desc *, OM_uint32 *);
OM_uint32 ssh_gssapi_accept_ctx(Gssctxt *,
    gss_buffer_desc *, gss_buffer_desc *, OM_uint32 *);
OM_uint32 ssh_gssapi_getclient(Gssctxt *, ssh_gssapi_client *);
void ssh_gssapi_error(Gssctxt *);
char *ssh_gssapi_last_error(Gssctxt *, OM_uint32 *, OM_uint32 *);
void ssh_gssapi_build_ctx(Gssctxt **);
void ssh_gssapi_delete_ctx(Gssctxt **);
OM_uint32 ssh_gssapi_sign(Gssctxt *, gss_buffer_t, gss_buffer_t);
void ssh_gssapi_buildmic(Buffer *, const char *, const char *, const char *);
int ssh_gssapi_check_mechanism(Gssctxt **, gss_OID, const char *);

/* In the server */
OM_uint32 ssh_gssapi_server_ctx(Gssctxt **, gss_OID);
int ssh_gssapi_userok(char *name);
OM_uint32 ssh_gssapi_checkmic(Gssctxt *, gss_buffer_t, gss_buffer_t);
void ssh_gssapi_do_child(char ***, u_int *);
void ssh_gssapi_cleanup_creds(void);
void ssh_gssapi_storecreds(void);

#endif /* GSSAPI */

#endif /* _SSH_GSS_H */
SSH-KEYGEN(1)      General Commands Manual      SSH-KEYGEN(1)

```

## NAME

ssh-keygen M-bM-^@M-^S authentication key generation, management and conversion

## SYNOPSIS

```
ssh-keygen [-q] [-b bits] [-t dsa | ecdsa | ed25519 | rsa | rsa1]
            [-N new_passphrase] [-C comment] [-f output_keyfile]
ssh-keygen -p [-P old_passphrase] [-N new_passphrase] [-f keyfile]
ssh-keygen -i [-m key_format] [-f input_keyfile]
ssh-keygen -e [-m key_format] [-f input_keyfile]
ssh-keygen -y [-f input_keyfile]
ssh-keygen -c [-P passphrase] [-C comment] [-f keyfile]
ssh-keygen -l [-v] [-E fingerprint_hash] [-f input_keyfile]
ssh-keygen -B [-f input_keyfile]
ssh-keygen -D pkcs11
ssh-keygen -F hostname [-f known_hosts_file] [-l]
ssh-keygen -H [-f known_hosts_file]
ssh-keygen -R hostname [-f known_hosts_file]
ssh-keygen -r hostname [-f input_keyfile] [-g]
ssh-keygen -G output_file [-v] [-b bits] [-M memory] [-S start_point]
ssh-keygen -T output_file -f input_file [-v] [-a rounds] [-J num_lines]
            [-j start_line] [-K checkpoint] [-W generator]
ssh-keygen -s ca_key -I certificate_identity [-h] [-n principals]
            [-O option] [-V validity_interval] [-z serial_number] file ...
ssh-keygen -L [-f input_keyfile]
ssh-keygen -A
ssh-keygen -k -f krl_file [-u] [-s ca_public] [-z version_number]
            file ...
ssh-keygen -Q -f krl_file file ...
```

## DESCRIPTION

ssh-keygen generates, manages and converts authentication keys for ssh(1). ssh-keygen can create keys for use by SSH protocol versions 1 and 2. Protocol 1 should not be used and is only offered to support legacy devices. It suffers from a number of cryptographic weaknesses and doesn't support many of the advanced features available for protocol 2.

The type of key to be generated is specified with the -t option. If invoked without any arguments, ssh-keygen will generate an RSA key for use in SSH protocol 2 connections.

ssh-keygen is also used to generate groups for use in Diffie-Hellman group exchange (DH-GEX). See the MODULI GENERATION section for details.

Finally, ssh-keygen can be used to generate and update Key Revocation Lists, and to test whether given keys have been revoked by one. See the KEY REVOCATION LISTS section for details.

Normally each user wishing to use SSH with public key authentication runs this once to create the authentication key in ~/.ssh/identity, ~/.ssh/id\_dsa, ~/.ssh/id\_ecdsa, ~/.ssh/id\_ed25519 or ~/.ssh/id\_rsa. Additionally, the system administrator may use this to generate host

keys, as seen in /etc/rc.

Normally this program generates the key and asks for a file in which to store the private key. The public key is stored in a file with the same name but `M-bM-^@M-^\.pubM-bM-^@M-^]` appended. The program also asks for a passphrase. The passphrase may be empty to indicate no passphrase (host keys must have an empty passphrase), or it may be a string of arbitrary length. A passphrase is similar to a password, except it can be a phrase with a series of words, punctuation, numbers, whitespace, or any string of characters you want. Good passphrases are 10-30 characters long, are not simple sentences or otherwise easily guessable (English prose has only 1-2 bits of entropy per character, and provides very bad passphrases), and contain a mix of upper and lowercase letters, numbers, and non-alphanumeric characters. The passphrase can be changed later by using the `-p` option.

There is no way to recover a lost passphrase. If the passphrase is lost or forgotten, a new key must be generated and the corresponding public key copied to other machines.

For RSA1 keys, there is also a comment field in the key file that is only for convenience to the user to help identify the key. The comment can tell what the key is for, or whatever is useful. The comment is initialized to `M-bM-^@M-^\user@hostM-bM-^@M-^]` when the key is created, but can be changed using the `-c` option.

After a key is generated, instructions below detail where the keys should be placed to be activated.

The options are as follows:

`-A` For each of the key types (`rsa1`, `rsa`, `dsa`, `ecdsa` and `ed25519`) for which host keys do not exist, generate the host keys with the default key file path, an empty passphrase, default bits for the key type, and default comment. This is used by /etc/rc to generate new host keys.

`-a` rounds

When saving a new-format private key (i.e. an `ed25519` key or any SSH protocol 2 key when the `-o` flag is set), this option specifies the number of KDF (key derivation function) rounds used. Higher numbers result in slower passphrase verification and increased resistance to brute-force password cracking (should the keys be stolen).

When screening DH-GEX candidates ( using the `-T` command). This option specifies the number of primality tests to perform.



**-B** Show the bubblebabble digest of specified private or public key file.

**-b** bits

Specifies the number of bits in the key to create. For RSA keys, the minimum size is 1024 bits and the default is 2048 bits. Generally, 2048 bits is considered sufficient. DSA keys must be exactly 1024 bits as specified by FIPS 186-2. For ECDSA keys, the **-b** flag determines the key length by selecting from one of three elliptic curve sizes: 256, 384 or 521 bits. Attempting to use bit lengths other than these three values for ECDSA keys will fail. Ed25519 keys have a fixed length and the **-b** flag will be ignored.

**-C** comment

Provides a new comment.

**-c** Requests changing the comment in the private and public key files. This operation is only supported for RSA1 keys. The program will prompt for the file containing the private keys, for the passphrase if the key has one, and for the new comment.

**-D** pkcs11

Download the RSA public keys provided by the PKCS#11 shared library pkcs11. When used in combination with **-s**, this option indicates that a CA key resides in a PKCS#11 token (see the CERTIFICATES section for details).

**-E** fingerprint\_hash

Specifies the hash algorithm used when displaying key fingerprints. Valid options are: `M-bM-^@M-^\md5M-bM-^@M-^]` and `M-bM-^@M-^\sha256M-bM-^@M-^]`. The default is `M-bM-^@M-^\sha256M-bM-^@M-^]`.

**-e** This option will read a private or public OpenSSH key file and print to stdout the key in one of the formats specified by the **-m** option. The default export format is `M-bM-^@M-^\RFC4716M-bM-^@M-^]`. This option allows exporting OpenSSH keys for use by other programs, including several commercial SSH implementations.

**-F** hostname

Search for the specified hostname in a `known_hosts` file, listing any occurrences found. This option is useful to find hashed host names or addresses and may also be used in conjunction with the **-H** option to print found keys in a hashed format.

**-f** filename

Specifies the filename of the key file.

- G output\_file**  
Generate candidate primes for DH-GEX. These primes must be screened for safety (using the **-T** option) before use.
- g** Use generic DNS format when printing fingerprint resource records using the **-r** command.
- H** Hash a known\_hosts file. This replaces all hostnames and addresses with hashed representations within the specified file; the original content is moved to a file with a .old suffix. These hashes may be used normally by ssh and sshd, but they do not reveal identifying information should the file's contents be disclosed. This option will not modify existing hashed hostnames and is therefore safe to use on files that mix hashed and non-hashed names.
- h** When signing a key, create a host certificate instead of a user certificate. Please see the CERTIFICATES section for details.
- I certificate\_identity**  
Specify the key identity when signing a public key. Please see the CERTIFICATES section for details.
- i** This option will read an unencrypted private (or public) key file in the format specified by the **-m** option and print an OpenSSH compatible private (or public) key to stdout. This option allows importing keys from other software, including several commercial SSH implementations. The default import format is `M-bM-^@M-^[\RFC4716M-bM-^@M-^]`.
- J num\_lines**  
Exit after screening the specified number of lines while performing DH candidate screening using the **-T** option.
- j start\_line**  
Start screening at the specified line number while performing DH candidate screening using the **-T** option.
- K checkpt**  
Write the last line processed to the file checkpt while performing DH candidate screening using the **-T** option. This will be used to skip lines in the input file that have already been processed if the job is restarted.
- k** Generate a KRL file. In this mode, ssh-keygen will generate a KRL file at the location specified via the **-f** flag that revokes every key or certificate presented on the command line. Keys/certificates to be revoked may be specified by public key

file or using the format described in the KEY REVOCATION LISTS section.

**-L** Prints the contents of one or more certificates.

**-l** Show fingerprint of specified public key file. Private RSA1 keys are also supported. For RSA and DSA keys ssh-keygen tries to find the matching public key file and prints its fingerprint. If combined with **-v**, an ASCII art representation of the key is supplied with the fingerprint.

**-M** memory

Specify the amount of memory to use (in megabytes) when generating candidate moduli for DH-GEX.

**-m** key\_format

Specify a key format for the **-i** (import) or **-e** (export) conversion options. The supported key formats are: M-bM-^@M-^RFC4716M-bM-^@M-^] (RFC 4716/SSH2 public or private key), M-bM-^@M-^PKCS8M-bM-^@M-^] (PEM PKCS8 public key) or M-bM-^@M-^PEMM-bM-^@M-^] (PEM public key). The default conversion format is M-bM-^@M-^RFC4716M-bM-^@M-^].

**-N** new\_passphrase

Provides the new passphrase.

**-n** principals

Specify one or more principals (user or host names) to be included in a certificate when signing a key. Multiple principals may be specified, separated by commas. Please see the CERTIFICATES section for details.

**-O** option

Specify a certificate option when signing a key. This option may be specified multiple times. Please see the CERTIFICATES section for details. The options that are valid for user certificates are:

**clear** Clear all enabled permissions. This is useful for clearing the default set of permissions so permissions may be added individually.

**force-command=command**

Forces the execution of command instead of any shell or command specified by the user when the certificate is used for authentication.

**no-agent-forwarding**

Disable ssh-agent(1) forwarding (permitted by default).

no-port-forwarding

Disable port forwarding (permitted by default).

no-pty Disable PTY allocation (permitted by default).

no-user-rc

Disable execution of ~/.ssh/rc by sshd(8) (permitted by default).

no-x11-forwarding

Disable X11 forwarding (permitted by default).

permit-agent-forwarding

Allows ssh-agent(1) forwarding.

permit-port-forwarding

Allows port forwarding.

permit-pty

Allows PTY allocation.

permit-user-rc

Allows execution of ~/.ssh/rc by sshd(8).

permit-x11-forwarding

Allows X11 forwarding.

source-address=address\_list

Restrict the source addresses from which the certificate is considered valid. The address\_list is a comma-separated list of one or more address/netmask pairs in CIDR format.

At present, no options are valid for host keys.

- o Causes ssh-keygen to save private keys using the new OpenSSH format rather than the more compatible PEM format. The new format has increased resistance to brute-force password cracking but is not supported by versions of OpenSSH prior to 6.5. Ed25519 keys always use the new private key format.

-P passphrase

Provides the (old) passphrase.

- p Requests changing the passphrase of a private key file instead of creating a new private key. The program will prompt for the file containing the private key, for the old passphrase, and twice for

the new passphrase.

**-Q** Test whether keys have been revoked in a KRL.

**-q** Silence ssh-keygen.

**-R hostname**

Removes all keys belonging to hostname from a known\_hosts file.

This option is useful to delete hashed hosts (see the **-H** option above).

**-r hostname**

Print the SSHFP fingerprint resource record named hostname for the specified public key file.

**-S start**

Specify start point (in hex) when generating candidate moduli for DH-GEX.

**-s ca\_key**

Certify (sign) a public key using the specified CA key. Please see the CERTIFICATES section for details.

When generating a KRL, **-s** specifies a path to a CA public key file used to revoke certificates directly by key ID or serial number. See the KEY REVOCATION LISTS section for details.

**-T output\_file**

Test DH group exchange candidate primes (generated using the **-G** option) for safety.

**-t dsa | ecdsa | ed25519 | rsa | rsa1**

Specifies the type of key to create. The possible values are

M-bM-^@M-^\rsa1M-bM-^@M-^] for protocol version 1 and M-bM-^@M-^\dsaM-bM-^@M-^], M-bM-^@M-^\ecdsaM-bM-^@M-^], M-bM-^@M-^\ed25519M-bM-^@M-^], or M-bM-^@M-^\rsaM-bM-^@M-^] for protocol version 2.

**-u** Update a KRL. When specified with **-k**, keys listed via the command line are added to the existing KRL rather than a new KRL being created.

**-V validity\_interval**

Specify a validity interval when signing a certificate. A validity interval may consist of a single time, indicating that the certificate is valid beginning now and expiring at that time, or may consist of two times separated by a colon to indicate an explicit time interval. The start time may be specified as a date in YYYYMMDD format, a time in YYYYMMDDHHMMSS format or a

relative time (to the current time) consisting of a minus sign followed by a relative time in the format described in the TIME FORMATS section of sshd\_config(5). The end time may be specified as a YYYYMMDD date, a YYYYMMDDHHMMSS time or a relative time starting with a plus character.

For example: M-bM-^@M-^\+52w1dM-bM-^@M-^] (valid from now to 52 weeks and one day from now), M-bM-^@M-^\-4w:+4wM-bM-^@M-^] (valid from four weeks ago to four weeks from now), M-bM-^@M-^\20100101123000:20110101123000M-bM-^@M-^] (valid from 12:30 PM, January 1st, 2010 to 12:30 PM, January 1st, 2011), M-bM-^@M-^\-1d:20110101M-bM-^@M-^] (valid from yesterday to midnight, January 1st, 2011).

-v Verbose mode. Causes ssh-keygen to print debugging messages about its progress. This is helpful for debugging moduli generation. Multiple -v options increase the verbosity. The maximum is 3.

-W generator

Specify desired generator when testing candidate moduli for DH-GEX.

-y This option will read a private OpenSSH format file and print an OpenSSH public key to stdout.

-z serial\_number

Specifies a serial number to be embedded in the certificate to distinguish this certificate from others from the same CA. The default serial number is zero.

When generating a KRL, the -z flag is used to specify a KRL version number.

## MODULI GENERATION

ssh-keygen may be used to generate groups for the Diffie-Hellman Group Exchange (DH-GEX) protocol. Generating these groups is a two-step process: first, candidate primes are generated using a fast, but memory intensive process. These candidate primes are then tested for suitability (a CPU-intensive process).

Generation of primes is performed using the -G option. The desired length of the primes may be specified by the -b option. For example:

```
# ssh-keygen -G moduli-2048.candidates -b 2048
```

By default, the search for primes begins at a random point in the desired length range. This may be overridden using the -S option, which specifies a different start point (in hex).

Once a set of candidates have been generated, they must be screened for suitability. This may be performed using the -T option. In this mode ssh-keygen will read candidates from standard input (or a file specified using the -f option). For example:

```
# ssh-keygen -T moduli-2048 -f moduli-2048.candidates
```

By default, each candidate will be subjected to 100 primality tests. This may be overridden using the -a option. The DH generator value will be chosen automatically for the prime under consideration. If a specific generator is desired, it may be requested using the -W option. Valid generator values are 2, 3, and 5.

Screened DH groups may be installed in /etc/moduli. It is important that this file contains moduli of a range of bit lengths and that both ends of a connection share common moduli.

## CERTIFICATES

ssh-keygen supports signing of keys to produce certificates that may be used for user or host authentication. Certificates consist of a public key, some identity information, zero or more principal (user or host) names and a set of options that are signed by a Certification Authority (CA) key. Clients or servers may then trust only the CA key and verify its signature on a certificate rather than trusting many user/host keys. Note that OpenSSH certificates are a different, and much simpler, format to the X.509 certificates used in ssl(8).

ssh-keygen supports two types of certificates: user and host. User certificates authenticate users to servers, whereas host certificates authenticate server hosts to users. To generate a user certificate:

```
$ ssh-keygen -s /path/to/ca_key -I key_id /path/to/user_key.pub
```

The resultant certificate will be placed in /path/to/user\_key-cert.pub. A host certificate requires the -h option:

```
$ ssh-keygen -s /path/to/ca_key -I key_id -h /path/to/host_key.pub
```

The host certificate will be output to /path/to/host\_key-cert.pub.

It is possible to sign using a CA key stored in a PKCS#11 token by providing the token library using -D and identifying the CA key by providing its public half as an argument to -s:

```
$ ssh-keygen -s ca_key.pub -D libpkcs11.so -I key_id user_key.pub
```

In all cases, key\_id is a "key identifier" that is logged by the server when the certificate is used for authentication.

Certificates may be limited to be valid for a set of principal (user/host) names. By default, generated certificates are valid for all users or hosts. To generate a certificate for a specified set of principals:

```
$ ssh-keygen -s ca_key -I key_id -n user1,user2 user_key.pub
$ ssh-keygen -s ca_key -I key_id -h -n host.domain host_key.pub
```

Additional limitations on the validity and use of user certificates may be specified through certificate options. A certificate option may disable features of the SSH session, may be valid only when presented from particular source addresses or may force the use of a specific command. For a list of valid certificate options, see the documentation for the `-O` option above.

Finally, certificates may be defined with a validity lifetime. The `-V` option allows specification of certificate start and end times. A certificate that is presented at a time outside this range will not be considered valid. By default, certificates are valid from UNIX Epoch to the distant future.

For certificates to be used for user or host authentication, the CA public key must be trusted by `sshd(8)` or `ssh(1)`. Please refer to those manual pages for details.

## KEY REVOCATION LISTS

`ssh-keygen` is able to manage OpenSSH format Key Revocation Lists (KRLs). These binary files specify keys or certificates to be revoked using a compact format, taking as little as one bit per certificate if they are being revoked by serial number.

KRLs may be generated using the `-k` flag. This option reads one or more files from the command line and generates a new KRL. The files may either contain a KRL specification (see below) or public keys, listed one per line. Plain public keys are revoked by listing their hash or contents in the KRL and certificates revoked by serial number or key ID (if the serial is zero or not available).

Revoking keys using a KRL specification offers explicit control over the types of record used to revoke keys and may be used to directly revoke certificates by serial number or key ID without having the complete original certificate on hand. A KRL specification consists of lines containing one of the following directives followed by a colon and some directive-specific information.

```
serial: serial_number[-serial_number]
```

Revokes a certificate with the specified serial number. Serial



numbers are 64-bit values, not including zero and may be expressed in decimal, hex or octal. If two serial numbers are specified separated by a hyphen, then the range of serial numbers including and between each is revoked. The CA key must have been specified on the ssh-keygen command line using the -s option.

id: key\_id

Revokes a certificate with the specified key ID string. The CA key must have been specified on the ssh-keygen command line using the -s option.

key: public\_key

Revokes the specified key. If a certificate is listed, then it is revoked as a plain public key.

sha1: public\_key

Revokes the specified key by its SHA1 hash.

KRLs may be updated using the -u flag in addition to -k. When this option is specified, keys listed via the command line are merged into the KRL, adding to those already there.

It is also possible, given a KRL, to test whether it revokes a particular key (or keys). The -Q flag will query an existing KRL, testing each key specified on the command line. If any key listed on the command line has been revoked (or an error encountered) then ssh-keygen will exit with a non-zero exit status. A zero exit status will only be returned if no key was revoked.

## FILES

~/.ssh/identity

Contains the protocol version 1 RSA authentication identity of the user. This file should not be readable by anyone but the user. It is possible to specify a passphrase when generating the key; that passphrase will be used to encrypt the private part of this file using 3DES. This file is not automatically accessed by ssh-keygen but it is offered as the default file for the private key. ssh(1) will read this file when a login attempt is made.

~/.ssh/identity.pub

Contains the protocol version 1 RSA public key for authentication. The contents of this file should be added to ~/.ssh/authorized\_keys on all machines where the user wishes to log in using RSA authentication. There is no need to keep the contents of this file secret.

~/.ssh/id\_dsa

~/.ssh/id\_ecdsa

~/.ssh/id\_ed25519

~/.ssh/id\_rsa

Contains the protocol version 2 DSA, ECDSA, Ed25519 or RSA authentication identity of the user. This file should not be readable by anyone but the user. It is possible to specify a passphrase when generating the key; that passphrase will be used to encrypt the private part of this file using 128-bit AES. This file is not automatically accessed by ssh-keygen but it is offered as the default file for the private key. ssh(1) will read this file when a login attempt is made.

~/.ssh/id\_dsa.pub

~/.ssh/id\_ecdsa.pub

~/.ssh/id\_ed25519.pub

~/.ssh/id\_rsa.pub

Contains the protocol version 2 DSA, ECDSA, Ed25519 or RSA public key for authentication. The contents of this file should be added to ~/.ssh/authorized\_keys on all machines where the user wishes to log in using public key authentication. There is no need to keep the contents of this file secret.

/etc/moduli

Contains Diffie-Hellman groups used for DH-GEX. The file format is described in moduli(5).

#### SEE ALSO

ssh(1), ssh-add(1), ssh-agent(1), moduli(5), sshd(8)

The Secure Shell (SSH) Public Key File Format, RFC 4716, 2006.

#### AUTHORS

OpenSSH is a derivative of the original and free ssh 1.2.12 release by Tatu Ylonen. Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos, Theo de Raadt and Dug Song removed many bugs, re-added newer features and created OpenSSH. Markus Friedl contributed the support for SSH protocol versions 1.5 and 2.0.

OpenBSD 5.9

February 17, 2016

OpenBSD 5.9

." \$OpenBSD: ssh-keygen.1,v 1.130 2016/02/17 07:38:19 jmc Exp \$

."

." Author: Tatu Ylonen <ylo@cs.hut.fi>

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```

.\" called by a name other than "ssh" or "Secure Shell".
.\"
.\"
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.\"
.Dd $Mdocdate: February 17 2016 $
.Dt SSH-KEYGEN 1
.Os
.Sh NAME
.Nm ssh-keygen
.Nd authentication key generation, management and conversion
.Sh SYNOPSIS
.Bk -words
.Nm ssh-keygen
.Op Fl q
.Op Fl b Ar bits
.Op Fl t Cm dsa | ecdsa | ed25519 | rsa | rsa1
.Op Fl N Ar new_passphrase
.Op Fl C Ar comment
.Op Fl f Ar output_keyfile
.Nm ssh-keygen
.Fl p
.Op Fl P Ar old_passphrase
.Op Fl N Ar new_passphrase
.Op Fl f Ar keyfile
.Nm ssh-keygen

```

.Fl i  
.Op Fl m Ar key\_format  
.Op Fl f Ar input\_keyfile  
.Nm ssh-keygen  
.Fl e  
.Op Fl m Ar key\_format  
.Op Fl f Ar input\_keyfile  
.Nm ssh-keygen  
.Fl y  
.Op Fl f Ar input\_keyfile  
.Nm ssh-keygen  
.Fl c  
.Op Fl P Ar passphrase  
.Op Fl C Ar comment  
.Op Fl f Ar keyfile  
.Nm ssh-keygen  
.Fl l  
.Op Fl v  
.Op Fl E Ar fingerprint\_hash  
.Op Fl f Ar input\_keyfile  
.Nm ssh-keygen  
.Fl B  
.Op Fl f Ar input\_keyfile  
.Nm ssh-keygen  
.Fl D Ar pkcs11  
.Nm ssh-keygen  
.Fl F Ar hostname  
.Op Fl f Ar known\_hosts\_file  
.Op Fl l  
.Nm ssh-keygen  
.Fl H  
.Op Fl f Ar known\_hosts\_file  
.Nm ssh-keygen  
.Fl R Ar hostname  
.Op Fl f Ar known\_hosts\_file  
.Nm ssh-keygen  
.Fl r Ar hostname  
.Op Fl f Ar input\_keyfile  
.Op Fl g  
.Nm ssh-keygen  
.Fl G Ar output\_file  
.Op Fl v  
.Op Fl b Ar bits  
.Op Fl M Ar memory  
.Op Fl S Ar start\_point  
.Nm ssh-keygen  
.Fl T Ar output\_file  
.Fl f Ar input\_file

```

.Op Fl v
.Op Fl a Ar rounds
.Op Fl J Ar num_lines
.Op Fl j Ar start_line
.Op Fl K Ar checkpt
.Op Fl W Ar generator
.Nm ssh-keygen
.Fl s Ar ca_key
.Fl I Ar certificate_identity
.Op Fl h
.Op Fl n Ar principals
.Op Fl O Ar option
.Op Fl V Ar validity_interval
.Op Fl z Ar serial_number
.Ar
.Nm ssh-keygen
.Fl L
.Op Fl f Ar input_keyfile
.Nm ssh-keygen
.Fl A
.Nm ssh-keygen
.Fl k
.Fl f Ar krl_file
.Op Fl u
.Op Fl s Ar ca_public
.Op Fl z Ar version_number
.Ar
.Nm ssh-keygen
.Fl Q
.Fl f Ar krl_file
.Ar
.Ek
.Sh DESCRIPTION
.Nm
generates, manages and converts authentication keys for
.Xr ssh 1 .
.Nm
can create keys for use by SSH protocol versions 1 and 2.
Protocol 1 should not be used
and is only offered to support legacy devices.
It suffers from a number of cryptographic weaknesses
and doesn't support many of the advanced features available for protocol 2.
.Pp
The type of key to be generated is specified with the
.Fl t
option.
If invoked without any arguments,
.Nm

```

will generate an RSA key for use in SSH protocol 2 connections.

.Pp

.Nm

is also used to generate groups for use in Diffie-Hellman group exchange (DH-GEX).

See the

.Sx MODULI GENERATION

section for details.

.Pp

Finally,

.Nm

can be used to generate and update Key Revocation Lists, and to test whether given keys have been revoked by one.

See the

.Sx KEY REVOCATION LISTS

section for details.

.Pp

Normally each user wishing to use SSH

with public key authentication runs this once to create the authentication key in

.Pa ~/.ssh/identity ,

.Pa ~/.ssh/id\_dsa ,

.Pa ~/.ssh/id\_ecdsa ,

.Pa ~/.ssh/id\_ed25519

or

.Pa ~/.ssh/id\_rsa .

Additionally, the system administrator may use this to generate host keys, as seen in

.Pa /etc/rc .

.Pp

Normally this program generates the key and asks for a file in which to store the private key.

The public key is stored in a file with the same name but

.Dq .pub

appended.

The program also asks for a passphrase.

The passphrase may be empty to indicate no passphrase

(host keys must have an empty passphrase), or it may be a string of arbitrary length.

A passphrase is similar to a password, except it can be a phrase with a series of words, punctuation, numbers, whitespace, or any string of characters you want.

Good passphrases are 10-30 characters long, are

not simple sentences or otherwise easily guessable (English

prose has only 1-2 bits of entropy per character, and provides very bad passphrases), and contain a mix of upper and lowercase letters,

numbers, and non-alphanumeric characters.

The passphrase can be changed later by using the

.Fl p

option.

.Pp

There is no way to recover a lost passphrase.

If the passphrase is lost or forgotten, a new key must be generated and the corresponding public key copied to other machines.

.Pp

For RSA1 keys,

there is also a comment field in the key file that is only for convenience to the user to help identify the key.

The comment can tell what the key is for, or whatever is useful.

The comment is initialized to

.Dq user@host

when the key is created, but can be changed using the

.Fl c

option.

.Pp

After a key is generated, instructions below detail where the keys should be placed to be activated.

.Pp

The options are as follows:

.Bl -tag -width Ds

.It Fl A

For each of the key types (rsa1, rsa, dsa, ecdsa and ed25519)

for which host keys

do not exist, generate the host keys with the default key file path,

an empty passphrase, default bits for the key type, and default comment.

This is used by

.Pa /etc/rc

to generate new host keys.

.It Fl a Ar rounds

When saving a new-format private key (i.e. an ed25519 key or any SSH protocol 2 key when the

.Fl o

flag is set), this option specifies the number of KDF (key derivation function) rounds used.

Higher numbers result in slower passphrase verification and increased resistance to brute-force password cracking (should the keys be stolen).

.Pp

When screening DH-GEX candidates (using the

.Fl T

command).

This option specifies the number of primality tests to perform.

.It Fl B

Show the bubblebabble digest of specified private or public key file.

.It Fl b Ar bits

Specifies the number of bits in the key to create.

For RSA keys, the minimum size is 1024 bits and the default is 2048 bits.

Generally, 2048 bits is considered sufficient.

DSA keys must be exactly 1024 bits as specified by FIPS 186-2.

For ECDSA keys, the

.Fl b

flag determines the key length by selecting from one of three elliptic

curve sizes: 256, 384 or 521 bits.

Attempting to use bit lengths other than these three values for ECDSA keys will fail.

Ed25519 keys have a fixed length and the

.Fl b

flag will be ignored.

.It Fl C Ar comment

Provides a new comment.

.It Fl c

Requests changing the comment in the private and public key files.

This operation is only supported for RSA1 keys.

The program will prompt for the file containing the private keys, for the passphrase if the key has one, and for the new comment.

.It Fl D Ar pkcs11

Download the RSA public keys provided by the PKCS#11 shared library

.Ar pkcs11 .

When used in combination with

.Fl s ,

this option indicates that a CA key resides in a PKCS#11 token (see the

.Sx CERTIFICATES

section for details).

.It Fl E Ar fingerprint\_hash

Specifies the hash algorithm used when displaying key fingerprints.

Valid options are:

.Dq md5

and

.Dq sha256 .

The default is

.Dq sha256 .

.It Fl e

This option will read a private or public OpenSSH key file and

print to stdout the key in one of the formats specified by the

.Fl m

option.

The default export format is

.Dq RFC4716 .

This option allows exporting OpenSSH keys for use by other programs, including several commercial SSH implementations.

.It Fl F Ar hostname

Search for the specified

.Ar hostname

in a



.Pa known\_hosts

file, listing any occurrences found.

This option is useful to find hashed host names or addresses and may also be used in conjunction with the

.Fl H

option to print found keys in a hashed format.

.It Fl f Ar filename

Specifies the filename of the key file.

.It Fl G Ar output\_file

Generate candidate primes for DH-GEX.

These primes must be screened for safety (using the

.Fl T

option) before use.

.It Fl g

Use generic DNS format when printing fingerprint resource records using the

.Fl r

command.

.It Fl H

Hash a

.Pa known\_hosts

file.

This replaces all hostnames and addresses with hashed representations within the specified file; the original content is moved to a file with a .old suffix.

These hashes may be used normally by

.Nm ssh

and

.Nm sshd ,

but they do not reveal identifying information should the file's contents be disclosed.

This option will not modify existing hashed hostnames and is therefore safe to use on files that mix hashed and non-hashed names.

.It Fl h

When signing a key, create a host certificate instead of a user certificate.

Please see the

.Sx CERTIFICATES

section for details.

.It Fl I Ar certificate\_identity

Specify the key identity when signing a public key.

Please see the

.Sx CERTIFICATES

section for details.

.It Fl i

This option will read an unencrypted private (or public) key file in the format specified by the

.Fl m

option and print an OpenSSH compatible private (or public) key to stdout.

This option allows importing keys from other software, including several commercial SSH implementations.

The default import format is

`.Dq RFC4716 .`

`.It Fl J Ar num_lines`

Exit after screening the specified number of lines while performing DH candidate screening using the

`.Fl T`

option.

`.It Fl j Ar start_line`

Start screening at the specified line number while performing DH candidate screening using the

`.Fl T`

option.

`.It Fl K Ar checkpt`

Write the last line processed to the file

`.Ar checkpt`

while performing DH candidate screening using the

`.Fl T`

option.

This will be used to skip lines in the input file that have already been processed if the job is restarted.

`.It Fl k`

Generate a KRL file.

In this mode,

`.Nm`

will generate a KRL file at the location specified via the

`.Fl f`

flag that revokes every key or certificate presented on the command line. Keys/certificates to be revoked may be specified by public key file or using the format described in the

`.Sx KEY REVOCATION LISTS`

section.

`.It Fl L`

Prints the contents of one or more certificates.

`.It Fl l`

Show fingerprint of specified public key file. Private RSA1 keys are also supported.

For RSA and DSA keys

`.Nm`

tries to find the matching public key file and prints its fingerprint. If combined with

`.Fl v ,`

an ASCII art representation of the key is supplied with the fingerprint.

`.It Fl M Ar memory`

Specify the amount of memory to use (in megabytes) when generating

candidate moduli for DH-GEX.

.It Fl m Ar key\_format

Specify a key format for the

.Fl i

(import) or

.Fl e

(export) conversion options.

The supported key formats are:

.Dq RFC4716

(RFC 4716/SSH2 public or private key),

.Dq PKCS8

(PEM PKCS8 public key)

or

.Dq PEM

(PEM public key).

The default conversion format is

.Dq RFC4716 .

.It Fl N Ar new\_passphrase

Provides the new passphrase.

.It Fl n Ar principals

Specify one or more principals (user or host names) to be included in a certificate when signing a key.

Multiple principals may be specified, separated by commas.

Please see the

.Sx CERTIFICATES

section for details.

.It Fl O Ar option

Specify a certificate option when signing a key.

This option may be specified multiple times.

Please see the

.Sx CERTIFICATES

section for details.

The options that are valid for user certificates are:

.Bl -tag -width Ds

.It Ic clear

Clear all enabled permissions.

This is useful for clearing the default set of permissions so permissions may be added individually.

.It Ic force-command Ns = Ns Ar command

Forces the execution of

.Ar command

instead of any shell or command specified by the user when the certificate is used for authentication.

.It Ic no-agent-forwarding

Disable

.Xr ssh-agent 1

forwarding (permitted by default).

.It Ic no-port-forwarding

Disable port forwarding (permitted by default).  
 .It Ic no-pty  
 Disable PTY allocation (permitted by default).  
 .It Ic no-user-rc  
 Disable execution of  
 .Pa ~/.ssh/rc  
 by  
 .Xr sshd 8  
 (permitted by default).  
 .It Ic no-x11-forwarding  
 Disable X11 forwarding (permitted by default).  
 .It Ic permit-agent-forwarding  
 Allows  
 .Xr ssh-agent 1  
 forwarding.  
 .It Ic permit-port-forwarding  
 Allows port forwarding.  
 .It Ic permit-pty  
 Allows PTY allocation.  
 .It Ic permit-user-rc  
 Allows execution of  
 .Pa ~/.ssh/rc  
 by  
 .Xr sshd 8 .  
 .It Ic permit-x11-forwarding  
 Allows X11 forwarding.  
 .It Ic source-address Ns = Ns Ar address\_list  
 Restrict the source addresses from which the certificate is considered valid.  
 The  
 .Ar address\_list  
 is a comma-separated list of one or more address/netmask pairs in CIDR  
 format.  
 .El  
 .Pp  
 At present, no options are valid for host keys.  
 .It Fl o  
 Causes  
 .Nm  
 to save private keys using the new OpenSSH format rather than  
 the more compatible PEM format.  
 The new format has increased resistance to brute-force password cracking  
 but is not supported by versions of OpenSSH prior to 6.5.  
 Ed25519 keys always use the new private key format.  
 .It Fl P Ar passphrase  
 Provides the (old) passphrase.  
 .It Fl p  
 Requests changing the passphrase of a private key file instead of  
 creating a new private key.

The program will prompt for the file containing the private key, for the old passphrase, and twice for the new passphrase.

.It Fl Q

Test whether keys have been revoked in a KRL.

.It Fl q

Silence

.Nm ssh-keygen .

.It Fl R Ar hostname

Removes all keys belonging to

.Ar hostname

from a

.Pa known\_hosts

file.

This option is useful to delete hashed hosts (see the

.Fl H

option above).

.It Fl r Ar hostname

Print the SSHFP fingerprint resource record named

.Ar hostname

for the specified public key file.

.It Fl S Ar start

Specify start point (in hex) when generating candidate moduli for DH-GEX.

.It Fl s Ar ca\_key

Certify (sign) a public key using the specified CA key.

Please see the

.Sx CERTIFICATES

section for details.

.Pp

When generating a KRL,

.Fl s

specifies a path to a CA public key file used to revoke certificates directly by key ID or serial number.

See the

.Sx KEY REVOCATION LISTS

section for details.

.It Fl T Ar output\_file

Test DH group exchange candidate primes (generated using the

.Fl G

option) for safety.

.It Fl t Cm dsa | ecdsa | ed25519 | rsa | rsa1

Specifies the type of key to create.

The possible values are

.Dq rsa1

for protocol version 1 and

.Dq dsa ,

.Dq ecdsa ,

.Dq ed25519 ,

or

.Dq rsa

for protocol version 2.

.It Fl u

Update a KRL.

When specified with

.Fl k ,

keys listed via the command line are added to the existing KRL rather than a new KRL being created.

.It Fl V Ar validity\_interval

Specify a validity interval when signing a certificate.

A validity interval may consist of a single time, indicating that the certificate is valid beginning now and expiring at that time, or may consist of two times separated by a colon to indicate an explicit time interval.

The start time may be specified as a date in YYYYMMDD format, a time in YYYYMMDDHHMMSS format or a relative time (to the current time) consisting of a minus sign followed by a relative time in the format described in the TIME FORMATS section of

.Xr sshd\_config 5 .

The end time may be specified as a YYYYMMDD date, a YYYYMMDDHHMMSS time or a relative time starting with a plus character.

.Pp

For example:

.Dq +52w1d

(valid from now to 52 weeks and one day from now),

.Dq -4w:+4w

(valid from four weeks ago to four weeks from now),

.Dq 20100101123000:20110101123000

(valid from 12:30 PM, January 1st, 2010 to 12:30 PM, January 1st, 2011),

.Dq -1d:20110101

(valid from yesterday to midnight, January 1st, 2011).

.It Fl v

Verbose mode.

Causes

.Nm

to print debugging messages about its progress.

This is helpful for debugging moduli generation.

Multiple

.Fl v

options increase the verbosity.

The maximum is 3.

.It Fl W Ar generator

Specify desired generator when testing candidate moduli for DH-GEX.

.It Fl y

This option will read a private

OpenSSH format file and print an OpenSSH public key to stdout.

.It Fl z Ar serial\_number

Specifies a serial number to be embedded in the certificate to distinguish

this certificate from others from the same CA.

The default serial number is zero.

.Pp

When generating a KRL, the

.Fl z

flag is used to specify a KRL version number.

.El

.Sh MODULI GENERATION

.Nm

may be used to generate groups for the Diffie-Hellman Group Exchange (DH-GEX) protocol.

Generating these groups is a two-step process: first, candidate primes are generated using a fast, but memory intensive process.

These candidate primes are then tested for suitability (a CPU-intensive process).

.Pp

Generation of primes is performed using the

.Fl G

option.

The desired length of the primes may be specified by the

.Fl b

option.

For example:

.Pp

.Dl # ssh-keygen -G moduli-2048.candidates -b 2048

.Pp

By default, the search for primes begins at a random point in the desired length range.

This may be overridden using the

.Fl S

option, which specifies a different start point (in hex).

.Pp

Once a set of candidates have been generated, they must be screened for suitability.

This may be performed using the

.Fl T

option.

In this mode

.Nm

will read candidates from standard input (or a file specified using the

.Fl f

option).

For example:

.Pp

.Dl # ssh-keygen -T moduli-2048 -f moduli-2048.candidates

.Pp

By default, each candidate will be subjected to 100 primality tests.

This may be overridden using the

.Fl a

option.

The DH generator value will be chosen automatically for the prime under consideration.

If a specific generator is desired, it may be requested using the

.Fl W

option.

Valid generator values are 2, 3, and 5.

.Pp

Screened DH groups may be installed in

.Pa /etc/moduli .

It is important that this file contains moduli of a range of bit lengths and that both ends of a connection share common moduli.

.Sh CERTIFICATES

.Nm

supports signing of keys to produce certificates that may be used for user or host authentication.

Certificates consist of a public key, some identity information, zero or more principal (user or host) names and a set of options that are signed by a Certification Authority (CA) key.

Clients or servers may then trust only the CA key and verify its signature on a certificate rather than trusting many user/host keys.

Note that OpenSSH certificates are a different, and much simpler, format to the X.509 certificates used in

.Xr ssl 8 .

.Pp

.Nm

supports two types of certificates: user and host.

User certificates authenticate users to servers, whereas host certificates authenticate server hosts to users.

To generate a user certificate:

.Pp

.Dl \$ ssh-keygen -s /path/to/ca\_key -I key\_id /path/to/user\_key.pub

.Pp

The resultant certificate will be placed in

.Pa /path/to/user\_key-cert.pub .

A host certificate requires the

.Fl h

option:

.Pp

.Dl \$ ssh-keygen -s /path/to/ca\_key -I key\_id -h /path/to/host\_key.pub

.Pp

The host certificate will be output to

.Pa /path/to/host\_key-cert.pub .

.Pp

It is possible to sign using a CA key stored in a PKCS#11 token by providing the token library using

.Fl D



and identifying the CA key by providing its public half as an argument

to

.Fl s :

.Pp

```
.Dl $ ssh-keygen -s ca_key.pub -D libpkcs11.so -I key_id user_key.pub
```

.Pp

In all cases,

.Ar key\_id

is a "key identifier" that is logged by the server when the certificate is used for authentication.

.Pp

Certificates may be limited to be valid for a set of principal (user/host) names.

By default, generated certificates are valid for all users or hosts.

To generate a certificate for a specified set of principals:

.Pp

```
.Dl $ ssh-keygen -s ca_key -I key_id -n user1,user2 user_key.pub
```

```
.Dl "$ ssh-keygen -s ca_key -I key_id -h -n host.domain host_key.pub"
```

.Pp

Additional limitations on the validity and use of user certificates may be specified through certificate options.

A certificate option may disable features of the SSH session, may be valid only when presented from particular source addresses or may force the use of a specific command.

For a list of valid certificate options, see the documentation for the

.Fl O

option above.

.Pp

Finally, certificates may be defined with a validity lifetime.

The

.Fl V

option allows specification of certificate start and end times.

A certificate that is presented at a time outside this range will not be considered valid.

By default, certificates are valid from

.Ux

Epoch to the distant future.

.Pp

For certificates to be used for user or host authentication, the CA public key must be trusted by

.Xr sshd 8

or

.Xr ssh 1 .

Please refer to those manual pages for details.

.Sh KEY REVOCATION LISTS

.Nm

is able to manage OpenSSH format Key Revocation Lists (KRLs).

These binary files specify keys or certificates to be revoked using a

compact format, taking as little as one bit per certificate if they are being revoked by serial number.

.Pp

KRLs may be generated using the

.Fl k

flag.

This option reads one or more files from the command line and generates a new KRL.

The files may either contain a KRL specification (see below) or public keys, listed one per line.

Plain public keys are revoked by listing their hash or contents in the KRL and certificates revoked by serial number or key ID (if the serial is zero or not available).

.Pp

Revoking keys using a KRL specification offers explicit control over the types of record used to revoke keys and may be used to directly revoke certificates by serial number or key ID without having the complete original certificate on hand.

A KRL specification consists of lines containing one of the following directives followed by a colon and some directive-specific information.

.Bl -tag -width Ds

.It Cm serial : Ar serial\_number Ns Op - Ns Ar serial\_number

Revokes a certificate with the specified serial number.

Serial numbers are 64-bit values, not including zero and may be expressed in decimal, hex or octal.

If two serial numbers are specified separated by a hyphen, then the range of serial numbers including and between each is revoked.

The CA key must have been specified on the

.Nm

command line using the

.Fl s

option.

.It Cm id : Ar key\_id

Revokes a certificate with the specified key ID string.

The CA key must have been specified on the

.Nm

command line using the

.Fl s

option.

.It Cm key : Ar public\_key

Revokes the specified key.

If a certificate is listed, then it is revoked as a plain public key.

.It Cm sha1 : Ar public\_key

Revokes the specified key by its SHA1 hash.

.El

.Pp

KRLs may be updated using the

.Fl u

flag in addition to

.Fl k .

When this option is specified, keys listed via the command line are merged into the KRL, adding to those already there.

.Pp

It is also possible, given a KRL, to test whether it revokes a particular key (or keys).

The

.Fl Q

flag will query an existing KRL, testing each key specified on the command line. If any key listed on the command line has been revoked (or an error encountered) then

.Nm

will exit with a non-zero exit status.

A zero exit status will only be returned if no key was revoked.

.Sh FILES

.Bl -tag -width Ds -compact

.It Pa ~/.ssh/identity

Contains the protocol version 1 RSA authentication identity of the user.

This file should not be readable by anyone but the user.

It is possible to

specify a passphrase when generating the key; that passphrase will be used to encrypt the private part of this file using 3DES.

This file is not automatically accessed by

.Nm

but it is offered as the default file for the private key.

.Xr ssh 1

will read this file when a login attempt is made.

.Pp

.It Pa ~/.ssh/identity.pub

Contains the protocol version 1 RSA public key for authentication.

The contents of this file should be added to

.Pa ~/.ssh/authorized\_keys

on all machines

where the user wishes to log in using RSA authentication.

There is no need to keep the contents of this file secret.

.Pp

.It Pa ~/.ssh/id\_dsa

.It Pa ~/.ssh/id\_ecdsa

.It Pa ~/.ssh/id\_ed25519

.It Pa ~/.ssh/id\_rsa

Contains the protocol version 2 DSA, ECDSA, Ed25519 or RSA authentication identity of the user.

This file should not be readable by anyone but the user.

It is possible to

specify a passphrase when generating the key; that passphrase will be used to encrypt the private part of this file using 128-bit AES.

This file is not automatically accessed by

.Nm

but it is offered as the default file for the private key.

.Xr ssh 1

will read this file when a login attempt is made.

.Pp

.It Pa ~/.ssh/id\_dsa.pub

.It Pa ~/.ssh/id\_ecdsa.pub

.It Pa ~/.ssh/id\_ed25519.pub

.It Pa ~/.ssh/id\_rsa.pub

Contains the protocol version 2 DSA, ECDSA, Ed25519 or RSA public key for authentication.

The contents of this file should be added to

.Pa ~/.ssh/authorized\_keys

on all machines

where the user wishes to log in using public key authentication.

There is no need to keep the contents of this file secret.

.Pp

.It Pa /etc/moduli

Contains Diffie-Hellman groups used for DH-GEX.

The file format is described in

.Xr moduli 5 .

.El

.Sh SEE ALSO

.Xr ssh 1 ,

.Xr ssh-add 1 ,

.Xr ssh-agent 1 ,

.Xr moduli 5 ,

.Xr sshd 8

.Rs

.%R RFC 4716

.%T "The Secure Shell (SSH) Public Key File Format"

.%D 2006

.Re

.Sh AUTHORS

OpenSSH is a derivative of the original and free ssh 1.2.12 release by Tatu Ylonen.

Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos, Theo de Raadt and Dug Song removed many bugs, re-added newer features and created OpenSSH.

Markus Friedl contributed the support for SSH protocol versions 1.5 and 2.0.

/\* \$OpenBSD: ssh-keygen.c,v 1.288 2016/02/15 09:47:49 dtucker Exp \$ \*/  
/\*

\* Author: Tatu Ylonen <ylo@cs.hut.fi>

\* Copyright (c) 1994 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland

\* All rights reserved

\* Identity and host key generation and maintenance.

\*  
\* As far as I am concerned, the code I have written for this software  
\* can be used freely for any purpose. Any derived versions of this  
\* software must be clearly marked as such, and if the derived work is  
\* incompatible with the protocol description in the RFC file, it must be  
\* called by a name other than "ssh" or "Secure Shell".  
\*/

```
#include "includes.h"
```

```
#include <sys/types.h>
```

```
#include <sys/socket.h>
```

```
#include <sys/stat.h>
```

```
#ifdef WITH_OPENSSL
```

```
#include <openssl/evp.h>
```

```
#include <openssl/pem.h>
```

```
#include "openbsd-compat/openssl-compat.h"
```

```
#endif
```

```
#include <errno.h>
```

```
#include <fcntl.h>
```

```
#include <netdb.h>
```

```
#ifdef HAVE_PATHS_H
```

```
# include <paths.h>
```

```
#endif
```

```
#include <pwd.h>
```

```
#include <stdarg.h>
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <string.h>
```

```
#include <unistd.h>
```

```
#include <limits.h>
```

```
#include "xmalloc.h"
```

```
#include "sshkey.h"
```

```
#include "rsa.h"
```

```
#include "authfile.h"
```

```
#include "uuencode.h"
```

```
#include "sshbuf.h"
```

```
#include "pathnames.h"
```

```
#include "log.h"
```

```
#include "misc.h"
```

```
#include "match.h"
```

```
#include "hostfile.h"
```

```
#include "dns.h"
```

```
#include "ssh.h"
```

```
#include "ssh2.h"
```

```

#include "ssherr.h"
#include "ssh-pkcs11.h"
#include "atomicio.h"
#include "krl.h"
#include "digest.h"

#ifdef WITH_OPENSSL
# define DEFAULT_KEY_TYPE_NAME "rsa"
#else
# define DEFAULT_KEY_TYPE_NAME "ed25519"
#endif

/* Number of bits in the RSA/DSA key. This value can be set on the command line. */
#define DEFAULT_BITS 2048
#define DEFAULT_BITS_DSA 1024
#define DEFAULT_BITS_ECDSA 256
u_int32_t bits = 0;

/*
 * Flag indicating that we just want to change the passphrase. This can be
 * set on the command line.
 */
int change_passphrase = 0;

/*
 * Flag indicating that we just want to change the comment. This can be set
 * on the command line.
 */
int change_comment = 0;

int quiet = 0;

int log_level = SYSLOG_LEVEL_INFO;

/* Flag indicating that we want to hash a known_hosts file */
int hash_hosts = 0;
/* Flag indicating that we want lookup a host in known_hosts file */
int find_host = 0;
/* Flag indicating that we want to delete a host from a known_hosts file */
int delete_host = 0;

/* Flag indicating that we want to show the contents of a certificate */
int show_cert = 0;

/* Flag indicating that we just want to see the key fingerprint */
int print_fingerprint = 0;
int print_bubblebabble = 0;

```

```

/* Hash algorithm to use for fingerprints. */
int fingerprint_hash = SSH_FP_HASH_DEFAULT;

/* The identity file name, given on the command line or entered by the user. */
char identity_file[1024];
int have_identity = 0;

/* This is set to the passphrase if given on the command line. */
char *identity_passphrase = NULL;

/* This is set to the new passphrase if given on the command line. */
char *identity_new_passphrase = NULL;

/* This is set to the new comment if given on the command line. */
char *identity_comment = NULL;

/* Path to CA key when certifying keys. */
char *ca_key_path = NULL;

/* Certificate serial number */
unsigned long long cert_serial = 0;

/* Key type when certifying */
u_int cert_key_type = SSH2_CERT_TYPE_USER;

/* "key ID" of signed key */
char *cert_key_id = NULL;

/* Comma-separated list of principal names for certifying keys */
char *cert_principals = NULL;

/* Validity period for certificates */
u_int64_t cert_valid_from = 0;
u_int64_t cert_valid_to = ~0ULL;

/* Certificate options */
#define CERTOPT_X_FWD (1)
#define CERTOPT_AGENT_FWD (1<<1)
#define CERTOPT_PORT_FWD (1<<2)
#define CERTOPT_PTY (1<<3)
#define CERTOPT_USER_RC (1<<4)
#define CERTOPT_DEFAULT (CERTOPT_X_FWD|CERTOPT_AGENT_FWD|\
    CERTOPT_PORT_FWD|CERTOPT_PTY|CERTOPT_USER_RC)
u_int32_t certflags_flags = CERTOPT_DEFAULT;
char *certflags_command = NULL;
char *certflags_src_addr = NULL;

/* Conversion to/from various formats */

```

```

int convert_to = 0;
int convert_from = 0;
enum {
    FMT_RFC4716,
    FMT_PKCS8,
    FMT_PEM
} convert_format = FMT_RFC4716;
int print_public = 0;
int print_generic = 0;

char *key_type_name = NULL;

/* Load key from this PKCS#11 provider */
char *pkcs11provider = NULL;

/* Use new OpenSSH private key format when writing SSH2 keys instead of PEM */
int use_new_format = 0;

/* Cipher for new-format private keys */
char *new_format_cipher = NULL;

/*
 * Number of KDF rounds to derive new format keys /
 * number of primality trials when screening moduli.
 */
int rounds = 0;

/* argv0 */
extern char *__progname;

char hostname[NI_MAXHOST];

#ifdef WITH_OPENSSL
/* moduli.c */
int gen_candidates(FILE *, u_int32_t, u_int32_t, BIGNUM *);
int prime_test(FILE *, FILE *, u_int32_t, u_int32_t, char *, unsigned long,
    unsigned long);
#endif

static void
type_bits_valid(int type, const char *name, u_int32_t *bitisp)
{
#ifdef WITH_OPENSSL
    u_int maxbits, nid;
#endif

    if (type == KEY_UNSPEC)
        fatal("unknown key type %s", key_type_name);

```



```

if (*bitssp == 0) {
#ifdef WITH_OPENSSL
if (type == KEY_DSA)
    *bitssp = DEFAULT_BITS_DSA;
else if (type == KEY_ECDSA) {
if (name != NULL &&
    (nid = sshkey_ecdsa_nid_from_name(name)) > 0)
    *bitssp = sshkey_curve_nid_to_bits(nid);
if (*bitssp == 0)
    *bitssp = DEFAULT_BITS_ECDSA;
} else
#endif
    *bitssp = DEFAULT_BITS;
}
#ifdef WITH_OPENSSL
maxbits = (type == KEY_DSA) ?
    OPENSSL_DSA_MAX_MODULUS_BITS : OPENSSL_RSA_MAX_MODULUS_BITS;
if (*bitssp > maxbits)
    fatal("key bits exceeds maximum %d", maxbits);
if (type == KEY_DSA && *bitssp != 1024)
    fatal("DSA keys must be 1024 bits");
else if (type != KEY_ECDSA && type != KEY_ED25519 && *bitssp < 1024)
    fatal("Key must at least be 1024 bits");
else if (type == KEY_ECDSA && sshkey_ecdsa_bits_to_nid(*bitssp) == -1)
    fatal("Invalid ECDSA key length - valid lengths are "
        "256, 384 or 521 bits");
#endif
}

static void
ask_filename(struct passwd *pw, const char *prompt)
{
    char buf[1024];
    char *name = NULL;

    if (key_type_name == NULL)
        name = _PATH_SSH_CLIENT_ID_RSA;
    else {
        switch (sshkey_type_from_name(key_type_name)) {
            case KEY_RSA1:
                name = _PATH_SSH_CLIENT_IDENTITY;
                break;
            case KEY_DSA_CERT:
            case KEY_DSA:
                name = _PATH_SSH_CLIENT_ID_DSA;
                break;
#ifdef OPENSSL_HAS_ECC
            case KEY_ECDSA_CERT:

```

```

case KEY_ECDSA:
    name = _PATH_SSH_CLIENT_ID_ECDSA;
    break;
#endif
case KEY_RSA_CERT:
case KEY_RSA:
    name = _PATH_SSH_CLIENT_ID_RSA;
    break;
case KEY_ED25519:
case KEY_ED25519_CERT:
    name = _PATH_SSH_CLIENT_ID_ED25519;
    break;
default:
    fatal("bad key type");
}
}
snprintf(identity_file, sizeof(identity_file),
    "%s/%s", pw->pw_dir, name);
printf("%s (%s): ", prompt, identity_file);
fflush(stdout);
if (fgets(buf, sizeof(buf), stdin) == NULL)
    exit(1);
buf[strcspn(buf, "\n")] = '\0';
if (strcmp(buf, "") != 0)
    strcpy(identity_file, buf, sizeof(identity_file));
have_identity = 1;
}

static struct sshkey *
load_identity(char *filename)
{
    char *pass;
    struct sshkey *prv;
    int r;

    if ((r = sshkey_load_private(filename, "", &prv, NULL)) == 0)
        return prv;
    if (r != SSH_ERR_KEY_WRONG_PASSPHRASE)
        fatal("Load key \"%s\": %s", filename, ssh_err(r));
    if (identity_passphrase)
        pass = xstrdup(identity_passphrase);
    else
        pass = read_passphrase("Enter passphrase: ", RP_ALLOW_STDIN);
    r = sshkey_load_private(filename, pass, &prv, NULL);
    explicit_bzero(pass, strlen(pass));
    free(pass);
    if (r != 0)
        fatal("Load key \"%s\": %s", filename, ssh_err(r));
}

```

```

return prv;
}

#define SSH_COM_PUBLIC_BEGIN "---- BEGIN SSH2 PUBLIC KEY ----"
#define SSH_COM_PUBLIC_END "---- END SSH2 PUBLIC KEY ----"
#define SSH_COM_PRIVATE_BEGIN "---- BEGIN SSH2 ENCRYPTED PRIVATE KEY ----"
#define SSH_COM_PRIVATE_KEY_MAGIC 0x3f6ff9eb

#ifdef WITH_OPENSSL
static void
do_convert_to_ssh2(struct passwd *pw, struct sshkey *k)
{
    size_t len;
    u_char *blob;
    char comment[61];
    int r;

    if (k->type == KEY_RSA1)
        fatal("version 1 keys are not supported");
    if ((r = sshkey_to_blob(k, &blob, &len)) != 0)
        fatal("key_to_blob failed: %s", ssh_err(r));
    /* Comment + surrounds must fit into 72 chars (RFC 4716 sec 3.3) */
    snprintf(comment, sizeof(comment),
        "%u-bit %s, converted by %s@%s from OpenSSH",
        sshkey_size(k), sshkey_type(k),
        pw->pw_name, hostname);

    fprintf(stdout, "%s\n", SSH_COM_PUBLIC_BEGIN);
    fprintf(stdout, "Comment: \"%s\"\n", comment);
    dump_base64(stdout, blob, len);
    fprintf(stdout, "%s\n", SSH_COM_PUBLIC_END);
    sshkey_free(k);
    free(blob);
    exit(0);
}

static void
do_convert_to_pkcs8(struct sshkey *k)
{
    switch (sshkey_type_plain(k->type)) {
    case KEY_RSA1:
    case KEY_RSA:
        if (!PEM_write_RSA_PUBKEY(stdout, k->rsa))
            fatal("PEM_write_RSA_PUBKEY failed");
        break;
    case KEY_DSA:
        if (!PEM_write_DSA_PUBKEY(stdout, k->dsa))
            fatal("PEM_write_DSA_PUBKEY failed");

```

```

    break;
#ifdef OPENSSSL_HAS_ECC
case KEY_ECDSA:
    if (!PEM_write_EC_PUBKEY(stdout, k->ecdsa))
        fatal("PEM_write_EC_PUBKEY failed");
    break;
#endif
default:
    fatal("%s: unsupported key type %s", __func__, sshkey_type(k));
}
exit(0);
}

```

```

static void
do_convert_to_pem(struct sshkey *k)
{
    switch (sshkey_type_plain(k->type)) {
case KEY_RSA1:
case KEY_RSA:
    if (!PEM_write_RSAPublicKey(stdout, k->rsa))
        fatal("PEM_write_RSAPublicKey failed");
    break;
#ifdef notyet /* OpenSSH 0.9.8 lacks this function */
case KEY_DSA:
    if (!PEM_write_DSAPublicKey(stdout, k->dsa))
        fatal("PEM_write_DSAPublicKey failed");
    break;
#endif
/* XXX ECDSA? */
default:
    fatal("%s: unsupported key type %s", __func__, sshkey_type(k));
}
exit(0);
}

```

```

static void
do_convert_to(struct passwd *pw)
{
    struct sshkey *k;
    struct stat st;
    int r;

    if (!have_identity)
        ask_filename(pw, "Enter file in which the key is");
    if (stat(identity_file, &st) < 0)
        fatal("%s: %s: %s", __progname, identity_file, strerror(errno));
    if ((r = sshkey_load_public(identity_file, &k, NULL)) != 0)
        k = load_identity(identity_file);
}

```

```

switch (convert_format) {
case FMT_RFC4716:
do_convert_to_ssh2(pw, k);
break;
case FMT_PKCS8:
do_convert_to_pkcs8(k);
break;
case FMT_PEM:
do_convert_to_pem(k);
break;
default:
fatal("%s: unknown key format %d", __func__, convert_format);
}
exit(0);
}

/*
* This is almost exactly the bignum1 encoding, but with 32 bit for length
* instead of 16.
*/
static void
buffer_get_bignum_bits(struct sshbuf *b, BIGNUM *value)
{
u_int bytes, bignum_bits;
int r;

if ((r = sshbuf_get_u32(b, &bignum_bits)) != 0)
fatal("%s: buffer error: %s", __func__, ssh_err(r));
bytes = (bignum_bits + 7) / 8;
if (sshbuf_len(b) < bytes)
fatal("%s: input buffer too small: need %d have %zu",
__func__, bytes, sshbuf_len(b));
if (BN_bin2bn(sshbuf_ptr(b), bytes, value) == NULL)
fatal("%s: BN_bin2bn failed", __func__);
if ((r = sshbuf_consume(b, bytes)) != 0)
fatal("%s: buffer error: %s", __func__, ssh_err(r));
}

static struct sshkey *
do_convert_private_ssh2_from_blob(u_char *blob, u_int blen)
{
struct sshbuf *b;
struct sshkey *key = NULL;
char *type, *cipher;
u_char e1, e2, e3, *sig = NULL, data[] = "abcde12345";
int r, rlen, ktype;
u_int magic, i1, i2, i3, i4;
size_t slen;

```

```

u_long e;

if ((b = sshbuf_from(blob, blen)) == NULL)
    fatal("%s: sshbuf_from failed", __func__);
if ((r = sshbuf_get_u32(b, &magic)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));

if (magic != SSH_COM_PRIVATE_KEY_MAGIC) {
    error("bad magic 0x%x != 0x%x", magic,
        SSH_COM_PRIVATE_KEY_MAGIC);
    sshbuf_free(b);
    return NULL;
}
if ((r = sshbuf_get_u32(b, &i1)) != 0 ||
    (r = sshbuf_get_cstring(b, &type, NULL)) != 0 ||
    (r = sshbuf_get_cstring(b, &cipher, NULL)) != 0 ||
    (r = sshbuf_get_u32(b, &i2)) != 0 ||
    (r = sshbuf_get_u32(b, &i3)) != 0 ||
    (r = sshbuf_get_u32(b, &i4)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));
debug("ignore (%d %d %d %d)", i1, i2, i3, i4);
if (strcmp(cipher, "none") != 0) {
    error("unsupported cipher %s", cipher);
    free(cipher);
    sshbuf_free(b);
    free(type);
    return NULL;
}
free(cipher);

if (strstr(type, "dsa")) {
    ktype = KEY_DSA;
} else if (strstr(type, "rsa")) {
    ktype = KEY_RSA;
} else {
    sshbuf_free(b);
    free(type);
    return NULL;
}
if ((key = sshkey_new_private(ktype)) == NULL)
    fatal("key_new_private failed");
free(type);

switch (key->type) {
case KEY_DSA:
    buffer_get_bignum_bits(b, key->dsa->p);
    buffer_get_bignum_bits(b, key->dsa->g);
    buffer_get_bignum_bits(b, key->dsa->q);

```

```

buffer_get_bignum_bits(b, key->dsa->pub_key);
buffer_get_bignum_bits(b, key->dsa->priv_key);
break;
case KEY_RSA:
if ((r = sshbuf_get_u8(b, &e1)) != 0 ||
    (e1 < 30 && (r = sshbuf_get_u8(b, &e2)) != 0) ||
    (e1 < 30 && (r = sshbuf_get_u8(b, &e3)) != 0))
fatal("%s: buffer error: %s", __func__, ssh_err(r));
e = e1;
debug("e %lx", e);
if (e < 30) {
    e <<= 8;
    e += e2;
    debug("e %lx", e);
    e <<= 8;
    e += e3;
    debug("e %lx", e);
}
if (!BN_set_word(key->rsa->e, e) {
    sshbuf_free(b);
    sshkey_free(key);
    return NULL;
}
buffer_get_bignum_bits(b, key->rsa->d);
buffer_get_bignum_bits(b, key->rsa->n);
buffer_get_bignum_bits(b, key->rsa->iqmp);
buffer_get_bignum_bits(b, key->rsa->q);
buffer_get_bignum_bits(b, key->rsa->p);
if ((r = rsa_generate_additional_parameters(key->rsa)) != 0)
    fatal("generate RSA parameters failed: %s", ssh_err(r));
break;
}
rlen = sshbuf_len(b);
if (rlen != 0)
    error("do_convert_private_ssh2_from_blob: "
        "remaining bytes in key blob %d", rlen);
sshbuf_free(b);

/* try the key */
if (sshkey_sign(key, &sig, &slen, data, sizeof(data), NULL, 0) != 0 ||
    sshkey_verify(key, sig, slen, data, sizeof(data), 0) != 0) {
    sshkey_free(key);
    free(sig);
    return NULL;
}
free(sig);
return key;
}

```

```

static int
get_line(FILE *fp, char *line, size_t len)
{
    int c;
    size_t pos = 0;

    line[0] = '\0';
    while ((c = fgetc(fp)) != EOF) {
        if (pos >= len - 1)
            fatal("input line too long.");
        switch (c) {
            case '\r':
                c = fgetc(fp);
                if (c != EOF && c != '\n' && ungetc(c, fp) == EOF)
                    fatal("ungetc: %s", strerror(errno));
                return pos;
            case '\n':
                return pos;
        }
        line[pos++] = c;
        line[pos] = '\0';
    }
    /* We reached EOF */
    return -1;
}

static void
do_convert_from_ssh2(struct passwd *pw, struct sshkey **k, int *private)
{
    int r, blen, escaped = 0;
    u_int len;
    char line[1024];
    u_char blob[8096];
    char encoded[8096];
    FILE *fp;

    if ((fp = fopen(identity_file, "r")) == NULL)
        fatal("%s: %s: %s", __progname, identity_file, strerror(errno));
    encoded[0] = '\0';
    while ((blen = get_line(fp, line, sizeof(line))) != -1) {
        if (blen > 0 && line[blen - 1] == '\\')
            escaped++;
        if (strncmp(line, "----", 4) == 0 ||
            strstr(line, ": ") != NULL) {
            if (strstr(line, SSH_COM_PRIVATE_BEGIN) != NULL)
                *private = 1;
            if (strstr(line, " END ") != NULL) {

```



```

    break;
}
/* fprintf(stderr, "ignore: %s", line); */
continue;
}
if (escaped) {
    escaped--;
    /* fprintf(stderr, "escaped: %s", line); */
    continue;
}
strlcat(encoded, line, sizeof(encoded));
}
len = strlen(encoded);
if (((len % 4) == 3) &&
    (encoded[len-1] == '=') &&
    (encoded[len-2] == '=') &&
    (encoded[len-3] == '='))
    encoded[len-3] = '\0';
blen = uudecode(encoded, blob, sizeof(blob));
if (blen < 0)
    fatal("uudecode failed.");
if (*private)
    *k = do_convert_private_ssh2_from_blob(blob, blen);
else if ((r = sshkey_from_blob(blob, blen, k)) != 0)
    fatal("decode blob failed: %s", ssh_err(r));
fclose(fp);
}

static void
do_convert_from_pkcs8(struct sshkey **k, int *private)
{
    EVP_PKEY *pubkey;
    FILE *fp;

    if ((fp = fopen(identity_file, "r")) == NULL)
        fatal("%s: %s: %s", __progname, identity_file, strerror(errno));
    if ((pubkey = PEM_read_PUBKEY(fp, NULL, NULL, NULL)) == NULL) {
        fatal("%s: %s is not a recognised public key format", __func__,
            identity_file);
    }
    fclose(fp);
    switch (EVP_PKEY_type(pubkey->type)) {
    case EVP_PKEY_RSA:
        if ((*k = sshkey_new(KEY_UNSPEC)) == NULL)
            fatal("sshkey_new failed");
        (*k)->type = KEY_RSA;
        (*k)->rsa = EVP_PKEY_get1_RSA(pubkey);
        break;

```

```

case EVP_PKEY_DSA:
if ((*k = sshkey_new(KEY_UNSPEC)) == NULL)
fatal("sshkey_new failed");
(*k)->type = KEY_DSA;
(*k)->dsa = EVP_PKEY_get1_DSA(pubkey);
break;
#ifdef OPENSSSL_HAS_ECC
case EVP_PKEY_EC:
if ((*k = sshkey_new(KEY_UNSPEC)) == NULL)
fatal("sshkey_new failed");
(*k)->type = KEY_ECDSA;
(*k)->ecdsa = EVP_PKEY_get1_EC_KEY(pubkey);
(*k)->ecdsa_nid = sshkey_ecdsa_key_to_nid((*k)->ecdsa);
break;
#endif
default:
fatal("%s: unsupported pubkey type %d", __func__,
EVP_PKEY_type(pubkey->type));
}
EVP_PKEY_free(pubkey);
return;
}

static void
do_convert_from_pem(struct sshkey **k, int *private)
{
FILE *fp;
RSA *rsa;
#ifdef notyet
DSA *dsa;
#endif

if ((fp = fopen(identity_file, "r")) == NULL)
fatal("%s: %s: %s", __progname, identity_file, strerror(errno));
if ((rsa = PEM_read_RSAPublicKey(fp, NULL, NULL, NULL)) != NULL) {
if ((*k = sshkey_new(KEY_UNSPEC)) == NULL)
fatal("sshkey_new failed");
(*k)->type = KEY_RSA;
(*k)->rsa = rsa;
fclose(fp);
return;
}
#ifdef notyet /* OpenSSH 0.9.8 lacks this function */
rewind(fp);
if ((dsa = PEM_read_DSAPublicKey(fp, NULL, NULL, NULL)) != NULL) {
if ((*k = sshkey_new(KEY_UNSPEC)) == NULL)
fatal("sshkey_new failed");
(*k)->type = KEY_DSA;
}
#endif
}

```

```

(*k)->dsa = dsa;
fclose(fp);
return;
}
/* XXX ECDSA */
#endif
fatal("%s: unrecognised raw private key format", __func__);
}

static void
do_convert_from(struct passwd *pw)
{
    struct sshkey *k = NULL;
    int r, private = 0, ok = 0;
    struct stat st;

    if (!have_identity)
        ask_filename(pw, "Enter file in which the key is");
    if (stat(identity_file, &st) < 0)
        fatal("%s: %s: %s", __progname, identity_file, strerror(errno));

    switch (convert_format) {
    case FMT_RFC4716:
        do_convert_from_ssh2(pw, &k, &private);
        break;
    case FMT_PKCS8:
        do_convert_from_pkcs8(&k, &private);
        break;
    case FMT_PEM:
        do_convert_from_pem(&k, &private);
        break;
    default:
        fatal("%s: unknown key format %d", __func__, convert_format);
    }

    if (!private) {
        if ((r = sshkey_write(k, stdout)) == 0)
            ok = 1;
        if (ok)
            fprintf(stdout, "\n");
    } else {
        switch (k->type) {
        case KEY_DSA:
            ok = PEM_write_DSAPrivateKey(stdout, k->dsa, NULL,
                NULL, 0, NULL, NULL);
            break;
#ifdef OPENSOURCE_HAS_ECC
        case KEY_ECDSA:

```

```

    ok = PEM_write_ECPrivateKey(stdout, k->ecdsa, NULL,
        NULL, 0, NULL, NULL);
    break;
#endif
case KEY_RSA:
    ok = PEM_write_RSAPrivateKey(stdout, k->rsa, NULL,
        NULL, 0, NULL, NULL);
    break;
default:
    fatal("%s: unsupported key type %s", __func__,
        sshkey_type(k));
}
}

```

```

if (!ok)
    fatal("key write failed");
sshkey_free(k);
exit(0);
}
#endif

```

```

static void
do_print_public(struct passwd *pw)
{
    struct sshkey *prv;
    struct stat st;
    int r;

    if (!have_identity)
        ask_filename(pw, "Enter file in which the key is");
    if (stat(identity_file, &st) < 0)
        fatal("%s: %s", identity_file, strerror(errno));
    prv = load_identity(identity_file);
    if ((r = sshkey_write(prv, stdout)) != 0)
        error("key_write failed: %s", ssh_err(r));
    sshkey_free(prv);
    fprintf(stdout, "\n");
    exit(0);
}

```

```

static void
do_download(struct passwd *pw)
{
#ifdef ENABLE_PKCS11
    struct sshkey **keys = NULL;
    int i, nkeys;
    enum sshkey_fp_rep rep;
    int fptype;

```

```

char *fp, *ra;

fptype = print_bubblebabble ? SSH_DIGEST_SHA1 : fingerprint_hash;
rep = print_bubblebabble ? SSH_FP_BUBBLEBABBLE : SSH_FP_DEFAULT;

pkcs11_init(0);
nkeys = pkcs11_add_provider(pkcs11provider, NULL, &keys);
if (nkeys <= 0)
    fatal("cannot read public key from pkcs11");
for (i = 0; i < nkeys; i++) {
    if (print_fingerprint) {
        fp = sshkey_fingerprint(keys[i], fptype, rep);
        ra = sshkey_fingerprint(keys[i], fingerprint_hash,
            SSH_FP_RANDOMART);
        if (fp == NULL || ra == NULL)
            fatal("%s: sshkey_fingerprint fail", __func__);
        printf("%u %s %s (PKCS11 key)\n", sshkey_size(keys[i]),
            fp, sshkey_type(keys[i]));
        if (log_level >= SYSLOG_LEVEL_VERBOSE)
            printf("%s\n", ra);
        free(ra);
        free(fp);
    } else {
        (void) sshkey_write(keys[i], stdout); /* XXX check */
        fprintf(stdout, "\n");
    }
    sshkey_free(keys[i]);
}
free(keys);
pkcs11_terminate();
exit(0);
#else
fatal("no pkcs11 support");
#endif /* ENABLE_PKCS11 */
}

static struct sshkey *
try_read_key(char **cpp)
{
    struct sshkey *ret;
    int r;

    if ((ret = sshkey_new(KEY_RSA1)) == NULL)
        fatal("sshkey_new failed");
    /* Try RSA1 */
    if ((r = sshkey_read(ret, cpp)) == 0)
        return ret;
    /* Try modern */

```

```

sshkey_free(ret);
if ((ret = sshkey_new(KEY_UNSPEC)) == NULL)
    fatal("sshkey_new failed");
if ((r = sshkey_read(ret, cpp) == 0)
    return ret;
/* Not a key */
sshkey_free(ret);
return NULL;
}

static void
fingerprint_one_key(const struct sshkey *public, const char *comment)
{
    char *fp = NULL, *ra = NULL;
    enum sshkey_fp_rep rep;
    int fptype;

    fptype = print_bubblebabble ? SSH_DIGEST_SHA1 : fingerprint_hash;
    rep = print_bubblebabble ? SSH_FP_BUBBLEBABBLE : SSH_FP_DEFAULT;
    fp = sshkey_fingerprint(public, fptype, rep);
    ra = sshkey_fingerprint(public, fingerprint_hash, SSH_FP_RANDOMART);
    if (fp == NULL || ra == NULL)
        fatal("%s: sshkey_fingerprint failed", __func__);
    printf("%u %s %s (%s)\n", sshkey_size(public), fp,
        comment ? comment : "no comment", sshkey_type(public));
    if (log_level >= SYSLOG_LEVEL_VERBOSE)
        printf("%s\n", ra);
    free(ra);
    free(fp);
}

static void
fingerprint_private(const char *path)
{
    struct stat st;
    char *comment = NULL;
    struct sshkey *public = NULL;
    int r;

    if (stat(identity_file, &st) < 0)
        fatal("%s: %s", path, strerror(errno));
    if ((r = sshkey_load_public(path, &public, &comment)) != 0) {
        debug("load public \"%s\": %s", path, ssh_err(r));
        if ((r = sshkey_load_private(path, NULL,
            &public, &comment)) != 0) {
            debug("load private \"%s\": %s", path, ssh_err(r));
            fatal("%s is not a key file.", path);
        }
    }
}

```

```

}

fingerprint_one_key(public, comment);
sshkey_free(public);
free(comment);
}

static void
do_fingerprint(struct passwd *pw)
{
    FILE *f;
    struct sshkey *public = NULL;
    char *comment = NULL, *cp, *ep, line[SSH_MAX_PUBKEY_BYTES];
    int i, invalid = 1;
    const char *path;
    long int lnum = 0;

    if (!have_identity)
        ask_filename(pw, "Enter file in which the key is");
    path = identity_file;

    if (strcmp(identity_file, "-") == 0) {
        f = stdin;
        path = "(stdin)";
    } else if ((f = fopen(path, "r")) == NULL)
        fatal("%s: %s: %s", __progname, path, strerror(errno));

    while (read_keyfile_line(f, path, line, sizeof(line), &lnum) == 0) {
        cp = line;
        cp[strcspn(cp, "\n")] = '\0';
        /* Trim leading space and comments */
        cp = line + strspn(line, "\t");
        if (*cp == '#' || *cp == '\0')
            continue;

        /*
         * Input may be plain keys, private keys, authorized_keys
         * or known_hosts.
         */

        /*
         * Try private keys first. Assume a key is private if
         * "SSH PRIVATE KEY" appears on the first line and we're
         * not reading from stdin (XXX support private keys on stdin).
         */
        if (lnum == 1 && strcmp(identity_file, "-") != 0 &&
            strstr(cp, "PRIVATE KEY") != NULL) {
            fclose(f);

```

```

fingerprint_private(path);
exit(0);
}

/*
 * If it's not a private key, then this must be prepared to
 * accept a public key prefixed with a hostname or options.
 * Try a bare key first, otherwise skip the leading stuff.
 */
if ((public = try_read_key(&cp)) == NULL) {
    i = strtol(cp, &ep, 10);
    if (i == 0 || ep == NULL ||
        (*ep != ' ' && *ep != '\t')) {
        int quoted = 0;

        comment = cp;
        for (; *cp && (quoted || (*cp != ' ' &&
            *cp != '\t')); cp++) {
            if (*cp == '\\' && cp[1] == "")
                cp++; /* Skip both */
            else if (*cp == "'")
                quoted = !quoted;
        }
        if (!*cp)
            continue;
        *cp++ = '\0';
    }
}
/* Retry after parsing leading hostname/key options */
if (public == NULL && (public = try_read_key(&cp)) == NULL) {
    debug("%s:%ld: not a public key", path, lnum);
    continue;
}

/* Find trailing comment, if any */
for (; *cp == ' ' || *cp == '\t'; cp++)
    ;
if (*cp != '\0' && *cp != '#')
    comment = cp;

fingerprint_one_key(public, comment);
sshkey_free(public);
invalid = 0; /* One good key in the file is sufficient */
}
fclose(f);

if (invalid)
    fatal("%s is not a public key file.", path);

```



```

exit(0);
}

static void
do_gen_all_hostkeys(struct passwd *pw)
{
    struct {
        char *key_type;
        char *key_type_display;
        char *path;
    } key_types[] = {
#ifdef WITH_OPENSSL
#ifdef WITH_SSH1
        { "rsa1", "RSA1", _PATH_HOST_KEY_FILE },
#endif /* WITH_SSH1 */
        { "rsa", "RSA", _PATH_HOST_RSA_KEY_FILE },
        { "dsa", "DSA", _PATH_HOST_DSA_KEY_FILE },
#ifdef OPENSSL_HAS_ECC
        { "ecdsa", "ECDSA", _PATH_HOST_ECDSA_KEY_FILE },
#endif /* OPENSSL_HAS_ECC */
#ifdef WITH_OPENSSL /*
        { "ed25519", "ED25519", _PATH_HOST_ED25519_KEY_FILE },
        { NULL, NULL, NULL }
    };

    int first = 0;
    struct stat st;
    struct sshkey *private, *public;
    char comment[1024];
    int i, type, fd, r;
    FILE *f;

    for (i = 0; key_types[i].key_type; i++) {
        if (stat(key_types[i].path, &st) == 0)
            continue;
        if (errno != ENOENT) {
            error("Could not stat %s: %s", key_types[i].path,
                strerror(errno));
            first = 0;
            continue;
        }
    }

    if (first == 0) {
        first = 1;
        printf("%s: generating new host keys: ", __progname);
    }
    printf("%s ", key_types[i].key_type_display);
    fflush(stdout);

```

```

type = sshkey_type_from_name(key_types[i].key_type);
strcpy(identity_file, key_types[i].path, sizeof(identity_file));
bits = 0;
type_bits_valid(type, NULL, &bits);
if ((r = sshkey_generate(type, bits, &private)) != 0) {
    error("key_generate failed: %s", ssh_err(r));
    first = 0;
    continue;
}
if ((r = sshkey_from_private(private, &public)) != 0)
    fatal("sshkey_from_private failed: %s", ssh_err(r));
snprintf(comment, sizeof comment, "%s@%s", pw->pw_name,
    hostname);
if ((r = sshkey_save_private(private, identity_file, "",
    comment, use_new_format, new_format_cipher, rounds)) != 0) {
    error("Saving key \"%s\" failed: %s",
        identity_file, ssh_err(r));
    sshkey_free(private);
    sshkey_free(public);
    first = 0;
    continue;
}
sshkey_free(private);
strcat(identity_file, ".pub", sizeof(identity_file));
fd = open(identity_file, O_WRONLY | O_CREAT | O_TRUNC, 0644);
if (fd == -1) {
    error("Could not save your public key in %s",
        identity_file);
    sshkey_free(public);
    first = 0;
    continue;
}
f = fdopen(fd, "w");
if (f == NULL) {
    error("fdopen %s failed", identity_file);
    close(fd);
    sshkey_free(public);
    first = 0;
    continue;
}
if ((r = sshkey_write(public, f)) != 0) {
    error("write key failed: %s", ssh_err(r));
    fclose(f);
    sshkey_free(public);
    first = 0;
    continue;
}
fprintf(f, "%s\n", comment);

```

```

fclose(f);
sshkey_free(public);

}
if (first != 0)
    printf("\n");
}

struct known_hosts_ctx {
    const char *host; /* Hostname searched for in find/delete case */
    FILE *out; /* Output file, stdout for find_hosts case */
    int has_unhashed; /* When hashing, original had unhashed hosts */
    int found_key; /* For find/delete, host was found */
    int invalid; /* File contained invalid items; don't delete */
};

static int
known_hosts_hash(struct hostkey_foreach_line *l, void *_ctx)
{
    struct known_hosts_ctx *ctx = (struct known_hosts_ctx *)_ctx;
    char *hashed, *cp, *hosts, *ohosts;
    int has_wild = l->hosts && strcspn(l->hosts, "**?!") != strlen(l->hosts);

    switch (l->status) {
    case HKF_STATUS_OK:
    case HKF_STATUS_MATCHED:
        /*
         * Don't hash hosts already already hashed, with wildcard
         * characters or a CA/revocation marker.
         */
        if ((l->match & HKF_MATCH_HOST_HASHED) != 0 ||
            has_wild || l->marker != MRK_NONE) {
            fprintf(ctx->out, "%s\n", l->line);
            if (has_wild && !find_host) {
                logit("%s:%ld: ignoring host name "
                    "with wildcard: %.64s", l->path,
                    l->linenum, l->hosts);
            }
        }
        return 0;
    }
    /*
     * Split any comma-separated hostnames from the host list,
     * hash and store separately.
     */
    ohosts = hosts = xstrdup(l->hosts);
    while ((cp = strsep(&hosts, ",")) != NULL && *cp != '\0') {
        if ((hashed = host_hash(cp, NULL, 0)) == NULL)
            fatal("hash_host failed");
    }
}

```

```

    fprintf(ctx->out, "%s %s\n", hashed, l->rawkey);
    ctx->has_unhashed = 1;
}
free(ohosts);
return 0;
case HKF_STATUS_INVALID:
/* Retain invalid lines, but mark file as invalid. */
ctx->invalid = 1;
logit("%s:%ld: invalid line", l->path, l->linenum);
/* FALLTHROUGH */
default:
fprintf(ctx->out, "%s\n", l->line);
return 0;
}
/* NOTREACHED */
return -1;
}

static int
known_hosts_find_delete(struct hostkey_foreach_line *l, void *_ctx)
{
    struct known_hosts_ctx *ctx = (struct known_hosts_ctx *)_ctx;
    enum sshkey_fp_rep rep;
    int fptype;
    char *fp;

    fptype = print_bubblebabble ? SSH_DIGEST_SHA1 : fingerprint_hash;
    rep = print_bubblebabble ? SSH_FP_BUBBLEBABBLE : SSH_FP_DEFAULT;

    if (l->status == HKF_STATUS_MATCHED) {
        if (delete_host) {
            if (l->marker != MRK_NONE) {
                /* Don't remove CA and revocation lines */
                fprintf(ctx->out, "%s\n", l->line);
            } else {
                /*
                 * Hostname matches and has no CA/revoke
                 * marker, delete it by *not* writing the
                 * line to ctx->out.
                 */
                ctx->found_key = 1;
                if (!quiet)
                    printf("# Host %s found: line %ld\n",
                        ctx->host, l->linenum);
            }
        }
        return 0;
    } else if (find_host) {
        ctx->found_key = 1;
    }
}

```

```

if (!quiet) {
    printf("# Host %s found: line %ld %s\n",
        ctx->host,
        l->linenum, l->marker == MRK_CA ? "CA" :
        (l->marker == MRK_REVOKE ? "REVOKED" : ""));
}
if (hash_hosts)
    known_hosts_hash(l, ctx);
else if (print_fingerprint) {
    fp = sshkey_fingerprint(l->key, fptype, rep);
    printf("%s %s %s %s\n", ctx->host,
        sshkey_type(l->key), fp, l->comment);
    free(fp);
} else
    fprintf(ctx->out, "%s\n", l->line);
return 0;
}
} else if (delete_host) {
    /* Retain non-matching hosts when deleting */
    if (l->status == HKF_STATUS_INVALID) {
        ctx->invalid = 1;
        logit("%s:%ld: invalid line", l->path, l->linenum);
    }
    fprintf(ctx->out, "%s\n", l->line);
}
return 0;
}

static void
do_known_hosts(struct passwd *pw, const char *name)
{
    char *cp, tmp[PATH_MAX], old[PATH_MAX];
    int r, fd, oerrno, inplace = 0;
    struct known_hosts_ctx ctx;
    u_int foreach_options;

    if (!have_identity) {
        cp = tilde_expand_filename(_PATH_SSH_USER_HOSTFILE, pw->pw_uid);
        if (strncpy(identity_file, cp, sizeof(identity_file)) >=
            sizeof(identity_file))
            fatal("Specified known hosts path too long");
        free(cp);
        have_identity = 1;
    }

    memset(&ctx, 0, sizeof(ctx));
    ctx.out = stdout;
    ctx.host = name;

```

```

/*
 * Find hosts goes to stdout, hash and deletions happen in-place
 * A corner case is ssh-keygen -HF foo, which should go to stdout
 */
if (!find_host && (hash_hosts || delete_host)) {
if (strncpy(tmp, identity_file, sizeof(tmp)) >= sizeof(tmp) ||
    strcat(tmp, ".XXXXXXXXXX", sizeof(tmp)) >= sizeof(tmp) ||
    strncpy(old, identity_file, sizeof(old)) >= sizeof(old) ||
    strcat(old, ".old", sizeof(old)) >= sizeof(old))
fatal("known_hosts path too long");
umask(077);
if ((fd = mkstemp(tmp)) == -1)
fatal("mkstemp: %s", strerror(errno));
if ((ctx.out = fdopen(fd, "w")) == NULL) {
oerrno = errno;
unlink(tmp);
fatal("fdopen: %s", strerror(oerrno));
}
inplace = 1;
}

/* XXX support identity_file == "-" for stdin */
foreach_options = find_host ? HKF_WANT_MATCH : 0;
foreach_options |= print_fingerprint ? HKF_WANT_PARSE_KEY : 0;
if ((r = hostkeys_foreach(identity_file,
    hash_hosts ? known_hosts_hash : known_hosts_find_delete, &ctx,
    name, NULL, foreach_options)) != 0) {
if (inplace)
unlink(tmp);
fatal("%s: hostkeys_foreach failed: %s", __func__, ssh_err(r));
}

if (inplace)
fclose(ctx.out);

if (ctx.invalid) {
error("%s is not a valid known_hosts file.", identity_file);
if (inplace) {
error("Not replacing existing known_hosts "
    "file because of errors");
unlink(tmp);
}
exit(1);
} else if (delete_host && !ctx.found_key) {
logit("Host %s not found in %s", name, identity_file);
if (inplace)
unlink(tmp);
}

```

```

} else if (inplace) {
/* Backup existing file */
if (unlink(old) == -1 && errno != ENOENT)
fatal("unlink %.100s: %s", old, strerror(errno));
if (link(identity_file, old) == -1)
fatal("link %.100s to %.100s: %s", identity_file, old,
strerror(errno));
/* Move new one into place */
if (rename(tmp, identity_file) == -1) {
error("rename \"%s\" to \"%s\": %s", tmp, identity_file,
strerror(errno));
unlink(tmp);
unlink(old);
exit(1);
}

printf("%s updated.\n", identity_file);
printf("Original contents retained as %s\n", old);
if (ctx.has_unhashed) {
logit("WARNING: %s contains unhashed entries", old);
logit("Delete this file to ensure privacy "
"of hostnames");
}
}

exit (find_host && !ctx.found_key);
}

/*
* Perform changing a passphrase. The argument is the passwd structure
* for the current user.
*/
static void
do_change_passphrase(struct passwd *pw)
{
char *comment;
char *old_passphrase, *passphrase1, *passphrase2;
struct stat st;
struct sshkey *private;
int r;

if (!have_identity)
ask_filename(pw, "Enter file in which the key is");
if (stat(identity_file, &st) < 0)
fatal("%s: %s", identity_file, strerror(errno));
/* Try to load the file with empty passphrase. */
r = sshkey_load_private(identity_file, "", &private, &comment);
if (r == SSH_ERR_KEY_WRONG_PASSPHRASE) {

```

```

if (identity_passphrase)
    old_passphrase = xstrdup(identity_passphrase);
else
    old_passphrase =
        read_passphrase("Enter old passphrase: ",
            RP_ALLOW_STDIN);
r = sshkey_load_private(identity_file, old_passphrase,
    &private, &comment);
explicit_bzero(old_passphrase, strlen(old_passphrase));
free(old_passphrase);
if (r != 0)
    goto badkey;
} else if (r != 0) {
badkey:
    fatal("Failed to load key %s: %s", identity_file, ssh_err(r));
}
if (comment)
    printf("Key has comment '%s'\n", comment);

/* Ask the new passphrase (twice). */
if (identity_new_passphrase) {
    passphrase1 = xstrdup(identity_new_passphrase);
    passphrase2 = NULL;
} else {
    passphrase1 =
        read_passphrase("Enter new passphrase (empty for no "
            "passphrase): ", RP_ALLOW_STDIN);
    passphrase2 = read_passphrase("Enter same passphrase again: ",
        RP_ALLOW_STDIN);

/* Verify that they are the same. */
if (strcmp(passphrase1, passphrase2) != 0) {
    explicit_bzero(passphrase1, strlen(passphrase1));
    explicit_bzero(passphrase2, strlen(passphrase2));
    free(passphrase1);
    free(passphrase2);
    printf("Pass phrases do not match. Try again.\n");
    exit(1);
}
/* Destroy the other copy. */
explicit_bzero(passphrase2, strlen(passphrase2));
free(passphrase2);
}

/* Save the file using the new passphrase. */
if ((r = sshkey_save_private(private, identity_file, passphrase1,
    comment, use_new_format, new_format_cipher, rounds)) != 0) {
    error("Saving key \"%s\" failed: %s.",

```



```

    identity_file, ssh_err(r));
explicit_bzero(passphrase1, strlen(passphrase1));
free(passphrase1);
sshkey_free(private);
free(comment);
exit(1);
}
/* Destroy the passphrase and the copy of the key in memory. */
explicit_bzero(passphrase1, strlen(passphrase1));
free(passphrase1);
sshkey_free(private); /* Destroys contents */
free(comment);

printf("Your identification has been saved with the new passphrase.\n");
exit(0);
}

/*
 * Print the SSHFP RR.
 */
static int
do_print_resource_record(struct passwd *pw, char *fname, char *hname)
{
    struct sshkey *public;
    char *comment = NULL;
    struct stat st;
    int r;

    if (fname == NULL)
        fatal("%s: no filename", __func__);
    if (stat(fname, &st) < 0) {
        if (errno == ENOENT)
            return 0;
        fatal("%s: %s", fname, strerror(errno));
    }
    if ((r = sshkey_load_public(fname, &public, &comment)) != 0)
        fatal("Failed to read v2 public key from \"%s\": %s.",
            fname, ssh_err(r));
    export_dns_rr(hname, public, stdout, print_generic);
    sshkey_free(public);
    free(comment);
    return 1;
}

/*
 * Change the comment of a private key file.
 */
static void

```

```

do_change_comment(struct passwd *pw)
{
    char new_comment[1024], *comment, *passphrase;
    struct sshkey *private;
    struct sshkey *public;
    struct stat st;
    FILE *f;
    int r, fd;

    if (!have_identity)
        ask_filename(pw, "Enter file in which the key is");
    if (stat(identity_file, &st) < 0)
        fatal("%s: %s", identity_file, strerror(errno));
    if ((r = sshkey_load_private(identity_file, "",
        &private, &comment)) == 0)
        passphrase = xstrdup("");
    else if (r != SSH_ERR_KEY_WRONG_PASSPHRASE)
        fatal("Cannot load private key \"%s\": %s.",
            identity_file, ssh_err(r));
    else {
        if (identity_passphrase)
            passphrase = xstrdup(identity_passphrase);
        else if (identity_new_passphrase)
            passphrase = xstrdup(identity_new_passphrase);
        else
            passphrase = read_passphrase("Enter passphrase: ",
                RP_ALLOW_STDIN);
        /* Try to load using the passphrase. */
        if ((r = sshkey_load_private(identity_file, passphrase,
            &private, &comment)) != 0) {
            explicit_bzero(passphrase, strlen(passphrase));
            free(passphrase);
            fatal("Cannot load private key \"%s\": %s.",
                identity_file, ssh_err(r));
        }
    }

    if (private->type != KEY_RSA1 && private->type != KEY_ED25519 &&
        !use_new_format) {
        error("Comments are only supported for RSA1 or keys stored in "
            "the new format (-o).");
        explicit_bzero(passphrase, strlen(passphrase));
        sshkey_free(private);
        exit(1);
    }
    printf("Key now has comment '%s'\n", comment);

    if (identity_comment) {

```

```

strcpy(new_comment, identity_comment, sizeof(new_comment));
} else {
printf("Enter new comment: ");
fflush(stdout);
if (!fgets(new_comment, sizeof(new_comment), stdin)) {
explicit_bzero(passphrase, strlen(passphrase));
sshkey_free(private);
exit(1);
}
new_comment[strlen(new_comment, "\n")] = '\0';
}

/* Save the file using the new passphrase. */
if ((r = sshkey_save_private(private, identity_file, passphrase,
new_comment, use_new_format, new_format_cipher, rounds)) != 0) {
error("Saving key \"%s\" failed: %s",
identity_file, ssh_err(r));
explicit_bzero(passphrase, strlen(passphrase));
free(passphrase);
sshkey_free(private);
free(comment);
exit(1);
}
explicit_bzero(passphrase, strlen(passphrase));
free(passphrase);
if ((r = sshkey_from_private(private, &public)) != 0)
fatal("key_from_private failed: %s", ssh_err(r));
sshkey_free(private);

strlcat(identity_file, ".pub", sizeof(identity_file));
fd = open(identity_file, O_WRONLY | O_CREAT | O_TRUNC, 0644);
if (fd == -1)
fatal("Could not save your public key in %s", identity_file);
f = fdopen(fd, "w");
if (f == NULL)
fatal("fdopen %s failed: %s", identity_file, strerror(errno));
if ((r = sshkey_write(public, f)) != 0)
fatal("write key failed: %s", ssh_err(r));
sshkey_free(public);
fprintf(f, " %s\n", new_comment);
fclose(f);

free(comment);

printf("The comment in your key file has been changed.\n");
exit(0);
}

```

```

static void
add_flag_option(struct sshbuf *c, const char *name)
{
    int r;

    debug3("%s: %s", __func__, name);
    if ((r = sshbuf_put_cstring(c, name)) != 0 ||
        (r = sshbuf_put_string(c, NULL, 0)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));
}

static void
add_string_option(struct sshbuf *c, const char *name, const char *value)
{
    struct sshbuf *b;
    int r;

    debug3("%s: %s=%s", __func__, name, value);
    if ((b = sshbuf_new()) == NULL)
        fatal("%s: sshbuf_new failed", __func__);
    if ((r = sshbuf_put_cstring(b, value)) != 0 ||
        (r = sshbuf_put_cstring(c, name)) != 0 ||
        (r = sshbuf_put_stringb(c, b)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));

    sshbuf_free(b);
}

#define OPTIONS_CRITICAL 1
#define OPTIONS_EXTENSIONS 2
static void
prepare_options_buf(struct sshbuf *c, int which)
{
    sshbuf_reset(c);
    if ((which & OPTIONS_CRITICAL) != 0 &&
        certflags_command != NULL)
        add_string_option(c, "force-command", certflags_command);
    if ((which & OPTIONS_EXTENSIONS) != 0 &&
        (certflags_flags & CERTOPT_X_FWD) != 0)
        add_flag_option(c, "permit-X11-forwarding");
    if ((which & OPTIONS_EXTENSIONS) != 0 &&
        (certflags_flags & CERTOPT_AGENT_FWD) != 0)
        add_flag_option(c, "permit-agent-forwarding");
    if ((which & OPTIONS_EXTENSIONS) != 0 &&
        (certflags_flags & CERTOPT_PORT_FWD) != 0)
        add_flag_option(c, "permit-port-forwarding");
    if ((which & OPTIONS_EXTENSIONS) != 0 &&
        (certflags_flags & CERTOPT_PTY) != 0)

```

```

add_flag_option(c, "permit-pty");
if ((which & OPTIONS_EXTENSIONS) != 0 &&
    (certflags_flags & CERTOPT_USER_RC) != 0)
    add_flag_option(c, "permit-user-rc");
if ((which & OPTIONS_CRITICAL) != 0 &&
    certflags_src_addr != NULL)
    add_string_option(c, "source-address", certflags_src_addr);
}

static struct sshkey *
load_pkcs11_key(char *path)
{
#ifdef ENABLE_PKCS11
    struct sshkey **keys = NULL, *public, *private = NULL;
    int r, i, nkeys;

    if ((r = sshkey_load_public(path, &public, NULL)) != 0)
        fatal("Couldn't load CA public key \"%s\": %s",
            path, ssh_err(r));

    nkeys = pkcs11_add_provider(pkcs11_provider, identity_passphrase, &keys);
    debug3("%s: %d keys", __func__, nkeys);
    if (nkeys <= 0)
        fatal("cannot read public key from pkcs11");
    for (i = 0; i < nkeys; i++) {
        if (sshkey_equal_public(public, keys[i])) {
            private = keys[i];
            continue;
        }
        sshkey_free(keys[i]);
    }
    free(keys);
    sshkey_free(public);
    return private;
#else
    fatal("no pkcs11 support");
#endif /* ENABLE_PKCS11 */
}

static void
do_ca_sign(struct passwd *pw, int argc, char **argv)
{
    int r, i, fd;
    u_int n;
    struct sshkey *ca, *public;
    char valid[64], *otmp, *tmp, *cp, *out, *comment, **plist = NULL;
    FILE *f;

```

```

#ifdef ENABLE_PKCS11
pkcs11_init(1);
#endif

tmp = tilde_expand_filename(ca_key_path, pw->pw_uid);
if (pkcs11_provider != NULL) {
    if ((ca = load_pkcs11_key(tmp)) == NULL)
        fatal("No PKCS#11 key matching %s found", ca_key_path);
    } else
    ca = load_identity(tmp);
free(tmp);

for (i = 0; i < argc; i++) {
    /* Split list of principals */
    n = 0;
    if (cert_principals != NULL) {
        otmp = tmp = xstrdup(cert_principals);
        plist = NULL;
        for (; (cp = strsep(&tmp, ",")) != NULL; n++) {
            plist = xreallocarray(plist, n + 1, sizeof(*plist));
            if (*(plist[n] = xstrdup(cp)) == '\0')
                fatal("Empty principal name");
        }
        free(otmp);
    }

    tmp = tilde_expand_filename(argv[i], pw->pw_uid);
    if ((r = sshkey_load_public(tmp, &public, &comment)) != 0)
        fatal("%s: unable to open \"%s\": %s",
            __func__, tmp, ssh_err(r));
    if (public->type != KEY_RSA && public->type != KEY_DSA &&
        public->type != KEY_ECDSA && public->type != KEY_ED25519)
        fatal("%s: key \"%s\" type %s cannot be certified",
            __func__, tmp, sshkey_type(public));

    /* Prepare certificate to sign */
    if ((r = sshkey_to_certified(public)) != 0)
        fatal("Could not upgrade key %s to certificate: %s",
            tmp, ssh_err(r));
    public->cert->type = cert_key_type;
    public->cert->serial = (u_int64_t)cert_serial;
    public->cert->key_id = xstrdup(cert_key_id);
    public->cert->nprincipals = n;
    public->cert->principals = plist;
    public->cert->valid_after = cert_valid_from;
    public->cert->valid_before = cert_valid_to;
    prepare_options_buf(public->cert->critical, OPTIONS_CRITICAL);
    prepare_options_buf(public->cert->extensions,
        OPTIONS_EXTENSIONS);
}

```

```

if ((r = sshkey_from_private(ca,
    &public->cert->signature_key)) != 0)
fatal("key_from_private (ca key): %s", ssh_err(r));

if (sshkey_certify(public, ca) != 0)
fatal("Couldn't not certify key %s", tmp);

if ((cp = strrchr(tmp, '.')) != NULL && strcmp(cp, ".pub") == 0)
*cp = '\0';
xasprintf(&out, "%s-cert.pub", tmp);
free(tmp);

if ((fd = open(out, O_WRONLY|O_CREAT|O_TRUNC, 0644)) == -1)
fatal("Could not open \"%s\" for writing: %s", out,
    strerror(errno));
if ((f = fdopen(fd, "w")) == NULL)
fatal("%s: fdopen: %s", __func__, strerror(errno));
if ((r = sshkey_write(public, f)) != 0)
fatal("Could not write certified key to %s: %s",
    out, ssh_err(r));
fprintf(f, " %s\n", comment);
fclose(f);

if (!quiet) {
sshkey_format_cert_validity(public->cert,
    valid, sizeof(valid));
logit("Signed %s key %s: id \"%s\" serial %llu%s%s "
    "valid %s", sshkey_cert_type(public),
    out, public->cert->key_id,
    (unsigned long long)public->cert->serial,
    cert_principals != NULL ? " for " : "",
    cert_principals != NULL ? cert_principals : "",
    valid);
}

sshkey_free(public);
free(out);
}
#ifdef ENABLE_PKCS11
pkcs11_terminate();
#endif
exit(0);
}

static u_int64_t
parse_relative_time(const char *s, time_t now)
{
int64_t mul, secs;

```

```

mul = *s == '-' ? -1 : 1;

if ((secs = convtime(s + 1)) == -1)
    fatal("Invalid relative certificate time %s", s);
if (mul == -1 && secs > now)
    fatal("Certificate time %s cannot be represented", s);
return now + (u_int64_t)(secs * mul);
}

static u_int64_t
parse_absolute_time(const char *s)
{
    struct tm tm;
    time_t tt;
    char buf[32], *fmt;

    /*
     * POSIX strptime says "The application shall ensure that there
     * is white-space or other non-alphanumeric characters between
     * any two conversion specifications" so arrange things this way.
     */
    switch (strlen(s)) {
    case 8:
        fmt = "%Y-%m-%d";
        snprintf(buf, sizeof(buf), "%.4s-%.2s-%.2s", s, s + 4, s + 6);
        break;
    case 14:
        fmt = "%Y-%m-%dT%H:%M:%S";
        snprintf(buf, sizeof(buf), "%.4s-%.2s-%.2sT%.2s:%.2s:%.2s",
            s, s + 4, s + 6, s + 8, s + 10, s + 12);
        break;
    default:
        fatal("Invalid certificate time format %s", s);
    }

    memset(&tm, 0, sizeof(tm));
    if (strptime(buf, fmt, &tm) == NULL)
        fatal("Invalid certificate time %s", s);
    if ((tt = mktime(&tm)) < 0)
        fatal("Certificate time %s cannot be represented", s);
    return (u_int64_t)tt;
}

static void
parse_cert_times(char *timespec)
{
    char *from, *to;

```



```

time_t now = time(NULL);
int64_t secs;

/* +timespec relative to now */
if (*timespec == '+' && strchr(timespec, ':') == NULL) {
    if ((secs = convtime(timespec + 1)) == -1)
        fatal("Invalid relative certificate life %s", timespec);
    cert_valid_to = now + secs;
    /*
     * Backdate certificate one minute to avoid problems on hosts
     * with poorly-synchronised clocks.
     */
    cert_valid_from = ((now - 59) / 60) * 60;
    return;
}

/*
 * from:to, where
 * from := [+ -]timespec | YYYYMMDD | YYYYMMDDHHMMSS
 * to := [+ -]timespec | YYYYMMDD | YYYYMMDDHHMMSS
 */
from = xstrdup(timespec);
to = strchr(from, ':');
if (to == NULL || from == to || *(to + 1) == '\0')
    fatal("Invalid certificate life specification %s", timespec);
*to++ = '\0';

if (*from == '-' || *from == '+')
    cert_valid_from = parse_relative_time(from, now);
else
    cert_valid_from = parse_absolute_time(from);

if (*to == '-' || *to == '+')
    cert_valid_to = parse_relative_time(to, now);
else
    cert_valid_to = parse_absolute_time(to);

if (cert_valid_to <= cert_valid_from)
    fatal("Empty certificate validity interval");
free(from);
}

static void
add_cert_option(char *opt)
{
    char *val;

    if (strcasemp(opt, "clear") == 0)

```

```

certflags_flags = 0;
else if (strcasecmp(opt, "no-x11-forwarding") == 0)
    certflags_flags &= ~CERTOPT_X_FWD;
else if (strcasecmp(opt, "permit-x11-forwarding") == 0)
    certflags_flags |= CERTOPT_X_FWD;
else if (strcasecmp(opt, "no-agent-forwarding") == 0)
    certflags_flags &= ~CERTOPT_AGENT_FWD;
else if (strcasecmp(opt, "permit-agent-forwarding") == 0)
    certflags_flags |= CERTOPT_AGENT_FWD;
else if (strcasecmp(opt, "no-port-forwarding") == 0)
    certflags_flags &= ~CERTOPT_PORT_FWD;
else if (strcasecmp(opt, "permit-port-forwarding") == 0)
    certflags_flags |= CERTOPT_PORT_FWD;
else if (strcasecmp(opt, "no-pty") == 0)
    certflags_flags &= ~CERTOPT_PTY;
else if (strcasecmp(opt, "permit-pty") == 0)
    certflags_flags |= CERTOPT_PTY;
else if (strcasecmp(opt, "no-user-rc") == 0)
    certflags_flags &= ~CERTOPT_USER_RC;
else if (strcasecmp(opt, "permit-user-rc") == 0)
    certflags_flags |= CERTOPT_USER_RC;
else if (strncasecmp(opt, "force-command=", 14) == 0) {
    val = opt + 14;
    if (*val == '\0')
        fatal("Empty force-command option");
    if (certflags_command != NULL)
        fatal("force-command already specified");
    certflags_command = xstrdup(val);
} else if (strncasecmp(opt, "source-address=", 15) == 0) {
    val = opt + 15;
    if (*val == '\0')
        fatal("Empty source-address option");
    if (certflags_src_addr != NULL)
        fatal("source-address already specified");
    if (addr_match_cidr_list(NULL, val) != 0)
        fatal("Invalid source-address list");
    certflags_src_addr = xstrdup(val);
} else
    fatal("Unsupported certificate option \"%s\"", opt);
}

```

```

static void
show_options(struct sshbuf *optbuf, int in_critical)
{
    char *name, *arg;
    struct sshbuf *options, *option = NULL;
    int r;

```

```

if ((options = sshbuf_fromb(optbuf)) == NULL)
    fatal("%s: sshbuf_fromb failed", __func__);
while (sshbuf_len(options) != 0) {
    sshbuf_free(option);
    option = NULL;
    if ((r = sshbuf_get_cstring(options, &name, NULL)) != 0 ||
        (r = sshbuf_froms(options, &option)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));
    printf("        %s", name);
    if (!in_critical &&
        (strcmp(name, "permit-X11-forwarding") == 0 ||
         strcmp(name, "permit-agent-forwarding") == 0 ||
         strcmp(name, "permit-port-forwarding") == 0 ||
         strcmp(name, "permit-pty") == 0 ||
         strcmp(name, "permit-user-rc") == 0))
        printf("\n");
    else if (in_critical &&
             (strcmp(name, "force-command") == 0 ||
              strcmp(name, "source-address") == 0)) {
        if ((r = sshbuf_get_cstring(option, &arg, NULL)) != 0)
            fatal("%s: buffer error: %s",
                 __func__, ssh_err(r));
        printf(" %s\n", arg);
        free(arg);
    } else {
        printf(" UNKNOWN OPTION (len %zu)\n",
              sshbuf_len(option));
        sshbuf_reset(option);
    }
    free(name);
    if (sshbuf_len(option) != 0)
        fatal("Option corrupt: extra data at end");
}
sshbuf_free(option);
sshbuf_free(options);
}

static void
print_cert(struct sshkey *key)
{
    char valid[64], *key_fp, *ca_fp;
    u_int i;

    key_fp = sshkey_fingerprint(key, fingerprint_hash, SSH_FP_DEFAULT);
    ca_fp = sshkey_fingerprint(key->cert->signature_key,
                              fingerprint_hash, SSH_FP_DEFAULT);
    if (key_fp == NULL || ca_fp == NULL)
        fatal("%s: sshkey_fingerprint fail", __func__);
}

```

```

sshkey_format_cert_validity(key->cert, valid, sizeof(valid));

printf("    Type: %s %s certificate\n", sshkey_ssh_name(key),
    sshkey_cert_type(key));
printf("    Public key: %s %s\n", sshkey_type(key), key_fp);
printf("    Signing CA: %s %s\n",
    sshkey_type(key->cert->signature_key), ca_fp);
printf("    Key ID: \"%s\"\n", key->cert->key_id);
printf("    Serial: %llu\n", (unsigned long long)key->cert->serial);
printf("    Valid: %s\n", valid);
printf("    Principals: ");
if (key->cert->nprincipals == 0)
    printf("(none)\n");
else {
    for (i = 0; i < key->cert->nprincipals; i++)
        printf("\n        %s",
            key->cert->principals[i]);
    printf("\n");
}
printf("    Critical Options: ");
if (sshbuf_len(key->cert->critical) == 0)
    printf("(none)\n");
else {
    printf("\n");
    show_options(key->cert->critical, 1);
}
printf("    Extensions: ");
if (sshbuf_len(key->cert->extensions) == 0)
    printf("(none)\n");
else {
    printf("\n");
    show_options(key->cert->extensions, 0);
}
}

static void
do_show_cert(struct passwd *pw)
{
    struct sshkey *key = NULL;
    struct stat st;
    int r, is_stdin = 0, ok = 0;
    FILE *f;
    char *cp, line[SSH_MAX_PUBKEY_BYTES];
    const char *path;
    long int lnum = 0;

    if (!have_identity)
        ask_filename(pw, "Enter file in which the key is");

```

```

if (strcmp(identity_file, "-") != 0 && stat(identity_file, &st) < 0)
    fatal("%s: %s: %s", __progname, identity_file, strerror(errno));

path = identity_file;
if (strcmp(path, "-") == 0) {
    f = stdin;
    path = "(stdin)";
    is_stdin = 1;
} else if ((f = fopen(identity_file, "r")) == NULL)
    fatal("fopen %s: %s", identity_file, strerror(errno));

while (read_keyfile_line(f, path, line, sizeof(line), &lnum) == 0) {
    sshkey_free(key);
    key = NULL;
    /* Trim leading space and comments */
    cp = line + strspn(line, " \t");
    if (*cp == '#' || *cp == '\0')
        continue;
    if ((key = sshkey_new(KEY_UNSPEC)) == NULL)
        fatal("key_new");
    if ((r = sshkey_read(key, &cp)) != 0) {
        error("%s:%lu: invalid key: %s", path,
            lnum, ssh_err(r));
        continue;
    }
    if (!sshkey_is_cert(key)) {
        error("%s:%lu is not a certificate", path, lnum);
        continue;
    }
    ok = 1;
    if (!is_stdin && lnum == 1)
        printf("%s:\n", path);
    else
        printf("%s:%lu:\n", path, lnum);
    print_cert(key);
}
sshkey_free(key);
fclose(f);
exit(ok ? 0 : 1);
}

static void
load_krl(const char *path, struct ssh_krl **krlp)
{
    struct sshbuf *krlbuf;
    int r, fd;

    if ((krlbuf = sshbuf_new()) == NULL)

```

```

fatal("sshbuf_new failed");
if ((fd = open(path, O_RDONLY)) == -1)
    fatal("open %s: %s", path, strerror(errno));
if ((r = sshkey_load_file(fd, krlbuf)) != 0)
    fatal("Unable to load KRL: %s", ssh_err(r));
close(fd);
/* XXX check sigs */
if ((r = ssh_krl_from_blob(krlbuf, krlp, NULL, 0)) != 0 ||
    *krlp == NULL)
    fatal("Invalid KRL file: %s", ssh_err(r));
sshbuf_free(krlbuf);
}

static void
update_krl_from_file(struct passwd *pw, const char *file, int wild_ca,
    const struct sshkey *ca, struct ssh_krl *krl)
{
    struct sshkey *key = NULL;
    u_long lnum = 0;
    char *path, *cp, *ep, line[SSH_MAX_PUBKEY_BYTES];
    unsigned long long serial, serial2;
    int i, was_explicit_key, was_sha1, r;
    FILE *krl_spec;

    path = tilde_expand_filename(file, pw->pw_uid);
    if (strcmp(path, "-") == 0) {
        krl_spec = stdin;
        free(path);
        path = xstrdup("standard input");
    } else if ((krl_spec = fopen(path, "r")) == NULL)
        fatal("fopen %s: %s", path, strerror(errno));

    if (!quiet)
        printf("Revoking from %s\n", path);
    while (read_keyfile_line(krl_spec, path, line, sizeof(line),
        &lnum) == 0) {
        was_explicit_key = was_sha1 = 0;
        cp = line + strspn(line, "\t");
        /* Trim trailing space, comments and strip \n */
        for (i = 0, r = -1; cp[i] != '\0'; i++) {
            if (cp[i] == '#' || cp[i] == '\n') {
                cp[i] = '\0';
                break;
            }
        }
        if (cp[i] == ' ' || cp[i] == '\t') {
            /* Remember the start of a span of whitespace */
            if (r == -1)
                r = i;
        }
    }
}

```

```

} else
r = -1;
}
if (r != -1)
cp[r] = '\0';
if (*cp == '\0')
continue;
if (strncasecmp(cp, "serial:", 7) == 0) {
if (ca == NULL && !wild_ca) {
fatal("revoking certificates by serial number "
"requires specification of a CA key");
}
cp += 7;
cp = cp + strspn(cp, "\t");
errno = 0;
serial = strtoull(cp, &ep, 0);
if (*cp == '\0' || (*ep != '\0' && *ep != '-'))
fatal("%s:%lu: invalid serial \"%s\"",
path, lnum, cp);
if (errno == ERANGE && serial == ULLONG_MAX)
fatal("%s:%lu: serial out of range",
path, lnum);
serial2 = serial;
if (*ep == '-') {
cp = ep + 1;
errno = 0;
serial2 = strtoull(cp, &ep, 0);
if (*cp == '\0' || *ep != '\0')
fatal("%s:%lu: invalid serial \"%s\"",
path, lnum, cp);
if (errno == ERANGE && serial2 == ULLONG_MAX)
fatal("%s:%lu: serial out of range",
path, lnum);
if (serial2 <= serial)
fatal("%s:%lu: invalid serial range "
"%llu:%llu", path, lnum,
(unsigned long long)serial,
(unsigned long long)serial2);
}
if (ssh_krl_revoke_cert_by_serial_range(krl,
ca, serial, serial2) != 0) {
fatal("%s: revoke serial failed",
__func__);
}
} else if (strncasecmp(cp, "id:", 3) == 0) {
if (ca == NULL && !wild_ca) {
fatal("revoking certificates by key ID "
"requires specification of a CA key");
}
}

```

```

}
cp += 3;
cp = cp + strspn(cp, "\t");
if (ssh_krl_revoke_cert_by_key_id(krl, ca, cp) != 0)
    fatal("%s: revoke key ID failed", __func__);
} else {
if (strncasecmp(cp, "key:", 4) == 0) {
    cp += 4;
    cp = cp + strspn(cp, "\t");
    was_explicit_key = 1;
} else if (strncasecmp(cp, "sha1:", 5) == 0) {
    cp += 5;
    cp = cp + strspn(cp, "\t");
    was_sha1 = 1;
} else {
/*
 * Just try to process the line as a key.
 * Parsing will fail if it isn't.
 */
}
if ((key = sshkey_new(KEY_UNSPEC)) == NULL)
    fatal("key_new");
if ((r = sshkey_read(key, &cp)) != 0)
    fatal("%s:%lu: invalid key: %s",
        path, lnum, ssh_err(r));
if (was_explicit_key)
    r = ssh_krl_revoke_key_explicit(krl, key);
else if (was_sha1)
    r = ssh_krl_revoke_key_sha1(krl, key);
else
    r = ssh_krl_revoke_key(krl, key);
if (r != 0)
    fatal("%s: revoke key failed: %s",
        __func__, ssh_err(r));
sshkey_free(key);
}
}
if (strcmp(path, "-") != 0)
    fclose(krl_spec);
free(path);
}

static void
do_gen_krl(struct passwd *pw, int updating, int argc, char **argv)
{
    struct ssh_krl *krl;
    struct stat sb;
    struct sshkey *ca = NULL;

```



```

int fd, i, r, wild_ca = 0;
char *tmp;
struct sshbuf *kbuf;

if (*identity_file == '\0')
    fatal("KRL generation requires an output file");
if (stat(identity_file, &sb) == -1) {
    if (errno != ENOENT)
        fatal("Cannot access KRL \"%s\": %s",
            identity_file, strerror(errno));
    if (updating)
        fatal("KRL \"%s\" does not exist", identity_file);
}
if (ca_key_path != NULL) {
    if (strcasecmp(ca_key_path, "none") == 0)
        wild_ca = 1;
    else {
        tmp = tilde_expand_filename(ca_key_path, pw->pw_uid);
        if ((r = sshkey_load_public(tmp, &ca, NULL)) != 0)
            fatal("Cannot load CA public key %s: %s",
                tmp, ssh_err(r));
        free(tmp);
    }
}

if (updating)
    load_krl(identity_file, &krl);
else if ((krl = ssh_krl_init()) == NULL)
    fatal("couldn't create KRL");

if (cert_serial != 0)
    ssh_krl_set_version(krl, cert_serial);
if (identity_comment != NULL)
    ssh_krl_set_comment(krl, identity_comment);

for (i = 0; i < argc; i++)
    update_krl_from_file(pw, argv[i], wild_ca, ca, krl);

if ((kbuf = sshbuf_new()) == NULL)
    fatal("sshbuf_new failed");
if (ssh_krl_to_blob(krl, kbuf, NULL, 0) != 0)
    fatal("Couldn't generate KRL");
if ((fd = open(identity_file, O_WRONLY|O_CREAT|O_TRUNC, 0644)) == -1)
    fatal("open %s: %s", identity_file, strerror(errno));
if (atomicio(vwrite, fd, (void *)sshbuf_ptr(kbuf), sshbuf_len(kbuf)) !=
    sshbuf_len(kbuf))
    fatal("write %s: %s", identity_file, strerror(errno));
close(fd);

```

```

sshbuf_free(kbuf);
ssh_krl_free(krl);
sshkey_free(ca);
}

```

```

static void
do_check_krl(struct passwd *pw, int argc, char **argv)
{
    int i, r, ret = 0;
    char *comment;
    struct ssh_krl *krl;
    struct sshkey *k;

    if (*identity_file == '\0')
        fatal("KRL checking requires an input file");
    load_krl(identity_file, &krl);
    for (i = 0; i < argc; i++) {
        if ((r = sshkey_load_public(argv[i], &k, &comment)) != 0)
            fatal("Cannot load public key %s: %s",
                argv[i], ssh_err(r));
        r = ssh_krl_check_key(krl, k);
        printf("%s%s%s%s: %s\n", argv[i],
            *comment ? " (" : "", comment, *comment ? ") : "",
            r == 0 ? "ok" : "REVOKED");
        if (r != 0)
            ret = 1;
        sshkey_free(k);
        free(comment);
    }
    ssh_krl_free(krl);
    exit(ret);
}

```

```

static void
usage(void)
{
    fprintf(stderr,
        "usage: ssh-keygen [-q] [-b bits] [-t dsa | ecdsa | ed25519 | rsa | rsa1]\n"
        "          [-N new_passphrase] [-C comment] [-f output_keyfile]\n"
        "    ssh-keygen -p [-P old_passphrase] [-N new_passphrase] [-f keyfile]\n"
        "    ssh-keygen -i [-m key_format] [-f input_keyfile]\n"
        "    ssh-keygen -e [-m key_format] [-f input_keyfile]\n"
        "    ssh-keygen -y [-f input_keyfile]\n"
        "    ssh-keygen -c [-P passphrase] [-C comment] [-f keyfile]\n"
        "    ssh-keygen -l [-v] [-E fingerprint_hash] [-f input_keyfile]\n"
        "    ssh-keygen -B [-f input_keyfile]\n");
#ifdef ENABLE_PKCS11
    fprintf(stderr,

```

```

    "    ssh-keygen -D pkcs11\n");
#endif
fprintf(stderr,
    "    ssh-keygen -F hostname [-f known_hosts_file] [-l]\n"
    "    ssh-keygen -H [-f known_hosts_file]\n"
    "    ssh-keygen -R hostname [-f known_hosts_file]\n"
    "    ssh-keygen -r hostname [-f input_keyfile] [-g]\n"
#ifdef WITH_OPENSSL
    "    ssh-keygen -G output_file [-v] [-b bits] [-M memory] [-S start_point]\n"
    "    ssh-keygen -T output_file -f input_file [-v] [-a rounds] [-J num_lines]\n"
    "        [-j start_line] [-K checkpoint] [-W generator]\n"
#endif
    "    ssh-keygen -s ca_key -I certificate_identity [-h] [-n principals]\n"
    "        [-O option] [-V validity_interval] [-z serial_number] file ... \n"
    "    ssh-keygen -L [-f input_keyfile]\n"
    "    ssh-keygen -A \n"
    "    ssh-keygen -k -f krl_file [-u] [-s ca_public] [-z version_number]\n"
    "        file ... \n"
    "    ssh-keygen -Q -f krl_file file ... \n");
exit(1);
}

/*
 * Main program for key management.
 */
int
main(int argc, char **argv)
{
    char dotssshdir[PATH_MAX], comment[1024], *passphrase1, *passphrase2;
    char *rr_hostname = NULL, *ep, *fp, *ra;
    struct sshkey *private, *public;
    struct passwd *pw;
    struct stat st;
    int r, opt, type, fd;
    int gen_all_hostkeys = 0, gen_krl = 0, update_krl = 0, check_krl = 0;
    FILE *f;
    const char *errstr;
#ifdef WITH_OPENSSL
    /* Moduli generation/screening */
    char out_file[PATH_MAX], *checkpoint = NULL;
    u_int32_t memory = 0, generator_wanted = 0;
    int do_gen_candidates = 0, do_screen_candidates = 0;
    unsigned long start_lineno = 0, lines_to_process = 0;
    BIGNUM *start = NULL;
#endif
    extern int optind;
    extern char *optarg;

```

```

ssh_malloc_init(); /* must be called before any mallocs */
/* Ensure that fds 0, 1 and 2 are open or directed to /dev/null */
sanitise_stdio();

__progname = ssh_get_progname(argv[0]);

#ifdef WITH_OPENSSL
    OpenSSL_add_all_algorithms();
#endif
log_init(argv[0], SYSLOG_LEVEL_INFO, SYSLOG_FACILITY_USER, 1);

seed_rng();

/* we need this for the home * directory. */
pw = getpwuid(getuid());
if (!pw)
    fatal("No user exists for uid %lu", (u_long)getuid());
if (gethostname(hostname, sizeof(hostname)) < 0)
    fatal("gethostname: %s", strerror(errno));

/* Remaining characters: UYdw */
while ((opt = getopt(argc, argv, "ABHLQXceghiklopquvxy"
    "C:D:E:F:G:I:J:K:M:N:O:P:R:S:T:V:W:Z:"
    "a:b:f:g:j:m:n:r:s:t:z:")) != -1) {
    switch (opt) {
        case 'A':
            gen_all_hostkeys = 1;
            break;
        case 'b':
            bits = (u_int32_t)strtonum(optarg, 256, 32768, &errstr);
            if (errstr)
                fatal("Bits has bad value %s (%s)",
                    optarg, errstr);
            break;
        case 'E':
            fingerprint_hash = ssh_digest_alg_by_name(optarg);
            if (fingerprint_hash == -1)
                fatal("Invalid hash algorithm \"%s\"", optarg);
            break;
        case 'F':
            find_host = 1;
            rr_hostname = optarg;
            break;
        case 'H':
            hash_hosts = 1;
            break;
        case 'T':

```

```

cert_key_id = optarg;
break;
case 'R':
delete_host = 1;
rr_hostname = optarg;
break;
case 'L':
show_cert = 1;
break;
case 'I':
print_fingerprint = 1;
break;
case 'B':
print_bubblebabble = 1;
break;
case 'm':
if (strcasecmp(optarg, "RFC4716") == 0 ||
    strcasecmp(optarg, "ssh2") == 0) {
convert_format = FMT_RFC4716;
break;
}
if (strcasecmp(optarg, "PKCS8") == 0) {
convert_format = FMT_PKCS8;
break;
}
if (strcasecmp(optarg, "PEM") == 0) {
convert_format = FMT_PEM;
break;
}
fatal("Unsupported conversion format \"%s\"", optarg);
case 'n':
cert_principals = optarg;
break;
case 'o':
use_new_format = 1;
break;
case 'p':
change_passphrase = 1;
break;
case 'c':
change_comment = 1;
break;
case 'f':
if (strncpy(identity_file, optarg,
    sizeof(identity_file)) >= sizeof(identity_file))
fatal("Identity filename too long");
have_identity = 1;
break;

```

```

case 'g':
    print_generic = 1;
    break;
case 'P':
    identity_passphrase = optarg;
    break;
case 'N':
    identity_new_passphrase = optarg;
    break;
case 'Q':
    check_krl = 1;
    break;
case 'O':
    add_cert_option(optarg);
    break;
case 'Z':
    new_format_cipher = optarg;
    break;
case 'C':
    identity_comment = optarg;
    break;
case 'q':
    quiet = 1;
    break;
case 'e':
case 'x':
    /* export key */
    convert_to = 1;
    break;
case 'h':
    cert_key_type = SSH2_CERT_TYPE_HOST;
    certflags_flags = 0;
    break;
case 'k':
    gen_krl = 1;
    break;
case 'i':
case 'X':
    /* import key */
    convert_from = 1;
    break;
case 'y':
    print_public = 1;
    break;
case 's':
    ca_key_path = optarg;
    break;
case 't':

```

```

key_type_name = optarg;
break;
case 'D':
pkcs11provider = optarg;
break;
case 'u':
update_krl = 1;
break;
case 'v':
if (log_level == SYSLOG_LEVEL_INFO)
log_level = SYSLOG_LEVEL_DEBUG1;
else {
if (log_level >= SYSLOG_LEVEL_DEBUG1 &&
log_level < SYSLOG_LEVEL_DEBUG3)
log_level++;
}
break;
case 'r':
rr_hostname = optarg;
break;
case 'a':
rounds = (int)strtonum(optarg, 1, INT_MAX, &errstr);
if (errstr)
fatal("Invalid number: %s (%s)",
optarg, errstr);
break;
case 'V':
parse_cert_times(optarg);
break;
case 'z':
errno = 0;
cert_serial = strtoull(optarg, &ep, 10);
if (*optarg < '0' || *optarg > '9' || *ep != '\0' ||
(errno == ERANGE && cert_serial == ULLONG_MAX))
fatal("Invalid serial number \"%s\"", optarg);
break;
#ifdef WITH_OPENSSL
/* Moduli generation/screening */
case 'W':
generator_wanted = (u_int32_t)strtonum(optarg, 1,
UINT_MAX, &errstr);
if (errstr)
fatal("Desired generator has bad value: %s (%s)",
optarg, errstr);
break;
case 'M':
memory = (u_int32_t)strtonum(optarg, 1, UINT_MAX, &errstr);
if (errstr)

```

```

    fatal("Memory limit is %s: %s", errstr, optarg);
    break;
case 'G':
    do_gen_candidates = 1;
    if (strncpy(out_file, optarg, sizeof(out_file)) >=
        sizeof(out_file))
        fatal("Output filename too long");
    break;
case 'T':
    do_screen_candidates = 1;
    if (strncpy(out_file, optarg, sizeof(out_file)) >=
        sizeof(out_file))
        fatal("Output filename too long");
    break;
case 'K':
    if (strlen(optarg) >= PATH_MAX)
        fatal("Checkpoint filename too long");
    checkpoint = xstrdup(optarg);
    break;
case 'S':
    /* XXX - also compare length against bits */
    if (BN_hex2bn(&start, optarg) == 0)
        fatal("Invalid start point.");
    break;
#endif /* WITH_OPENSSL */
case '?':
default:
    usage();
}
}

/* reinit */
log_init(argv[0], log_level, SYSLOG_FACILITY_USER, 1);

argv += optind;
argc -= optind;

if (ca_key_path != NULL) {
    if (argc < 1 && !gen_krl) {
        error("Too few arguments.");
        usage();
    }
} else if (argc > 0 && !gen_krl && !check_krl) {
    error("Too many arguments.");
    usage();
}
if (change_passphrase && change_comment) {
    error("Can only have one of -p and -c.");
}

```



```

usage();
}
if (print_fingerprint && (delete_host || hash_hosts)) {
    error("Cannot use -l with -H or -R.");
    usage();
}
if (gen_krl) {
    do_gen_krl(pw, update_krl, argc, argv);
    return (0);
}
if (check_krl) {
    do_check_krl(pw, argc, argv);
    return (0);
}
if (ca_key_path != NULL) {
    if (cert_key_id == NULL)
        fatal("Must specify key id (-I) when certifying");
    do_ca_sign(pw, argc, argv);
}
if (show_cert)
    do_show_cert(pw);
if (delete_host || hash_hosts || find_host)
    do_known_hosts(pw, rr_hostname);
if (pkcs11provider != NULL)
    do_download(pw);
if (print_fingerprint || print_bubblebabble)
    do_fingerprint(pw);
if (change_passphrase)
    do_change_passphrase(pw);
if (change_comment)
    do_change_comment(pw);
#ifdef WITH_OPENSSL
if (convert_to)
    do_convert_to(pw);
if (convert_from)
    do_convert_from(pw);
#endif
if (print_public)
    do_print_public(pw);
if (rr_hostname != NULL) {
    unsigned int n = 0;

    if (have_identity) {
        n = do_print_resource_record(pw,
            identity_file, rr_hostname);
        if (n == 0)
            fatal("%s: %s", identity_file, strerror(errno));
        exit(0);
    }
}

```

```

} else {

n += do_print_resource_record(pw,
    _PATH_HOST_RSA_KEY_FILE, rr_hostname);
n += do_print_resource_record(pw,
    _PATH_HOST_DSA_KEY_FILE, rr_hostname);
n += do_print_resource_record(pw,
    _PATH_HOST_ECDSA_KEY_FILE, rr_hostname);
n += do_print_resource_record(pw,
    _PATH_HOST_ED25519_KEY_FILE, rr_hostname);
if (n == 0)
    fatal("no keys found.");
exit(0);
}
}

#ifdef WITH_OPENSSL
if (do_gen_candidates) {
    FILE *out = fopen(out_file, "w");

    if (out == NULL) {
        error("Couldn't open modulus candidate file \"%s\": %s",
            out_file, strerror(errno));
        return (1);
    }
    if (bits == 0)
        bits = DEFAULT_BITS;
    if (gen_candidates(out, memory, bits, start) != 0)
        fatal("modulus candidate generation failed");

    return (0);
}

if (do_screen_candidates) {
    FILE *in;
    FILE *out = fopen(out_file, "a");

    if (have_identity && strcmp(identity_file, "-") != 0) {
        if ((in = fopen(identity_file, "r")) == NULL) {
            fatal("Couldn't open modulus candidate "
                "file \"%s\": %s", identity_file,
                strerror(errno));
        }
    } else
        in = stdin;

    if (out == NULL) {
        fatal("Couldn't open moduli file \"%s\": %s",

```

```

        out_file, strerror(errno));
    }
    if (prime_test(in, out, rounds == 0 ? 100 : rounds,
        generator_wanted, checkpoint,
        start_lineno, lines_to_process) != 0)
        fatal("modulus screening failed");
    return (0);
}
#endif

if (gen_all_hostkeys) {
    do_gen_all_hostkeys(pw);
    return (0);
}

if (key_type_name == NULL)
    key_type_name = DEFAULT_KEY_TYPE_NAME;

type = sshkey_type_from_name(key_type_name);
type_bits_valid(type, key_type_name, &bits);

if (!quiet)
    printf("Generating public/private %s key pair.\n",
        key_type_name);
if ((r = sshkey_generate(type, bits, &private)) != 0)
    fatal("key_generate failed");
if ((r = sshkey_from_private(private, &public)) != 0)
    fatal("key_from_private failed: %s\n", ssh_err(r));

if (!have_identity)
    ask_filename(pw, "Enter file in which to save the key");

/* Create ~/.ssh directory if it doesn't already exist. */
snprintf(dotsshdir, sizeof dotsshdir, "%s/%s",
    pw->pw_dir, _PATH_SSH_USER_DIR);
if (strstr(identity_file, dotsshdir) != NULL) {
    if (stat(dotsshdir, &st) < 0) {
        if (errno != ENOENT) {
            error("Could not stat %s: %s", dotsshdir,
                strerror(errno));
        } else if (mkdir(dotsshdir, 0700) < 0) {
            error("Could not create directory '%s': %s",
                dotsshdir, strerror(errno));
        } else if (!quiet)
            printf("Created directory '%s'.\n", dotsshdir);
    }
}
/* If the file already exists, ask the user to confirm. */

```

```

if (stat(identity_file, &st) >= 0) {
    char yesno[3];
    printf("%s already exists.\n", identity_file);
    printf("Overwrite (y/n)? ");
    fflush(stdout);
    if (fgets(yesno, sizeof(yesno), stdin) == NULL)
        exit(1);
    if (yesno[0] != 'y' && yesno[0] != 'Y')
        exit(1);
}
/* Ask for a passphrase (twice). */
if (identity_passphrase)
    passphrase1 = xstrdup(identity_passphrase);
else if (identity_new_passphrase)
    passphrase1 = xstrdup(identity_new_passphrase);
else {
passphrase_again:
    passphrase1 =
        read_passphrase("Enter passphrase (empty for no "
            "passphrase): ", RP_ALLOW_STDIN);
    passphrase2 = read_passphrase("Enter same passphrase again: ",
        RP_ALLOW_STDIN);
    if (strcmp(passphrase1, passphrase2) != 0) {
        /*
         * The passphrases do not match. Clear them and
         * retry.
         */
        explicit_bzero(passphrase1, strlen(passphrase1));
        explicit_bzero(passphrase2, strlen(passphrase2));
        free(passphrase1);
        free(passphrase2);
        printf("Passphrases do not match. Try again.\n");
        goto passphrase_again;
    }
    /* Clear the other copy of the passphrase. */
    explicit_bzero(passphrase2, strlen(passphrase2));
    free(passphrase2);
}

if (identity_comment) {
    strcpy(comment, identity_comment, sizeof(comment));
} else {
    /* Create default comment field for the passphrase. */
    snprintf(comment, sizeof comment, "%s@%s", pw->pw_name, hostname);
}

/* Save the key with the given passphrase and comment. */
if ((r = sshkey_save_private(private, identity_file, passphrase1,

```

```

    comment, use_new_format, new_format_cipher, rounds)) != 0) {
error("Saving key \"%s\" failed: %s",
    identity_file, ssh_err(r));
explicit_bzero(passphrase1, strlen(passphrase1));
free(passphrase1);
exit(1);
}
/* Clear the passphrase. */
explicit_bzero(passphrase1, strlen(passphrase1));
free(passphrase1);

/* Clear the private key and the random number generator. */
sshkey_free(private);

if (!quiet)
    printf("Your identification has been saved in %s.\n", identity_file);

strlcat(identity_file, ".pub", sizeof(identity_file));
if ((fd = open(identity_file, O_WRONLY|O_CREAT|O_TRUNC, 0644)) == -1)
    fatal("Unable to save public key to %s: %s",
        identity_file, strerror(errno));
if ((f = fdopen(fd, "w")) == NULL)
    fatal("fdopen %s failed: %s", identity_file, strerror(errno));
if ((r = sshkey_write(public, f)) != 0)
    error("write key failed: %s", ssh_err(r));
fprintf(f, " %s\n", comment);
fclose(f);

if (!quiet) {
    fp = sshkey_fingerprint(public, fingerprint_hash,
        SSH_FP_DEFAULT);
    ra = sshkey_fingerprint(public, fingerprint_hash,
        SSH_FP_RANDOMART);
    if (fp == NULL || ra == NULL)
        fatal("sshkey_fingerprint failed");
    printf("Your public key has been saved in %s.\n",
        identity_file);
    printf("The key fingerprint is:\n");
    printf("%s %s\n", fp, comment);
    printf("The key's randomart image is:\n");
    printf("%s\n", ra);
    free(ra);
    free(fp);
}

sshkey_free(public);
exit(0);
}

```

## NAME

ssh-keyscan M-bM-^@M-^S gather ssh public keys

## SYNOPSIS

ssh-keyscan [-4cHv] [-f file] [-p port] [-T timeout] [-t type]  
[host | addrlist namelist] ...

## DESCRIPTION

ssh-keyscan is a utility for gathering the public ssh host keys of a number of hosts. It was designed to aid in building and verifying ssh\_known\_hosts files. ssh-keyscan provides a minimal interface suitable for use by shell and perl scripts.

ssh-keyscan uses non-blocking socket I/O to contact as many hosts as possible in parallel, so it is very efficient. The keys from a domain of 1,000 hosts can be collected in tens of seconds, even when some of those hosts are down or do not run ssh. For scanning, one does not need login access to the machines that are being scanned, nor does the scanning process involve any encryption.

The options are as follows:

- 4 Forces ssh-keyscan to use IPv4 addresses only.
- 6 Forces ssh-keyscan to use IPv6 addresses only.
- c Request certificates from target hosts instead of plain keys.
- f file  
Read hosts or M-bM-^@M-^addrlist namelistM-bM-^@M-^] pairs from file, one per line. If - is supplied instead of a filename, ssh-keyscan will read hosts or M-bM-^@M-^addrlist namelistM-bM-^@M-^] pairs from the standard input.
- H Hash all hostnames and addresses in the output. Hashed names may be used normally by ssh and sshd, but they do not reveal identifying information should the file's contents be disclosed.
- p port  
Port to connect to on the remote host.
- T timeout  
Set the timeout for connection attempts. If timeout seconds have elapsed since a connection was initiated to a host or since the last time anything was read from that host, then the connection is closed and the host in question considered unavailable. Default is 5 seconds.

-t type

Specifies the type of the key to fetch from the scanned hosts.

The possible values are `M-bM-^@M-^\rsa1M-bM-^@M-^]` for protocol version 1 and `M-bM-^@M-^\dsaM-bM-^@M-^]`,

`M-bM-^@M-^\ecdsaM-bM-^@M-^]`, `M-bM-^@M-^\ed25519M-bM-^@M-^]`, or `M-bM-^@M-^\rsaM-bM-^@M-^]` for protocol version 2. Multiple

values may be specified by separating them with commas. The

default is to fetch `M-bM-^@M-^\rsaM-bM-^@M-^]`, `M-bM-^@M-^\ecdsaM-bM-^@M-^]`, and `M-bM-^@M-^\ed25519M-bM-^@M-^]` keys.

-v Verbose mode. Causes ssh-keyscan to print debugging messages about its progress.

## SECURITY

If an `ssh_known_hosts` file is constructed using `ssh-keyscan` without verifying the keys, users will be vulnerable to man in the middle attacks. On the other hand, if the security model allows such a risk, `ssh-keyscan` can help in the detection of tampered keyfiles or man in the middle attacks which have begun after the `ssh_known_hosts` file was created.

## FILES

Input format:

1.2.3.4,1.2.4.4 name.my.domain,name,n.my.domain,n,1.2.3.4,1.2.4.4

Output format for RSA1 keys:

host-or-namelist bits exponent modulus

Output format for RSA, DSA, ECDSA, and Ed25519 keys:

host-or-namelist keytype base64-encoded-key

Where keytype is either `M-bM-^@M-^\ecdsa-sha2-nistp256M-bM-^@M-^]`, `M-bM-^@M-^\ecdsa-sha2-nistp384M-bM-^@M-^]`,

`M-bM-^@M-^\ecdsa-sha2-nistp521M-bM-^@M-^]`, `M-bM-^@M-^\ssh-ed25519M-bM-^@M-^]`, `M-bM-^@M-^\ssh-dssM-bM-^@M-^]` or `M-bM-^@M-^\ssh-rsaM-bM-^@M-^]`.

`/etc/ssh/ssh_known_hosts`

## EXAMPLES

Print the rsa host key for machine hostname:

```
$ ssh-keyscan hostname
```

Find all hosts from the file `ssh_hosts` which have new or different keys

from those in the sorted file `ssh_known_hosts`:

```
$ ssh-keyscan -t rsa,dsa,ecdsa,ed25519 -f ssh_hosts | \
  sort -u - ssh_known_hosts | diff ssh_known_hosts -
```

## SEE ALSO

`ssh(1)`, `sshd(8)`

## AUTHORS

David Mazieres <dm@lcs.mit.edu> wrote the initial version, and Wayne Davison <wayned@users.sourceforge.net> added support for protocol version 2.

## BUGS

It generates "Connection closed by remote host" messages on the consoles of all the machines it scans if the server is older than version 2.9.

This is because it opens a connection to the ssh port, reads the public key, and drops the connection as soon as it gets the key.

OpenBSD 5.9                      November 8, 2015                      OpenBSD 5.9

.\" \$OpenBSD: ssh-keyscan.1,v 1.38 2015/11/08 23:24:03 jmc Exp \$

.\"

.\" Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.

.\"

.\" Modification and redistribution in source and binary forms is

.\" permitted provided that due credit is given to the author and the

.\" OpenBSD project by leaving this copyright notice intact.

.\"

.Dd \$Mdocdate: November 8 2015 \$

.Dt SSH-KEYSCAN 1

.Os

.Sh NAME

.Nm ssh-keyscan

.Nd gather ssh public keys

.Sh SYNOPSIS

.Nm ssh-keyscan

.Bk -words

.Op Fl 46cHv

.Op Fl f Ar file

.Op Fl p Ar port

.Op Fl T Ar timeout

.Op Fl t Ar type

.Op Ar host | addrlist namelist

.Ar ...

.Ek

.Sh DESCRIPTION

.Nm

is a utility for gathering the public ssh host keys of a number of



hosts.

It was designed to aid in building and verifying

.Pa ssh\_known\_hosts

files.

.Nm

provides a minimal interface suitable for use by shell and perl scripts.

.Pp

.Nm

uses non-blocking socket I/O to contact as many hosts as possible in parallel, so it is very efficient.

The keys from a domain of 1,000

hosts can be collected in tens of seconds, even when some of those hosts are down or do not run ssh.

For scanning, one does not need

login access to the machines that are being scanned, nor does the scanning process involve any encryption.

.Pp

The options are as follows:

.Bl -tag -width Ds

.It Fl 4

Forces

.Nm

to use IPv4 addresses only.

.It Fl 6

Forces

.Nm

to use IPv6 addresses only.

.It Fl c

Request certificates from target hosts instead of plain keys.

.It Fl f Ar file

Read hosts or

.Dq addrlist namelist

pairs from

.Ar file ,

one per line.

If

.Pa -

is supplied instead of a filename,

.Nm

will read hosts or

.Dq addrlist namelist

pairs from the standard input.

.It Fl H

Hash all hostnames and addresses in the output.

Hashed names may be used normally by

.Nm ssh

and

.Nm sshd ,  
but they do not reveal identifying information should the file's contents  
be disclosed.

.It Fl p Ar port

Port to connect to on the remote host.

.It Fl T Ar timeout

Set the timeout for connection attempts.

If

.Ar timeout

seconds have elapsed since a connection was initiated to a host or since the  
last time anything was read from that host, then the connection is  
closed and the host in question considered unavailable.

Default is 5 seconds.

.It Fl t Ar type

Specifies the type of the key to fetch from the scanned hosts.

The possible values are

.Dq rsa1

for protocol version 1 and

.Dq dsa ,

.Dq ecdsa ,

.Dq ed25519 ,

or

.Dq rsa

for protocol version 2.

Multiple values may be specified by separating them with commas.

The default is to fetch

.Dq rsa ,

.Dq ecdsa ,

and

.Dq ed25519

keys.

.It Fl v

Verbose mode.

Causes

.Nm

to print debugging messages about its progress.

.El

.Sh SECURITY

If an ssh\_known\_hosts file is constructed using

.Nm

without verifying the keys, users will be vulnerable to

.Em man in the middle

attacks.

On the other hand, if the security model allows such a risk,

.Nm

can help in the detection of tampered keyfiles or man in the middle  
attacks which have begun after the ssh\_known\_hosts file was created.

.Sh FILES

Input format:

```
.Bd -literal
1.2.3.4,1.2.4.4 name.my.domain,name,n.my.domain,n,1.2.3.4,1.2.4.4
.Ed
.Pp
```

Output format for RSA1 keys:

```
.Bd -literal
host-or-namelist bits exponent modulus
.Ed
.Pp
```

Output format for RSA, DSA, ECDSA, and Ed25519 keys:

```
.Bd -literal
host-or-namelist keytype base64-encoded-key
.Ed
.Pp
```

Where

```
.Ar keytype
is either
.Dq ecdsa-sha2-nistp256 ,
.Dq ecdsa-sha2-nistp384 ,
.Dq ecdsa-sha2-nistp521 ,
.Dq ssh-ed25519 ,
.Dq ssh-dss
or
.Dq ssh-rsa .
.Pp
.Pa /etc/ssh/ssh_known_hosts
.Sh EXAMPLES
```

Print the rsa host key for machine

```
.Ar hostname :
.Bd -literal
$ ssh-keyscan hostname
.Ed
.Pp
```

Find all hosts from the file

```
.Pa ssh_hosts
which have new or different keys from those in the sorted file
.Pa ssh_known_hosts :
.Bd -literal
$ ssh-keyscan -t rsa,dsa,ecdsa,ed25519 -f ssh_hosts | \e
sort -u - ssh_known_hosts | diff ssh_known_hosts -
.Ed
.Sh SEE ALSO
.Xr ssh 1 ,
.Xr sshd 8
.Sh AUTHORS
.An -nosplit
.An David Mazieres Aq Mt dm@lcs.mit.edu
```

wrote the initial version, and

.An Wayne Davison Aq Mt wayned@users.sourceforge.net

added support for protocol version 2.

.Sh BUGS

It generates "Connection closed by remote host" messages on the consoles of all the machines it scans if the server is older than version 2.9.

This is because it opens a connection to the ssh port, reads the public key, and drops the connection as soon as it gets the key.

```
/* $OpenBSD: ssh-keyscan.c,v 1.105 2016/02/15 09:47:49 dtucker Exp $ */
```

```
/*
```

```
* Copyright 1995, 1996 by David Mazieres <dm@lcs.mit.edu>.
```

```
*
```

```
* Modification and redistribution in source and binary forms is
```

```
* permitted provided that due credit is given to the author and the
```

```
* OpenBSD project by leaving this copyright notice intact.
```

```
*/
```

```
#include "includes.h"
```

```
#include <sys/types.h>
```

```
#include "openbsd-compat/sys-queue.h"
```

```
#include <sys/resource.h>
```

```
#ifdef HAVE_SYS_TIME_H
```

```
# include <sys/time.h>
```

```
#endif
```

```
#include <netinet/in.h>
```

```
#include <arpa/inet.h>
```

```
#include <openssl/bn.h>
```

```
#include <netdb.h>
```

```
#include <errno.h>
```

```
#include <stdarg.h>
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <signal.h>
```

```
#include <string.h>
```

```
#include <unistd.h>
```

```
#include "xmalloc.h"
```

```
#include "ssh.h"
```

```
#include "ssh1.h"
```

```
#include "sshbuf.h"
```

```
#include "sshkey.h"
```

```
#include "cipher.h"
```

```
#include "kex.h"
```

```
#include "compat.h"
```

```

#include "myproposal.h"
#include "packet.h"
#include "dispatch.h"
#include "log.h"
#include "atomicio.h"
#include "misc.h"
#include "hostfile.h"
#include "ssherr.h"
#include "ssh_api.h"

/* Flag indicating whether IPv4 or IPv6. This can be set on the command line.
   Default value is AF_UNSPEC means both IPv4 and IPv6. */
int IPv4or6 = AF_UNSPEC;

int ssh_port = SSH_DEFAULT_PORT;

#define KT_RSA1 1
#define KT_DSA 2
#define KT_RSA 4
#define KT_ECDSA 8
#define KT_ED25519 16

int get_cert = 0;
int get_keytypes = KT_RSA|KT_ECDSA|KT_ED25519;

int hash_hosts = 0; /* Hash hostname on output */

#define MAXMAXFD 256

/* The number of seconds after which to give up on a TCP connection */
int timeout = 5;

int maxfd;
#define MAXCON (maxfd - 10)

extern char *__progname;
fd_set *read_wait;
size_t read_wait_nfdset;
int ncon;

struct ssh *active_state = NULL; /* XXX needed for linking */

/*
 * Keep a connection structure for each file descriptor. The state
 * associated with file descriptor n is held in fdcon[n].
 */
typedef struct Connection {
    u_char c_status; /* State of connection on this file desc. */

```

```

#define CS_UNUSED 0 /* File descriptor unused */
#define CS_CON 1 /* Waiting to connect/read greeting */
#define CS_SIZE 2 /* Waiting to read initial packet size */
#define CS_KEYS 3 /* Waiting to read public key packet */
int c_fd; /* Quick lookup: c->c_fd == c - fdcon */
int c_plen; /* Packet length field for ssh packet */
int c_len; /* Total bytes which must be read. */
int c_off; /* Length of data read so far. */
int c_keytype; /* Only one of KT_RSA1, KT_DSA, or KT_RSA */
sig_atomic_t c_done; /* SSH2 done */
char *c_namebase; /* Address to free for c_name and c_namelist */
char *c_name; /* Hostname of connection for errors */
char *c_namelist; /* Pointer to other possible addresses */
char *c_output_name; /* Hostname of connection for output */
char *c_data; /* Data read from this fd */
struct ssh *c_ssh; /* SSH-connection */
struct timeval c_tv; /* Time at which connection gets aborted */
TAILQ_ENTRY(Connection) c_link; /* List of connections in timeout order. */
} con;

```

```

TAILQ_HEAD(conlist, Connection) tq; /* Timeout Queue */
con *fdcon;

```

```

static void keyprint(con *c, struct sshkey *key);

```

```

static int
fdlim_get(int hard)
{
#ifdef HAVE_GETRLIMIT && defined(RLIMIT_NOFILE)
    struct rlimit rld;

    if (getrlimit(RLIMIT_NOFILE, &rld) < 0)
        return (-1);
    if ((hard ? rld.rlim_max : rld.rlim_cur) == RLIM_INFINITY)
        return SSH_SYSFDMAX;
    else
        return hard ? rld.rlim_max : rld.rlim_cur;
#else
    return SSH_SYSFDMAX;
#endif
}

```

```

static int
fdlim_set(int lim)
{
#ifdef HAVE_SETRLIMIT && defined(RLIMIT_NOFILE)
    struct rlimit rld;
#endif
}

```

```

if (lim <= 0)
    return (-1);
#if defined(HAVE_SETRLIMIT) && defined(RLIMIT_NOFILE)
if (getrlimit(RLIMIT_NOFILE, &rfd) < 0)
    return (-1);
rfd.rlim_cur = lim;
if (setrlimit(RLIMIT_NOFILE, &rfd) < 0)
    return (-1);
#elif defined (HAVE_SETDTABLESIZE)
    setdtablesize(lim);
#endif
return (0);
}

/*
 * This is an strsep function that returns a null field for adjacent
 * separators. This is the same as the 4.4BSD strsep, but different from the
 * one in the GNU libc.
 */
static char *
xstrsep(char **str, const char *delim)
{
    char *s, *e;

    if (!**str)
        return (NULL);

    s = *str;
    e = s + strcspn(s, delim);

    if (*e != '\0')
        *e++ = '\0';
    *str = e;

    return (s);
}

/*
 * Get the next non-null token (like GNU strsep). Strsep() will return a
 * null token for two adjacent separators, so we may have to loop.
 */
static char *
strnnpsep(char **stringp, char *delim)
{
    char *tok;

    do {

```

```

    tok = xstrsep(stringp, delim);
} while (tok && *tok == '\0');
return (tok);
}

#ifdef WITH_SSH1
static struct sshkey *
keygrab_ssh1(con *c)
{
    static struct sshkey *rsa;
    static struct sshbuf *msg;
    int r;
    u_char type;

    if (rsa == NULL) {
        if ((rsa = sshkey_new(KEY_RSA1)) == NULL) {
            error("%s: sshkey_new failed", __func__);
            return NULL;
        }
        if ((msg = sshbuf_new()) == NULL)
            fatal("%s: sshbuf_new failed", __func__);
    }
    if ((r = sshbuf_put(msg, c->c_data, c->c_plen)) != 0 ||
        (r = sshbuf_consume(msg, 8 - (c->c_plen & 7))) != 0 /* padding */
        (r = sshbuf_get_u8(msg, &type)) != 0)
        goto buf_err;
    if (type != (int) SSH_SMSG_PUBLIC_KEY) {
        error("%s: invalid packet type", c->c_name);
        sshbuf_reset(msg);
        return NULL;
    }
    if ((r = sshbuf_consume(msg, 8)) != 0 /* cookie */
        /* server key */
        (r = sshbuf_get_u32(msg, NULL)) != 0 ||
        (r = sshbuf_get_bignum1(msg, NULL)) != 0 ||
        (r = sshbuf_get_bignum1(msg, NULL)) != 0 ||
        /* host key */
        (r = sshbuf_get_u32(msg, NULL)) != 0 ||
        (r = sshbuf_get_bignum1(msg, rsa->rsa->e)) != 0 ||
        (r = sshbuf_get_bignum1(msg, rsa->rsa->n)) != 0) {
buf_err:
        error("%s: buffer error: %s", __func__, ssh_err(r));
        sshbuf_reset(msg);
        return NULL;
    }

    sshbuf_reset(msg);

```



```

return (rsa);
}
#endif

static int
key_print_wrapper(struct sshkey *hostkey, struct ssh *ssh)
{
con *c;

if ((c = ssh_get_app_data(ssh)) != NULL)
    keyprint(c, hostkey);
/* always abort key exchange */
return -1;
}

static int
ssh2_capable(int remote_major, int remote_minor)
{
switch (remote_major) {
case 1:
if (remote_minor == 99)
return 1;
break;
case 2:
return 1;
default:
break;
}
return 0;
}

static void
keygrab_ssh2(con *c)
{
char *myproposal[PROPOSAL_MAX] = { KEX_CLIENT };
int r;

enable_compat20();
switch (c->c_keytype) {
case KT_DSA:
myproposal[PROPOSAL_SERVER_HOST_KEY_ALGS] = get_cert ?
    "ssh-dss-cert-v01@openssh.com" : "ssh-dss";
break;
case KT_RSA:
myproposal[PROPOSAL_SERVER_HOST_KEY_ALGS] = get_cert ?
    "ssh-rsa-cert-v01@openssh.com" : "ssh-rsa";
break;
case KT_ED25519:

```

```

myproposal[PROPOSAL_SERVER_HOST_KEY_ALGS] = get_cert ?
    "ssh-ed25519-cert-v01@openssh.com" : "ssh-ed25519";
break;
case KT_ECDSA:
myproposal[PROPOSAL_SERVER_HOST_KEY_ALGS] = get_cert ?
    "ecdsa-sha2-nistp256-cert-v01@openssh.com,"
    "ecdsa-sha2-nistp384-cert-v01@openssh.com,"
    "ecdsa-sha2-nistp521-cert-v01@openssh.com" :
    "ecdsa-sha2-nistp256,"
    "ecdsa-sha2-nistp384,"
    "ecdsa-sha2-nistp521";
break;
default:
fatal("unknown key type %d", c->c_keytype);
break;
}
if ((r = kex_setup(c->c_ssh, myproposal)) != 0) {
free(c->c_ssh);
fprintf(stderr, "kex_setup: %s\n", ssh_err(r));
exit(1);
}
#ifdef WITH_OPENSSL
c->c_ssh->kex->kex[KEX_DH_GRP1_SHA1] = kexdh_client;
c->c_ssh->kex->kex[KEX_DH_GRP14_SHA1] = kexdh_client;
c->c_ssh->kex->kex[KEX_DH_GEX_SHA1] = kexgex_client;
c->c_ssh->kex->kex[KEX_DH_GEX_SHA256] = kexgex_client;
# ifdef OPENSSL_HAS_ECC
c->c_ssh->kex->kex[KEX_ECDH_SHA2] = kexecd_client;
# endif
#endif
c->c_ssh->kex->kex[KEX_C25519_SHA256] = kexc25519_client;
ssh_set_verify_host_key_callback(c->c_ssh, key_print_wrapper);
/*
 * do the key-exchange until an error occurs or until
 * the key_print_wrapper() callback sets c_done.
 */
ssh_dispatch_run(c->c_ssh, DISPATCH_BLOCK, &c->c_done, c->c_ssh);
}

static void
keyprint_one(char *host, struct sshkey *key)
{
char *hostport;

if (hash_hosts && (host = host_hash(host, NULL, 0)) == NULL)
fatal("host_hash failed");

hostport = put_host_port(host, ssh_port);

```

```

if (!get_cert)
    fprintf(stdout, "%s ", hostport);
sshkey_write(key, stdout);
fputs("\n", stdout);
free(hostport);
}

static void
keyprint(con *c, struct sshkey *key)
{
    char *hosts = c->c_output_name ? c->c_output_name : c->c_name;
    char *host, *ohosts;

    if (key == NULL)
        return;
    if (get_cert || (!hash_hosts && ssh_port == SSH_DEFAULT_PORT)) {
        keyprint_one(hosts, key);
        return;
    }
    ohosts = hosts = xstrdup(hosts);
    while ((host = strsep(&ohosts, ",")) != NULL)
        keyprint_one(host, key);
    free(ohosts);
}

static int
tcpconnect(char *host)
{
    struct addrinfo hints, *ai, *aitop;
    char strport[NI_MAXSERV];
    int gaierr, s = -1;

    snprintf(strport, sizeof strport, "%d", ssh_port);
    memset(&hints, 0, sizeof(hints));
    hints.ai_family = IPv4or6;
    hints.ai_socktype = SOCK_STREAM;
    if ((gaierr = getaddrinfo(host, strport, &hints, &aitop)) != 0) {
        error("getaddrinfo %s: %s", host, ssh_gai_strerror(gaierr));
        return -1;
    }
    for (ai = aitop; ai; ai = ai->ai_next) {
        s = socket(ai->ai_family, ai->ai_socktype, ai->ai_protocol);
        if (s < 0) {
            error("socket: %s", strerror(errno));
            continue;
        }
        if (set_nonblock(s) == -1)
            fatal("%s: set_nonblock(%d)", __func__, s);
    }
}

```

```

if (connect(s, ai->ai_addr, ai->ai_addrlen) < 0 &&
    errno != EINPROGRESS)
    error("connect (`%s'): %s", host, strerror(errno));
else
    break;
close(s);
s = -1;
}
freeaddrinfo(aitop);
return s;
}

static int
conalloc(char *iname, char *oname, int keytype)
{
    char *namebase, *name, *namelist;
    int s;

    namebase = namelist = xstrdup(iname);

    do {
        name = xstrsep(&namelist, ",");
        if (!name) {
            free(namebase);
            return (-1);
        }
    } while ((s = tcpconnect(name)) < 0);

    if (s >= maxfd)
        fatal("conalloc: fdno %d too high", s);
    if (fdcon[s].c_status)
        fatal("conalloc: attempt to reuse fdno %d", s);

    debug3("%s: oname %s kt %d", __func__, oname, keytype);
    fdcon[s].c_fd = s;
    fdcon[s].c_status = CS_CON;
    fdcon[s].c_namebase = namebase;
    fdcon[s].c_name = name;
    fdcon[s].c_namelist = namelist;
    fdcon[s].c_output_name = xstrdup(oname);
    fdcon[s].c_data = (char *) &fdcon[s].c_plen;
    fdcon[s].c_len = 4;
    fdcon[s].c_off = 0;
    fdcon[s].c_keytype = keytype;
    gettimeofday(&fdcon[s].c_tv, NULL);
    fdcon[s].c_tv.tv_sec += timeout;
    TAILQ_INSERT_TAIL(&tq, &fdcon[s], c_link);
    FD_SET(s, read_wait);

```

```

ncon++;
return (s);
}

static void
confree(int s)
{
if (s >= maxfd || fdcon[s].c_status == CS_UNUSED)
fatal("confree: attempt to free bad fdno %d", s);
close(s);
free(fdcon[s].c_namebase);
free(fdcon[s].c_output_name);
if (fdcon[s].c_status == CS_KEYS)
free(fdcon[s].c_data);
fdcon[s].c_status = CS_UNUSED;
fdcon[s].c_keytype = 0;
if (fdcon[s].c_ssh) {
ssh_packet_close(fdcon[s].c_ssh);
free(fdcon[s].c_ssh);
fdcon[s].c_ssh = NULL;
}
TAILQ_REMOVE(&tq, &fdcon[s], c_link);
FD_CLR(s, read_wait);
ncon--;
}

static void
contouch(int s)
{
TAILQ_REMOVE(&tq, &fdcon[s], c_link);
gettimeofday(&fdcon[s].c_tv, NULL);
fdcon[s].c_tv.tv_sec += timeout;
TAILQ_INSERT_TAIL(&tq, &fdcon[s], c_link);
}

static int
conrecycle(int s)
{
con *c = &fdcon[s];
int ret;

ret = conalloc(c->c_namelist, c->c_output_name, c->c_keytype);
confree(s);
return (ret);
}

static void
congreet(int s)

```

```

{
int n = 0, remote_major = 0, remote_minor = 0;
char buf[256], *cp;
char remote_version[sizeof buf];
size_t bufsiz;
con *c = &fdcon[s];

for (;;) {
memset(buf, '\0', sizeof(buf));
bufsiz = sizeof(buf);
cp = buf;
while (bufsiz-- &&
(n = atomicio(read, s, cp, 1)) == 1 && *cp != '\n') {
if (*cp == '\r')
*cp = '\n';
cp++;
}
if (n != 1 || strncmp(buf, "SSH-", 4) == 0)
break;
}
if (n == 0) {
switch (errno) {
case EPIPE:
error("%s: Connection closed by remote host", c->c_name);
break;
case ECONNREFUSED:
break;
default:
error("read (%s): %s", c->c_name, strerror(errno));
break;
}
conrecycle(s);
return;
}
if (*cp != '\n' && *cp != '\r') {
error("%s: bad greeting", c->c_name);
confree(s);
return;
}
*cp = '\0';
if ((c->c_ssh = ssh_packet_set_connection(NULL, s, s)) == NULL)
fatal("ssh_packet_set_connection failed");
ssh_packet_set_timeout(c->c_ssh, timeout, 1);
ssh_set_app_data(c->c_ssh, c); /* back link */
if (sscanf(buf, "SSH-%d.%d-%[^\n]\n",
&remote_major, &remote_minor, remote_version) == 3)
c->c_ssh->compat = compat_datafellows(remote_version);
else

```

```

c->c_ssh->compat = 0;
if (c->c_keytype != KT_RSA1) {
if (!ssh2_capable(remote_major, remote_minor)) {
debug("%s doesn't support ssh2", c->c_name);
confree(s);
return;
}
} else if (remote_major != 1) {
debug("%s doesn't support ssh1", c->c_name);
confree(s);
return;
}
fprintf(stderr, "# %s:%d %s\n", c->c_name, ssh_port, chop(buf));
n = snprintf(buf, sizeof buf, "SSH-%d.%d-OpenSSH-keyscan\r\n",
c->c_keytype == KT_RSA1? PROTOCOL_MAJOR_1 : PROTOCOL_MAJOR_2,
c->c_keytype == KT_RSA1? PROTOCOL_MINOR_1 : PROTOCOL_MINOR_2);
if (n < 0 || (size_t)n >= sizeof(buf)) {
error("snprintf: buffer too small");
confree(s);
return;
}
if (atomicio(vwrite, s, buf, n) != (size_t)n) {
error("write (%s): %s", c->c_name, strerror(errno));
confree(s);
return;
}
if (c->c_keytype != KT_RSA1) {
keygrab_ssh2(c);
confree(s);
return;
}
c->c_status = CS_SIZE;
contouch(s);
}

```

```

static void
conread(int s)
{
con *c = &fdcon[s];
size_t n;

if (c->c_status == CS_CON) {
con greet(s);
return;
}
n = atomicio(read, s, c->c_data + c->c_off, c->c_len - c->c_off);
if (n == 0) {
error("read (%s): %s", c->c_name, strerror(errno));
}

```

```

confree(s);
return;
}
c->c_off += n;

if (c->c_off == c->c_len)
switch (c->c_status) {
case CS_SIZE:
c->c_plen = htonl(c->c_plen);
c->c_len = c->c_plen + 8 - (c->c_plen & 7);
c->c_off = 0;
c->c_data = xmalloc(c->c_len);
c->c_status = CS_KEYS;
break;
#ifdef WITH_SSH1
case CS_KEYS:
keyprint(c, keygrab_ssh1(c));
confree(s);
return;
#endif
default:
fatal("conread: invalid status %d", c->c_status);
break;
}

contouch(s);
}

static void
conloop(void)
{
struct timeval seltime, now;
fd_set *r, *e;
con *c;
int i;

gettimeofday(&now, NULL);
c = TAILQ_FIRST(&tq);

if (c && (c->c_tv.tv_sec > now.tv_sec ||
(c->c_tv.tv_sec == now.tv_sec && c->c_tv.tv_usec > now.tv_usec))) {
seltime = c->c_tv;
seltime.tv_sec -= now.tv_sec;
seltime.tv_usec -= now.tv_usec;
if (seltime.tv_usec < 0) {
seltime.tv_usec += 1000000;
seltime.tv_sec--;
}
}

```



```

} else
timerclear(&seltime);

r = xcalloc(read_wait_nfdset, sizeof(fd_mask));
e = xcalloc(read_wait_nfdset, sizeof(fd_mask));
memcpy(r, read_wait, read_wait_nfdset * sizeof(fd_mask));
memcpy(e, read_wait, read_wait_nfdset * sizeof(fd_mask));

while (select(maxfd, r, NULL, e, &seltime) == -1 &&
(errno == EAGAIN || errno == EINTR || errno == EWOULDBLOCK))
;

for (i = 0; i < maxfd; i++) {
if (FD_ISSET(i, e)) {
error("%s: exception!", fdcon[i].c_name);
confree(i);
} else if (FD_ISSET(i, r))
conread(i);
}
free(r);
free(e);

c = TAILQ_FIRST(&tq);
while (c && (c->c_tv.tv_sec < now.tv_sec ||
(c->c_tv.tv_sec == now.tv_sec && c->c_tv.tv_usec < now.tv_usec))) {
int s = c->c_fd;

c = TAILQ_NEXT(c, c_link);
conrecycle(s);
}
}

static void
do_host(char *host)
{
char *name = strnsep(&host, "\t\n");
int j;

if (name == NULL)
return;
for (j = KT_RSA1; j <= KT_ED25519; j *= 2) {
if (get_keytypes & j) {
while (ncon >= MAXCON)
conloop();
conalloc(name, *host ? host : name, j);
}
}
}

```

```

void
fatal(const char *fmt,...)
{
    va_list args;

    va_start(args, fmt);
    do_log(SYSLOG_LEVEL_FATAL, fmt, args);
    va_end(args);
    exit(255);
}

static void
usage(void)
{
    fprintf(stderr,
        "usage: %s [-46cHv] [-f file] [-p port] [-T timeout] [-t type]\n"
        "\t\t [host | addrlist namelist] ...\n",
        __progname);
    exit(1);
}

int
main(int argc, char **argv)
{
    int debug_flag = 0, log_level = SYSLOG_LEVEL_INFO;
    int opt, foft_count = 0, j;
    char *tname, *cp, line[NI_MAXHOST];
    FILE *fp;
    u_long linenum;

    extern int optind;
    extern char *optarg;

    ssh_malloc_init(); /* must be called before any mallocs */
    __progname = ssh_get_progname(argv[0]);
    seed_rng();
    TAILQ_INIT(&tq);

    /* Ensure that fds 0, 1 and 2 are open or directed to /dev/null */
    sanitise_stdio();

    if (argc <= 1)
        usage();

    while ((opt = getopt(argc, argv, "cHv46p:T:t:f:")) != -1) {
        switch (opt) {
            case 'H':

```

```

hash_hosts = 1;
break;
case 'c':
    get_cert = 1;
    break;
case 'p':
    ssh_port = a2port(optarg);
    if (ssh_port <= 0) {
        fprintf(stderr, "Bad port '%s'\n", optarg);
        exit(1);
    }
    break;
case 'T':
    timeout = convtime(optarg);
    if (timeout == -1 || timeout == 0) {
        fprintf(stderr, "Bad timeout '%s'\n", optarg);
        usage();
    }
    break;
case 'v':
    if (!debug_flag) {
        debug_flag = 1;
        log_level = SYSLOG_LEVEL_DEBUG1;
    }
    else if (log_level < SYSLOG_LEVEL_DEBUG3)
        log_level++;
    else
        fatal("Too high debugging level.");
    break;
case 'F':
    if (strcmp(optarg, "-") == 0)
        optarg = NULL;
    argv[fopt_count++] = optarg;
    break;
case 't':
    get_keytypes = 0;
    tname = strtok(optarg, ",");
    while (tname) {
        int type = sshkey_type_from_name(tname);
        switch (type) {
            case KEY_RSA1:
                get_keytypes |= KT_RSA1;
                break;
            case KEY_DSA:
                get_keytypes |= KT_DSA;
                break;
            case KEY_ECDSA:
                get_keytypes |= KT_ECDSA;

```

```

    break;
case KEY_RSA:
    get_keytypes |= KT_RSA;
    break;
case KEY_ED25519:
    get_keytypes |= KT_ED25519;
    break;
case KEY_UNSPEC:
    fatal("unknown key type %s", tname);
    }
    tname = strtok(NULL, ",");
    }
    break;
case '4':
    IPv4or6 = AF_INET;
    break;
case '6':
    IPv4or6 = AF_INET6;
    break;
case '?':
default:
    usage();
    }
}
if (optind == argc && !fopt_count)
    usage();

log_init("ssh-keyscan", log_level, SYSLOG_FACILITY_USER, 1);

maxfd = fdlim_get(1);
if (maxfd < 0)
    fatal("%s: fdlim_get: bad value", __progname);
if (maxfd > MAXMAXFD)
    maxfd = MAXMAXFD;
if (MAXCON <= 0)
    fatal("%s: not enough file descriptors", __progname);
if (maxfd > fdlim_get(0))
    fdlim_set(maxfd);
fdcon = xcalloc(maxfd, sizeof(con));

read_wait_nfdset = howmany(maxfd, NFDBITS);
read_wait = xcalloc(read_wait_nfdset, sizeof(fd_mask));

for (j = 0; j < fopt_count; j++) {
    if (argv[j] == NULL)
        fp = stdin;
    else if ((fp = fopen(argv[j], "r")) == NULL)
        fatal("%s: %s: %s", __progname, argv[j],

```

```

    strerror(errno));
linenum = 0;

while (read_keyfile_line(fp,
    argv[j] == NULL ? "(stdin)" : argv[j], line, sizeof(line),
    &linenum) != -1) {
/* Chomp off trailing whitespace and comments */
if ((cp = strchr(line, '#')) == NULL)
cp = line + strlen(line) - 1;
while (cp >= line) {
if (*cp == ' ' || *cp == '\t' ||
    *cp == '\n' || *cp == '#')
*cp-- = '\0';
else
break;
}

/* Skip empty lines */
if (*line == '\0')
continue;

do_host(line);
}

if (ferror(fp))
fatal("%s: %s: %s", __progname, argv[j],
    strerror(errno));

fclose(fp);
}

while (optind < argc)
do_host(argv[optind++]);

while (ncon > 0)
conloop();

return (0);
}
SSH-KEYSIGN(8)      System Manager's Manual      SSH-KEYSIGN(8)

```

## NAME

ssh-keysign M-bM-^@M-^S ssh helper program for host-based authentication

## SYNOPSIS

ssh-keysign

## DESCRIPTION

ssh-keysign is used by ssh(1) to access the local host keys and generate the digital signature required during host-based authentication.

ssh-keysign is disabled by default and can only be enabled in the global client configuration file /etc/ssh/ssh\_config by setting EnableSSHKeysign to M-bM-^@M-^\yesM-bM-^@M-^].

ssh-keysign is not intended to be invoked by the user, but from ssh(1). See ssh(1) and sshd(8) for more information about host-based authentication.

## FILES

/etc/ssh/ssh\_config

Controls whether ssh-keysign is enabled.

/etc/ssh/ssh\_host\_dsa\_key

/etc/ssh/ssh\_host\_ecdsa\_key

/etc/ssh/ssh\_host\_ed25519\_key

/etc/ssh/ssh\_host\_rsa\_key

These files contain the private parts of the host keys used to generate the digital signature. They should be owned by root, readable only by root, and not accessible to others. Since they are readable only by root, ssh-keysign must be set-uid root if host-based authentication is used.

/etc/ssh/ssh\_host\_dsa\_key-cert.pub

/etc/ssh/ssh\_host\_ecdsa\_key-cert.pub

/etc/ssh/ssh\_host\_ed25519\_key-cert.pub

/etc/ssh/ssh\_host\_rsa\_key-cert.pub

If these files exist they are assumed to contain public certificate information corresponding with the private keys above.

## SEE ALSO

ssh(1), ssh-keygen(1), ssh\_config(5), sshd(8)

## HISTORY

ssh-keysign first appeared in OpenBSD 3.2.

## AUTHORS

Markus Friedl <markus@openbsd.org>

OpenBSD 5.9                      February 17, 2016                      OpenBSD 5.9

.\" \$OpenBSD: ssh-keysign.8,v 1.15 2016/02/17 07:38:19 jmc Exp \$

.\"

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.Dd \$Mdocdate: February 17 2016 \$  
 .Dt SSH-KEYSIGN 8  
 .Os  
 .Sh NAME  
 .Nm ssh-keysign  
 .Nd ssh helper program for host-based authentication  
 .Sh SYNOPSIS  
 .Nm  
 .Sh DESCRIPTION  
 .Nm  
 is used by  
 .Xr ssh 1  
 to access the local host keys and generate the digital signature  
 required during host-based authentication.  
 .Pp  
 .Nm  
 is disabled by default and can only be enabled in the  
 global client configuration file  
 .Pa /etc/ssh/ssh\_config  
 by setting  
 .Cm EnableSSHKeysign  
 to  
 .Dq yes .  
 .Pp  
 .Nm  
 is not intended to be invoked by the user, but from  
 .Xr ssh 1 .  
 See  
 .Xr ssh 1

and

.Xr sshd 8

for more information about host-based authentication.

.Sh FILES

.Bl -tag -width Ds -compact

.It Pa /etc/ssh/ssh\_config

Controls whether

.Nm

is enabled.

.Pp

.It Pa /etc/ssh/ssh\_host\_dsa\_key

.It Pa /etc/ssh/ssh\_host\_ecdsa\_key

.It Pa /etc/ssh/ssh\_host\_ed25519\_key

.It Pa /etc/ssh/ssh\_host\_rsa\_key

These files contain the private parts of the host keys used to generate the digital signature.

They should be owned by root, readable only by root, and not accessible to others.

Since they are readable only by root,

.Nm

must be set-uid root if host-based authentication is used.

.Pp

.It Pa /etc/ssh/ssh\_host\_dsa\_key-cert.pub

.It Pa /etc/ssh/ssh\_host\_ecdsa\_key-cert.pub

.It Pa /etc/ssh/ssh\_host\_ed25519\_key-cert.pub

.It Pa /etc/ssh/ssh\_host\_rsa\_key-cert.pub

If these files exist they are assumed to contain public certificate information corresponding with the private keys above.

.El

.Sh SEE ALSO

.Xr ssh 1 ,

.Xr ssh-keygen 1 ,

.Xr ssh\_config 5 ,

.Xr sshd 8

.Sh HISTORY

.Nm

first appeared in

.Ox 3.2 .

.Sh AUTHORS

.An Markus Friedl Aq Mt markus@openbsd.org

/\* \$OpenBSD: ssh-keysign.c,v 1.52 2016/02/15 09:47:49 dtucker Exp \$ \*/

/\*

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\*/

```
#include "includes.h"
```

```
#include <fcntl.h>  
#ifdef HAVE_PATHS_H  
#include <paths.h>  
#endif  
#include <pwd.h>  
#include <stdarg.h>  
#include <stdlib.h>  
#include <string.h>  
#include <unistd.h>  
#include <errno.h>
```

```
#ifdef WITH_OPENSSL  
#include <openssl/evp.h>  
#include <openssl/rand.h>  
#include <openssl/rsa.h>  
#endif
```

```
#include "xmalloc.h"  
#include "log.h"  
#include "sshkey.h"  
#include "ssh.h"  
#include "ssh2.h"  
#include "misc.h"  
#include "sshbuf.h"  
#include "authfile.h"  
#include "msg.h"  
#include "canohost.h"  
#include "pathnames.h"  
#include "readconf.h"
```

```

#include "uidswap.h"
#include "sshkey.h"
#include "ssherr.h"

struct ssh *active_state = NULL; /* XXX needed for linking */

extern char *__progname;

/* XXX readconf.c needs these */
uid_t original_real_uid;

extern char *__progname;

static int
valid_request(struct passwd *pw, char *host, struct sshkey **ret,
    u_char *data, size_t datalen)
{
    struct sshbuf *b;
    struct sshkey *key = NULL;
    u_char type, *pkblob;
    char *p;
    size_t blen, len;
    char *pkalg, *luser;
    int r, pktype, fail;

    if (ret != NULL)
        *ret = NULL;
    fail = 0;

    if ((b = sshbuf_from(data, datalen)) == NULL)
        fatal("%s: sshbuf_from failed", __func__);

    /* session id, currently limited to SHA1 (20 bytes) or SHA256 (32) */
    if ((r = sshbuf_get_string(b, NULL, &len)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));
    if (len != 20 && len != 32)
        fail++;

    if ((r = sshbuf_get_u8(b, &type)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));
    if (type != SSH2_MSG_USERAUTH_REQUEST)
        fail++;

    /* server user */
    if ((r = sshbuf_skip_string(b)) != 0)
        fatal("%s: buffer error: %s", __func__, ssh_err(r));

    /* service */

```

```

if ((r = sshbuf_get_cstring(b, &p, NULL)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));
if (strcmp("ssh-connection", p) != 0)
    fail++;
free(p);

/* method */
if ((r = sshbuf_get_cstring(b, &p, NULL)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));
if (strcmp("hostbased", p) != 0)
    fail++;
free(p);

/* pubkey */
if ((r = sshbuf_get_cstring(b, &pkalg, NULL)) != 0 ||
    (r = sshbuf_get_string(b, &pkblob, &blen)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));

pktype = sshkey_type_from_name(pkalg);
if (pktype == KEY_UNSPEC)
    fail++;
else if ((r = sshkey_from_blob(pkblob, blen, &key)) != 0) {
    error("%s: bad key blob: %s", __func__, ssh_err(r));
    fail++;
} else if (key->type != pktype)
    fail++;
free(pkalg);
free(pkblob);

/* client host name, handle trailing dot */
if ((r = sshbuf_get_cstring(b, &p, &len)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));
debug2("%s: check expect chost %s got %s", __func__, host, p);
if (strlen(host) != len - 1)
    fail++;
else if (p[len - 1] != '.')
    fail++;
else if (strncasecmp(host, p, len - 1) != 0)
    fail++;
free(p);

/* local user */
if ((r = sshbuf_get_cstring(b, &luser, NULL)) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));

if (strcmp(pw->pw_name, luser) != 0)
    fail++;
free(luser);

```

```

/* end of message */
if (sshbuf_len(b) != 0)
    fail++;
sshbuf_free(b);

debug3("%s: fail %d", __func__, fail);

if (fail && key != NULL)
    sshkey_free(key);
else if (ret != NULL)
    *ret = key;

return (fail ? -1 : 0);
}

int
main(int argc, char **argv)
{
    struct sshbuf *b;
    Options options;
#define NUM_KEYTYPES 4
    struct sshkey *keys[NUM_KEYTYPES], *key = NULL;
    struct passwd *pw;
    int r, key_fd[NUM_KEYTYPES], i, found, version = 2, fd;
    u_char *signature, *data, rver;
    char *host, *fp;
    size_t slen, dlen;
#ifdef WITH_OPENSSL
    u_int32_t rnd[256];
#endif

    ssh_malloc_init(); /* must be called before any mallocs */
    if (pledge("stdio rpath getpw dns id", NULL) != 0)
        fatal("%s: pledge: %s", __progname, strerror(errno));

    /* Ensure that stdin and stdout are connected */
    if ((fd = open(_PATH_DEVNULL, O_RDWR)) < 2)
        exit(1);
    /* Leave /dev/null fd iff it is attached to stderr */
    if (fd > 2)
        close(fd);

    i = 0;
    /* XXX This really needs to read sshd_config for the paths */
    key_fd[i++] = open(_PATH_HOST_DSA_KEY_FILE, O_RDONLY);
    key_fd[i++] = open(_PATH_HOST_ECDSA_KEY_FILE, O_RDONLY);
    key_fd[i++] = open(_PATH_HOST_ED25519_KEY_FILE, O_RDONLY);

```

```

key_fd[i++] = open(_PATH_HOST_RSA_KEY_FILE, O_RDONLY);

original_real_uid = getuid(); /* XXX readconf.c needs this */
if ((pw = getpwuid(original_real_uid)) == NULL)
    fatal("getpwuid failed");
pw = pwcopyp(w);

permanently_set_uid(pw);

seed_rng();

#ifdef DEBUG_SSH_KEYSIGN
log_init("ssh-keysign", SYSLOG_LEVEL_DEBUG3, SYSLOG_FACILITY_AUTH, 0);
#endif

/* verify that ssh-keysign is enabled by the admin */
initialize_options(&options);
(void)read_config_file(_PATH_HOST_CONFIG_FILE, pw, "", "", &options, 0);
fill_default_options(&options);
if (options.enable_ssh_keysign != 1)
    fatal("ssh-keysign not enabled in %s",
        _PATH_HOST_CONFIG_FILE);

for (i = found = 0; i < NUM_KEYTYPES; i++) {
    if (key_fd[i] != -1)
        found = 1;
}
if (found == 0)
    fatal("could not open any host key");

#ifdef WITH_OPENSSL
OpenSSL_add_all_algorithms();
arc4random_buf(rnd, sizeof(rnd));
RAND_seed(rnd, sizeof(rnd));
#endif

found = 0;
for (i = 0; i < NUM_KEYTYPES; i++) {
    keys[i] = NULL;
    if (key_fd[i] == -1)
        continue;
    r = sshkey_load_private_type_fd(key_fd[i], KEY_UNSPEC,
        NULL, &key, NULL);
    close(key_fd[i]);
    if (r != 0)
        debug("parse key %d: %s", i, ssh_err(r));
    else if (key != NULL) {
        keys[i] = key;
    }
}

```

```

    found = 1;
}
}
if (!found)
    fatal("no hostkey found");

if (pledge("stdio dns", NULL) != 0)
    fatal("%s: pledge: %s", __progname, strerror(errno));

if ((b = sshbuf_new()) == NULL)
    fatal("%s: sshbuf_new failed", __progname);
if (ssh_msg_recv(STDIN_FILENO, b) < 0)
    fatal("ssh_msg_recv failed");
if ((r = sshbuf_get_u8(b, &rver)) != 0)
    fatal("%s: buffer error: %s", __progname, ssh_err(r));
if (rver != version)
    fatal("bad version: received %d, expected %d", rver, version);
if ((r = sshbuf_get_u32(b, (u_int *)&fd)) != 0)
    fatal("%s: buffer error: %s", __progname, ssh_err(r));
if (fd < 0 || fd == STDIN_FILENO || fd == STDOUT_FILENO)
    fatal("bad fd");
if ((host = get_local_name(fd)) == NULL)
    fatal("cannot get local name for fd");

if ((r = sshbuf_get_string(b, &data, &dlen)) != 0)
    fatal("%s: buffer error: %s", __progname, ssh_err(r));
if (valid_request(pw, host, &key, data, dlen) < 0)
    fatal("not a valid request");
free(host);

found = 0;
for (i = 0; i < NUM_KEYTYPES; i++) {
    if (keys[i] != NULL &&
        sshkey_equal_public(key, keys[i])) {
        found = 1;
        break;
    }
}
if (!found) {
    if ((fp = sshkey_fingerprint(key, options.fingerprint_hash,
        SSH_FP_DEFAULT)) == NULL)
        fatal("%s: sshkey_fingerprint failed", __progname);
    fatal("no matching hostkey found for key %s %s",
        sshkey_type(key), fp ? fp : "");
}

if ((r = sshkey_sign(keys[i], &signature, &slen, data, dlen, NULL, 0))
    != 0)

```

```

fatal("sshkey_sign failed: %s", ssh_err(r));
free(data);

/* send reply */
sshbuf_reset(b);
if ((r = sshbuf_put_string(b, signature, slen)) != 0)
    fatal("%s: buffer error: %s", __progname, ssh_err(r));
if (ssh_msg_send(STDOUT_FILENO, version, b) == -1)
    fatal("ssh_msg_send failed");

return (0);
}
/* $OpenBSD: ssh-pkcs11-client.c,v 1.6 2015/12/11 00:20:04 mmcc Exp $ */
/*
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*/

#include "includes.h"

#ifdef ENABLE_PKCS11

#include <sys/types.h>
#ifdef HAVE_SYS_TIME_H
#include <sys/time.h>
#endif
#include <sys/socket.h>

#include <stdarg.h>
#include <string.h>
#include <unistd.h>
#include <errno.h>

#include <openssl/rsa.h>

#include "pathnames.h"
#include "xmalloc.h"

```

```

#include "buffer.h"
#include "log.h"
#include "misc.h"
#include "key.h"
#include "authfd.h"
#include "atomicio.h"
#include "ssh-pkcs11.h"

/* borrows code from sftp-server and ssh-agent */

int fd = -1;
pid_t pid = -1;

static void
send_msg(Buffer *m)
{
    u_char buf[4];
    int mlen = buffer_len(m);

    put_u32(buf, mlen);
    if (atomicio(vwrite, fd, buf, 4) != 4 ||
        atomicio(vwrite, fd, buffer_ptr(m),
            buffer_len(m)) != buffer_len(m))
        error("write to helper failed");
    buffer_consume(m, mlen);
}

static int
recv_msg(Buffer *m)
{
    u_int l, len;
    u_char buf[1024];

    if ((len = atomicio(read, fd, buf, 4)) != 4) {
        error("read from helper failed: %u", len);
        return (0); /* XXX */
    }
    len = get_u32(buf);
    if (len > 256 * 1024)
        fatal("response too long: %u", len);
    /* read len bytes into m */
    buffer_clear(m);
    while (len > 0) {
        l = len;
        if (l > sizeof(buf))
            l = sizeof(buf);
        if (atomicio(read, fd, buf, l) != l) {
            error("response from helper failed.");
        }
    }
}

```



```

    return (0); /* XXX */
}
buffer_append(m, buf, l);
len -= l;
}
return (buffer_get_char(m));
}

int
pkcs11_init(int interactive)
{
    return (0);
}

void
pkcs11_terminate(void)
{
    close(fd);
}

static int
pkcs11_rsa_private_encrypt(int flen, const u_char *from, u_char *to, RSA *rsa,
    int padding)
{
    Key key;
    u_char *blob, *signature = NULL;
    u_int blen, slen = 0;
    int ret = -1;
    Buffer msg;

    if (padding != RSA_PKCS1_PADDING)
        return (-1);
    key.type = KEY_RSA;
    key.rsa = rsa;
    if (key_to_blob(&key, &blob, &blen) == 0)
        return -1;
    buffer_init(&msg);
    buffer_put_char(&msg, SSH2_AGENTC_SIGN_REQUEST);
    buffer_put_string(&msg, blob, blen);
    buffer_put_string(&msg, from, flen);
    buffer_put_int(&msg, 0);
    free(blob);
    send_msg(&msg);
    buffer_clear(&msg);

    if (recv_msg(&msg) == SSH2_AGENT_SIGN_RESPONSE) {
        signature = buffer_get_string(&msg, &slen);
        if (slen <= (u_int)RSA_size(rsa)) {

```

```

    memcpy(to, signature, slen);
    ret = slen;
}
free(signature);
}
buffer_free(&msg);
return (ret);
}

/* redirect the private key encrypt operation to the ssh-pkcs11-helper */
static int
wrap_key(RSA *rsa)
{
    static RSA_METHOD helper_rsa;

    memcpy(&helper_rsa, RSA_get_default_method(), sizeof(helper_rsa));
    helper_rsa.name = "ssh-pkcs11-helper";
    helper_rsa.rsa_priv_enc = pkcs11_rsa_private_encrypt;
    RSA_set_method(rsa, &helper_rsa);
    return (0);
}

static int
pkcs11_start_helper(void)
{
    int pair[2];

    if (socketpair(AF_UNIX, SOCK_STREAM, 0, pair) == -1) {
        error("socketpair: %s", strerror(errno));
        return (-1);
    }
    if ((pid = fork()) == -1) {
        error("fork: %s", strerror(errno));
        return (-1);
    } else if (pid == 0) {
        if ((dup2(pair[1], STDIN_FILENO) == -1) ||
            (dup2(pair[1], STDOUT_FILENO) == -1)) {
            fprintf(stderr, "dup2: %s\n", strerror(errno));
            _exit(1);
        }
        close(pair[0]);
        close(pair[1]);
        execlp(_PATH_SSH_PKCS11_HELPER, _PATH_SSH_PKCS11_HELPER,
              (char *)NULL);
        fprintf(stderr, "exec: %s: %s\n", _PATH_SSH_PKCS11_HELPER,
              strerror(errno));
        _exit(1);
    }
}

```

```

close(pair[1]);
fd = pair[0];
return (0);
}

int
pkcs11_add_provider(char *name, char *pin, Key ***keysp)
{
    Key *k;
    int i, nkeys;
    u_char *blob;
    u_int blen;
    Buffer msg;

    if (fd < 0 && pkcs11_start_helper() < 0)
        return (-1);

    buffer_init(&msg);
    buffer_put_char(&msg, SSH_AGENTC_ADD_SMARTCARD_KEY);
    buffer_put_cstring(&msg, name);
    buffer_put_cstring(&msg, pin);
    send_msg(&msg);
    buffer_clear(&msg);

    if (recv_msg(&msg) == SSH2_AGENT_IDENTITIES_ANSWER) {
        nkeys = buffer_get_int(&msg);
        *keysp = xcalloc(nkeys, sizeof(Key *));
        for (i = 0; i < nkeys; i++) {
            blob = buffer_get_string(&msg, &blen);
            free(buffer_get_string(&msg, NULL));
            k = key_from_blob(blob, blen);
            wrap_key(k->rsa);
            (*keysp)[i] = k;
            free(blob);
        }
    } else {
        nkeys = -1;
    }
    buffer_free(&msg);
    return (nkeys);
}

int
pkcs11_del_provider(char *name)
{
    int ret = -1;
    Buffer msg;

```

```

buffer_init(&msg);
buffer_put_char(&msg, SSH_AGENTC_REMOVE_SMARTCARD_KEY);
buffer_put_cstring(&msg, name);
buffer_put_cstring(&msg, "");
send_msg(&msg);
buffer_clear(&msg);

if (recv_msg(&msg) == SSH_AGENT_SUCCESS)
    ret = 0;
buffer_free(&msg);
return (ret);
}

#endif /* ENABLE_PKCS11 */
SSH-PKCS11-HELPER(8)    System Manager's Manual    SSH-PKCS11-HELPER(8)

```

## NAME

ssh-pkcs11-helper M-bM-^@M-^S ssh-agent helper program for PKCS#11 support

## SYNOPSIS

ssh-pkcs11-helper

## DESCRIPTION

ssh-pkcs11-helper is used by ssh-agent(1) to access keys provided by a PKCS#11 token.

ssh-pkcs11-helper is not intended to be invoked by the user, but from ssh-agent(1).

## SEE ALSO

ssh(1), ssh-add(1), ssh-agent(1)

## HISTORY

ssh-pkcs11-helper first appeared in OpenBSD 4.7.

## AUTHORS

Markus Friedl <markus@openbsd.org>

```

OpenBSD 5.9          July 16, 2013          OpenBSD 5.9
.\" $OpenBSD: ssh-pkcs11-helper.8,v 1.4 2013/07/16 00:07:52 schwarze Exp $
.\"
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.Dd \$Mdocdate: July 16 2013 \$

.Dt SSH-PKCS11-HELPER 8

.Os

.Sh NAME

.Nm ssh-pkcs11-helper

.Nd ssh-agent helper program for PKCS#11 support

.Sh SYNOPSIS

.Nm

.Sh DESCRIPTION

.Nm

is used by

.Xr ssh-agent 1

to access keys provided by a PKCS#11 token.

.Pp

.Nm

is not intended to be invoked by the user, but from

.Xr ssh-agent 1 .

.Sh SEE ALSO

.Xr ssh 1 ,

.Xr ssh-add 1 ,

.Xr ssh-agent 1

.Sh HISTORY

.Nm

first appeared in

.Ox 4.7 .

.Sh AUTHORS

.An Markus Friedl Aq Mt markus@openbsd.org

/\* \$OpenBSD: ssh-pkcs11-helper.c,v 1.12 2016/02/15 09:47:49 dtucker Exp \$ \*/

/\*

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\*/

```
#include "includes.h"
```

```
#include <sys/types.h>
```

```
#ifdef HAVE_SYS_TIME_H
```

```
# include <sys/time.h>
```

```
#endif
```

```
#include "openbsd-compat/sys-queue.h"
```

```
#include <stdarg.h>
```

```
#include <string.h>
```

```
#include <unistd.h>
```

```
#include <errno.h>
```

```
#include "xmalloc.h"
```

```
#include "buffer.h"
```

```
#include "log.h"
```

```
#include "misc.h"
```

```
#include "key.h"
```

```
#include "authfd.h"
```

```
#include "ssh-pkcs11.h"
```

```
#ifdef ENABLE_PKCS11
```

```
/* borrows code from sftp-server and ssh-agent */
```

```
struct pkcs11_keyinfo {  
    Key *key;  
    char *providername;  
    TAILQ_ENTRY(pkcs11_keyinfo) next;  
};
```

```
TAILQ_HEAD(, pkcs11_keyinfo) pkcs11_keylist;
```

```
#define MAX_MSG_LENGTH 10240 /*XXX*/
```

```
/* helper */
```

```
#define get_int() buffer_get_int(&iqueue);
```

```
#define get_string(lenp) buffer_get_string(&iqueue, lenp);
```

```
/* input and output queue */
```

```
Buffer iqueue;
```

```
Buffer oqueue;
```

```
static void
```

```

add_key(Key *k, char *name)
{
    struct pkcs11_keyinfo *ki;

    ki = xcalloc(1, sizeof(*ki));
    ki->providername = xstrdup(name);
    ki->key = k;
    TAILQ_INSERT_TAIL(&pkcs11_keylist, ki, next);
}

static void
del_keys_by_name(char *name)
{
    struct pkcs11_keyinfo *ki, *nxt;

    for (ki = TAILQ_FIRST(&pkcs11_keylist); ki; ki = nxt) {
        nxt = TAILQ_NEXT(ki, next);
        if (!strcmp(ki->providername, name)) {
            TAILQ_REMOVE(&pkcs11_keylist, ki, next);
            free(ki->providername);
            key_free(ki->key);
            free(ki);
        }
    }
}

/* lookup matching 'private' key */
static Key *
lookup_key(Key *k)
{
    struct pkcs11_keyinfo *ki;

    TAILQ_FOREACH(ki, &pkcs11_keylist, next) {
        debug("check %p %s", ki, ki->providername);
        if (key_equal(k, ki->key))
            return (ki->key);
    }
    return (NULL);
}

static void
send_msg(Buffer *m)
{
    int mlen = buffer_len(m);

    buffer_put_int(&queue, mlen);
    buffer_append(&queue, buffer_ptr(m), mlen);
    buffer_consume(m, mlen);
}

```

```

}

static void
process_add(void)
{
    char *name, *pin;
    Key **keys;
    int i, nkeys;
    u_char *blob;
    u_int blen;
    Buffer msg;

    buffer_init(&msg);
    name = get_string(NULL);
    pin = get_string(NULL);
    if ((nkeys = pkcs11_add_provider(name, pin, &keys)) > 0) {
        buffer_put_char(&msg, SSH2_AGENT_IDENTITIES_ANSWER);
        buffer_put_int(&msg, nkeys);
        for (i = 0; i < nkeys; i++) {
            if (key_to_blob(keys[i], &blob, &blen) == 0)
                continue;
            buffer_put_string(&msg, blob, blen);
            buffer_put_cstring(&msg, name);
            free(blob);
            add_key(keys[i], name);
        }
        free(keys);
    } else {
        buffer_put_char(&msg, SSH_AGENT_FAILURE);
    }
    free(pin);
    free(name);
    send_msg(&msg);
    buffer_free(&msg);
}

```

```

static void
process_del(void)
{
    char *name, *pin;
    Buffer msg;

    buffer_init(&msg);
    name = get_string(NULL);
    pin = get_string(NULL);
    del_keys_by_name(name);
    if (pkcs11_del_provider(name) == 0)
        buffer_put_char(&msg, SSH_AGENT_SUCCESS);
}

```



```

else
    buffer_put_char(&msg, SSH_AGENT_FAILURE);
free(pin);
free(name);
send_msg(&msg);
buffer_free(&msg);
}

static void
process_sign(void)
{
    u_char *blob, *data, *signature = NULL;
    u_int blen, dlen, slen = 0;
    int ok = -1;
    Key *key, *found;
    Buffer msg;

    blob = get_string(&blen);
    data = get_string(&dlen);
    (void)get_int(); /* XXX ignore flags */

    if ((key = key_from_blob(blob, blen)) != NULL) {
        if ((found = lookup_key(key)) != NULL) {
#ifdef WITH_OPENSSL
            int ret;

            slen = RSA_size(key->rsa);
            signature = xmalloc(slen);
            if ((ret = RSA_private_encrypt(dlen, data, signature,
                found->rsa, RSA_PKCS1_PADDING)) != -1) {
                slen = ret;
                ok = 0;
            }
#endif /* WITH_OPENSSL */
        }
        key_free(key);
    }
    buffer_init(&msg);
    if (ok == 0) {
        buffer_put_char(&msg, SSH2_AGENT_SIGN_RESPONSE);
        buffer_put_string(&msg, signature, slen);
    } else {
        buffer_put_char(&msg, SSH_AGENT_FAILURE);
    }
    free(data);
    free(blob);
    free(signature);
    send_msg(&msg);
}

```

```

buffer_free(&msg);
}

static void
process(void)
{
    u_int msg_len;
    u_int buf_len;
    u_int consumed;
    u_int type;
    u_char *cp;

    buf_len = buffer_len(&iqueue);
    if (buf_len < 5)
        return; /* Incomplete message. */
    cp = buffer_ptr(&iqueue);
    msg_len = get_u32(cp);
    if (msg_len > MAX_MSG_LENGTH) {
        error("bad message len %d", msg_len);
        cleanup_exit(11);
    }
    if (buf_len < msg_len + 4)
        return;
    buffer_consume(&iqueue, 4);
    buf_len -= 4;
    type = buffer_get_char(&iqueue);
    switch (type) {
    case SSH_AGENTC_ADD_SMARTCARD_KEY:
        debug("process_add");
        process_add();
        break;
    case SSH_AGENTC_REMOVE_SMARTCARD_KEY:
        debug("process_del");
        process_del();
        break;
    case SSH2_AGENTC_SIGN_REQUEST:
        debug("process_sign");
        process_sign();
        break;
    default:
        error("Unknown message %d", type);
        break;
    }
    /* discard the remaining bytes from the current packet */
    if (buf_len < buffer_len(&iqueue)) {
        error("iqueue grew unexpectedly");
        cleanup_exit(255);
    }
}

```

```

consumed = buf_len - buffer_len(&iqueue);
if (msg_len < consumed) {
    error("msg_len %d < consumed %d", msg_len, consumed);
    cleanup_exit(255);
}
if (msg_len > consumed)
    buffer_consume(&iqueue, msg_len - consumed);
}

```

```

void
cleanup_exit(int i)
{
    /* XXX */
    _exit(i);
}

```

```

int
main(int argc, char **argv)
{
    fd_set *rset, *wset;
    int in, out, max, log_stderr = 0;
    ssize_t len, olen, set_size;
    SyslogFacility log_facility = SYSLOG_FACILITY_AUTH;
    LogLevel log_level = SYSLOG_LEVEL_ERROR;
    char buf[4*4096];

```

```

extern char *__progname;

```

```

ssh_malloc_init(); /* must be called before any mallocs */
TAILQ_INIT(&pkcs11_keylist);
pkcs11_init(0);

```

```

seed_rng();
__progname = ssh_get_progname(argv[0]);

```

```

log_init(__progname, log_level, log_facility, log_stderr);

```

```

in = STDIN_FILENO;
out = STDOUT_FILENO;

```

```

max = 0;
if (in > max)
    max = in;
if (out > max)
    max = out;

```

```

buffer_init(&iqueue);
buffer_init(&oqueue);

```

```

set_size = howmany(max + 1, NFDBITS) * sizeof(fd_mask);
rset = xmalloc(set_size);
wset = xmalloc(set_size);

for (;;) {
    memset(rset, 0, set_size);
    memset(wset, 0, set_size);

    /*
     * Ensure that we can read a full buffer and handle
     * the worst-case length packet it can generate,
     * otherwise apply backpressure by stopping reads.
     */
    if (buffer_check_alloc(&iqueue, sizeof(buf)) &&
        buffer_check_alloc(&oqueue, MAX_MSG_LENGTH))
        FD_SET(in, rset);

    olen = buffer_len(&oqueue);
    if (olen > 0)
        FD_SET(out, wset);

    if (select(max+1, rset, wset, NULL, NULL) < 0) {
        if (errno == EINTR)
            continue;
        error("select: %s", strerror(errno));
        cleanup_exit(2);
    }

    /* copy stdin to iqueue */
    if (FD_ISSET(in, rset)) {
        len = read(in, buf, sizeof buf);
        if (len == 0) {
            debug("read eof");
            cleanup_exit(0);
        } else if (len < 0) {
            error("read: %s", strerror(errno));
            cleanup_exit(1);
        } else {
            buffer_append(&iqueue, buf, len);
        }
    }

    /* send oqueue to stdout */
    if (FD_ISSET(out, wset)) {
        len = write(out, buffer_ptr(&oqueue), olen);
        if (len < 0) {
            error("write: %s", strerror(errno));
            cleanup_exit(1);
        }
    }
}

```

```

    } else {
        buffer_consume(&oqueue, len);
    }
}

/*
 * Process requests from client if we can fit the results
 * into the output buffer, otherwise stop processing input
 * and let the output queue drain.
 */
if (buffer_check_alloc(&oqueue, MAX_MSG_LENGTH))
    process();
}
}
#else /* ENABLE_PKCS11 */
int
main(int argc, char **argv)
{
    extern char *__progname;

    __progname = ssh_get_progname(argv[0]);
    log_init(__progname, SYSLOG_LEVEL_ERROR, SYSLOG_FACILITY_AUTH, 0);
    fatal("PKCS#11 support disabled at compile time");
}
#endif /* ENABLE_PKCS11 */
/* $OpenBSD: ssh-pkcs11.c,v 1.22 2016/02/12 00:20:30 djm Exp $ */
/*
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 */

#include "includes.h"

#ifdef ENABLE_PKCS11

#include <sys/types.h>
#ifdef HAVE_SYS_TIME_H

```

```

#include <sys/time.h>
#endif
#include <stdarg.h>
#include <stdio.h>

#include <string.h>
#include <dlfcn.h>

#include "openbsd-compat/sys-queue.h"

#include <openssl/x509.h>

#define CRYPTOKI_COMPAT
#include "pkcs11.h"

#include "log.h"
#include "misc.h"
#include "sshkey.h"
#include "ssh-pkcs11.h"
#include "xmalloc.h"

struct pkcs11_slotinfo {
    CK_TOKEN_INFO token;
    CK_SESSION_HANDLE session;
    int logged_in;
};

struct pkcs11_provider {
    char *name;
    void *handle;
    CK_FUNCTION_LIST *function_list;
    CK_INFO info;
    CK_ULONG nslots;
    CK_SLOT_ID *slotlist;
    struct pkcs11_slotinfo *slotinfo;
    int valid;
    int refcount;
    TAILQ_ENTRY(pkcs11_provider) next;
};

TAILQ_HEAD(, pkcs11_provider) pkcs11_providers;

struct pkcs11_key {
    struct pkcs11_provider *provider;
    CK_ULONG slotidx;
    int (*orig_finish)(RSA *rsa);
    RSA_METHOD rsa_method;
    char *keyid;
};

```

```

int keyid_len;
};

int pkcs11_interactive = 0;

int
pkcs11_init(int interactive)
{
    pkcs11_interactive = interactive;
    TAILQ_INIT(&pkcs11_providers);
    return (0);
}

/*
 * finalize a provider shared library, it's no longer usable.
 * however, there might still be keys referencing this provider,
 * so the actual freeing of memory is handled by pkcs11_provider_unref().
 * this is called when a provider gets unregistered.
 */
static void
pkcs11_provider_finalize(struct pkcs11_provider *p)
{
    CK_RV rv;
    CK_ULONG i;

    debug("pkcs11_provider_finalize: %p refcount %d valid %d",
        p, p->refcount, p->valid);
    if (!p->valid)
        return;
    for (i = 0; i < p->nslots; i++) {
        if (p->slotinfo[i].session &&
            (rv = p->function_list->C_CloseSession(
                p->slotinfo[i].session)) != CKR_OK)
            error("C_CloseSession failed: %lu", rv);
    }
    if ((rv = p->function_list->C_Finalize(NULL)) != CKR_OK)
        error("C_Finalize failed: %lu", rv);
    p->valid = 0;
    p->function_list = NULL;
    dlclose(p->handle);
}

/*
 * remove a reference to the provider.
 * called when a key gets destroyed or when the provider is unregistered.
 */
static void
pkcs11_provider_unref(struct pkcs11_provider *p)

```

```

{
debug("pkcs11_provider_unref: %p refcount %d", p, p->refcount);
if (--p->refcount <= 0) {
if (p->valid)
error("pkcs11_provider_unref: %p still valid", p);
free(p->slotlist);
free(p->slotinfo);
free(p);
}
}

/* unregister all providers, keys might still point to the providers */
void
pkcs11_terminate(void)
{
struct pkcs11_provider *p;

while ((p = TAILQ_FIRST(&pkcs11_providers)) != NULL) {
TAILQ_REMOVE(&pkcs11_providers, p, next);
pkcs11_provider_finalize(p);
pkcs11_provider_unref(p);
}
}

/* lookup provider by name */
static struct pkcs11_provider *
pkcs11_provider_lookup(char *provider_id)
{
struct pkcs11_provider *p;

TAILQ_FOREACH(p, &pkcs11_providers, next) {
debug("check %p %s", p, p->name);
if (!strcmp(provider_id, p->name))
return (p);
}
return (NULL);
}

/* unregister provider by name */
int
pkcs11_del_provider(char *provider_id)
{
struct pkcs11_provider *p;

if ((p = pkcs11_provider_lookup(provider_id)) != NULL) {
TAILQ_REMOVE(&pkcs11_providers, p, next);
pkcs11_provider_finalize(p);
pkcs11_provider_unref(p);
}
}

```



```

    return (0);
}
return (-1);
}

/* openssl callback for freeing an RSA key */
static int
pkcs11_rsa_finish(RSA *rsa)
{
    struct pkcs11_key *k11;
    int rv = -1;

    if ((k11 = RSA_get_app_data(rsa)) != NULL) {
        if (k11->orig_finish)
            rv = k11->orig_finish(rsa);
        if (k11->provider)
            pkcs11_provider_unref(k11->provider);
        free(k11->keyid);
        free(k11);
    }
    return (rv);
}

/* find a single 'obj' for given attributes */
static int
pkcs11_find(struct pkcs11_provider *p, CK_ULONG slotidx, CK_ATTRIBUTE *attr,
            CK_ULONG nattr, CK_OBJECT_HANDLE *obj)
{
    CK_FUNCTION_LIST *f;
    CK_SESSION_HANDLE session;
    CK_ULONG nfound = 0;
    CK_RV rv;
    int ret = -1;

    f = p->function_list;
    session = p->slotinfo[slotidx].session;
    if ((rv = f->C_FindObjectsInit(session, attr, nattr)) != CKR_OK) {
        error("C_FindObjectsInit failed (nattr %lu): %lu", nattr, rv);
        return (-1);
    }
    if ((rv = f->C_FindObjects(session, obj, 1, &nfound)) != CKR_OK ||
        nfound != 1) {
        debug("C_FindObjects failed (nfound %lu nattr %lu): %lu",
            nfound, nattr, rv);
    } else
        ret = 0;
    if ((rv = f->C_FindObjectsFinal(session)) != CKR_OK)
        error("C_FindObjectsFinal failed: %lu", rv);
}

```

```

return (ret);
}

/* openssl callback doing the actual signing operation */
static int
pkcs11_rsa_private_encrypt(int flen, const u_char *from, u_char *to, RSA *rsa,
    int padding)
{
    struct pkcs11_key *k11;
    struct pkcs11_slotinfo *si;
    CK_FUNCTION_LIST *f;
    CK_OBJECT_HANDLE obj;
    CK_ULONG tlen = 0;
    CK_RV rv;
    CK_OBJECT_CLASS private_key_class = CKO_PRIVATE_KEY;
    CK_BBOOL true_val = CK_TRUE;
    CK_MECHANISM mech = {
        CKM_RSA_PKCS, NULL_PTR, 0
    };
    CK_ATTRIBUTE key_filter[] = {
        {CKA_CLASS, NULL, sizeof(private_key_class) },
        {CKA_ID, NULL, 0},
        {CKA_SIGN, NULL, sizeof(true_val) }
    };
    char *pin = NULL, prompt[1024];
    int rval = -1;

    key_filter[0].pValue = &private_key_class;
    key_filter[2].pValue = &true_val;

    if ((k11 = RSA_get_app_data(rsa)) == NULL) {
        error("RSA_get_app_data failed for rsa %p", rsa);
        return (-1);
    }
    if (!k11->provider || !k11->provider->valid) {
        error("no pkcs11 (valid) provider for rsa %p", rsa);
        return (-1);
    }
    f = k11->provider->function_list;
    si = &k11->provider->slotinfo[k11->slotidx];
    if ((si->token.flags & CKF_LOGIN_REQUIRED) && !si->logged_in) {
        if (!pkcs11_interactive) {
            error("need pin entry%s", (si->token.flags &
                CKF_PROTECTED_AUTHENTICATION_PATH) ?
                " on reader keypad" : "");
            return (-1);
        }
        if (si->token.flags & CKF_PROTECTED_AUTHENTICATION_PATH)

```

```

    verbose("Deferring PIN entry to reader keypad.");
else {
    snprintf(prompt, sizeof(prompt),
        "Enter PIN for '%s': ", si->token.label);
    pin = read_passphrase(prompt, RP_ALLOW_EOF);
    if (pin == NULL)
        return (-1); /* bail out */
}
rv = f->C_Login(si->session, CKU_USER, (u_char *)pin,
    (pin != NULL) ? strlen(pin) : 0);
if (pin != NULL) {
    explicit_bzero(pin, strlen(pin));
    free(pin);
}
if (rv != CKR_OK && rv != CKR_USER_ALREADY_LOGGED_IN) {
    error("C_Login failed: %lu", rv);
    return (-1);
}
si->logged_in = 1;
}
key_filter[1].pValue = k11->keyid;
key_filter[1].ulValueLen = k11->keyid_len;
/* try to find object w/CKA_SIGN first, retry w/o */
if (pkcs11_find(k11->provider, k11->slotidx, key_filter, 3, &obj) < 0 &&
    pkcs11_find(k11->provider, k11->slotidx, key_filter, 2, &obj) < 0) {
    error("cannot find private key");
} else if ((rv = f->C_SignInit(si->session, &mech, obj)) != CKR_OK) {
    error("C_SignInit failed: %lu", rv);
} else {
    /* XXX handle CKR_BUFFER_TOO_SMALL */
    tlen = RSA_size(rsa);
    rv = f->C_Sign(si->session, (CK_BYTE *)from, flen, to, &tlen);
    if (rv == CKR_OK)
        rval = tlen;
    else
        error("C_Sign failed: %lu", rv);
}
return (rval);
}

static int
pkcs11_rsa_private_decrypt(int flen, const u_char *from, u_char *to, RSA *rsa,
    int padding)
{
    return (-1);
}

/* redirect private key operations for rsa key to pkcs11 token */

```

```

static int
pkcs11_rsa_wrap(struct pkcs11_provider *provider, CK_ULONG slotidx,
    CK_ATTRIBUTE *keyid_attrib, RSA *rsa)
{
    struct pkcs11_key *k11;
    const RSA_METHOD *def = RSA_get_default_method();

    k11 = xcalloc(1, sizeof(*k11));
    k11->provider = provider;
    provider->refcount++; /* provider referenced by RSA key */
    k11->slotidx = slotidx;
    /* identify key object on smartcard */
    k11->keyid_len = keyid_attrib->ulValueLen;
    if (k11->keyid_len > 0) {
        k11->keyid = xmalloc(k11->keyid_len);
        memcpy(k11->keyid, keyid_attrib->pValue, k11->keyid_len);
    }
    k11->orig_finish = def->finish;
    memcpy(&k11->rsa_method, def, sizeof(k11->rsa_method));
    k11->rsa_method.name = "pkcs11";
    k11->rsa_method.rsa_priv_enc = pkcs11_rsa_private_encrypt;
    k11->rsa_method.rsa_priv_dec = pkcs11_rsa_private_decrypt;
    k11->rsa_method.finish = pkcs11_rsa_finish;
    RSA_set_method(rsa, &k11->rsa_method);
    RSA_set_app_data(rsa, k11);
    return (0);
}

/* remove trailing spaces */
static void
rmspace(u_char *buf, size_t len)
{
    size_t i;

    if (!len)
        return;
    for (i = len - 1; i > 0; i--)
        if (i == len - 1 || buf[i] == ' ')
            buf[i] = '\0';
        else
            break;
}

/*
 * open a pkcs11 session and login if required.
 * if pin == NULL we delay login until key use
 */
static int

```

```

pkcs11_open_session(struct pkcs11_provider *p, CK_ULONG slotidx, char *pin)
{
    CK_RV rv;
    CK_FUNCTION_LIST *f;
    CK_SESSION_HANDLE session;
    int login_required;

    f = p->function_list;
    login_required = p->slotinfo[slotidx].token.flags & CKF_LOGIN_REQUIRED;
    if (pin && login_required && !strlen(pin)) {
        error("pin required");
        return (-1);
    }
    if ((rv = f->C_OpenSession(p->slotlist[slotidx], CKF_RW_SESSION|
        CKF_SERIAL_SESSION, NULL, NULL, &session))
        != CKR_OK) {
        error("C_OpenSession failed: %lu", rv);
        return (-1);
    }
    if (login_required && pin) {
        rv = f->C_Login(session, CKU_USER,
            (u_char *)pin, strlen(pin));
        if (rv != CKR_OK && rv != CKR_USER_ALREADY_LOGGED_IN) {
            error("C_Login failed: %lu", rv);
            if ((rv = f->C_CloseSession(session)) != CKR_OK)
                error("C_CloseSession failed: %lu", rv);
            return (-1);
        }
        p->slotinfo[slotidx].logged_in = 1;
    }
    p->slotinfo[slotidx].session = session;
    return (0);
}

/*
 * lookup public keys for token in slot identified by slotidx,
 * add 'wrapped' public keys to the 'keysp' array and increment nkeys.
 * keysp points to an (possibly empty) array with *nkeys keys.
 */
static int pkcs11_fetch_keys_filter(struct pkcs11_provider *, CK_ULONG,
    CK_ATTRIBUTE [], CK_ATTRIBUTE [3], struct sshkey ***, int *)
    __attribute__((__bounded__(__minbytes__,4, 3 * sizeof(CK_ATTRIBUTE))));

static int
pkcs11_fetch_keys(struct pkcs11_provider *p, CK_ULONG slotidx,
    struct sshkey ***keysp, int *nkeys)
{
    CK_OBJECT_CLASS pubkey_class = CKO_PUBLIC_KEY;

```

```

CK_OBJECT_CLASS cert_class = CKO_CERTIFICATE;
CK_ATTRIBUTE pubkey_filter[] = {
    { CKA_CLASS, NULL, sizeof(pubkey_class) }
};
CK_ATTRIBUTE cert_filter[] = {
    { CKA_CLASS, NULL, sizeof(cert_class) }
};
CK_ATTRIBUTE pubkey_attribs[] = {
    { CKA_ID, NULL, 0 },
    { CKA_MODULUS, NULL, 0 },
    { CKA_PUBLIC_EXPONENT, NULL, 0 }
};
CK_ATTRIBUTE cert_attribs[] = {
    { CKA_ID, NULL, 0 },
    { CKA_SUBJECT, NULL, 0 },
    { CKA_VALUE, NULL, 0 }
};
pubkey_filter[0].pValue = &pubkey_class;
cert_filter[0].pValue = &cert_class;

if (pkcs11_fetch_keys_filter(p, slotidx, pubkey_filter, pubkey_attribs,
    keysp, nkeys) < 0 ||
    pkcs11_fetch_keys_filter(p, slotidx, cert_filter, cert_attribs,
    keysp, nkeys) < 0)
    return (-1);
return (0);
}

static int
pkcs11_key_included(struct sshkey ***keysp, int *nkeys, struct sshkey *key)
{
    int i;

    for (i = 0; i < *nkeys; i++)
        if (sshkey_equal(key, (*keysp)[i]))
            return (1);
    return (0);
}

static int
pkcs11_fetch_keys_filter(struct pkcs11_provider *p, CK_ULONG slotidx,
    CK_ATTRIBUTE filter[], CK_ATTRIBUTE attribs[3],
    struct sshkey ***keysp, int *nkeys)
{
    struct sshkey *key;
    RSA *rsa;
    X509 *x509;
    EVP_PKEY *evp;

```

```

int i;
const u_char *cp;
CK_RV rv;
CK_OBJECT_HANDLE obj;
CK_ULONG nfound;
CK_SESSION_HANDLE session;
CK_FUNCTION_LIST *f;

f = p->function_list;
session = p->slotinfo[slotidx].session;
/* setup a filter the looks for public keys */
if ((rv = f->C_FindObjectsInit(session, filter, 1)) != CKR_OK) {
    error("C_FindObjectsInit failed: %lu", rv);
    return (-1);
}
while (1) {
    /* XXX 3 attributes in attribs[] */
    for (i = 0; i < 3; i++) {
        attribs[i].pValue = NULL;
        attribs[i].ulValueLen = 0;
    }
    if ((rv = f->C_FindObjects(session, &obj, 1, &nfound)) != CKR_OK
        || nfound == 0)
        break;
    /* found a key, so figure out size of the attributes */
    if ((rv = f->C_GetAttributeValue(session, obj, attribs, 3))
        != CKR_OK) {
        error("C_GetAttributeValue failed: %lu", rv);
        continue;
    }
    /*
     * Allow CKA_ID (always first attribute) to be empty, but
     * ensure that none of the others are zero length.
     * XXX assumes CKA_ID is always first.
     */
    if (attribs[1].ulValueLen == 0 ||
        attribs[2].ulValueLen == 0) {
        continue;
    }
    /* allocate buffers for attributes */
    for (i = 0; i < 3; i++) {
        if (attribs[i].ulValueLen > 0) {
            attribs[i].pValue = xmalloc(
                attribs[i].ulValueLen);
        }
    }
}
/*

```

```

* retrieve ID, modulus and public exponent of RSA key,
* or ID, subject and value for certificates.
*/
rsa = NULL;
if ((rv = f->C_GetAttributeValue(session, obj, attrs, 3))
    != CKR_OK) {
    error("C_GetAttributeValue failed: %lu", rv);
} else if (attrs[1].type == CKA_MODULUS) {
    if ((rsa = RSA_new()) == NULL) {
        error("RSA_new failed");
    } else {
        rsa->n = BN_bin2bn(attrs[1].pValue,
            attrs[1].ulValueLen, NULL);
        rsa->e = BN_bin2bn(attrs[2].pValue,
            attrs[2].ulValueLen, NULL);
    }
} else {
    cp = attrs[2].pValue;
    if ((x509 = X509_new()) == NULL) {
        error("X509_new failed");
    } else if (d2i_X509(&x509, &cp, attrs[2].ulValueLen)
        == NULL) {
        error("d2i_X509 failed");
    } else if ((evp = X509_get_pubkey(x509)) == NULL ||
        evp->type != EVP_PKEY_RSA ||
        evp->pkey.rsa == NULL) {
        debug("X509_get_pubkey failed or no rsa");
    } else if ((rsa = RSAPublicKey_dup(evp->pkey.rsa))
        == NULL) {
        error("RSAPublicKey_dup");
    }
}
if (x509)
    X509_free(x509);
}
if (rsa && rsa->n && rsa->e &&
    pkcs11_rsa_wrap(p, slotidx, &attrs[0], rsa) == 0) {
    key = sshkey_new(KEY_UNSPEC);
    key->rsa = rsa;
    key->type = KEY_RSA;
    key->flags |= SSHKEY_FLAG_EXT;
    if (pkcs11_key_included(keysp, nkeys, key)) {
        sshkey_free(key);
    } else {
        /* expand key array and add key */
        *keysp = xreallocarray(*keysp, *nkeys + 1,
            sizeof(struct sshkey *));
        (*keysp)[*nkeys] = key;
        *nkeys = *nkeys + 1;
    }
}

```



```

    debug("have %d keys", *nkeys);
}
} else if (rsa) {
    RSA_free(rsa);
}
for (i = 0; i < 3; i++)
    free(attrs[i].pValue);
}
if ((rv = f->C_FindObjectsFinal(session)) != CKR_OK)
    error("C_FindObjectsFinal failed: %lu", rv);
return (0);
}

/* register a new provider, fails if provider already exists */
int
pkcs11_add_provider(char *provider_id, char *pin, struct sshkey ***keyp)
{
    int nkeys, need_finalize = 0;
    struct pkcs11_provider *p = NULL;
    void *handle = NULL;
    CK_RV (*getfunctionlist)(CK_FUNCTION_LIST **);
    CK_RV rv;
    CK_FUNCTION_LIST *f = NULL;
    CK_TOKEN_INFO *token;
    CK_ULONG i;

    *keyp = NULL;
    if (pkcs11_provider_lookup(provider_id) != NULL) {
        error("provider already registered: %s", provider_id);
        goto fail;
    }
    /* open shared pkcs11-library */
    if ((handle = dlopen(provider_id, RTLD_NOW)) == NULL) {
        error("dlopen %s failed: %s", provider_id, dlerror());
        goto fail;
    }
    if ((getfunctionlist = dlsym(handle, "C_GetFunctionList")) == NULL) {
        error("dlsym(C_GetFunctionList) failed: %s", dlerror());
        goto fail;
    }
    p = xcalloc(1, sizeof(*p));
    p->name = xstrdup(provider_id);
    p->handle = handle;
    /* setup the pkcs11 callbacks */
    if ((rv = (*getfunctionlist>(&f)) != CKR_OK) {
        error("C_GetFunctionList failed: %lu", rv);
        goto fail;
    }
}

```

```

p->function_list = f;
if ((rv = f->C_Initialize(NULL)) != CKR_OK) {
    error("C_Initialize failed: %lu", rv);
    goto fail;
}
need_finalize = 1;
if ((rv = f->C_GetInfo(&p->info)) != CKR_OK) {
    error("C_GetInfo failed: %lu", rv);
    goto fail;
}
memset(p->info.manufacturerID, sizeof(p->info.manufacturerID));
memset(p->info.libraryDescription, sizeof(p->info.libraryDescription));
debug("manufacturerID <%s> cryptokiVersion %d.%d"
      " libraryDescription <%s> libraryVersion %d.%d",
      p->info.manufacturerID,
      p->info.cryptokiVersion.major,
      p->info.cryptokiVersion.minor,
      p->info.libraryDescription,
      p->info.libraryVersion.major,
      p->info.libraryVersion.minor);
if ((rv = f->C_GetSlotList(CK_TRUE, NULL, &p->nslots)) != CKR_OK) {
    error("C_GetSlotList failed: %lu", rv);
    goto fail;
}
if (p->nslots == 0) {
    error("no slots");
    goto fail;
}
p->slotlist = calloc(p->nslots, sizeof(CK_SLOT_ID));
if ((rv = f->C_GetSlotList(CK_TRUE, p->slotlist, &p->nslots))
    != CKR_OK) {
    error("C_GetSlotList failed: %lu", rv);
    goto fail;
}
p->slotinfo = calloc(p->nslots, sizeof(struct pkcs11_slotinfo));
p->valid = 1;
nkeys = 0;
for (i = 0; i < p->nslots; i++) {
    token = &p->slotinfo[i].token;
    if ((rv = f->C_GetTokenInfo(p->slotlist[i], token))
        != CKR_OK) {
        error("C_GetTokenInfo failed: %lu", rv);
        continue;
    }
    if ((token->flags & CKF_TOKEN_INITIALIZED) == 0) {
        debug2("%s: ignoring uninitialised token in slot %lu",
              __func__, (unsigned long)i);
        continue;
    }
}

```

```

}
rmspace(token->label, sizeof(token->label));
rmspace(token->manufacturerID, sizeof(token->manufacturerID));
rmspace(token->model, sizeof(token->model));
rmspace(token->serialNumber, sizeof(token->serialNumber));
debug("label <%s> manufacturerID <%s> model <%s> serial <%s>"
      " flags 0x%lx",
      token->label, token->manufacturerID, token->model,
      token->serialNumber, token->flags);
/* open session, login with pin and retrieve public keys */
if (pkcs11_open_session(p, i, pin) == 0)
    pkcs11_fetch_keys(p, i, keyp, &nkeys);
}
if (nkeys > 0) {
    TAILQ_INSERT_TAIL(&pkcs11_providers, p, next);
    p->refcount++; /* add to provider list */
    return (nkeys);
}
error("no keys");
/* don't add the provider, since it does not have any keys */
fail:
if (need_finalize && (rv = f->C_Finalize(NULL)) != CKR_OK)
    error("C_Finalize failed: %lu", rv);
if (p) {
    free(p->slotlist);
    free(p->slotinfo);
    free(p);
}
if (handle)
    dlclose(handle);
return (-1);
}

#else

int
pkcs11_init(int interactive)
{
    return (0);
}

void
pkcs11_terminate(void)
{
    return;
}

#endif /* ENABLE_PKCS11 */

```

```

/* $OpenBSD: ssh-pkcs11.h,v 1.4 2015/01/15 09:40:00 djm Exp $ */
/*
 * Copyright (c) 2010 Markus Friedl. All rights reserved.
 *
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 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
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 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
 * OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */
int pkcs11_init(int);
void pkcs11_terminate(void);
int pkcs11_add_provider(char *, char *, struct sshkey ***);
int pkcs11_del_provider(char *);

#if !defined(WITH_OPENSSL) && defined(ENABLE_PKCS11)
#undef ENABLE_PKCS11
#endif
/* $OpenBSD: ssh-rsa.c,v 1.58 2015/12/11 04:21:12 mmcc Exp $ */
/*
 * Copyright (c) 2000, 2003 Markus Friedl <markus@openbsd.org>
 *
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 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
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 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
 * OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

#include "includes.h"

#ifdef WITH_OPENSSL

#include <sys/types.h>

#include <openssl/evp.h>

```

```

#include <openssl/err.h>

#include <stdarg.h>
#include <string.h>

#include "sshbuf.h"
#include "compat.h"
#include "ssherr.h"
#define SSHKEY_INTERNAL
#include "sshkey.h"
#include "digest.h"

static int openssh_RSA_verify(int, u_char *, size_t, u_char *, size_t, RSA *);

static const char *
rsa_hash_alg_ident(int hash_alg)
{
    switch (hash_alg) {
    case SSH_DIGEST_SHA1:
        return "ssh-rsa";
    case SSH_DIGEST_SHA256:
        return "rsa-sha2-256";
    case SSH_DIGEST_SHA512:
        return "rsa-sha2-512";
    }
    return NULL;
}

static int
rsa_hash_alg_from_ident(const char *ident)
{
    if (strcmp(ident, "ssh-rsa") == 0)
        return SSH_DIGEST_SHA1;
    if (strcmp(ident, "rsa-sha2-256") == 0)
        return SSH_DIGEST_SHA256;
    if (strcmp(ident, "rsa-sha2-512") == 0)
        return SSH_DIGEST_SHA512;
    return -1;
}

static int
rsa_hash_alg_nid(int type)
{
    switch (type) {
    case SSH_DIGEST_SHA1:
        return NID_sha1;
    case SSH_DIGEST_SHA256:
        return NID_sha256;
    }
}

```

```

case SSH_DIGEST_SHA512:
    return NID_sha512;
default:
    return -1;
}
}

/* RSASSA-PKCS1-v1_5 (PKCS #1 v2.0 signature) with SHA1 */
int
ssh_rsa_sign(const struct sshkey *key, u_char **sigp, size_t *lenp,
    const u_char *data, size_t datalen, const char *alg_ident)
{
    u_char digest[SSH_DIGEST_MAX_LENGTH], *sig = NULL;
    size_t slen;
    u_int dlen, len;
    int nid, hash_alg, ret = SSH_ERR_INTERNAL_ERROR;
    struct sshbuf *b = NULL;

    if (lenp != NULL)
        *lenp = 0;
    if (sigp != NULL)
        *sigp = NULL;

    if (alg_ident == NULL || strlen(alg_ident) == 0 ||
        strcmp(alg_ident, "ssh-rsa-cert", strlen("ssh-rsa-cert")) == 0)
        hash_alg = SSH_DIGEST_SHA1;
    else
        hash_alg = rsa_hash_alg_from_ident(alg_ident);
    if (key == NULL || key->rsa == NULL || hash_alg == -1 ||
        sshkey_type_plain(key->type) != KEY_RSA ||
        BN_num_bits(key->rsa->n) < SSH_RSA_MINIMUM_MODULUS_SIZE)
        return SSH_ERR_INVALID_ARGUMENT;
    slen = RSA_size(key->rsa);
    if (slen <= 0 || slen > SSHBUF_MAX_BIGNUM)
        return SSH_ERR_INVALID_ARGUMENT;

    /* hash the data */
    nid = rsa_hash_alg_nid(hash_alg);
    if ((dlen = ssh_digest_bytes(hash_alg)) == 0)
        return SSH_ERR_INTERNAL_ERROR;
    if ((ret = ssh_digest_memory(hash_alg, data, datalen,
        digest, sizeof(digest))) != 0)
        goto out;

    if ((sig = malloc(slen)) == NULL) {
        ret = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
}

```

```

if (RSA_sign(nid, digest, dlen, sig, &len, key->rsa) != 1) {
    ret = SSH_ERR_LIBCRYPTO_ERROR;
    goto out;
}
if (len < slen) {
    size_t diff = slen - len;
    memmove(sig + diff, sig, len);
    explicit_bzero(sig, diff);
} else if (len > slen) {
    ret = SSH_ERR_INTERNAL_ERROR;
    goto out;
}
/* encode signature */
if ((b = sshbuf_new()) == NULL) {
    ret = SSH_ERR_ALLOC_FAIL;
    goto out;
}
if ((ret = sshbuf_put_cstring(b, rsa_hash_alg_ident(hash_alg)) != 0 ||
    (ret = sshbuf_put_string(b, sig, slen)) != 0)
    goto out;
len = sshbuf_len(b);
if (sigp != NULL) {
    if ((*sigp = malloc(len)) == NULL) {
        ret = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    memcpy(*sigp, sshbuf_ptr(b), len);
}
if (lenp != NULL)
    *lenp = len;
ret = 0;
out:
explicit_bzero(digest, sizeof(digest));
if (sig != NULL) {
    explicit_bzero(sig, slen);
    free(sig);
}
sshbuf_free(b);
return ret;
}

int
ssh_rsa_verify(const struct sshkey *key,
    const u_char *sig, size_t siglen, const u_char *data, size_t datalen)
{
    char *ktype = NULL;
    int hash_alg, ret = SSH_ERR_INTERNAL_ERROR;

```

```

size_t len, diff, modlen, dlen;
struct sshbuf *b = NULL;
u_char digest[SSH_DIGEST_MAX_LENGTH], *osigblob, *sigblob = NULL;

if (key == NULL || key->rsa == NULL ||
    sshkey_type_plain(key->type) != KEY_RSA ||
    BN_num_bits(key->rsa->n) < SSH_RSA_MINIMUM_MODULUS_SIZE)
return SSH_ERR_INVALID_ARGUMENT;

if ((b = sshbuf_from(sig, siglen)) == NULL)
return SSH_ERR_ALLOC_FAIL;
if (sshbuf_get_cstring(b, &ktype, NULL) != 0) {
ret = SSH_ERR_INVALID_FORMAT;
goto out;
}
if ((hash_alg = rsa_hash_alg_from_ident(ktype)) == -1) {
ret = SSH_ERR_KEY_TYPE_MISMATCH;
goto out;
}
if (sshbuf_get_string(b, &sigblob, &len) != 0) {
ret = SSH_ERR_INVALID_FORMAT;
goto out;
}
if (sshbuf_len(b) != 0) {
ret = SSH_ERR_UNEXPECTED_TRAILING_DATA;
goto out;
}
/* RSA_verify expects a signature of RSA_size */
modlen = RSA_size(key->rsa);
if (len > modlen) {
ret = SSH_ERR_KEY_BITS_MISMATCH;
goto out;
} else if (len < modlen) {
diff = modlen - len;
osigblob = sigblob;
if ((sigblob = realloc(sigblob, modlen)) == NULL) {
sigblob = osigblob; /* put it back for clear/free */
ret = SSH_ERR_ALLOC_FAIL;
goto out;
}
memmove(sigblob + diff, sigblob, len);
explicit_bzero(sigblob, diff);
len = modlen;
}
if ((dlen = ssh_digest_bytes(hash_alg)) == 0) {
ret = SSH_ERR_INTERNAL_ERROR;
goto out;
}

```



```

if ((ret = ssh_digest_memory(hash_alg, data, datalen,
    digest, sizeof(digest))) != 0)
    goto out;

ret = openssl_RSA_verify(hash_alg, digest, dlen, sigblob, len,
    key->rsa);
out:
if (sigblob != NULL) {
    explicit_bzero(sigblob, len);
    free(sigblob);
}
free(ktype);
sshbuf_free(b);
explicit_bzero(digest, sizeof(digest));
return ret;
}

/*
 * See:
 * http://www.rsasecurity.com/rsalabs/pkcs/pkcs-1/
 * ftp://ftp.rsasecurity.com/pub/pkcs/pkcs-1/pkcs-1v2-1.asn
 */

/*
 * id-sha1 OBJECT IDENTIFIER ::= { iso(1) identified-organization(3)
 * oiw(14) secsig(3) algorithms(2) 26 }
 */
static const u_char id_sha1[] = {
    0x30, 0x21, /* type Sequence, length 0x21 (33) */
    0x30, 0x09, /* type Sequence, length 0x09 */
    0x06, 0x05, /* type OID, length 0x05 */
    0x2b, 0x0e, 0x03, 0x02, 0x1a, /* id-sha1 OID */
    0x05, 0x00, /* NULL */
    0x04, 0x14 /* Octet string, length 0x14 (20), followed by sha1 hash */
};

/*
 * See http://csrc.nist.gov/groups/ST/crypto_apps_infra/csor/algorithms.html
 * id-sha256 OBJECT IDENTIFIER ::= { joint-iso-itu-t(2) country(16) us(840)
 * organization(1) gov(101) csor(3) nistAlgorithm(4) hashAlgs(2)
 * id-sha256(1) }
 */
static const u_char id_sha256[] = {
    0x30, 0x31, /* type Sequence, length 0x31 (49) */
    0x30, 0x0d, /* type Sequence, length 0x0d (13) */
    0x06, 0x09, /* type OID, length 0x09 */
    0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x01, /* id-sha256 */
    0x05, 0x00, /* NULL */
};

```

```

0x04, 0x20 /* Octet string, length 0x20 (32), followed by sha256 hash */
};

/*
* See http://csrc.nist.gov/groups/ST/crypto\_apps\_infra/csor/algorithms.html
* id-sha512 OBJECT IDENTIFIER ::= { joint-iso-itu-t(2) country(16) us(840)
*   organization(1) gov(101) csor(3) nistAlgorithm(4) hashAlgs(2)
*   id-sha256(3) }
*/
static const u_char id_sha512[] = {
0x30, 0x51, /* type Sequence, length 0x51 (81) */
0x30, 0x0d, /* type Sequence, length 0x0d (13) */
0x06, 0x09, /* type OID, length 0x09 */
0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x03, /* id-sha512 */
0x05, 0x00, /* NULL */
0x04, 0x40 /* Octet string, length 0x40 (64), followed by sha512 hash */
};

static int
rsa_hash_alg_oid(int hash_alg, const u_char **oidp, size_t *oidlenp)
{
switch (hash_alg) {
case SSH_DIGEST_SHA1:
*oidp = id_sha1;
*oidlenp = sizeof(id_sha1);
break;
case SSH_DIGEST_SHA256:
*oidp = id_sha256;
*oidlenp = sizeof(id_sha256);
break;
case SSH_DIGEST_SHA512:
*oidp = id_sha512;
*oidlenp = sizeof(id_sha512);
break;
default:
return SSH_ERR_INVALID_ARGUMENT;
}
return 0;
}

static int
openssh_RSA_verify(int hash_alg, u_char *hash, size_t hashlen,
u_char *sigbuf, size_t siglen, RSA *rsa)
{
size_t rsize = 0, oidlen = 0, hlen = 0;
int ret, len, oidmatch, hashmatch;
const u_char *oid = NULL;
u_char *decrypted = NULL;

```

```

if ((ret = rsa_hash_alg_oid(hash_alg, &oid, &oidlen)) != 0)
    return ret;
ret = SSH_ERR_INTERNAL_ERROR;
hlen = ssh_digest_bytes(hash_alg);
if (hashlen != hlen) {
    ret = SSH_ERR_INVALID_ARGUMENT;
    goto done;
}
rsasize = RSA_size(rsa);
if (rsasize <= 0 || rsasize > SSHBUF_MAX_BIGNUM ||
    siglen == 0 || siglen > rsasize) {
    ret = SSH_ERR_INVALID_ARGUMENT;
    goto done;
}
if ((decrypted = malloc(rsasize)) == NULL) {
    ret = SSH_ERR_ALLOC_FAIL;
    goto done;
}
if ((len = RSA_public_decrypt(siglen, sigbuf, decrypted, rsa,
    RSA_PKCS1_PADDING)) < 0) {
    ret = SSH_ERR_LIBCRYPTO_ERROR;
    goto done;
}
if (len < 0 || (size_t)len != hlen + oidlen) {
    ret = SSH_ERR_INVALID_FORMAT;
    goto done;
}
oidmatch = timingsafe_bcmp(decrypted, oid, oidlen) == 0;
hashmatch = timingsafe_bcmp(decrypted + oidlen, hash, hlen) == 0;
if (!oidmatch || !hashmatch) {
    ret = SSH_ERR_SIGNATURE_INVALID;
    goto done;
}
ret = 0;
done:
if (decrypted) {
    explicit_bzero(decrypted, rsasize);
    free(decrypted);
}
return ret;
}
#endif /* WITH_OPENSSL */
/* $OpenBSD: ssh-sandbox.h,v 1.1 2011/06/23 09:34:13 djm Exp $ */
/*
* Copyright (c) 2011 Damien Miller <djm@mindrot.org>
*
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```

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 \*/

```
struct monitor;
struct ssh_sandbox;
```

```
struct ssh_sandbox *ssh_sandbox_init(struct monitor *);
void ssh_sandbox_child(struct ssh_sandbox *);
void ssh_sandbox_parent_finish(struct ssh_sandbox *);
void ssh_sandbox_parent_preauth(struct ssh_sandbox *, pid_t);
SSH(1)          General Commands Manual          SSH(1)
```

## NAME

ssh M-bM-^@M-^S OpenSSH SSH client (remote login program)

## SYNOPSIS

```
ssh [-1246AaCfGgKkMMNnqsTtVvXxYy] [-b bind_address] [-c cipher_spec]
    [-D [bind_address:]port] [-E log_file] [-e escape_char]
    [-F configfile] [-I pkcs11] [-i identity_file] [-L address]
    [-l login_name] [-m mac_spec] [-O ctl_cmd] [-o option] [-p port]
    [-Q query_option] [-R address] [-S ctl_path] [-W host:port]
    [-w local_tun[:remote_tun]] [user@]hostname [command]
```

## DESCRIPTION

ssh (SSH client) is a program for logging into a remote machine and for executing commands on a remote machine. It is intended to provide secure encrypted communications between two untrusted hosts over an insecure network. X11 connections, arbitrary TCP ports and UNIX-domain sockets can also be forwarded over the secure channel.

ssh connects and logs into the specified hostname (with optional user name). The user must prove his/her identity to the remote machine using one of several methods (see below).

If command is specified, it is executed on the remote host instead of a login shell.

The options are as follows:

- 1 Forces ssh to try protocol version 1 only.
- 2 Forces ssh to try protocol version 2 only.
- 4 Forces ssh to use IPv4 addresses only.
- 6 Forces ssh to use IPv6 addresses only.
- A Enables forwarding of the authentication agent connection. This can also be specified on a per-host basis in a configuration file.

Agent forwarding should be enabled with caution. Users with the ability to bypass file permissions on the remote host (for the agent's UNIX-domain socket) can access the local agent through the forwarded connection. An attacker cannot obtain key material from the agent, however they can perform operations on the keys that enable them to authenticate using the identities loaded into the agent.

- a Disables forwarding of the authentication agent connection.

**-b bind\_address**

Use bind\_address on the local machine as the source address of the connection. Only useful on systems with more than one address.

- C Requests compression of all data (including stdin, stdout, stderr, and data for forwarded X11, TCP and UNIX-domain connections). The compression algorithm is the same used by gzip(1), and the `M-bM-^@M-^\levelM-bM-^@M-^` can be controlled by the CompressionLevel option for protocol version 1. Compression is desirable on modem lines and other slow connections, but will only slow down things on fast networks. The default value can be set on a host-by-host basis in the configuration files; see the Compression option.

**-c cipher\_spec**

Selects the cipher specification for encrypting the session.

Protocol version 1 allows specification of a single cipher. The supported values are `M-bM-^@M-^\3desM-bM-^@M-^`, `M-bM-^@M-^\blowfishM-bM-^@M-^`, and `M-bM-^@M-^\desM-bM-^@M-^`. For protocol version 2, cipher\_spec is a comma-separated list of ciphers listed in order of preference. See the Ciphers keyword in ssh\_config(5) for more information.

**-D [bind\_address:]port**

Specifies a local `M-bM-^@M-^\dynamicM-bM-^@M-^]` application-level port forwarding. This works by allocating a socket to listen to port on the local side, optionally bound to the specified `bind_address`. Whenever a connection is made to this port, the connection is forwarded over the secure channel, and the application protocol is then used to determine where to connect to from the remote machine. Currently the SOCKS4 and SOCKS5 protocols are supported, and ssh will act as a SOCKS server. Only root can forward privileged ports. Dynamic port forwardings can also be specified in the configuration file.

IPv6 addresses can be specified by enclosing the address in square brackets. Only the superuser can forward privileged ports. By default, the local port is bound in accordance with the GatewayPorts setting. However, an explicit `bind_address` may be used to bind the connection to a specific address. The `bind_address` of `M-bM-^@M-^\localhostM-bM-^@M-^]` indicates that the listening port be bound for local use only, while an empty address or `M-bM-^@M-^X*M-bM-^@M-^Y` indicates that the port should be available from all interfaces.

`-E log_file`

Append debug logs to `log_file` instead of standard error.

`-e escape_char`

Sets the escape character for sessions with a pty (default: `M-bM-^@M-^X~M-bM-^@M-^Y`). The escape character is only recognized at the beginning of a line. The escape character followed by a dot (`M-bM-^@M-^X.M-bM-^@M-^Y`) closes the connection; followed by control-Z suspends the connection; and followed by itself sends the escape character once. Setting the character to `M-bM-^@M-^\noneM-bM-^@M-^]` disables any escapes and makes the session fully transparent.

`-F configfile`

Specifies an alternative per-user configuration file. If a configuration file is given on the command line, the system-wide configuration file (`/etc/ssh/ssh_config`) will be ignored. The default for the per-user configuration file is `~/.ssh/config`.

`-f` Requests ssh to go to background just before command execution.

This is useful if ssh is going to ask for passwords or passphrases, but the user wants it in the background. This implies `-n`. The recommended way to start X11 programs at a remote site is with something like `ssh -f host xterm`.

If the `ExitOnForwardFailure` configuration option is set to `M-bM-^@M-^\yesM-bM-^@M-^]`, then a client started with `-f` will wait for all remote port forwards to be successfully established before placing itself in the background.

- G Causes ssh to print its configuration after evaluating Host and Match blocks and exit.
- g Allows remote hosts to connect to local forwarded ports. If used on a multiplexed connection, then this option must be specified on the master process.
- I pkcs11  
Specify the PKCS#11 shared library ssh should use to communicate with a PKCS#11 token providing the user's private RSA key.
- i identity\_file  
Selects a file from which the identity (private key) for public key authentication is read. The default is ~/.ssh/identity for protocol version 1, and ~/.ssh/id\_dsa, ~/.ssh/id\_ecdsa, ~/.ssh/id\_ed25519 and ~/.ssh/id\_rsa for protocol version 2. Identity files may also be specified on a per-host basis in the configuration file. It is possible to have multiple -i options (and multiple identities specified in configuration files). If no certificates have been explicitly specified by the CertificateFile directive, ssh will also try to load certificate information from the filename obtained by appending -cert.pub to identity filenames.
- K Enables GSSAPI-based authentication and forwarding (delegation) of GSSAPI credentials to the server.
- k Disables forwarding (delegation) of GSSAPI credentials to the server.
- L [bind\_address:]port:host:hostport  
-L [bind\_address:]port:remote\_socket  
-L local\_socket:host:hostport  
-L local\_socket:remote\_socket  
Specifies that connections to the given TCP port or Unix socket on the local (client) host are to be forwarded to the given host and port, or Unix socket, on the remote side. This works by allocating a socket to listen to either a TCP port on the local side, optionally bound to the specified bind\_address, or to a Unix socket. Whenever a connection is made to the local port or socket, the connection is forwarded over the secure channel, and a connection is made to either host port hostport, or the Unix socket remote\_socket, from the remote machine.
- Port forwardings can also be specified in the configuration file. Only the superuser can forward privileged ports. IPv6 addresses can be specified by enclosing the address in square brackets.

By default, the local port is bound in accordance with the GatewayPorts setting. However, an explicit bind\_address may be used to bind the connection to a specific address. The bind\_address of M-bM-^@M-^\localhostM-bM-^@M-^] indicates that the listening port be bound for local use only, while an empty address or M-bM-^@M-^X\*M-bM-^@M-^Y indicates that the port should be available from all interfaces.

**-l login\_name**

Specifies the user to log in as on the remote machine. This also may be specified on a per-host basis in the configuration file.

**-M** Places the ssh client into M-bM-^@M-^\masterM-bM-^@M-^] mode for connection sharing.

Multiple -M options places ssh into M-bM-^@M-^\masterM-bM-^@M-^] mode with confirmation required before slave connections are accepted. Refer to the description of ControlMaster in ssh\_config(5) for details.

**-m mac\_spec**

A comma-separated list of MAC (message authentication code) algorithms, specified in order of preference. See the MACs keyword for more information.

**-N** Do not execute a remote command. This is useful for just forwarding ports.

**-n** Redirects stdin from /dev/null (actually, prevents reading from stdin). This must be used when ssh is run in the background. A common trick is to use this to run X11 programs on a remote machine. For example, ssh -n shadows.cs.hut.fi emacs & will start an emacs on shadows.cs.hut.fi, and the X11 connection will be automatically forwarded over an encrypted channel. The ssh program will be put in the background. (This does not work if ssh needs to ask for a password or passphrase; see also the -f option.)

**-O ctl\_cmd**

Control an active connection multiplexing master process. When the -O option is specified, the ctl\_cmd argument is interpreted and passed to the master process. Valid commands are: M-bM-^@M-^\checkM-bM-^@M-^] (check that the master process is running), M-bM-^@M-^\forwardM-bM-^@M-^] (request forwardings without command execution), M-bM-^@M-^\cancelM-bM-^@M-^] (cancel forwardings), M-bM-^@M-^\exitM-bM-^@M-^] (request the master to exit), and M-bM-^@M-^\stopM-bM-^@M-^] (request the master to stop accepting further multiplexing requests).

**-o option**



Can be used to give options in the format used in the configuration file. This is useful for specifying options for which there is no separate command-line flag. For full details of the options listed below, and their possible values, see `ssh_config(5)`.

- AddKeysToAgent
- AddressFamily
- BatchMode
- BindAddress
- CanonicalDomains
- CanonicalizeFallbackLocal
- CanonicalizeHostname
- CanonicalizeMaxDots
- CanonicalizePermittedCNAMEs
- CertificateFile
- ChallengeResponseAuthentication
- CheckHostIP
- Cipher
- Ciphers
- ClearAllForwardings
- Compression
- CompressionLevel
- ConnectionAttempts
- ConnectTimeout
- ControlMaster
- ControlPath
- ControlPersist
- DynamicForward
- EscapeChar
- ExitOnForwardFailure
- FingerprintHash
- ForwardAgent
- ForwardX11
- ForwardX11Timeout
- ForwardX11Trusted
- GatewayPorts
- GlobalKnownHostsFile
- GSSAPIAuthentication
- GSSAPIDelegateCredentials
- HashKnownHosts
- Host
- HostbasedAuthentication
- HostbasedKeyTypes
- HostKeyAlgorithms
- HostKeyAlias
- HostName
- IdentityFile

IdentitiesOnly  
IPQoS  
KbdInteractiveAuthentication  
KbdInteractiveDevices  
KexAlgorithms  
LocalCommand  
LocalForward  
LogLevel  
MACs  
Match  
NoHostAuthenticationForLocalhost  
NumberOfPasswordPrompts  
PasswordAuthentication  
PermitLocalCommand  
PKCS11Provider  
Port  
PreferredAuthentications  
Protocol  
ProxyCommand  
ProxyUseFdpass  
PubkeyAcceptedKeyTypes  
PubkeyAuthentication  
RekeyLimit  
RemoteForward  
RequestTTY  
RhostsRSAAuthentication  
RSAAuthentication  
SendEnv  
ServerAliveInterval  
ServerAliveCountMax  
StreamLocalBindMask  
StreamLocalBindUnlink  
StrictHostKeyChecking  
TCPKeepAlive  
Tunnel  
TunnelDevice  
UpdateHostKeys  
UsePrivilegedPort  
User  
UserKnownHostsFile  
VerifyHostKeyDNS  
VisualHostKey  
XAuthLocation

-p port

Port to connect to on the remote host. This can be specified on a per-host basis in the configuration file.

-Q query\_option

Queries ssh for the algorithms supported for the specified version 2. The available features are: cipher (supported symmetric ciphers), cipher-auth (supported symmetric ciphers that support authenticated encryption), mac (supported message integrity codes), kex (key exchange algorithms), key (key types), key-cert (certificate key types), key-plain (non-certificate key types), and protocol-version (supported SSH protocol versions).

-q Quiet mode. Causes most warning and diagnostic messages to be suppressed.

-R [bind\_address:]port:host:hostport

-R [bind\_address:]port:local\_socket

-R remote\_socket:host:hostport

-R remote\_socket:local\_socket

Specifies that connections to the given TCP port or Unix socket on the remote (server) host are to be forwarded to the given host and port, or Unix socket, on the local side. This works by allocating a socket to listen to either a TCP port or to a Unix socket on the remote side. Whenever a connection is made to this port or Unix socket, the connection is forwarded over the secure channel, and a connection is made to either host port hostport, or local\_socket, from the local machine.

Port forwardings can also be specified in the configuration file. Privileged ports can be forwarded only when logging in as root on the remote machine. IPv6 addresses can be specified by enclosing the address in square brackets.

By default, TCP listening sockets on the server will be bound to the loopback interface only. This may be overridden by specifying a bind\_address. An empty bind\_address, or the address M-bM-^@M-^X\*M-bM-^@M-^Y, indicates that the remote socket should listen on all interfaces. Specifying a remote bind\_address will only succeed if the server's GatewayPorts option is enabled (see sshd\_config(5)).

If the port argument is M-bM-^@M-^X0M-bM-^@M-^Y, the listen port will be dynamically allocated on the server and reported to the client at run time.

When used together with -O forward the allocated port will be printed to the standard output.

-S ctl\_path

Specifies the location of a control socket for connection sharing, or the string M-bM-^@M-^\\noneM-bM-^@M-^] to disable connection sharing. Refer to the description of ControlPath and ControlMaster in ssh\_config(5) for details.

- s May be used to request invocation of a subsystem on the remote system. Subsystems facilitate the use of SSH as a secure transport for other applications (e.g. sftp(1)). The subsystem is specified as the remote command.
  
- T Disable pseudo-terminal allocation.
  
- t Force pseudo-terminal allocation. This can be used to execute arbitrary screen-based programs on a remote machine, which can be very useful, e.g. when implementing menu services. Multiple -t options force tty allocation, even if ssh has no local tty.
  
- V Display the version number and exit.
  
- v Verbose mode. Causes ssh to print debugging messages about its progress. This is helpful in debugging connection, authentication, and configuration problems. Multiple -v options increase the verbosity. The maximum is 3.

**-W host:port**

Requests that standard input and output on the client be forwarded to host on port over the secure channel. Implies -N, -T, ExitOnForwardFailure and ClearAllForwardings.

**-w local\_tun[:remote\_tun]**

Requests tunnel device forwarding with the specified tun(4) devices between the client (local\_tun) and the server (remote\_tun).

The devices may be specified by numerical ID or the keyword `M-bM-^@M-^anyM-bM-^@M-^`, which uses the next available tunnel device. If remote\_tun is not specified, it defaults to `M-bM-^@M-^anyM-bM-^@M-^`. See also the Tunnel and TunnelDevice directives in ssh\_config(5). If the Tunnel directive is unset, it is set to the default tunnel mode, which is `M-bM-^@M-^point-to-pointM-bM-^@M-^`.

- X Enables X11 forwarding. This can also be specified on a per-host basis in a configuration file.

X11 forwarding should be enabled with caution. Users with the ability to bypass file permissions on the remote host (for the user's X authorization database) can access the local X11 display through the forwarded connection. An attacker may then be able to perform activities such as keystroke monitoring.

For this reason, X11 forwarding is subjected to X11 SECURITY extension restrictions by default. Please refer to the ssh -Y

option and the `ForwardX11Trusted` directive in `ssh_config(5)` for more information.

- x Disables X11 forwarding.
- Y Enables trusted X11 forwarding. Trusted X11 forwardings are not subjected to the X11 SECURITY extension controls.
- y Send log information using the `syslog(3)` system module. By default this information is sent to `stderr`.

ssh may additionally obtain configuration data from a per-user configuration file and a system-wide configuration file. The file format and configuration options are described in `ssh_config(5)`.

## AUTHENTICATION

The OpenSSH SSH client supports SSH protocols 1 and 2. The default is to use protocol 2 only, though this can be changed via the `Protocol` option in `ssh_config(5)` or the `-1` and `-2` options (see above). Protocol 1 should not be used and is only offered to support legacy devices. It suffers from a number of cryptographic weaknesses and doesn't support many of the advanced features available for protocol 2.

The methods available for authentication are: GSSAPI-based authentication, host-based authentication, public key authentication, challenge-response authentication, and password authentication. Authentication methods are tried in the order specified above, though `PreferredAuthentications` can be used to change the default order.

Host-based authentication works as follows: If the machine the user logs in from is listed in `/etc/hosts.equiv` or `/etc/shosts.equiv` on the remote machine, and the user names are the same on both sides, or if the files `~/.rhosts` or `~/.shosts` exist in the user's home directory on the remote machine and contain a line containing the name of the client machine and the name of the user on that machine, the user is considered for login. Additionally, the server must be able to verify the client's host key (see the description of `/etc/ssh/ssh_known_hosts` and `~/.ssh/known_hosts`, below) for login to be permitted. This authentication method closes security holes due to IP spoofing, DNS spoofing, and routing spoofing. [Note to the administrator: `/etc/hosts.equiv`, `~/.rhosts`, and the `rlogin/rsh` protocol in general, are inherently insecure and should be disabled if security is desired.]

Public key authentication works as follows: The scheme is based on public-key cryptography, using cryptosystems where encryption and decryption are done using separate keys, and it is unfeasible to derive the decryption key from the encryption key. The idea is that each user creates a public/private key pair for authentication purposes. The

server knows the public key, and only the user knows the private key. ssh implements public key authentication protocol automatically, using one of the DSA, ECDSA, Ed25519 or RSA algorithms. The HISTORY section of ssh(8) contains a brief discussion of the DSA and RSA algorithms.

The file `~/.ssh/authorized_keys` lists the public keys that are permitted for logging in. When the user logs in, the ssh program tells the server which key pair it would like to use for authentication. The client proves that it has access to the private key and the server checks that the corresponding public key is authorized to accept the account.

The user creates his/her key pair by running `ssh-keygen(1)`. This stores the private key in `~/.ssh/identity` (protocol 1), `~/.ssh/id_dsa` (DSA), `~/.ssh/id_ecdsa` (ECDSA), `~/.ssh/id_ed25519` (Ed25519), or `~/.ssh/id_rsa` (RSA) and stores the public key in `~/.ssh/identity.pub` (protocol 1), `~/.ssh/id_dsa.pub` (DSA), `~/.ssh/id_ecdsa.pub` (ECDSA), `~/.ssh/id_ed25519.pub` (Ed25519), or `~/.ssh/id_rsa.pub` (RSA) in the user's home directory. The user should then copy the public key to `~/.ssh/authorized_keys` in his/her home directory on the remote machine. The `authorized_keys` file corresponds to the conventional `~/.rhosts` file, and has one key per line, though the lines can be very long. After this, the user can log in without giving the password.

A variation on public key authentication is available in the form of certificate authentication: instead of a set of public/private keys, signed certificates are used. This has the advantage that a single trusted certification authority can be used in place of many public/private keys. See the CERTIFICATES section of `ssh-keygen(1)` for more information.

The most convenient way to use public key or certificate authentication may be with an authentication agent. See `ssh-agent(1)` and (optionally) the `AddKeysToAgent` directive in `ssh_config(5)` for more information.

Challenge-response authentication works as follows: The server sends an arbitrary "challenge" text, and prompts for a response. Examples of challenge-response authentication include BSD Authentication (see `login.conf(5)`) and PAM (some non-OpenBSD systems).

Finally, if other authentication methods fail, ssh prompts the user for a password. The password is sent to the remote host for checking; however, since all communications are encrypted, the password cannot be seen by someone listening on the network.

ssh automatically maintains and checks a database containing identification for all hosts it has ever been used with. Host keys are stored in `~/.ssh/known_hosts` in the user's home directory. Additionally, the file `/etc/ssh/ssh_known_hosts` is automatically checked for known

hosts. Any new hosts are automatically added to the user's file. If a host's identification ever changes, ssh warns about this and disables password authentication to prevent server spoofing or man-in-the-middle attacks, which could otherwise be used to circumvent the encryption. The `StrictHostKeyChecking` option can be used to control logins to machines whose host key is not known or has changed.

When the user's identity has been accepted by the server, the server either executes the given command in a non-interactive session or, if no command has been specified, logs into the machine and gives the user a normal shell as an interactive session. All communication with the remote command or shell will be automatically encrypted.

If an interactive session is requested ssh by default will only request a pseudo-terminal (pty) for interactive sessions when the client has one. The flags `-T` and `-t` can be used to override this behaviour.

If a pseudo-terminal has been allocated the user may use the escape characters noted below.

If no pseudo-terminal has been allocated, the session is transparent and can be used to reliably transfer binary data. On most systems, setting the escape character to `M-bM-^@M-^\noneM-bM-^@M-^]` will also make the session transparent even if a tty is used.

The session terminates when the command or shell on the remote machine exits and all X11 and TCP connections have been closed.

## ESCAPE CHARACTERS

When a pseudo-terminal has been requested, ssh supports a number of functions through the use of an escape character.

A single tilde character can be sent as `~~` or by following the tilde by a character other than those described below. The escape character must always follow a newline to be interpreted as special. The escape character can be changed in configuration files using the `EscapeChar` configuration directive or on the command line by the `-e` option.

The supported escapes (assuming the default `M-bM-^@M-^X~M-bM-^@M-^Y`) are:

`~.` Disconnect.

`~^Z` Background ssh.

`~#` List forwarded connections.

`~&` Background ssh at logout when waiting for forwarded connection / X11 sessions to terminate.

- ~? Display a list of escape characters.
  
- ~B Send a BREAK to the remote system (only useful if the peer supports it).
  
- ~C Open command line. Currently this allows the addition of port forwardings using the -L, -R and -D options (see above). It also allows the cancellation of existing port-forwardings with -KL[bind\_address:]port for local, -KR[bind\_address:]port for remote and -KD[bind\_address:]port for dynamic port-forwardings. !command allows the user to execute a local command if the PermitLocalCommand option is enabled in ssh\_config(5). Basic help is available, using the -h option.
  
- ~R Request rekeying of the connection (only useful if the peer supports it).
  
- ~V Decrease the verbosity (LogLevel) when errors are being written to stderr.
  
- ~v Increase the verbosity (LogLevel) when errors are being written to stderr.

#### TCP FORWARDING

Forwarding of arbitrary TCP connections over the secure channel can be specified either on the command line or in a configuration file. One possible application of TCP forwarding is a secure connection to a mail server; another is going through firewalls.

In the example below, we look at encrypting communication between an IRC client and server, even though the IRC server does not directly support encrypted communications. This works as follows: the user connects to the remote host using ssh, specifying a port to be used to forward connections to the remote server. After that it is possible to start the service which is to be encrypted on the client machine, connecting to the same local port, and ssh will encrypt and forward the connection.

The following example tunnels an IRC session from client machine M-bM-^@M-^[127.0.0.1M-bM-^@M-^] (localhost) to remote server M-bM-^@M-^\server.example.comM-bM-^@M-^]:

```
$ ssh -f -L 1234:localhost:6667 server.example.com sleep 10
$ irc -c '#users' -p 1234 pinky 127.0.0.1
```

This tunnels a connection to IRC server M-bM-^@M-^\server.example.comM-bM-^@M-^], joining channel M-bM-^@M-^\#usersM-bM-^@M-^], nickname M-bM-^@M-^\pinkyM-bM-^@M-^], using port 1234. It doesn't matter



which port is used, as long as it's greater than 1023 (remember, only root can open sockets on privileged ports) and doesn't conflict with any ports already in use. The connection is forwarded to port 6667 on the remote server, since that's the standard port for IRC services.

The `-f` option backgrounds `ssh` and the remote command `M-bM-^@M-^\sleep 10M-bM-^@M-^]` is specified to allow an amount of time (10 seconds, in the example) to start the service which is to be tunnelled. If no connections are made within the time specified, `ssh` will exit.

## X11 FORWARDING

If the `ForwardX11` variable is set to `M-bM-^@M-^\yesM-bM-^@M-^]` (or see the description of the `-X`, `-x`, and `-Y` options above) and the user is using X11 (the `DISPLAY` environment variable is set), the connection to the X11 display is automatically forwarded to the remote side in such a way that any X11 programs started from the shell (or command) will go through the encrypted channel, and the connection to the real X server will be made from the local machine. The user should not manually set `DISPLAY`. Forwarding of X11 connections can be configured on the command line or in configuration files.

The `DISPLAY` value set by `ssh` will point to the server machine, but with a display number greater than zero. This is normal, and happens because `ssh` creates a `M-bM-^@M-^\proxyM-bM-^@M-^]` X server on the server machine for forwarding the connections over the encrypted channel.

`ssh` will also automatically set up `Xauthority` data on the server machine. For this purpose, it will generate a random authorization cookie, store it in `Xauthority` on the server, and verify that any forwarded connections carry this cookie and replace it by the real cookie when the connection is opened. The real authentication cookie is never sent to the server machine (and no cookies are sent in the plain).

If the `ForwardAgent` variable is set to `M-bM-^@M-^\yesM-bM-^@M-^]` (or see the description of the `-A` and `-a` options above) and the user is using an authentication agent, the connection to the agent is automatically forwarded to the remote side.

## VERIFYING HOST KEYS

When connecting to a server for the first time, a fingerprint of the server's public key is presented to the user (unless the option `StrictHostKeyChecking` has been disabled). Fingerprints can be determined using `ssh-keygen(1)`:

```
$ ssh-keygen -l -f /etc/ssh/ssh_host_rsa_key
```

If the fingerprint is already known, it can be matched and the key can be accepted or rejected. If only legacy (MD5) fingerprints for the server

are available, the `ssh-keygen(1) -E` option may be used to downgrade the fingerprint algorithm to match.

Because of the difficulty of comparing host keys just by looking at fingerprint strings, there is also support to compare host keys visually, using random art. By setting the `VisualHostKey` option to `M-bM-^@M-^\yesM-bM-^@M-^]`, a small ASCII graphic gets displayed on every login to a server, no matter if the session itself is interactive or not. By learning the pattern a known server produces, a user can easily find out that the host key has changed when a completely different pattern is displayed. Because these patterns are not unambiguous however, a pattern that looks similar to the pattern remembered only gives a good probability that the host key is the same, not guaranteed proof.

To get a listing of the fingerprints along with their random art for all known hosts, the following command line can be used:

```
$ ssh-keygen -lv -f ~/.ssh/known_hosts
```

If the fingerprint is unknown, an alternative method of verification is available: SSH fingerprints verified by DNS. An additional resource record (RR), SSHFP, is added to a zonefile and the connecting client is able to match the fingerprint with that of the key presented.

In this example, we are connecting a client to a server, `M-bM-^@M-^\host.example.comM-bM-^@M-^]`. The SSHFP resource records should first be added to the zonefile for `host.example.com`:

```
$ ssh-keygen -r host.example.com.
```

The output lines will have to be added to the zonefile. To check that the zone is answering fingerprint queries:

```
$ dig -t SSHFP host.example.com
```

Finally the client connects:

```
$ ssh -o "VerifyHostKeyDNS ask" host.example.com
[...]
Matching host key fingerprint found in DNS.
Are you sure you want to continue connecting (yes/no)?
```

See the `VerifyHostKeyDNS` option in `ssh_config(5)` for more information.

## SSH-BASED VIRTUAL PRIVATE NETWORKS

`ssh` contains support for Virtual Private Network (VPN) tunnelling using the `tun(4)` network pseudo-device, allowing two networks to be joined securely. The `sshd_config(5)` configuration option `PermitTunnel` controls

whether the server supports this, and at what level (layer 2 or 3 traffic).

The following example would connect client network 10.0.50.0/24 with remote network 10.0.99.0/24 using a point-to-point connection from 10.1.1.1 to 10.1.1.2, provided that the SSH server running on the gateway to the remote network, at 192.168.1.15, allows it.

On the client:

```
# ssh -f -w 0:1 192.168.1.15 true
# ifconfig tun0 10.1.1.1 10.1.1.2 netmask 255.255.255.252
# route add 10.0.99.0/24 10.1.1.2
```

On the server:

```
# ifconfig tun1 10.1.1.2 10.1.1.1 netmask 255.255.255.252
# route add 10.0.50.0/24 10.1.1.1
```

Client access may be more finely tuned via the `/root/.ssh/authorized_keys` file (see below) and the `PermitRootLogin` server option. The following entry would permit connections on `tun(4)` device 1 from user `M-bM-^@M-^janeM-bM-^@M-^` and on `tun` device 2 from user `M-bM-^@M-^johnM-bM-^@M-^`, if `PermitRootLogin` is set to `M-bM-^@M-^forced-commands-onlyM-bM-^@M-^`:

```
tunnel="1",command="sh /etc/netstart tun1" ssh-rsa ... jane
tunnel="2",command="sh /etc/netstart tun2" ssh-rsa ... john
```

Since an SSH-based setup entails a fair amount of overhead, it may be more suited to temporary setups, such as for wireless VPNs. More permanent VPNs are better provided by tools such as `ipsecctl(8)` and `isakmpd(8)`.

## ENVIRONMENT

ssh will normally set the following environment variables:

**DISPLAY**            The `DISPLAY` variable indicates the location of the X11 server. It is automatically set by ssh to point to a value of the form `M-bM-^@M-^[hostname:nM-bM-^@M-^]`, where `M-bM-^@M-^[hostnameM-bM-^@M-^]` indicates the host where the shell runs, and `M-bM-^@M-^XnM-bM-^@M-^Y` is an integer `M-bM-^IM-%` 1. ssh uses this special value to forward X11 connections over the secure channel. The user should normally not set `DISPLAY` explicitly, as that will render the X11 connection insecure (and will require the user to manually copy any required authorization cookies).

**HOME**                Set to the path of the user's home directory.

- LOGNAME**           Synonym for **USER**; set for compatibility with systems that use this variable.
- MAIL**               Set to the path of the user's mailbox.
- PATH**               Set to the default **PATH**, as specified when compiling **ssh**.
- SSH\_ASKPASS**       If **ssh** needs a passphrase, it will read the passphrase from the current terminal if it was run from a terminal. If **ssh** does not have a terminal associated with it but **DISPLAY** and **SSH\_ASKPASS** are set, it will execute the program specified by **SSH\_ASKPASS** and open an X11 window to read the passphrase. This is particularly useful when calling **ssh** from a **.xsession** or related script. (Note that on some machines it may be necessary to redirect the input from **/dev/null** to make this work.)
- SSH\_AUTH\_SOCKET**   Identifies the path of a UNIX-domain socket used to communicate with the agent.
- SSH\_CONNECTION**   Identifies the client and server ends of the connection. The variable contains four space-separated values: client IP address, client port number, server IP address, and server port number.
- SSH\_ORIGINAL\_COMMAND** This variable contains the original command line if a forced command is executed. It can be used to extract the original arguments.
- SSH\_TTY**            This is set to the name of the tty (path to the device) associated with the current shell or command. If the current session has no tty, this variable is not set.
- TZ**                 This variable is set to indicate the present time zone if it was set when the daemon was started (i.e. the daemon passes the value on to new connections).
- USER**               Set to the name of the user logging in.

Additionally, **ssh** reads **~/.ssh/environment**, and adds lines of the format **M-bM-^@M-^\\VARNAME=valueM-bM-^@M-^]** to the environment if the file exists and users are allowed to change their environment. For more information, see the

PermitUserEnvironment option in sshd\_config(5).

## FILES

### ~/.rhosts

This file is used for host-based authentication (see above). On some machines this file may need to be world-readable if the user's home directory is on an NFS partition, because sshd(8) reads it as root. Additionally, this file must be owned by the user, and must not have write permissions for anyone else. The recommended permission for most machines is read/write for the user, and not accessible by others.

### ~/.shosts

This file is used in exactly the same way as .rhosts, but allows host-based authentication without permitting login with rlogin/rsh.

### ~/.ssh/

This directory is the default location for all user-specific configuration and authentication information. There is no general requirement to keep the entire contents of this directory secret, but the recommended permissions are read/write/execute for the user, and not accessible by others.

### ~/.ssh/authorized\_keys

Lists the public keys (DSA, ECDSA, Ed25519, RSA) that can be used for logging in as this user. The format of this file is described in the sshd(8) manual page. This file is not highly sensitive, but the recommended permissions are read/write for the user, and not accessible by others.

### ~/.ssh/config

This is the per-user configuration file. The file format and configuration options are described in ssh\_config(5). Because of the potential for abuse, this file must have strict permissions: read/write for the user, and not writable by others.

### ~/.ssh/environment

Contains additional definitions for environment variables; see ENVIRONMENT, above.

### ~/.ssh/identity

### ~/.ssh/id\_dsa

### ~/.ssh/id\_ecdsa

### ~/.ssh/id\_ed25519

### ~/.ssh/id\_rsa

Contains the private key for authentication. These files contain sensitive data and should be readable by the user but not

accessible by others (read/write/execute). ssh will simply ignore a private key file if it is accessible by others. It is possible to specify a passphrase when generating the key which will be used to encrypt the sensitive part of this file using 3DES.

~/.ssh/identity.pub

~/.ssh/id\_dsa.pub

~/.ssh/id\_ecdsa.pub

~/.ssh/id\_ed25519.pub

~/.ssh/id\_rsa.pub

Contains the public key for authentication. These files are not sensitive and can (but need not) be readable by anyone.

~/.ssh/known\_hosts

Contains a list of host keys for all hosts the user has logged into that are not already in the systemwide list of known host keys. See sshd(8) for further details of the format of this file.

~/.ssh/rc

Commands in this file are executed by ssh when the user logs in, just before the user's shell (or command) is started. See the sshd(8) manual page for more information.

/etc/hosts.equiv

This file is for host-based authentication (see above). It should only be writable by root.

/etc/shosts.equiv

This file is used in exactly the same way as hosts.equiv, but allows host-based authentication without permitting login with rlogin/rsh.

/etc/ssh/ssh\_config

Systemwide configuration file. The file format and configuration options are described in ssh\_config(5).

/etc/ssh/ssh\_host\_key

/etc/ssh/ssh\_host\_dsa\_key

/etc/ssh/ssh\_host\_ecdsa\_key

/etc/ssh/ssh\_host\_ed25519\_key

/etc/ssh/ssh\_host\_rsa\_key

These files contain the private parts of the host keys and are used for host-based authentication.

/etc/ssh/ssh\_known\_hosts

Systemwide list of known host keys. This file should be prepared

by the system administrator to contain the public host keys of all machines in the organization. It should be world-readable. See `sshd(8)` for further details of the format of this file.

`/etc/ssh/sshr`

Commands in this file are executed by `ssh` when the user logs in, just before the user's shell (or command) is started. See the `sshd(8)` manual page for more information.

#### EXIT STATUS

`ssh` exits with the exit status of the remote command or with 255 if an error occurred.

#### SEE ALSO

`scp(1)`, `sftp(1)`, `ssh-add(1)`, `ssh-agent(1)`, `ssh-keygen(1)`, `ssh-keyscan(1)`, `tun(4)`, `ssh_config(5)`, `ssh-keysign(8)`, `sshd(8)`

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## AUTHORS

OpenSSH is a derivative of the original and free ssh 1.2.12 release by Tatu Ylonen. Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos, Theo de Raadt and Dug Song removed many bugs, re-added newer features and created OpenSSH. Markus Friedl contributed the support for SSH protocol versions 1.5 and 2.0.

```
OpenBSD 5.9          February 17, 2016          OpenBSD 5.9
.\"
.\" Author: Tatu Ylonen <ylo@cs.hut.fi>
.\" Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
.\"          All rights reserved
.\"
.\" As far as I am concerned, the code I have written for this software
.\" can be used freely for any purpose.  Any derived versions of this
.\" software must be clearly marked as such, and if the derived work is
.\" incompatible with the protocol description in the RFC file, it must be
.\" called by a name other than "ssh" or "Secure Shell".
.\"
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.\" Copyright (c) 1999 Aaron Campbell.  All rights reserved.
.\" Copyright (c) 1999 Theo de Raadt.  All rights reserved.
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```



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."

." \$OpenBSD: ssh.1,v 1.369 2016/02/17 07:38:19 jmc Exp \$

.Dd \$Mdocdate: February 17 2016 \$

.Dt SSH 1

.Os

.Sh NAME

.Nm ssh

.Nd OpenSSH SSH client (remote login program)

.Sh SYNOPSIS

.Nm ssh

.Bk -words

.Op Fl 1246AaCfGgKkMnqsTtVvXxYy

.Op Fl b Ar bind\_address

.Op Fl c Ar cipher\_spec

.Op Fl D Oo Ar bind\_address : Oc Ns Ar port

.Op Fl E Ar log\_file

.Op Fl e Ar escape\_char

.Op Fl F Ar configfile

.Op Fl I Ar pkcs11

.Op Fl i Ar identity\_file

.Op Fl L Ar address

.Op Fl l Ar login\_name

.Op Fl m Ar mac\_spec

.Op Fl O Ar ctl\_cmd

.Op Fl o Ar option

.Op Fl p Ar port

.Op Fl Q Ar query\_option

.Op Fl R Ar address

.Op Fl S Ar ctl\_path

.Op Fl W Ar host : Ns Ar port

.Op Fl w Ar local\_tun Ns Op : Ns Ar remote\_tun

.Oo Ar user Ns @ Oc Ns Ar hostname

.Op Ar command

.Ek

.Sh DESCRIPTION

.Nm

(SSH client) is a program for logging into a remote machine and for executing commands on a remote machine.

It is intended to provide secure encrypted communications between two untrusted hosts over an insecure network.

X11 connections, arbitrary TCP ports and

.Ux Ns -domain

sockets can also be forwarded over the secure channel.

.Pp

.Nm

connects and logs into the specified

.Ar hostname

(with optional

.Ar user

name).

The user must prove

his/her identity to the remote machine using one of several methods

(see below).

.Pp

If

.Ar command

is specified,

it is executed on the remote host instead of a login shell.

.Pp

The options are as follows:

.Pp

.Bl -tag -width Ds -compact

.It Fl 1

Forces

.Nm

to try protocol version 1 only.

.Pp

.It Fl 2

Forces

.Nm

to try protocol version 2 only.

.Pp

.It Fl 4

Forces

.Nm

to use IPv4 addresses only.

.Pp

.It Fl 6

Forces

.Nm

to use IPv6 addresses only.

.Pp

.It Fl A

Enables forwarding of the authentication agent connection.

This can also be specified on a per-host basis in a configuration file.

.Pp

Agent forwarding should be enabled with caution.

Users with the ability to bypass file permissions on the remote host

(for the agent's

.Ux Ns -domain

socket) can access the local agent through the forwarded connection.

An attacker cannot obtain key material from the agent, however they can perform operations on the keys that enable them to authenticate using the identities loaded into the agent.

.Pp

.It Fl a

Disables forwarding of the authentication agent connection.

.Pp

.It Fl b Ar bind\_address

Use

.Ar bind\_address

on the local machine as the source address of the connection.

Only useful on systems with more than one address.

.Pp

.It Fl C

Requests compression of all data (including stdin, stdout, stderr, and data for forwarded X11, TCP and

.Ux Ns -domain connections).

The compression algorithm is the same used by

.Xr gzip 1 ,

and the

.Dq level

can be controlled by the

.Cm CompressionLevel

option for protocol version 1.

Compression is desirable on modem lines and other slow connections, but will only slow down things on fast networks.

The default value can be set on a host-by-host basis in the configuration files; see the

.Cm Compression

option.

.Pp

.It Fl c Ar cipher\_spec

Selects the cipher specification for encrypting the session.

.Pp

Protocol version 1 allows specification of a single cipher.

The supported values are

.Dq 3des ,

.Dq blowfish ,

and

.Dq des .

For protocol version 2,

.Ar cipher\_spec

is a comma-separated list of ciphers

listed in order of preference.

See the  
.Cm Ciphers  
keyword in  
.Xr ssh\_config 5  
for more information.

.Pp  
.It Fl D Xo  
.Sm off  
.Oo Ar bind\_address : Oc  
.Ar port  
.Sm on  
.Xc

Specifies a local  
.Dq dynamic  
application-level port forwarding.  
This works by allocating a socket to listen to  
.Ar port  
on the local side, optionally bound to the specified  
.Ar bind\_address .  
Whenever a connection is made to this port, the  
connection is forwarded over the secure channel, and the application  
protocol is then used to determine where to connect to from the  
remote machine.  
Currently the SOCKS4 and SOCKS5 protocols are supported, and  
.Nm  
will act as a SOCKS server.  
Only root can forward privileged ports.  
Dynamic port forwardings can also be specified in the configuration file.

.Pp  
IPv6 addresses can be specified by enclosing the address in square brackets.  
Only the superuser can forward privileged ports.  
By default, the local port is bound in accordance with the  
.Cm GatewayPorts  
setting.  
However, an explicit  
.Ar bind\_address  
may be used to bind the connection to a specific address.  
The  
.Ar bind\_address  
of  
.Dq localhost  
indicates that the listening port be bound for local use only, while an  
empty address or  
.Sq \*  
indicates that the port should be available from all interfaces.

.Pp  
.It Fl E Ar log\_file  
Append debug logs to

.Ar log\_file  
instead of standard error.

.Pp

.It Fl e Ar escape\_char  
Sets the escape character for sessions with a pty (default:  
.Ql ~ ).  
The escape character is only recognized at the beginning of a line.  
The escape character followed by a dot  
.Pq Ql \&.  
closes the connection;  
followed by control-Z suspends the connection;  
and followed by itself sends the escape character once.  
Setting the character to  
.Dq none  
disables any escapes and makes the session fully transparent.

.Pp

.It Fl F Ar configfile  
Specifies an alternative per-user configuration file.  
If a configuration file is given on the command line,  
the system-wide configuration file  
.Pq Pa /etc/ssh/ssh\_config  
will be ignored.  
The default for the per-user configuration file is  
.Pa ~/.ssh/config .

.Pp

.It Fl f  
Requests  
Requests  
.Nm  
to go to background just before command execution.  
This is useful if  
.Nm  
is going to ask for passwords or passphrases, but the user  
wants it in the background.  
This implies  
.Fl n .  
The recommended way to start X11 programs at a remote site is with  
something like  
.Ic ssh -f host xterm .

.Pp

If the  
.Cm ExitOnForwardFailure  
configuration option is set to  
.Dq yes ,  
then a client started with  
.Fl f  
will wait for all remote port forwards to be successfully established  
before placing itself in the background.

.Pp

.It Fl G

Causes

.Nm

to print its configuration after evaluating

.Cm Host

and

.Cm Match

blocks and exit.

.Pp

.It Fl g

Allows remote hosts to connect to local forwarded ports.

If used on a multiplexed connection, then this option must be specified on the master process.

.Pp

.It Fl I Ar pkcs11

Specify the PKCS#11 shared library

.Nm

should use to communicate with a PKCS#11 token providing the user's private RSA key.

.Pp

.It Fl i Ar identity\_file

Selects a file from which the identity (private key) for public key authentication is read.

The default is

.Pa ~/.ssh/identity

for protocol version 1, and

.Pa ~/.ssh/id\_dsa ,

.Pa ~/.ssh/id\_ecdsa ,

.Pa ~/.ssh/id\_ed25519

and

.Pa ~/.ssh/id\_rsa

for protocol version 2.

Identity files may also be specified on a per-host basis in the configuration file.

It is possible to have multiple

.Fl i

options (and multiple identities specified in configuration files).

If no certificates have been explicitly specified by the

.Cm CertificateFile

directive,

.Nm

will also try to load certificate information from the filename obtained by appending

.Pa -cert.pub

to identity filenames.

.Pp

.It Fl K

Enables GSSAPI-based authentication and forwarding (delegation) of GSSAPI credentials to the server.

.Pp

.It Fl k

Disables forwarding (delegation) of GSSAPI credentials to the server.

.Pp

.It Fl L Xo

.Sm off

.Oo Ar bind\_address : Oc

.Ar port : host : hostport

.Sm on

.Xc

.It Fl L Xo

.Sm off

.Oo Ar bind\_address : Oc

.Ar port : remote\_socket

.Sm on

.Xc

.It Fl L Xo

.Sm off

.Ar local\_socket : host : hostport

.Sm on

.Xc

.It Fl L Xo

.Sm off

.Ar local\_socket : remote\_socket

.Sm on

.Xc

Specifies that connections to the given TCP port or Unix socket on the local (client) host are to be forwarded to the given host and port, or Unix socket, on the remote side.

This works by allocating a socket to listen to either a TCP

.Ar port

on the local side, optionally bound to the specified

.Ar bind\_address ,

or to a Unix socket.

Whenever a connection is made to the local port or socket, the connection is forwarded over the secure channel, and a connection is made to either

.Ar host

port

.Ar hostport ,

or the Unix socket

.Ar remote\_socket ,

from the remote machine.

.Pp

Port forwardings can also be specified in the configuration file.

Only the superuser can forward privileged ports.

IPv6 addresses can be specified by enclosing the address in square brackets.

.Pp

By default, the local port is bound in accordance with the

.Cm GatewayPorts

setting.

However, an explicit

.Ar bind\_address

may be used to bind the connection to a specific address.

The

.Ar bind\_address

of

.Dq localhost

indicates that the listening port be bound for local use only, while an empty address or

.Sq \*

indicates that the port should be available from all interfaces.

.Pp

.It Fl l Ar login\_name

Specifies the user to log in as on the remote machine.

This also may be specified on a per-host basis in the configuration file.

.Pp

.It Fl M

Places the

.Nm

client into

.Dq master

mode for connection sharing.

Multiple

.Fl M

options places

.Nm

into

.Dq master

mode with confirmation required before slave connections are accepted.

Refer to the description of

.Cm ControlMaster

in

.Xr ssh\_config 5

for details.

.Pp

.It Fl m Ar mac\_spec

A comma-separated list of MAC (message authentication code) algorithms, specified in order of preference.

See the

.Cm MACs

keyword for more information.

.Pp

.It Fl N



Do not execute a remote command.

This is useful for just forwarding ports.

.Pp

.It Fl n

Redirects stdin from

.Pa /dev/null

(actually, prevents reading from stdin).

This must be used when

.Nm

is run in the background.

A common trick is to use this to run X11 programs on a remote machine.

For example,

.Ic ssh -n shadows.cs.hut.fi emacs &

will start an emacs on shadows.cs.hut.fi, and the X11

connection will be automatically forwarded over an encrypted channel.

The

.Nm

program will be put in the background.

(This does not work if

.Nm

needs to ask for a password or passphrase; see also the

.Fl f

option.)

.Pp

.It Fl O Ar ctl\_cmd

Control an active connection multiplexing master process.

When the

.Fl O

option is specified, the

.Ar ctl\_cmd

argument is interpreted and passed to the master process.

Valid commands are:

.Dq check

(check that the master process is running),

.Dq forward

(request forwardings without command execution),

.Dq cancel

(cancel forwardings),

.Dq exit

(request the master to exit), and

.Dq stop

(request the master to stop accepting further multiplexing requests).

.Pp

.It Fl o Ar option

Can be used to give options in the format used in the configuration file.

This is useful for specifying options for which there is no separate command-line flag.

For full details of the options listed below, and their possible values, see

.Xr ssh\_config 5 .  
.Pp  
.Bl -tag -width Ds -offset indent -compact  
.It AddKeysToAgent  
.It AddressFamily  
.It BatchMode  
.It BindAddress  
.It CanonicalDomains  
.It CanonicalizeFallbackLocal  
.It CanonicalizeHostname  
.It CanonicalizeMaxDots  
.It CanonicalizePermittedCNAMES  
.It CertificateFile  
.It ChallengeResponseAuthentication  
.It CheckHostIP  
.It Cipher  
.It Ciphers  
.It ClearAllForwardings  
.It Compression  
.It CompressionLevel  
.It ConnectionAttempts  
.It ConnectTimeout  
.It ControlMaster  
.It ControlPath  
.It ControlPersist  
.It DynamicForward  
.It EscapeChar  
.It ExitOnForwardFailure  
.It FingerprintHash  
.It ForwardAgent  
.It ForwardX11  
.It ForwardX11Timeout  
.It ForwardX11Trusted  
.It GatewayPorts  
.It GlobalKnownHostsFile  
.It GSSAPIAuthentication  
.It GSSAPIDelegateCredentials  
.It HashKnownHosts  
.It Host  
.It HostbasedAuthentication  
.It HostbasedKeyTypes  
.It HostKeyAlgorithms  
.It HostKeyAlias  
.It HostName  
.It IdentityFile  
.It IdentitiesOnly  
.It IPQoS  
.It KbdInteractiveAuthentication

.It KbdInteractiveDevices  
.It KexAlgorithms  
.It LocalCommand  
.It LocalForward  
.It LogLevel  
.It MACs  
.It Match  
.It NoHostAuthenticationForLocalhost  
.It NumberOfPasswordPrompts  
.It PasswordAuthentication  
.It PermitLocalCommand  
.It PKCS11Provider  
.It Port  
.It PreferredAuthentications  
.It Protocol  
.It ProxyCommand  
.It ProxyUseFdpass  
.It PubkeyAcceptedKeyTypes  
.It PubkeyAuthentication  
.It RekeyLimit  
.It RemoteForward  
.It RequestTTY  
.It RhostsRSAAuthentication  
.It RSAAuthentication  
.It SendEnv  
.It ServerAliveInterval  
.It ServerAliveCountMax  
.It StreamLocalBindMask  
.It StreamLocalBindUnlink  
.It StrictHostKeyChecking  
.It TCPKeepAlive  
.It Tunnel  
.It TunnelDevice  
.It UpdateHostKeys  
.It UsePrivilegedPort  
.It User  
.It UserKnownHostsFile  
.It VerifyHostKeyDNS  
.It VisualHostKey  
.It XAuthLocation  
.El  
.Pp  
.It Fl p Ar port  
Port to connect to on the remote host.  
This can be specified on a  
per-host basis in the configuration file.  
.Pp  
.It Fl Q Ar query\_option

Queries

.Nm

for the algorithms supported for the specified version 2.

The available features are:

.Ar cipher

(supported symmetric ciphers),

.Ar cipher-auth

(supported symmetric ciphers that support authenticated encryption),

.Ar mac

(supported message integrity codes),

.Ar kex

(key exchange algorithms),

.Ar key

(key types),

.Ar key-cert

(certificate key types),

.Ar key-plain

(non-certificate key types), and

.Ar protocol-version

(supported SSH protocol versions).

.Pp

.It Fl q

Quiet mode.

Causes most warning and diagnostic messages to be suppressed.

.Pp

.It Fl R Xo

.Sm off

.Oo Ar bind\_address : Oc

.Ar port : host : hostport

.Sm on

.Xc

.It Fl R Xo

.Sm off

.Oo Ar bind\_address : Oc

.Ar port : local\_socket

.Sm on

.Xc

.It Fl R Xo

.Sm off

.Ar remote\_socket : host : hostport

.Sm on

.Xc

.It Fl R Xo

.Sm off

.Ar remote\_socket : local\_socket

.Sm on

.Xc

Specifies that connections to the given TCP port or Unix socket on the remote

(server) host are to be forwarded to the given host and port, or Unix socket, on the local side.

This works by allocating a socket to listen to either a TCP

.Ar port

or to a Unix socket on the remote side.

Whenever a connection is made to this port or Unix socket, the connection is forwarded over the secure channel, and a connection is made to either

.Ar host

port

.Ar hostport ,

or

.Ar local\_socket ,

from the local machine.

.Pp

Port forwardings can also be specified in the configuration file.

Privileged ports can be forwarded only when

logging in as root on the remote machine.

IPv6 addresses can be specified by enclosing the address in square brackets.

.Pp

By default, TCP listening sockets on the server will be bound to the loopback interface only.

This may be overridden by specifying a

.Ar bind\_address .

An empty

.Ar bind\_address ,

or the address

.Ql \* ,

indicates that the remote socket should listen on all interfaces.

Specifying a remote

.Ar bind\_address

will only succeed if the server's

.Cm GatewayPorts

option is enabled (see

.Xr sshd\_config 5 ) .

.Pp

If the

.Ar port

argument is

.Ql 0 ,

the listen port will be dynamically allocated on the server and reported to the client at run time.

When used together with

.Ic -O forward

the allocated port will be printed to the standard output.

.Pp

.It Fl S Ar ctl\_path

Specifies the location of a control socket for connection sharing,

or the string

.Dq none

to disable connection sharing.

Refer to the description of

.Cm ControlPath

and

.Cm ControlMaster

in

.Xr ssh\_config 5

for details.

.Pp

.It Fl s

May be used to request invocation of a subsystem on the remote system.

Subsystems facilitate the use of SSH

as a secure transport for other applications (e.g. \&

.Xr sftp 1 ) .

The subsystem is specified as the remote command.

.Pp

.It Fl T

Disable pseudo-terminal allocation.

.Pp

.It Fl t

Force pseudo-terminal allocation.

This can be used to execute arbitrary

screen-based programs on a remote machine, which can be very useful,

e.g. when implementing menu services.

Multiple

.Fl t

options force tty allocation, even if

.Nm

has no local tty.

.Pp

.It Fl V

Display the version number and exit.

.Pp

.It Fl v

Verbose mode.

Causes

.Nm

to print debugging messages about its progress.

This is helpful in

debugging connection, authentication, and configuration problems.

Multiple

.Fl v

options increase the verbosity.

The maximum is 3.

.Pp

.It Fl W Ar host : Ns Ar port

Requests that standard input and output on the client be forwarded to

.Ar host

on

.Ar port

over the secure channel.

Implies

.FI N ,

.FI T ,

.Cm ExitOnForwardFailure

and

.Cm ClearAllForwardings .

.Pp

.It FI w Xo

.Ar local\_tun Ns Op : Ns Ar remote\_tun

.Xc

Requests

tunnel

device forwarding with the specified

.Xr tun 4

devices between the client

.Pq Ar local\_tun

and the server

.Pq Ar remote\_tun .

.Pp

The devices may be specified by numerical ID or the keyword

.Dq any ,

which uses the next available tunnel device.

If

.Ar remote\_tun

is not specified, it defaults to

.Dq any .

See also the

.Cm Tunnel

and

.Cm TunnelDevice

directives in

.Xr ssh\_config 5 .

If the

.Cm Tunnel

directive is unset, it is set to the default tunnel mode, which is

.Dq point-to-point .

.Pp

.It FI X

Enables X11 forwarding.

This can also be specified on a per-host basis in a configuration file.

.Pp

X11 forwarding should be enabled with caution.

Users with the ability to bypass file permissions on the remote host

(for the user's X authorization database)

can access the local X11 display through the forwarded connection.

An attacker may then be able to perform activities such as keystroke monitoring.

.Pp

For this reason, X11 forwarding is subjected to X11 SECURITY extension restrictions by default.

Please refer to the

.Nm

.Fl Y

option and the

.Cm ForwardX11Trusted

directive in

.Xr ssh\_config 5

for more information.

.Pp

.It Fl x

Disables X11 forwarding.

.Pp

.It Fl Y

Enables trusted X11 forwarding.

Trusted X11 forwardings are not subjected to the X11 SECURITY extension controls.

.Pp

.It Fl y

Send log information using the

.Xr syslog 3

system module.

By default this information is sent to stderr.

.El

.Pp

.Nm

may additionally obtain configuration data from

a per-user configuration file and a system-wide configuration file.

The file format and configuration options are described in

.Xr ssh\_config 5 .

.Sh AUTHENTICATION

The OpenSSH SSH client supports SSH protocols 1 and 2.

The default is to use protocol 2 only,

though this can be changed via the

.Cm Protocol

option in

.Xr ssh\_config 5

or the

.Fl 1

and

.Fl 2

options (see above).

Protocol 1 should not be used



and is only offered to support legacy devices.  
It suffers from a number of cryptographic weaknesses  
and doesn't support many of the advanced features available for protocol 2.

.Pp

The methods available for authentication are:

GSSAPI-based authentication,  
host-based authentication,  
public key authentication,  
challenge-response authentication,  
and password authentication.

Authentication methods are tried in the order specified above,  
though

.Cm PreferredAuthentications

can be used to change the default order.

.Pp

Host-based authentication works as follows:

If the machine the user logs in from is listed in

.Pa /etc/hosts.equiv

or

.Pa /etc/shosts.equiv

on the remote machine, and the user names are  
the same on both sides, or if the files

.Pa ~/.rhosts

or

.Pa ~/.shosts

exist in the user's home directory on the  
remote machine and contain a line containing the name of the client  
machine and the name of the user on that machine, the user is  
considered for login.

Additionally, the server

.Em must

be able to verify the client's  
host key (see the description of

.Pa /etc/ssh/ssh\_known\_hosts

and

.Pa ~/.ssh/known\_hosts ,

below)

for login to be permitted.

This authentication method closes security holes due to IP  
spoofing, DNS spoofing, and routing spoofing.

[Note to the administrator:

.Pa /etc/hosts.equiv ,

.Pa ~/.rhosts ,

and the rlogin/rsh protocol in general, are inherently insecure and should be  
disabled if security is desired.]

.Pp

Public key authentication works as follows:

The scheme is based on public-key cryptography,

using cryptosystems  
where encryption and decryption are done using separate keys,  
and it is unfeasible to derive the decryption key from the encryption key.  
The idea is that each user creates a public/private  
key pair for authentication purposes.  
The server knows the public key, and only the user knows the private key.

.Nm

implements public key authentication protocol automatically,  
using one of the DSA, ECDSA, Ed25519 or RSA algorithms.  
The HISTORY section of

.Xr ssl 8

contains a brief discussion of the DSA and RSA algorithms.

.Pp

The file

.Pa ~/.ssh/authorized\_keys

lists the public keys that are permitted for logging in.

When the user logs in, the

.Nm

program tells the server which key pair it would like to use for  
authentication.

The client proves that it has access to the private key  
and the server checks that the corresponding public key  
is authorized to accept the account.

.Pp

The user creates his/her key pair by running

.Xr ssh-keygen 1 .

This stores the private key in

.Pa ~/.ssh/identity

(protocol 1),

.Pa ~/.ssh/id\_dsa

(DSA),

.Pa ~/.ssh/id\_ecdsa

(ECDSA),

.Pa ~/.ssh/id\_ed25519

(Ed25519),

or

.Pa ~/.ssh/id\_rsa

(RSA)

and stores the public key in

.Pa ~/.ssh/identity.pub

(protocol 1),

.Pa ~/.ssh/id\_dsa.pub

(DSA),

.Pa ~/.ssh/id\_ecdsa.pub

(ECDSA),

.Pa ~/.ssh/id\_ed25519.pub

(Ed25519),

or

.Pa ~/.ssh/id\_rsa.pub

(RSA)

in the user's home directory.

The user should then copy the public key

to

.Pa ~/.ssh/authorized\_keys

in his/her home directory on the remote machine.

The

.Pa authorized\_keys

file corresponds to the conventional

.Pa ~/.rhosts

file, and has one key

per line, though the lines can be very long.

After this, the user can log in without giving the password.

.Pp

A variation on public key authentication

is available in the form of certificate authentication:

instead of a set of public/private keys,

signed certificates are used.

This has the advantage that a single trusted certification authority

can be used in place of many public/private keys.

See the CERTIFICATES section of

.Xr ssh-keygen 1

for more information.

.Pp

The most convenient way to use public key or certificate authentication

may be with an authentication agent.

See

.Xr ssh-agent 1

and (optionally) the

.Cm AddKeysToAgent

directive in

.Xr ssh\_config 5

for more information.

.Pp

Challenge-response authentication works as follows:

The server sends an arbitrary

.Qq challenge

text, and prompts for a response.

Examples of challenge-response authentication include

.Bx

Authentication (see

.Xr login.conf 5 )

and PAM (some

.Pf non-Ox

systems).

.Pp

Finally, if other authentication methods fail,

.Nm

prompts the user for a password.

The password is sent to the remote host for checking; however, since all communications are encrypted, the password cannot be seen by someone listening on the network.

.Pp

.Nm

automatically maintains and checks a database containing identification for all hosts it has ever been used with.

Host keys are stored in

.Pa ~/.ssh/known\_hosts

in the user's home directory.

Additionally, the file

.Pa /etc/ssh/ssh\_known\_hosts

is automatically checked for known hosts.

Any new hosts are automatically added to the user's file.

If a host's identification ever changes,

.Nm

warns about this and disables password authentication to prevent server spoofing or man-in-the-middle attacks, which could otherwise be used to circumvent the encryption.

The

.Cm StrictHostKeyChecking

option can be used to control logins to machines whose host key is not known or has changed.

.Pp

When the user's identity has been accepted by the server, the server either executes the given command in a non-interactive session or, if no command has been specified, logs into the machine and gives the user a normal shell as an interactive session.

All communication with the remote command or shell will be automatically encrypted.

.Pp

If an interactive session is requested

.Nm

by default will only request a pseudo-terminal (pty) for interactive sessions when the client has one.

The flags

.Fl T

and

.Fl t

can be used to override this behaviour.

.Pp

If a pseudo-terminal has been allocated the user may use the escape characters noted below.

.Pp

If no pseudo-terminal has been allocated, the session is transparent and can be used to reliably transfer binary data.

On most systems, setting the escape character to

.Dq none

will also make the session transparent even if a tty is used.

.Pp

The session terminates when the command or shell on the remote machine exits and all X11 and TCP connections have been closed.

.Sh ESCAPE CHARACTERS

When a pseudo-terminal has been requested,

.Nm

supports a number of functions through the use of an escape character.

.Pp

A single tilde character can be sent as

.Ic ~~

or by following the tilde by a character other than those described below.

The escape character must always follow a newline to be interpreted as special.

The escape character can be changed in configuration files using the

.Cm EscapeChar

configuration directive or on the command line by the

.Fl e

option.

.Pp

The supported escapes (assuming the default

.Ql ~ )

are:

.Bl -tag -width Ds

.It Cm ~.

Disconnect.

.It Cm ~^Z

Background

.Nm .

.It Cm ~#

List forwarded connections.

.It Cm ~&

Background

.Nm

at logout when waiting for forwarded connection / X11 sessions to terminate.

.It Cm ~?

Display a list of escape characters.

.It Cm ~B

Send a BREAK to the remote system

(only useful if the peer supports it).

.It Cm ~C

Open command line.

Currently this allows the addition of port forwardings using the

.Fl L ,

.Fl R

and

.Fl D

options (see above).

It also allows the cancellation of existing port-forwardings with

.Sm off

.Fl KL Oo Ar bind\_address : Oc Ar port

.Sm on

for local,

.Sm off

.Fl KR Oo Ar bind\_address : Oc Ar port

.Sm on

for remote and

.Sm off

.Fl KD Oo Ar bind\_address : Oc Ar port

.Sm on

for dynamic port-forwardings.

.Ic !\& Ns Ar command

allows the user to execute a local command if the

.Ic PermitLocalCommand

option is enabled in

.Xr ssh\_config 5 .

Basic help is available, using the

.Fl h

option.

.It Cm ~R

Request rekeying of the connection

(only useful if the peer supports it).

.It Cm ~V

Decrease the verbosity

.Pq Ic LogLevel

when errors are being written to stderr.

.It Cm ~v

Increase the verbosity

.Pq Ic LogLevel

when errors are being written to stderr.

.El

.Sh TCP FORWARDING

Forwarding of arbitrary TCP connections over the secure channel can be specified either on the command line or in a configuration file.

One possible application of TCP forwarding is a secure connection to a mail server; another is going through firewalls.

.Pp

In the example below, we look at encrypting communication between an IRC client and server, even though the IRC server does not directly support encrypted communications.

This works as follows:

the user connects to the remote host using

.Nm ,

specifying a port to be used to forward connections to the remote server.  
After that it is possible to start the service which is to be encrypted on the client machine, connecting to the same local port, and  
.Nm  
will encrypt and forward the connection.

.Pp  
The following example tunnels an IRC session from client machine

```
.Dq 127.0.0.1  
(localhost)  
to remote server  
.Dq server.example.com :  
.Bd -literal -offset 4n  
$ ssh -f -L 1234:localhost:6667 server.example.com sleep 10  
$ irc -c '#users' -p 1234 pinky 127.0.0.1  
.Ed  
.Pp
```

This tunnels a connection to IRC server

```
.Dq server.example.com ,  
joining channel  
.Dq #users ,  
nickname  
.Dq pinky ,  
using port 1234.
```

It doesn't matter which port is used, as long as it's greater than 1023 (remember, only root can open sockets on privileged ports) and doesn't conflict with any ports already in use.

The connection is forwarded to port 6667 on the remote server, since that's the standard port for IRC services.

.Pp

The

```
.Fl f
```

option backgrounds

```
.Nm
```

and the remote command

```
.Dq sleep 10
```

is specified to allow an amount of time

(10 seconds, in the example)

to start the service which is to be tunnelled.

If no connections are made within the time specified,

```
.Nm
```

will exit.

```
.Sh X11 FORWARDING
```

If the

```
.Cm ForwardX11
```

variable is set to

.Dq yes

(or see the description of the

.Fl X ,

.Fl x ,

and

.Fl Y

options above)

and the user is using X11 (the

.Ev DISPLAY

environment variable is set), the connection to the X11 display is automatically forwarded to the remote side in such a way that any X11 programs started from the shell (or command) will go through the encrypted channel, and the connection to the real X server will be made from the local machine.

The user should not manually set

.Ev DISPLAY .

Forwarding of X11 connections can be configured on the command line or in configuration files.

.Pp

The

.Ev DISPLAY

value set by

.Nm

will point to the server machine, but with a display number greater than zero.

This is normal, and happens because

.Nm

creates a

.Dq proxy

X server on the server machine for forwarding the connections over the encrypted channel.

.Pp

.Nm

will also automatically set up Xauthority data on the server machine.

For this purpose, it will generate a random authorization cookie, store it in Xauthority on the server, and verify that any forwarded connections carry this cookie and replace it by the real cookie when the connection is opened.

The real authentication cookie is never sent to the server machine (and no cookies are sent in the plain).

.Pp

If the

.Cm ForwardAgent

variable is set to

.Dq yes

(or see the description of the

.Fl A

and



.Fl a

options above) and

the user is using an authentication agent, the connection to the agent is automatically forwarded to the remote side.

.Sh VERIFYING HOST KEYS

When connecting to a server for the first time,

a fingerprint of the server's public key is presented to the user (unless the option

.Cm StrictHostKeyChecking

has been disabled).

Fingerprints can be determined using

.Xr ssh-keygen 1 :

.Pp

.Dl \$ ssh-keygen -l -f /etc/ssh/ssh\_host\_rsa\_key

.Pp

If the fingerprint is already known, it can be matched and the key can be accepted or rejected.

If only legacy (MD5) fingerprints for the server are available, the

.Xr ssh-keygen 1

.Fl E

option may be used to downgrade the fingerprint algorithm to match.

.Pp

Because of the difficulty of comparing host keys

just by looking at fingerprint strings,

there is also support to compare host keys visually, using

.Em random art .

By setting the

.Cm VisualHostKey

option to

.Dq yes ,

a small ASCII graphic gets displayed on every login to a server, no matter if the session itself is interactive or not.

By learning the pattern a known server produces, a user can easily find out that the host key has changed when a completely different pattern is displayed.

Because these patterns are not unambiguous however, a pattern that looks similar to the pattern remembered only gives a good probability that the host key is the same, not guaranteed proof.

.Pp

To get a listing of the fingerprints along with their random art for all known hosts, the following command line can be used:

.Pp

.Dl \$ ssh-keygen -lv -f ~/.ssh/known\_hosts

.Pp

If the fingerprint is unknown,

an alternative method of verification is available:

SSH fingerprints verified by DNS.

An additional resource record (RR),  
SSHFP,  
is added to a zonefile  
and the connecting client is able to match the fingerprint  
with that of the key presented.

.Pp

In this example, we are connecting a client to a server,

.Dq host.example.com .

The SSHFP resource records should first be added to the zonefile for  
host.example.com:

.Bd -literal -offset indent

```
$ ssh-keygen -r host.example.com.
```

.Ed

.Pp

The output lines will have to be added to the zonefile.

To check that the zone is answering fingerprint queries:

.Pp

```
.Dl $ dig -t SSHFP host.example.com
```

.Pp

Finally the client connects:

.Bd -literal -offset indent

```
$ ssh -o "VerifyHostKeyDNS ask" host.example.com
```

```
[...]
```

Matching host key fingerprint found in DNS.

Are you sure you want to continue connecting (yes/no)?

.Ed

.Pp

See the

.Cm VerifyHostKeyDNS

option in

.Xr ssh\_config 5

for more information.

.Sh SSH-BASED VIRTUAL PRIVATE NETWORKS

.Nm

contains support for Virtual Private Network (VPN) tunnelling  
using the

.Xr tun 4

network pseudo-device,

allowing two networks to be joined securely.

The

.Xr sshd\_config 5

configuration option

.Cm PermitTunnel

controls whether the server supports this,

and at what level (layer 2 or 3 traffic).

.Pp

The following example would connect client network 10.0.50.0/24  
with remote network 10.0.99.0/24 using a point-to-point connection

from 10.1.1.1 to 10.1.1.2,  
provided that the SSH server running on the gateway to the remote network,  
at 192.168.1.15, allows it.

.Pp

On the client:

.Bd -literal -offset indent

```
# ssh -f -w 0:1 192.168.1.15 true
```

```
# ifconfig tun0 10.1.1.1 10.1.1.2 netmask 255.255.255.252
```

```
# route add 10.0.99.0/24 10.1.1.2
```

.Ed

.Pp

On the server:

.Bd -literal -offset indent

```
# ifconfig tun1 10.1.1.2 10.1.1.1 netmask 255.255.255.252
```

```
# route add 10.0.50.0/24 10.1.1.1
```

.Ed

.Pp

Client access may be more finely tuned via the

.Pa /root/.ssh/authorized\_keys

file (see below) and the

.Cm PermitRootLogin

server option.

The following entry would permit connections on

.Xr tun 4

device 1 from user

.Dq jane

and on tun device 2 from user

.Dq john ,

if

.Cm PermitRootLogin

is set to

.Dq forced-commands-only :

.Bd -literal -offset 2n

```
tunnel="1",command="sh /etc/netstart tun1" ssh-rsa ... jane
```

```
tunnel="2",command="sh /etc/netstart tun2" ssh-rsa ... john
```

.Ed

.Pp

Since an SSH-based setup entails a fair amount of overhead,

it may be more suited to temporary setups,

such as for wireless VPNs.

More permanent VPNs are better provided by tools such as

.Xr ipsecctl 8

and

.Xr isakmpd 8 .

.Sh ENVIRONMENT

.Nm

will normally set the following environment variables:

.Bl -tag -width "SSH\_ORIGINAL\_COMMAND"

.It Ev DISPLAY

The

.Ev DISPLAY

variable indicates the location of the X11 server.

It is automatically set by

.Nm

to point to a value of the form

.Dq hostname:n ,

where

.Dq hostname

indicates the host where the shell runs, and

.Sq n

is an integer \\*(Ge 1.

.Nm

uses this special value to forward X11 connections over the secure channel.

The user should normally not set

.Ev DISPLAY

explicitly, as that

will render the X11 connection insecure (and will require the user to manually copy any required authorization cookies).

.It Ev HOME

Set to the path of the user's home directory.

.It Ev LOGNAME

Synonym for

.Ev USER ;

set for compatibility with systems that use this variable.

.It Ev MAIL

Set to the path of the user's mailbox.

.It Ev PATH

Set to the default

.Ev PATH ,

as specified when compiling

.Nm .

.It Ev SSH\_ASKPASS

If

.Nm

needs a passphrase, it will read the passphrase from the current terminal if it was run from a terminal.

If

.Nm

does not have a terminal associated with it but

.Ev DISPLAY

and

.Ev SSH\_ASKPASS

are set, it will execute the program specified by

.Ev SSH\_ASKPASS

and open an X11 window to read the passphrase.

This is particularly useful when calling

.Nm

from a

.Pa .xsession

or related script.

(Note that on some machines it

may be necessary to redirect the input from

.Pa /dev/null

to make this work.)

.It Ev SSH\_AUTH\_SOCK

Identifies the path of a

.Ux Ns -domain

socket used to communicate with the agent.

.It Ev SSH\_CONNECTION

Identifies the client and server ends of the connection.

The variable contains

four space-separated values: client IP address, client port number,

server IP address, and server port number.

.It Ev SSH\_ORIGINAL\_COMMAND

This variable contains the original command line if a forced command is executed.

It can be used to extract the original arguments.

.It Ev SSH\_TTY

This is set to the name of the tty (path to the device) associated

with the current shell or command.

If the current session has no tty,

this variable is not set.

.It Ev TZ

This variable is set to indicate the present time zone if it

was set when the daemon was started (i.e. the daemon passes the value on to new connections).

.It Ev USER

Set to the name of the user logging in.

.El

.Pp

Additionally,

.Nm

reads

.Pa ~/.ssh/environment ,

and adds lines of the format

.Dq VARNAME=value

to the environment if the file exists and users are allowed to change their environment.

For more information, see the

.Cm PermitUserEnvironment

option in

.Xr sshd\_config 5 .

.Sh FILES

.Bl -tag -width Ds -compact

.It Pa ~/.rhosts

This file is used for host-based authentication (see above).

On some machines this file may need to be world-readable if the user's home directory is on an NFS partition, because

.Xr sshd 8

reads it as root.

Additionally, this file must be owned by the user, and must not have write permissions for anyone else.

The recommended

permission for most machines is read/write for the user, and not accessible by others.

.Pp

.It Pa ~/.shosts

This file is used in exactly the same way as

.Pa .rhosts ,

but allows host-based authentication without permitting login with rlogin/rsh.

.Pp

.It Pa ~/.ssh/

This directory is the default location for all user-specific configuration and authentication information.

There is no general requirement to keep the entire contents of this directory secret, but the recommended permissions are read/write/execute for the user, and not accessible by others.

.Pp

.It Pa ~/.ssh/authorized\_keys

Lists the public keys (DSA, ECDSA, Ed25519, RSA) that can be used for logging in as this user.

The format of this file is described in the

.Xr sshd 8

manual page.

This file is not highly sensitive, but the recommended permissions are read/write for the user, and not accessible by others.

.Pp

.It Pa ~/.ssh/config

This is the per-user configuration file.

The file format and configuration options are described in

.Xr ssh\_config 5 .

Because of the potential for abuse, this file must have strict permissions: read/write for the user, and not writable by others.

.Pp

.It Pa ~/.ssh/environment

Contains additional definitions for environment variables; see

.Sx ENVIRONMENT ,

above.

.Pp

.It Pa ~/.ssh/identity

.It Pa ~/.ssh/id\_dsa

.It Pa ~/.ssh/id\_ecdsa

.It Pa ~/.ssh/id\_ed25519

.It Pa ~/.ssh/id\_rsa

Contains the private key for authentication.

These files

contain sensitive data and should be readable by the user but not accessible by others (read/write/execute).

.Nm

will simply ignore a private key file if it is accessible by others.

It is possible to specify a passphrase when generating the key which will be used to encrypt the sensitive part of this file using 3DES.

.Pp

.It Pa ~/.ssh/identity.pub

.It Pa ~/.ssh/id\_dsa.pub

.It Pa ~/.ssh/id\_ecdsa.pub

.It Pa ~/.ssh/id\_ed25519.pub

.It Pa ~/.ssh/id\_rsa.pub

Contains the public key for authentication.

These files are not

sensitive and can (but need not) be readable by anyone.

.Pp

.It Pa ~/.ssh/known\_hosts

Contains a list of host keys for all hosts the user has logged into that are not already in the systemwide list of known host keys.

See

.Xr sshd 8

for further details of the format of this file.

.Pp

.It Pa ~/.ssh/rc

Commands in this file are executed by

.Nm

when the user logs in, just before the user's shell (or command) is started.

See the

.Xr sshd 8

manual page for more information.

.Pp

.It Pa /etc/hosts.equiv

This file is for host-based authentication (see above).

It should only be writable by root.

.Pp

.It Pa /etc/shosts.equiv

This file is used in exactly the same way as

.Pa hosts.equiv ,

but allows host-based authentication without permitting login with

rlogin/rsh.

.Pp

.It Pa /etc/ssh/ssh\_config

Systemwide configuration file.

The file format and configuration options are described in

.Xr ssh\_config 5 .

.Pp

.It Pa /etc/ssh/ssh\_host\_key

.It Pa /etc/ssh/ssh\_host\_dsa\_key

.It Pa /etc/ssh/ssh\_host\_ecdsa\_key

.It Pa /etc/ssh/ssh\_host\_ed25519\_key

.It Pa /etc/ssh/ssh\_host\_rsa\_key

These files contain the private parts of the host keys and are used for host-based authentication.

.Pp

.It Pa /etc/ssh/ssh\_known\_hosts

Systemwide list of known host keys.

This file should be prepared by the

system administrator to contain the public host keys of all machines in the organization.

It should be world-readable.

See

.Xr sshd 8

for further details of the format of this file.

.Pp

.It Pa /etc/ssh/sshr

Commands in this file are executed by

.Nm

when the user logs in, just before the user's shell (or command) is started.

See the

.Xr sshd 8

manual page for more information.

.El

.Sh EXIT STATUS

.Nm

exits with the exit status of the remote command or with 255

if an error occurred.

.Sh SEE ALSO

.Xr scp 1 ,

.Xr sftp 1 ,

.Xr ssh-add 1 ,

.Xr ssh-agent 1 ,

.Xr ssh-keygen 1 ,

.Xr ssh-keyscan 1 ,

.Xr tun 4 ,

.Xr ssh\_config 5 ,

.Xr ssh-keysign 8 ,

.Xr sshd 8



.Sh STANDARDS  
.Rs  
. %A S. Lehtinen  
. %A C. Lonvick  
. %D January 2006  
. %R RFC 4250  
. %T The Secure Shell (SSH) Protocol Assigned Numbers  
.Re  
.Pp  
.Rs  
. %A T. Ylonen  
. %A C. Lonvick  
. %D January 2006  
. %R RFC 4251  
. %T The Secure Shell (SSH) Protocol Architecture  
.Re  
.Pp  
.Rs  
. %A T. Ylonen  
. %A C. Lonvick  
. %D January 2006  
. %R RFC 4252  
. %T The Secure Shell (SSH) Authentication Protocol  
.Re  
.Pp  
.Rs  
. %A T. Ylonen  
. %A C. Lonvick  
. %D January 2006  
. %R RFC 4253  
. %T The Secure Shell (SSH) Transport Layer Protocol  
.Re  
.Pp  
.Rs  
. %A T. Ylonen  
. %A C. Lonvick  
. %D January 2006  
. %R RFC 4254  
. %T The Secure Shell (SSH) Connection Protocol  
.Re  
.Pp  
.Rs  
. %A J. Schlyter  
. %A W. Griffin  
. %D January 2006  
. %R RFC 4255  
. %T Using DNS to Securely Publish Secure Shell (SSH) Key Fingerprints  
.Re

.Pp  
.Rs  
. %A F. Cusack  
. %A M. Forssen  
. %D January 2006  
. %R RFC 4256  
. %T Generic Message Exchange Authentication for the Secure Shell Protocol (SSH)  
.Re  
.Pp  
.Rs  
. %A J. Galbraith  
. %A P. Remaker  
. %D January 2006  
. %R RFC 4335  
. %T The Secure Shell (SSH) Session Channel Break Extension  
.Re  
.Pp  
.Rs  
. %A M. Bellare  
. %A T. Kohno  
. %A C. Namprempre  
. %D January 2006  
. %R RFC 4344  
. %T The Secure Shell (SSH) Transport Layer Encryption Modes  
.Re  
.Pp  
.Rs  
. %A B. Harris  
. %D January 2006  
. %R RFC 4345  
. %T Improved Arcfour Modes for the Secure Shell (SSH) Transport Layer Protocol  
.Re  
.Pp  
.Rs  
. %A M. Friedl  
. %A N. Provos  
. %A W. Simpson  
. %D March 2006  
. %R RFC 4419  
. %T Diffie-Hellman Group Exchange for the Secure Shell (SSH) Transport Layer Protocol  
.Re  
.Pp  
.Rs  
. %A J. Galbraith  
. %A R. Thayer  
. %D November 2006  
. %R RFC 4716  
. %T The Secure Shell (SSH) Public Key File Format

```

.Re
.Pp
.Rs
.%A D. Stebila
.%A J. Green
.%D December 2009
.%R RFC 5656
.%T Elliptic Curve Algorithm Integration in the Secure Shell Transport Layer
.Re
.Pp
.Rs
.%A A. Perrig
.%A D. Song
.%D 1999
.%O International Workshop on Cryptographic Techniques and E-Commerce (CrypTEC '99)
.%T Hash Visualization: a New Technique to improve Real-World Security
.Re
.Sh AUTHORS
OpenSSH is a derivative of the original and free
ssh 1.2.12 release by Tatu Ylonen.
Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos,
Theo de Raadt and Dug Song
removed many bugs, re-added newer features and
created OpenSSH.
Markus Friedl contributed the support for SSH
protocol versions 1.5 and 2.0.
/* $OpenBSD: ssh.c,v 1.436 2016/02/15 09:47:49 dtucker Exp $ */
/*
* Author: Tatu Ylonen <ylo@cs.hut.fi>
* Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
*       All rights reserved
* Ssh client program. This program can be used to log into a remote machine.
* The software supports strong authentication, encryption, and forwarding
* of X11, TCP/IP, and authentication connections.
*
* As far as I am concerned, the code I have written for this software
* can be used freely for any purpose. Any derived versions of this
* software must be clearly marked as such, and if the derived work is
* incompatible with the protocol description in the RFC file, it must be
* called by a name other than "ssh" or "Secure Shell".
*
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* Copyright (c) 2000, 2001, 2002, 2003 Markus Friedl. All rights reserved.
*
* Modified to work with SSL by Niels Provos <provos@citi.umich.edu>
* in Canada (German citizen).
*
* Redistribution and use in source and binary forms, with or without

```

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 \* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF  
 \* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.  
 \*/

```
#include "includes.h"
```

```
#include <sys/types.h>
#ifdef HAVE_SYS_STAT_H
# include <sys/stat.h>
#endif
#include <sys/resource.h>
#include <sys/ioctl.h>
#include <sys/socket.h>
#include <sys/wait.h>
```

```
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <netdb.h>
#ifdef HAVE_PATHS_H
#include <paths.h>
#endif
#include <pwd.h>
#include <signal.h>
#include <stdarg.h>
#include <stddef.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#include <limits.h>
```

```

#include <netinet/in.h>
#include <arpa/inet.h>

#ifdef WITH_OPENSSL
#include <openssl/evp.h>
#include <openssl/err.h>
#endif

#include "openbsd-compat/openssl-compat.h"
#include "openbsd-compat/sys-queue.h"

#include "xmalloc.h"
#include "ssh.h"
#include "ssh1.h"
#include "ssh2.h"
#include "canohost.h"
#include "compat.h"
#include "cipher.h"
#include "digest.h"
#include "packet.h"
#include "buffer.h"
#include "channels.h"
#include "key.h"
#include "authfd.h"
#include "authfile.h"
#include "pathnames.h"
#include "dispatch.h"
#include "clientloop.h"
#include "log.h"
#include "misc.h"
#include "readconf.h"
#include "sshconnect.h"
#include "kex.h"
#include "mac.h"
#include "sshpty.h"
#include "match.h"
#include "msg.h"
#include "uidswap.h"
#include "version.h"
#include "ssherr.h"
#include "myproposal.h"

#ifdef ENABLE_PKCS11
#include "ssh-pkcs11.h"
#endif

extern char *__progname;

/* Saves a copy of argv for setproctitle emulation */

```

```

#ifndef HAVE_SETPROCTITLE
static char **saved_av;
#endif

/* Flag indicating whether debug mode is on. May be set on the command line. */
int debug_flag = 0;

/* Flag indicating whether a tty should be requested */
int tty_flag = 0;

/* don't exec a shell */
int no_shell_flag = 0;

/*
 * Flag indicating that nothing should be read from stdin. This can be set
 * on the command line.
 */
int stdin_null_flag = 0;

/*
 * Flag indicating that the current process should be backgrounded and
 * a new slave launched in the foreground for ControlPersist.
 */
int need_controlpersist_detach = 0;

/* Copies of flags for ControlPersist foreground slave */
int ostdin_null_flag, ono_shell_flag, otty_flag, orequest_tty;

/*
 * Flag indicating that ssh should fork after authentication. This is useful
 * so that the passphrase can be entered manually, and then ssh goes to the
 * background.
 */
int fork_after_authentication_flag = 0;

/* forward stdio to remote host and port */
char *stdio_forward_host = NULL;
int stdio_forward_port = 0;

/*
 * General data structure for command line options and options configurable
 * in configuration files. See readconf.h.
 */
Options options;

/* optional user configfile */
char *config = NULL;

```

```

/*
 * Name of the host we are connecting to. This is the name given on the
 * command line, or the HostName specified for the user-supplied name in a
 * configuration file.
 */
char *host;

/* socket address the host resolves to */
struct sockaddr_storage hostaddr;

/* Private host keys. */
Sensitive sensitive_data;

/* Original real UID. */
uid_t original_real_uid;
uid_t original_effective_uid;

/* command to be executed */
Buffer command;

/* Should we execute a command or invoke a subsystem? */
int subsystem_flag = 0;

/* # of replies received for global requests */
static int remote_forward_confirms_received = 0;

/* mux.c */
extern int muxserver_sock;
extern u_int muxclient_command;

/* Prints a help message to the user. This function never returns. */

static void
usage(void)
{
    fprintf(stderr,
"usage: ssh [-1246AaCfGgKkMnqsTtVvXxYy] [-b bind_address] [-c cipher_spec]\n"
"      [-D [bind_address:]port] [-E log_file] [-e escape_char]\n"
"      [-F configfile] [-I pkcs11] [-i identity_file] [-L address]\n"
"      [-l login_name] [-m mac_spec] [-O ctl_cmd] [-o option] [-p port]\n"
"      [-Q query_option] [-R address] [-S ctl_path] [-W host:port]\n"
"      [-w local_tun[:remote_tun]] [user@]hostname [command]\n"
);
    exit(255);
}

static int ssh_session(void);
static int ssh_session2(void);

```

```

static void load_public_identity_files(void);
static void main_sigchld_handler(int);

/* from muxclient.c */
void muxclient(const char *);
void muxserver_listen(void);

/* ~/ expand a list of paths. NB. assumes path[n] is heap-allocated. */
static void
tilde_expand_paths(char **paths, u_int num_paths)
{
    u_int i;
    char *cp;

    for (i = 0; i < num_paths; i++) {
        cp = tilde_expand_filename(paths[i], original_real_uid);
        free(paths[i]);
        paths[i] = cp;
    }
}

/*
 * Attempt to resolve a host name / port to a set of addresses and
 * optionally return any CNAMEs encountered along the way.
 * Returns NULL on failure.
 * NB. this function must operate with a options having undefined members.
 */
static struct addrinfo *
resolve_host(const char *name, int port, int logerr, char *cname, size_t clen)
{
    char strport[NI_MAXSERV];
    struct addrinfo hints, *res;
    int gaierr, loglevel = SYSLOG_LEVEL_DEBUG1;

    if (port <= 0)
        port = default_ssh_port();

    snprintf(strport, sizeof strport, "%d", port);
    memset(&hints, 0, sizeof(hints));
    hints.ai_family = options.address_family == -1 ?
        AF_UNSPEC : options.address_family;
    hints.ai_socktype = SOCK_STREAM;
    if (cname != NULL)
        hints.ai_flags = AI_CANONNAME;
    if ((gaierr = getaddrinfo(name, strport, &hints, &res)) != 0) {
        if (logerr || (gaierr != EAI_NONAME && gaierr != EAI_NODATA))
            loglevel = SYSLOG_LEVEL_ERROR;
        do_log2(loglevel, "%s: Could not resolve hostname %.100s: %s",

```



```

    __progname, name, ssh_gai_strerror(gaierr));
return NULL;
}
if (cname != NULL && res->ai_canonname != NULL) {
if (strncpy(cname, res->ai_canonname, clen) >= clen) {
error("%s: host \"%s\" cname \"%s\" too long (max %lu)",
    __func__, name, res->ai_canonname, (u_long)clen);
if (clen > 0)
    *cname = '\0';
}
}
return res;
}

/*
* Attempt to resolve a numeric host address / port to a single address.
* Returns a canonical address string.
* Returns NULL on failure.
* NB. this function must operate with a options having undefined members.
*/
static struct addrinfo *
resolve_addr(const char *name, int port, char *caddr, size_t clen)
{
char addr[NI_MAXHOST], strport[NI_MAXSERV];
struct addrinfo hints, *res;
int gaierr;

if (port <= 0)
port = default_ssh_port();
snprintf(strport, sizeof strport, "%u", port);
memset(&hints, 0, sizeof(hints));
hints.ai_family = options.address_family == -1 ?
    AF_UNSPEC : options.address_family;
hints.ai_socktype = SOCK_STREAM;
hints.ai_flags = AI_NUMERICHOST|AI_NUMERICSERV;
if ((gaierr = getaddrinfo(name, strport, &hints, &res)) != 0) {
debug2("%s: could not resolve name %.100s as address: %s",
    __func__, name, ssh_gai_strerror(gaierr));
return NULL;
}
if (res == NULL) {
debug("%s: getaddrinfo %.100s returned no addresses",
    __func__, name);
return NULL;
}
if (res->ai_next != NULL) {
debug("%s: getaddrinfo %.100s returned multiple addresses",
    __func__, name);
}
}

```

```

goto fail;
}
if ((gaierr = getnameinfo(res->ai_addr, res->ai_addrlen,
    addr, sizeof(addr), NULL, 0, NI_NUMERICHOST)) != 0) {
debug("%s: Could not format address for name %.100s: %s",
    __func__, name, ssh_gai_strerror(gaierr));
goto fail;
}
if (strncpy(caddr, addr, clen) >= clen) {
error("%s: host \"%s\" addr \"%s\" too long (max %lu)",
    __func__, name, addr, (u_long)clen);
if (clen > 0)
    *caddr = '\0';
fail:
freeaddrinfo(res);
return NULL;
}
return res;
}

/*
 * Check whether the cname is a permitted replacement for the hostname
 * and perform the replacement if it is.
 * NB. this function must operate with a options having undefined members.
 */
static int
check_follow_cname(char **namep, const char *cname)
{
int i;
struct allowed_cname *rule;

if (*cname == '\0' || options.num_permitted_cnames == 0 ||
    strcmp(*namep, cname) == 0)
    return 0;
if (options.canonicalize_hostname == SSH_CANONICALISE_NO)
    return 0;
/*
 * Don't attempt to canonicalize names that will be interpreted by
 * a proxy unless the user specifically requests so.
 */
if (!option_clear_or_none(options.proxy_command) &&
    options.canonicalize_hostname != SSH_CANONICALISE_ALWAYS)
    return 0;
debug3("%s: check \"%s\" CNAME \"%s\"", __func__, *namep, cname);
for (i = 0; i < options.num_permitted_cnames; i++) {
    rule = options.permitted_cnames + i;
    if (match_pattern_list(*namep, rule->source_list, 1) != 1 ||
        match_pattern_list(cname, rule->target_list, 1) != 1)

```

```

    continue;
    verbose("Canonicalized DNS aliased hostname "
        "\"%s\" => \"%s\"", *namep, cname);
    free(*namep);
    *namep = xstrdup(cname);
    return 1;
}
return 0;
}

/*
 * Attempt to resolve the supplied hostname after applying the user's
 * canonicalization rules. Returns the address list for the host or NULL
 * if no name was found after canonicalization.
 * NB. this function must operate with a options having undefined members.
 */
static struct addrinfo *
resolve_canonicalize(char **hostp, int port)
{
    int i, ndots;
    char *cp, *fullhost, newname[NI_MAXHOST];
    struct addrinfo *addrs;

    if (options.canonicalize_hostname == SSH_CANONICALISE_NO)
        return NULL;

    /*
     * Don't attempt to canonicalize names that will be interpreted by
     * a proxy unless the user specifically requests so.
     */
    if (!option_clear_or_none(options.proxy_command) &&
        options.canonicalize_hostname != SSH_CANONICALISE_ALWAYS)
        return NULL;

    /* Try numeric hostnames first */
    if ((addrs = resolve_addr(*hostp, port,
        newname, sizeof(newname))) != NULL) {
        debug2("%s: hostname %.100s is address", __func__, *hostp);
        if (strcasecmp(*hostp, newname) != 0) {
            debug2("%s: canonicalised address \"%s\" => \"%s\"",
                __func__, *hostp, newname);
            free(*hostp);
            *hostp = xstrdup(newname);
        }
        return addrs;
    }

    /* If domain name is anchored, then resolve it now */

```

```

if ((*hostp)[strlen(*hostp) - 1] == '.') {
    debug3("%s: name is fully qualified", __func__);
    fullhost = xstrdup(*hostp);
    if ((addr = resolve_host(fullhost, port, 0,
        newname, sizeof(newname))) != NULL)
        goto found;
    free(fullhost);
    goto notfound;
}

/* Don't apply canonicalization to sufficiently-qualified hostnames */
ndots = 0;
for (cp = *hostp; *cp != '\0'; cp++) {
    if (*cp == '.')
        ndots++;
}
if (ndots > options.canonicalize_max_dots) {
    debug3("%s: not canonicalizing hostname \"%s\" (max dots %d)",
        __func__, *hostp, options.canonicalize_max_dots);
    return NULL;
}
/* Attempt each supplied suffix */
for (i = 0; i < options.num_canonical_domains; i++) {
    *newname = '\0';
    xasprintf(&fullhost, "%s.%s.", *hostp,
        options.canonical_domains[i]);
    debug3("%s: attempting \"%s\" => \"%s\"", __func__,
        *hostp, fullhost);
    if ((addr = resolve_host(fullhost, port, 0,
        newname, sizeof(newname))) == NULL) {
        free(fullhost);
        continue;
    }
found:
    /* Remove trailing '.' */
    fullhost[strlen(fullhost) - 1] = '\0';
    /* Follow CNAME if requested */
    if (!check_follow_cname(&fullhost, newname)) {
        debug("Canonicalized hostname \"%s\" => \"%s\"",
            *hostp, fullhost);
    }
    free(*hostp);
    *hostp = fullhost;
    return addr;
}
notfound:
if (!options.canonicalize_fallback_local)
    fatal("%s: Could not resolve host \"%s\"", __progname, *hostp);

```

```

debug2("%s: host %s not found in any suffix", __func__, *hostp);
return NULL;
}

/*
 * Read per-user configuration file. Ignore the system wide config
 * file if the user specifies a config file on the command line.
 */
static void
process_config_files(const char *host_arg, struct passwd *pw, int post_canon)
{
    char buf[PATH_MAX];
    int r;

    if (config != NULL) {
        if (strcasecmp(config, "none") != 0 &&
            !read_config_file(config, pw, host, host_arg, &options,
                SSHCONF_USERCONF | (post_canon ? SSHCONF_POSTCANON : 0)))
            fatal("Can't open user config file %.100s: "
                "%.100s", config, strerror(errno));
        } else {
            r = snprintf(buf, sizeof buf, "%s/%s", pw->pw_dir,
                _PATH_SSH_USER_CONFFILE);
            if (r > 0 && (size_t)r < sizeof(buf))
                (void)read_config_file(buf, pw, host, host_arg,
                    &options, SSHCONF_CHECKPERM | SSHCONF_USERCONF |
                    (post_canon ? SSHCONF_POSTCANON : 0));

            /* Read systemwide configuration file after user config. */
            (void)read_config_file(_PATH_HOST_CONFIG_FILE, pw,
                host, host_arg, &options,
                post_canon ? SSHCONF_POSTCANON : 0);
        }
    }

    /* Rewrite the port number in an addrinfo list of addresses */
    static void
    set_addrinfo_port(struct addrinfo *addrs, int port)
    {
        struct addrinfo *addr;

        for (addr = addrs; addr != NULL; addr = addr->ai_next) {
            switch (addr->ai_family) {
            case AF_INET:
                ((struct sockaddr_in *)addr->ai_addr)->
                    sin_port = htons(port);
                break;
            case AF_INET6:

```

```

        ((struct sockaddr_in6 *)addr->ai_addr)->
            sin6_port = htons(port);
        break;
    }
}
}

/*
 * Main program for the ssh client.
 */
int
main(int ac, char **av)
{
    int i, r, opt, exit_status, use_syslog, config_test = 0;
    char *p, *cp, *line, *argv0, buf[PATH_MAX], *host_arg, *logfile;
    char thishost[NI_MAXHOST], shorthost[NI_MAXHOST], portstr[NI_MAXSERV];
    char cname[NI_MAXHOST], uidstr[32], *conn_hash_hex;
    struct stat st;
    struct passwd *pw;
    int timeout_ms;
    extern int optind, optreset;
    extern char *optarg;
    struct Forward fwd;
    struct addrinfo *addrs = NULL;
    struct ssh_digest_ctx *md;
    u_char conn_hash[SSH_DIGEST_MAX_LENGTH];

    ssh_malloc_init(); /* must be called before any mallocs */
    /* Ensure that fds 0, 1 and 2 are open or directed to /dev/null */
    sanitise_stdio();

    __progname = ssh_get_progname(av[0]);

#ifdef HAVE_SETPROCTITLE
    /* Prepare for later setproctitle emulation */
    /* Save argv so it isn't clobbered by setproctitle() emulation */
    saved_av = xcalloc(ac + 1, sizeof(*saved_av));
    for (i = 0; i < ac; i++)
        saved_av[i] = xstrdup(av[i]);
    saved_av[i] = NULL;
    compat_init_setproctitle(ac, av);
    av = saved_av;
#endif

    /*
     * Discard other fds that are hanging around. These can cause problem
     * with backgrounded ssh processes started by ControlPersist.
     */

```

```

closefrom(STDERR_FILENO + 1);

/*
 * Save the original real uid. It will be needed later (uid-swapping
 * may clobber the real uid).
 */
original_real_uid = getuid();
original_effective_uid = geteuid();

/*
 * Use uid-swapping to give up root privileges for the duration of
 * option processing. We will re-instantiate the rights when we are
 * ready to create the privileged port, and will permanently drop
 * them when the port has been created (actually, when the connection
 * has been made, as we may need to create the port several times).
 */
PRIV_END;

#ifdef HAVE_SETRLIMIT
/* If we are installed setuid root be careful to not drop core. */
if (original_real_uid != original_effective_uid) {
    struct rlimit rlim;
    rlim.rlim_cur = rlim.rlim_max = 0;
    if (setrlimit(RLIMIT_CORE, &rlim) < 0)
        fatal("setrlimit failed: %.100s", strerror(errno));
}
#endif
/* Get user data. */
pw = getpwuid(original_real_uid);
if (!pw) {
    logit("No user exists for uid %lu", (u_long)original_real_uid);
    exit(255);
}
/* Take a copy of the returned structure. */
pw = pwcopyp(pw);

/*
 * Set our umask to something reasonable, as some files are created
 * with the default umask. This will make them world-readable but
 * writable only by the owner, which is ok for all files for which we
 * don't set the modes explicitly.
 */
umask(022);

/*
 * Initialize option structure to indicate that no values have been
 * set.
 */

```

```

initialize_options(&options);

/* Parse command-line arguments. */
host = NULL;
use_syslog = 0;
logfile = NULL;
argv0 = av[0];

again:
while ((opt = getopt(ac, av, "1246ab:c:e:fgi:kl:m:no:p:qstvx"
    "ACD:E:F:GI:KL:MNO:PQ:R:S:TVw:W:XYy")) != -1) {
    switch (opt) {
    case '1':
        options.protocol = SSH_PROTO_1;
        break;
    case '2':
        options.protocol = SSH_PROTO_2;
        break;
    case '4':
        options.address_family = AF_INET;
        break;
    case '6':
        options.address_family = AF_INET6;
        break;
    case 'n':
        stdin_null_flag = 1;
        break;
    case 'f':
        fork_after_authentication_flag = 1;
        stdin_null_flag = 1;
        break;
    case 'x':
        options.forward_x11 = 0;
        break;
    case 'X':
        options.forward_x11 = 1;
        break;
    case 'y':
        use_syslog = 1;
        break;
    case 'E':
        logfile = optarg;
        break;
    case 'G':
        config_test = 1;
        break;
    case 'Y':
        options.forward_x11 = 1;

```



```

options.forward_x11_trusted = 1;
break;
case 'g':
options.fwd_opts.gateway_ports = 1;
break;
case 'O':
if (stdio_forward_host != NULL)
fatal("Cannot specify multiplexing "
"command with -W");
else if (muxclient_command != 0)
fatal("Multiplexing command already specified");
if (strcmp(optarg, "check") == 0)
muxclient_command = SSHMUX_COMMAND_ALIVE_CHECK;
else if (strcmp(optarg, "forward") == 0)
muxclient_command = SSHMUX_COMMAND_FORWARD;
else if (strcmp(optarg, "exit") == 0)
muxclient_command = SSHMUX_COMMAND_TERMINATE;
else if (strcmp(optarg, "stop") == 0)
muxclient_command = SSHMUX_COMMAND_STOP;
else if (strcmp(optarg, "cancel") == 0)
muxclient_command = SSHMUX_COMMAND_CANCEL_FWD;
else
fatal("Invalid multiplex command.");
break;
case 'P': /* deprecated */
options.use_privileged_port = 0;
break;
case 'Q':
cp = NULL;
if (strcmp(optarg, "cipher") == 0)
cp = cipher_alg_list('\n', 0);
else if (strcmp(optarg, "cipher-auth") == 0)
cp = cipher_alg_list('\n', 1);
else if (strcmp(optarg, "mac") == 0)
cp = mac_alg_list('\n');
else if (strcmp(optarg, "kex") == 0)
cp = kex_alg_list('\n');
else if (strcmp(optarg, "key") == 0)
cp = key_alg_list(0, 0);
else if (strcmp(optarg, "key-cert") == 0)
cp = key_alg_list(1, 0);
else if (strcmp(optarg, "key-plain") == 0)
cp = key_alg_list(0, 1);
else if (strcmp(optarg, "protocol-version") == 0) {
#ifdef WITH_SSH1
cp = xstrdup("1\n2");
#else
cp = xstrdup("2");

```

```

#endif
}
if (cp == NULL)
    fatal("Unsupported query \"%s\"", optarg);
printf("%s\n", cp);
free(cp);
exit(0);
break;
case 'a':
    options.forward_agent = 0;
    break;
case 'A':
    options.forward_agent = 1;
    break;
case 'k':
    options.gss_deleg_creds = 0;
    break;
case 'K':
    options.gss_authentication = 1;
    options.gss_deleg_creds = 1;
    break;
case 'i':
    p = tilde_expand_filename(optarg, original_real_uid);
    if (stat(p, &st) < 0)
        fprintf(stderr, "Warning: Identity file %s "
            "not accessible: %s.\n", p,
            strerror(errno));
    else
        add_identity_file(&options, NULL, p, 1);
    free(p);
    break;
case 'T':
#ifdef ENABLE_PKCS11
    free(options.pkcs11_provider);
    options.pkcs11_provider = xstrdup(optarg);
#else
    fprintf(stderr, "no support for PKCS#11.\n");
#endif
break;
case 't':
    if (options.request_tty == REQUEST_TTY_YES)
        options.request_tty = REQUEST_TTY_FORCE;
    else
        options.request_tty = REQUEST_TTY_YES;
    break;
case 'v':
    if (debug_flag == 0) {
        debug_flag = 1;

```

```

options.log_level = SYSLOG_LEVEL_DEBUG1;
} else {
if (options.log_level < SYSLOG_LEVEL_DEBUG3)
options.log_level++;
}
break;
case 'V':
fprintf(stderr, "%s, %s\n",
SSH_RELEASE,
#ifdef WITH_OPENSSL
SSLeay_version(SSLEAY_VERSION)
#else
"without OpenSSL"
#endif
);
if (opt == 'V')
exit(0);
break;
case 'w':
if (options.tun_open == -1)
options.tun_open = SSH_TUNMODE_DEFAULT;
options.tun_local = a2tun(optarg, &options.tun_remote);
if (options.tun_local == SSH_TUNID_ERR) {
fprintf(stderr,
"Bad tun device '%s'\n", optarg);
exit(255);
}
break;
case 'W':
if (stdio_forward_host != NULL)
fatal("stdio forward already specified");
if (muxclient_command != 0)
fatal("Cannot specify stdio forward with -O");
if (parse_forward(&fwd, optarg, 1, 0)) {
stdio_forward_host = fwd.listen_host;
stdio_forward_port = fwd.listen_port;
free(fwd.connect_host);
} else {
fprintf(stderr,
"Bad stdio forwarding specification '%s'\n",
optarg);
exit(255);
}
options.request_tty = REQUEST_TTY_NO;
no_shell_flag = 1;
options.clear_forwardings = 1;
options.exit_on_forward_failure = 1;
break;

```

```

case 'q':
options.log_level = SYSLOG_LEVEL_QUIET;
break;
case 'e':
if (optarg[0] == '^' && optarg[2] == 0 &&
    (u_char) optarg[1] >= 64 &&
    (u_char) optarg[1] < 128)
options.escape_char = (u_char) optarg[1] & 31;
else if (strlen(optarg) == 1)
options.escape_char = (u_char) optarg[0];
else if (strcmp(optarg, "none") == 0)
options.escape_char = SSH_ESCAPECHAR_NONE;
else {
fprintf(stderr, "Bad escape character '%s'.\n",
    optarg);
exit(255);
}
break;
case 'c':
if (ciphers_valid(*optarg == '+' ?
    optarg + 1 : optarg)) {
/* SSH2 only */
free(options.ciphers);
options.ciphers = xstrdup(optarg);
options.cipher = SSH_CIPHER_INVALID;
break;
}
/* SSH1 only */
options.cipher = cipher_number(optarg);
if (options.cipher == -1) {
fprintf(stderr, "Unknown cipher type '%s'\n",
    optarg);
exit(255);
}
if (options.cipher == SSH_CIPHER_3DES)
options.ciphers = xstrdup("3des-cbc");
else if (options.cipher == SSH_CIPHER_BLOWFISH)
options.ciphers = xstrdup("blowfish-cbc");
else
options.ciphers = xstrdup(KEX_CLIENT_ENCRYPT);
break;
case 'm':
if (mac_valid(optarg)) {
free(options.macs);
options.macs = xstrdup(optarg);
} else {
fprintf(stderr, "Unknown mac type '%s'\n",
    optarg);

```

```

    exit(255);
}
break;
case 'M':
if (options.control_master == SSHCTL_MASTER_YES)
    options.control_master = SSHCTL_MASTER_ASK;
else
    options.control_master = SSHCTL_MASTER_YES;
break;
case 'p':
options.port = a2port(optarg);
if (options.port <= 0) {
    fprintf(stderr, "Bad port '%s'\n", optarg);
    exit(255);
}
break;
case 'l':
options.user = optarg;
break;

case 'L':
if (parse_forward(&fwd, optarg, 0, 0))
    add_local_forward(&options, &fwd);
else {
    fprintf(stderr,
        "Bad local forwarding specification '%s'\n",
        optarg);
    exit(255);
}
break;

case 'R':
if (parse_forward(&fwd, optarg, 0, 1)) {
    add_remote_forward(&options, &fwd);
} else {
    fprintf(stderr,
        "Bad remote forwarding specification "
        "'%s'\n", optarg);
    exit(255);
}
break;

case 'D':
if (parse_forward(&fwd, optarg, 1, 0)) {
    add_local_forward(&options, &fwd);
} else {
    fprintf(stderr,
        "Bad dynamic forwarding specification "

```

```

        "%s\n", optarg);
    exit(255);
}
break;

case 'C':
    options.compression = 1;
    break;
case 'N':
    no_shell_flag = 1;
    options.request_tty = REQUEST_TTY_NO;
    break;
case 'T':
    options.request_tty = REQUEST_TTY_NO;
    break;
case 'o':
    line = xstrdup(optarg);
    if (process_config_line(&options, pw,
        host ? host : "", host ? host : "", line,
        "command-line", 0, NULL, SSHCONF_USERCONF) != 0)
        exit(255);
    free(line);
    break;
case 's':
    subsystem_flag = 1;
    break;
case 'S':
    free(options.control_path);
    options.control_path = xstrdup(optarg);
    break;
case 'b':
    options.bind_address = optarg;
    break;
case 'F':
    config = optarg;
    break;
default:
    usage();
}
}

ac -= optind;
av += optind;

if (ac > 0 && !host) {
    if (strchr(*av, '@')) {
        p = xstrdup(*av);
        cp = strchr(p, '@');
    }
}

```

```

if (cp == NULL || cp == p)
    usage();
options.user = p;
*cp = '\0';
host = xstrdup(++cp);
} else
    host = xstrdup(*av);
if (ac > 1) {
    optind = optreset = 1;
    goto again;
}
ac--, av++;
}

/* Check that we got a host name. */
if (!host)
    usage();

host_arg = xstrdup(host);

#ifdef WITH_OPENSSL
    OpenSSL_add_all_algorithms();
    ERR_load_crypto_strings();
#endif

/* Initialize the command to execute on remote host. */
buffer_init(&command);

/*
 * Save the command to execute on the remote host in a buffer. There
 * is no limit on the length of the command, except by the maximum
 * packet size. Also sets the tty flag if there is no command.
 */
if (!ac) {
    /* No command specified - execute shell on a tty. */
    if (subsystem_flag) {
        fprintf(stderr,
            "You must specify a subsystem to invoke.\n");
        usage();
    }
} else {
    /* A command has been specified. Store it into the buffer. */
    for (i = 0; i < ac; i++) {
        if (i)
            buffer_append(&command, " ", 1);
        buffer_append(&command, av[i], strlen(av[i]));
    }
}

```

```

/* Cannot fork to background if no command. */
if (fork_after_authentication_flag && buffer_len(&command) == 0 &&
    !no_shell_flag)
    fatal("Cannot fork into background without a command "
        "to execute.");

/*
 * Initialize "log" output. Since we are the client all output
 * goes to stderr unless otherwise specified by -y or -E.
 */
if (use_syslog && logfile != NULL)
    fatal("Can't specify both -y and -E");
if (logfile != NULL)
    log_redirect_stderr_to(logfile);
log_init(argv0,
    options.log_level == -1 ? SYSLOG_LEVEL_INFO : options.log_level,
    SYSLOG_FACILITY_USER, !use_syslog);

if (debug_flag)
    logit("%s, %s", SSH_RELEASE,
#ifdef WITH_OPENSSL
        SSLeay_version(SSLEAY_VERSION)
#else
        "without OpenSSL"
#endif
    );

/* Parse the configuration files */
process_config_files(host_arg, pw, 0);

/* Hostname canonicalisation needs a few options filled. */
fill_default_options_for_canonicalization(&options);

/* If the user has replaced the hostname then take it into use now */
if (options.hostname != NULL) {
    /* NB. Please keep in sync with readconf.c:match_cfg_line() */
    cp = percent_expand(options.hostname,
        "h", host, (char *)NULL);
    free(host);
    host = cp;
    free(options.hostname);
    options.hostname = xstrdup(host);
}

/* If canonicalization requested then try to apply it */
lowercase(host);
if (options.canonicalize_hostname != SSH_CANONICALISE_NO)

```



```

    addrs = resolve_canonicalize(&host, options.port);

/*
 * If CanonicalizePermittedCNAMEs have been specified but
 * other canonicalization did not happen (by not being requested
 * or by failing with fallback) then the hostname may still be changed
 * as a result of CNAME following.
 *
 * Try to resolve the bare hostname name using the system resolver's
 * usual search rules and then apply the CNAME follow rules.
 *
 * Skip the lookup if a ProxyCommand is being used unless the user
 * has specifically requested canonicalisation for this case via
 * CanonicalizeHostname=always
 */
if (addrs == NULL && options.num_permitted_cnames != 0 &&
    (option_clear_or_none(options.proxy_command) ||
     options.canonicalize_hostname == SSH_CANONICALISE_ALWAYS)) {
    if ((addrs = resolve_host(host, options.port,
        option_clear_or_none(options.proxy_command),
        cname, sizeof(cname))) == NULL) {
        /* Don't fatal proxied host names not in the DNS */
        if (option_clear_or_none(options.proxy_command))
            cleanup_exit(255); /* logged in resolve_host */
    } else
        check_follow_cname(&host, cname);
}

/*
 * If canonicalisation is enabled then re-parse the configuration
 * files as new stanzas may match.
 */
if (options.canonicalize_hostname != 0) {
    debug("Re-reading configuration after hostname "
        "canonicalisation");
    free(options.hostname);
    options.hostname = xstrdup(host);
    process_config_files(host_arg, pw, 1);
}

/*
 * Address resolution happens early with canonicalisation
 * enabled and the port number may have changed since, so
 * reset it in address list
 */
if (addrs != NULL && options.port > 0)
    set_addrinfo_port(addrs, options.port);
}

/* Fill configuration defaults. */

```

```

fill_default_options(&options);

if (options.port == 0)
    options.port = default_ssh_port();
channel_set_af(options.address_family);

/* Tidy and check options */
if (options.host_key_alias != NULL)
    lowercase(options.host_key_alias);
if (options.proxy_command != NULL &&
    strcmp(options.proxy_command, "-") == 0 &&
    options.proxy_use_fdpass)
    fatal("ProxyCommand=- and ProxyUseFDPass are incompatible");
if (options.control_persist &&
    options.update_hostkeys == SSH_UPDATE_HOSTKEYS_ASK) {
    debug("UpdateHostKeys=ask is incompatible with ControlPersist; "
        "disabling");
    options.update_hostkeys = 0;
}
if (options.connection_attempts <= 0)
    fatal("Invalid number of ConnectionAttempts");
#ifdef HAVE_CYGWIN
if (original_effective_uid != 0)
    options.use_privileged_port = 0;
#endif

/* reinit */
log_init(argv0, options.log_level, SYSLOG_FACILITY_USER, !use_syslog);

if (options.request_tty == REQUEST_TTY_YES ||
    options.request_tty == REQUEST_TTY_FORCE)
    tty_flag = 1;

/* Allocate a tty by default if no command specified. */
if (buffer_len(&command) == 0)
    tty_flag = options.request_tty != REQUEST_TTY_NO;

/* Force no tty */
if (options.request_tty == REQUEST_TTY_NO || muxclient_command != 0)
    tty_flag = 0;
/* Do not allocate a tty if stdin is not a tty. */
if ((!isatty(fileno(stdin)) || stdin_null_flag) &&
    options.request_tty != REQUEST_TTY_FORCE) {
    if (tty_flag)
        logit("Pseudo-terminal will not be allocated because "
            "stdin is not a terminal.");
    tty_flag = 0;
}

```

```

seed_rng();

if (options.user == NULL)
    options.user = xstrdup(pw->pw_name);

if (gethostname(thishost, sizeof(thishost)) == -1)
    fatal("gethostname: %s", strerror(errno));
strcpy(shorthost, thishost, sizeof(shorthost));
shorthost[strcspn(thishost, ".")] = '\0';
snprintf(portstr, sizeof(portstr), "%d", options.port);
snprintf(uidstr, sizeof(uidstr), "%d", pw->pw_uid);

if ((md = ssh_digest_start(SSH_DIGEST_SHA1)) == NULL ||
    ssh_digest_update(md, thishost, strlen(thishost)) < 0 ||
    ssh_digest_update(md, host, strlen(host)) < 0 ||
    ssh_digest_update(md, portstr, strlen(portstr)) < 0 ||
    ssh_digest_update(md, options.user, strlen(options.user)) < 0 ||
    ssh_digest_final(md, conn_hash, sizeof(conn_hash)) < 0)
    fatal("%s: mux digest failed", __func__);
ssh_digest_free(md);
conn_hash_hex = tohex(conn_hash, ssh_digest_bytes(SSH_DIGEST_SHA1));

if (options.local_command != NULL) {
    debug3("expanding LocalCommand: %s", options.local_command);
    cp = options.local_command;
    options.local_command = percent_expand(cp,
        "C", conn_hash_hex,
        "L", shorthost,
        "d", pw->pw_dir,
        "h", host,
        "I", thishost,
        "n", host_arg,
        "p", portstr,
        "r", options.user,
        "u", pw->pw_name,
        (char *)NULL);
    debug3("expanded LocalCommand: %s", options.local_command);
    free(cp);
}

if (options.control_path != NULL) {
    cp = tilde_expand_filename(options.control_path,
        original_real_uid);
    free(options.control_path);
    options.control_path = percent_expand(cp,
        "C", conn_hash_hex,
        "L", shorthost,

```

```

    "h", host,
    "l", thishost,
    "n", host_arg,
    "p", portstr,
    "r", options.user,
    "u", pw->pw_name,
    "i", uidstr,
    (char *)NULL);
free(cp);
}
free(conn_hash_hex);

if (config_test) {
    dump_client_config(&options, host);
    exit(0);
}

if (muxclient_command != 0 && options.control_path == NULL)
    fatal("No ControlPath specified for \"-O\" command");
if (options.control_path != NULL)
    muxclient(options.control_path);

/*
 * If hostname canonicalisation was not enabled, then we may not
 * have yet resolved the hostname. Do so now.
 */
if (addrs == NULL && options.proxy_command == NULL) {
    debug2("resolving \"%s\" port %d", host, options.port);
    if ((addrs = resolve_host(host, options.port, 1,
        cname, sizeof(cname))) == NULL)
        cleanup_exit(255); /* resolve_host logs the error */
}

timeout_ms = options.connection_timeout * 1000;

/* Open a connection to the remote host. */
if (ssh_connect(host, addrs, &hostaddr, options.port,
    options.address_family, options.connection_attempts,
    &timeout_ms, options.tcp_keep_alive,
    options.use_privileged_port) != 0)
    exit(255);

if (addrs != NULL)
    freeaddrinfo(addrs);

packet_set_timeout(options.server_alive_interval,
    options.server_alive_count_max);

```

```

if (timeout_ms > 0)
    debug3("timeout: %d ms remain after connect", timeout_ms);

/*
 * If we successfully made the connection, load the host private key
 * in case we will need it later for combined rsa-rhosts
 * authentication. This must be done before releasing extra
 * privileges, because the file is only readable by root.
 * If we cannot access the private keys, load the public keys
 * instead and try to execute the ssh-keysign helper instead.
 */
sensitive_data.nkeys = 0;
sensitive_data.keys = NULL;
sensitive_data.external_keysign = 0;
if (options.rhosts_rsa_authentication ||
    options.hostbased_authentication) {
    sensitive_data.nkeys = 9;
    sensitive_data.keys = xcalloc(sensitive_data.nkeys,
        sizeof(Key));
    for (i = 0; i < sensitive_data.nkeys; i++)
        sensitive_data.keys[i] = NULL;

    PRIV_START;
#ifdef WITH_SSH1
    sensitive_data.keys[0] = key_load_private_type(KEY_RSA1,
        _PATH_HOST_KEY_FILE, "", NULL, NULL);
#endif
#ifdef OPENSSL_HAS_ECC
    sensitive_data.keys[1] = key_load_private_cert(KEY_ECDSA,
        _PATH_HOST_ECDSA_KEY_FILE, "", NULL);
#endif
    sensitive_data.keys[2] = key_load_private_cert(KEY_ED25519,
        _PATH_HOST_ED25519_KEY_FILE, "", NULL);
    sensitive_data.keys[3] = key_load_private_cert(KEY_RSA,
        _PATH_HOST_RSA_KEY_FILE, "", NULL);
    sensitive_data.keys[4] = key_load_private_cert(KEY_DSA,
        _PATH_HOST_DSA_KEY_FILE, "", NULL);
#ifdef OPENSSL_HAS_ECC
    sensitive_data.keys[5] = key_load_private_type(KEY_ECDSA,
        _PATH_HOST_ECDSA_KEY_FILE, "", NULL, NULL);
#endif
    sensitive_data.keys[6] = key_load_private_type(KEY_ED25519,
        _PATH_HOST_ED25519_KEY_FILE, "", NULL, NULL);
    sensitive_data.keys[7] = key_load_private_type(KEY_RSA,
        _PATH_HOST_RSA_KEY_FILE, "", NULL, NULL);
    sensitive_data.keys[8] = key_load_private_type(KEY_DSA,
        _PATH_HOST_DSA_KEY_FILE, "", NULL, NULL);
    PRIV_END;

```

```

if (options.hostbased_authentication == 1 &&
    sensitive_data.keys[0] == NULL &&
    sensitive_data.keys[5] == NULL &&
    sensitive_data.keys[6] == NULL &&
    sensitive_data.keys[7] == NULL &&
    sensitive_data.keys[8] == NULL) {
#ifdef OPENSSSL_HAS_ECC
    sensitive_data.keys[1] = key_load_cert(
        _PATH_HOST_ECDSA_KEY_FILE);
#endif
    sensitive_data.keys[2] = key_load_cert(
        _PATH_HOST_ED25519_KEY_FILE);
    sensitive_data.keys[3] = key_load_cert(
        _PATH_HOST_RSA_KEY_FILE);
    sensitive_data.keys[4] = key_load_cert(
        _PATH_HOST_DSA_KEY_FILE);
#ifdef OPENSSSL_HAS_ECC
    sensitive_data.keys[5] = key_load_public(
        _PATH_HOST_ECDSA_KEY_FILE, NULL);
#endif
    sensitive_data.keys[6] = key_load_public(
        _PATH_HOST_ED25519_KEY_FILE, NULL);
    sensitive_data.keys[7] = key_load_public(
        _PATH_HOST_RSA_KEY_FILE, NULL);
    sensitive_data.keys[8] = key_load_public(
        _PATH_HOST_DSA_KEY_FILE, NULL);
    sensitive_data.external_keysign = 1;
}
}
/*
 * Get rid of any extra privileges that we may have. We will no
 * longer need them. Also, extra privileges could make it very hard
 * to read identity files and other non-world-readable files from the
 * user's home directory if it happens to be on a NFS volume where
 * root is mapped to nobody.
 */
if (original_effective_uid == 0) {
    PRIV_START;
    permanently_set_uid(pw);
}

/*
 * Now that we are back to our own permissions, create ~/.ssh
 * directory if it doesn't already exist.
 */
if (config == NULL) {
    r = snprintf(buf, sizeof buf, "%s%s%s", pw->pw_dir,

```

```

    strcmp(pw->pw_dir, "/") ? "/" : "", _PATH_SSH_USER_DIR);
if (r > 0 && (size_t)r < sizeof(buf) && stat(buf, &st) < 0) {
#ifdef WITH_SELINUX
    ssh_selinux_setfscreatecon(buf);
#endif
if (mkdir(buf, 0700) < 0)
    error("Could not create directory '%.200s'.",
        buf);
#ifdef WITH_SELINUX
    ssh_selinux_setfscreatecon(NULL);
#endif
}
}
/* load options.identity_files */
load_public_identity_files();

/* Expand ~ in known host file names. */
tilde_expand_paths(options.system_hostfiles,
    options.num_system_hostfiles);
tilde_expand_paths(options.user_hostfiles, options.num_user_hostfiles);

signal(SIGPIPE, SIG_IGN); /* ignore SIGPIPE early */
signal(SIGCHLD, main_sigchld_handler);

/* Log into the remote system. Never returns if the login fails. */
ssh_login(&sensitive_data, host, (struct sockaddr *)&hostaddr,
    options.port, pw, timeout_ms);

if (packet_connection_is_on_socket()) {
    verbose("Authenticated to %s ([%s]:%d).", host,
        get_remote_ipaddr(), get_remote_port());
} else {
    verbose("Authenticated to %s (via proxy).", host);
}

/* We no longer need the private host keys. Clear them now. */
if (sensitive_data.nkeys != 0) {
    for (i = 0; i < sensitive_data.nkeys; i++) {
        if (sensitive_data.keys[i] != NULL) {
            /* Destroys contents safely */
            debug3("clear hostkey %d", i);
            key_free(sensitive_data.keys[i]);
            sensitive_data.keys[i] = NULL;
        }
    }
    free(sensitive_data.keys);
}
for (i = 0; i < options.num_identity_files; i++) {

```

```

free(options.identity_files[i]);
options.identity_files[i] = NULL;
if (options.identity_keys[i]) {
    key_free(options.identity_keys[i]);
    options.identity_keys[i] = NULL;
}
}
for (i = 0; i < options.num_certificate_files; i++) {
    free(options.certificate_files[i]);
    options.certificate_files[i] = NULL;
}

exit_status = compat20 ? ssh_session2() : ssh_session();
packet_close();

if (options.control_path != NULL && muxserver_sock != -1)
    unlink(options.control_path);

/* Kill ProxyCommand if it is running. */
ssh_kill_proxy_command();

return exit_status;
}

static void
control_persist_detach(void)
{
    pid_t pid;
    int devnull;

    debug("%s: backgrounding master process", __func__);

    /*
     * master (current process) into the background, and make the
     * foreground process a client of the backgrounded master.
     */
    switch ((pid = fork())) {
    case -1:
        fatal("%s: fork: %s", __func__, strerror(errno));
    case 0:
        /* Child: master process continues mainloop */
        break;
    default:
        /* Parent: set up mux slave to connect to backgrounded master */
        debug2("%s: background process is %ld", __func__, (long)pid);
        stdin_null_flag = ostdin_null_flag;
        options.request_tty = orequest_tty;
        tty_flag = otty_flag;
    }
}

```



```

close(muxserver_sock);
muxserver_sock = -1;
options.control_master = SSHCTL_MASTER_NO;
muxclient(options.control_path);
/* muxclient() doesn't return on success. */
fatal("Failed to connect to new control master");
}
if ((devnull = open(_PATH_DEVNULL, O_RDWR)) == -1) {
error("%s: open(\"/dev/null\"): %s", __func__,
    strerror(errno));
} else {
if (dup2(devnull, STDIN_FILENO) == -1 ||
    dup2(devnull, STDOUT_FILENO) == -1)
error("%s: dup2: %s", __func__, strerror(errno));
if (devnull > STDERR_FILENO)
close(devnull);
}
daemon(1, 1);
setproctitle("%s [mux]", options.control_path);
}

/* Do fork() after authentication. Used by "ssh -f" */
static void
fork_postauth(void)
{
if (need_controlpersist_detach)
control_persist_detach();
debug("forking to background");
fork_after_authentication_flag = 0;
if (daemon(1, 1) < 0)
fatal("daemon() failed: %.200s", strerror(errno));
}

/* Callback for remote forward global requests */
static void
ssh_confirm_remote_forward(int type, u_int32_t seq, void *ctxt)
{
struct Forward *rfwd = (struct Forward *)ctxt;

/* XXX verbose() on failure? */
debug("remote forward %s for: listen %s%s%d, connect %s:%d",
    type == SSH2_MSG_REQUEST_SUCCESS ? "success" : "failure",
    rfwd->listen_path ? rfwd->listen_path :
    rfwd->listen_host ? rfwd->listen_host : "",
    (rfwd->listen_path || rfwd->listen_host) ? ":" : "",
    rfwd->listen_port, rfwd->connect_path ? rfwd->connect_path :
    rfwd->connect_host, rfwd->connect_port);
if (rfwd->listen_path == NULL && rfwd->listen_port == 0) {

```

```

if (type == SSH2_MSG_REQUEST_SUCCESS) {
    rfwd->allocated_port = packet_get_int();
    logit("Allocated port %u for remote forward to %s:%d",
        rfwd->allocated_port,
        rfwd->connect_host, rfwd->connect_port);
    channel_update_permitted_opens(rfwd->handle,
        rfwd->allocated_port);
} else {
    channel_update_permitted_opens(rfwd->handle, -1);
}
}

if (type == SSH2_MSG_REQUEST_FAILURE) {
    if (options.exit_on_forward_failure) {
        if (rfwd->listen_path != NULL)
            fatal("Error: remote port forwarding failed "
                "for listen path %s", rfwd->listen_path);
        else
            fatal("Error: remote port forwarding failed "
                "for listen port %d", rfwd->listen_port);
    } else {
        if (rfwd->listen_path != NULL)
            logit("Warning: remote port forwarding failed "
                "for listen path %s", rfwd->listen_path);
        else
            logit("Warning: remote port forwarding failed "
                "for listen port %d", rfwd->listen_port);
    }
}
}

if (++remote_forward_confirms_received == options.num_remote_forwards) {
    debug("All remote forwarding requests processed");
    if (fork_after_authentication_flag)
        fork_postauth();
}
}

```

```

static void
client_cleanup_stdio_fwd(int id, void *arg)
{
    debug("stdio forwarding: done");
    cleanup_exit(0);
}

```

```

static void
ssh_stdio_confirm(int id, int success, void *arg)
{
    if (!success)
        fatal("stdio forwarding failed");
}

```

```

}

static void
ssh_init_stdio_forwarding(void)
{
    Channel *c;
    int in, out;

    if (stdio_forward_host == NULL)
        return;
    if (!compat20)
        fatal("stdio forwarding require Protocol 2");

    debug3("%s: %s:%d", __func__, stdio_forward_host, stdio_forward_port);

    if ((in = dup(STDIN_FILENO)) < 0 ||
        (out = dup(STDOUT_FILENO)) < 0)
        fatal("channel_connect_stdio_fwd: dup() in/out failed");
    if ((c = channel_connect_stdio_fwd(stdio_forward_host,
        stdio_forward_port, in, out)) == NULL)
        fatal("%s: channel_connect_stdio_fwd failed", __func__);
    channel_register_cleanup(c->self, client_cleanup_stdio_fwd, 0);
    channel_register_open_confirm(c->self, ssh_stdio_confirm, NULL);
}

static void
ssh_init_forwarding(void)
{
    int success = 0;
    int i;

    /* Initiate local TCP/IP port forwardings. */
    for (i = 0; i < options.num_local_forwards; i++) {
        debug("Local connections to %.200s:%d forwarded to remote "
            "address %.200s:%d",
            (options.local_forwards[i].listen_path != NULL) ?
            options.local_forwards[i].listen_path :
            (options.local_forwards[i].listen_host == NULL) ?
            (options.fwd_opts.gateway_ports ? "*" : "LOCALHOST") :
            options.local_forwards[i].listen_host,
            options.local_forwards[i].listen_port,
            (options.local_forwards[i].connect_path != NULL) ?
            options.local_forwards[i].connect_path :
            options.local_forwards[i].connect_host,
            options.local_forwards[i].connect_port);
        success += channel_setup_local_fwd_listener(
            &options.local_forwards[i], &options.fwd_opts);
    }
}

```

```

if (i > 0 && success != i && options.exit_on_forward_failure)
    fatal("Could not request local forwarding.");
if (i > 0 && success == 0)
    error("Could not request local forwarding.");

/* Initiate remote TCP/IP port forwardings. */
for (i = 0; i < options.num_remote_forwards; i++) {
    debug("Remote connections from %.200s:%d forwarded to "
        "local address %.200s:%d",
        (options.remote_forwards[i].listen_path != NULL) ?
        options.remote_forwards[i].listen_path :
        (options.remote_forwards[i].listen_host == NULL) ?
        "LOCALHOST" : options.remote_forwards[i].listen_host,
        options.remote_forwards[i].listen_port,
        (options.remote_forwards[i].connect_path != NULL) ?
        options.remote_forwards[i].connect_path :
        options.remote_forwards[i].connect_host,
        options.remote_forwards[i].connect_port);
    options.remote_forwards[i].handle =
        channel_request_remote_forwarding(
            &options.remote_forwards[i]);
    if (options.remote_forwards[i].handle < 0) {
        if (options.exit_on_forward_failure)
            fatal("Could not request remote forwarding.");
        else
            logit("Warning: Could not request remote "
                "forwarding.");
    } else {
        client_register_global_confirm(ssh_confirm_remote_forward,
            &options.remote_forwards[i]);
    }
}

/* Initiate tunnel forwarding. */
if (options.tun_open != SSH_TUNMODE_NO) {
    if (client_request_tun_fwd(options.tun_open,
        options.tun_local, options.tun_remote) == -1) {
        if (options.exit_on_forward_failure)
            fatal("Could not request tunnel forwarding.");
        else
            error("Could not request tunnel forwarding.");
    }
}

static void
check_agent_present(void)
{

```

```

int r;

if (options.forward_agent) {
    /* Clear agent forwarding if we don't have an agent. */
    if ((r = ssh_get_authentication_socket(NULL)) != 0) {
        options.forward_agent = 0;
        if (r != SSH_ERR_AGENT_NOT_PRESENT)
            debug("ssh_get_authentication_socket: %s",
                ssh_err(r));
    }
}

static int
ssh_session(void)
{
    int type;
    int interactive = 0;
    int have_tty = 0;
    struct winsize ws;
    char *cp;
    const char *display;
    char *proto = NULL, *data = NULL;

    /* Enable compression if requested. */
    if (options.compression) {
        debug("Requesting compression at level %d.",
            options.compression_level);

        if (options.compression_level < 1 ||
            options.compression_level > 9)
            fatal("Compression level must be from 1 (fast) to "
                "9 (slow, best).");

        /* Send the request. */
        packet_start(SSH_CMSG_REQUEST_COMPRESSION);
        packet_put_int(options.compression_level);
        packet_send();
        packet_write_wait();
        type = packet_read();
        if (type == SSH_SMSG_SUCCESS)
            packet_start_compression(options.compression_level);
        else if (type == SSH_SMSG_FAILURE)
            logit("Warning: Remote host refused compression.");
        else
            packet_disconnect("Protocol error waiting for "
                "compression response.");
    }
}

```

```

/* Allocate a pseudo tty if appropriate. */
if (tty_flag) {
    debug("Requesting pty.");

    /* Start the packet. */
    packet_start(SSH_CMSG_REQUEST_PTY);

    /* Store TERM in the packet. There is no limit on the
       length of the string. */
    cp = getenv("TERM");
    if (!cp)
        cp = "";
    packet_put_cstring(cp);

    /* Store window size in the packet. */
    if (ioctl(fileno(stdin), TIOCGWINSZ, &ws) < 0)
        memset(&ws, 0, sizeof(ws));
    packet_put_int((u_int)ws.ws_row);
    packet_put_int((u_int)ws.ws_col);
    packet_put_int((u_int)ws.ws_xpixel);
    packet_put_int((u_int)ws.ws_ypixel);

    /* Store tty modes in the packet. */
    tty_make_modes(fileno(stdin), NULL);

    /* Send the packet, and wait for it to leave. */
    packet_send();
    packet_write_wait();

    /* Read response from the server. */
    type = packet_read();
    if (type == SSH_SMSG_SUCCESS) {
        interactive = 1;
        have_tty = 1;
    } else if (type == SSH_SMSG_FAILURE)
        logit("Warning: Remote host failed or refused to "
            "allocate a pseudo tty.");
    else
        packet_disconnect("Protocol error waiting for pty "
            "request response.");
}

/* Request X11 forwarding if enabled and DISPLAY is set. */
display = getenv("DISPLAY");
if (display == NULL && options.forward_x11)
    debug("X11 forwarding requested but DISPLAY not set");
if (options.forward_x11 && client_x11_get_proto(display,
    options.xauth_location, options.forward_x11_trusted,
    options.forward_x11_timeout, &proto, &data) == 0) {

```

```

/* Request forwarding with authentication spoofing. */
debug("Requesting X11 forwarding with authentication "
      "spoofing.");
x11_request_forwarding_with_spoofing(0, display, proto,
      data, 0);
/* Read response from the server. */
type = packet_read();
if (type == SSH_MSG_SUCCESS) {
    interactive = 1;
} else if (type == SSH_MSG_FAILURE) {
    logit("Warning: Remote host denied X11 forwarding.");
} else {
    packet_disconnect("Protocol error waiting for X11 "
        "forwarding");
}
}
/* Tell the packet module whether this is an interactive session. */
packet_set_interactive(interactive,
    options.ip_qos_interactive, options.ip_qos_bulk);

/* Request authentication agent forwarding if appropriate. */
check_agent_present();

if (options.forward_agent) {
    debug("Requesting authentication agent forwarding.");
    auth_request_forwarding();

    /* Read response from the server. */
    type = packet_read();
    packet_check_eom();
    if (type != SSH_MSG_SUCCESS)
        logit("Warning: Remote host denied authentication agent forwarding.");
}

/* Initiate port forwardings. */
ssh_init_stdio_forwarding();
ssh_init_forwarding();

/* Execute a local command */
if (options.local_command != NULL &&
    options.permit_local_command)
    ssh_local_cmd(options.local_command);

/*
 * If requested and we are not interested in replies to remote
 * forwarding requests, then let ssh continue in the background.
 */
if (fork_after_authentication_flag) {

```

```

if (options.exit_on_forward_failure &&
    options.num_remote_forwards > 0) {
    debug("deferring postauth fork until remote forward "
        "confirmation received");
} else
    fork_postauth();
}

/*
 * If a command was specified on the command line, execute the
 * command now. Otherwise request the server to start a shell.
 */
if (buffer_len(&command) > 0) {
    int len = buffer_len(&command);
    if (len > 900)
        len = 900;
    debug("Sending command: %.*s", len,
        (u_char *)buffer_ptr(&command));
    packet_start(SSH_CMSG_EXEC_CMD);
    packet_put_string(buffer_ptr(&command), buffer_len(&command));
    packet_send();
    packet_write_wait();
} else {
    debug("Requesting shell.");
    packet_start(SSH_CMSG_EXEC_SHELL);
    packet_send();
    packet_write_wait();
}

/* Enter the interactive session. */
return client_loop(have_tty, tty_flag ?
    options.escape_char : SSH_ESCAPECHAR_NONE, 0);
}

/* request pty/x11/agent/tcpfd/shell for channel */
static void
ssh_session2_setup(int id, int success, void *arg)
{
    extern char **environ;
    const char *display;
    int interactive = tty_flag;
    char *proto = NULL, *data = NULL;

    if (!success)
        return; /* No need for error message, channels code sens one */

    display = getenv("DISPLAY");
    if (display == NULL && options.forward_x11)

```



```

debug("X11 forwarding requested but DISPLAY not set");
if (options.forward_x11 && client_x11_get_proto(display,
    options.xauth_location, options.forward_x11_trusted,
    options.forward_x11_timeout, &proto, &data) == 0) {
    /* Request forwarding with authentication spoofing. */
    debug("Requesting X11 forwarding with authentication "
        "spoofing.");
    x11_request_forwarding_with_spoofing(id, display, proto,
        data, 1);
    client_expect_confirm(id, "X11 forwarding", CONFIRM_WARN);
    /* XXX exit_on_forward_failure */
    interactive = 1;
}

check_agent_present();
if (options.forward_agent) {
    debug("Requesting authentication agent forwarding.");
    channel_request_start(id, "auth-agent-req@openssh.com", 0);
    packet_send();
}

/* Tell the packet module whether this is an interactive session. */
packet_set_interactive(interactive,
    options.ip_qos_interactive, options.ip_qos_bulk);

client_session2_setup(id, tty_flag, subsystem_flag, getenv("TERM"),
    NULL, fileno(stdin), &command, environ);
}

/* open new channel for a session */
static int
ssh_session2_open(void)
{
    Channel *c;
    int window, packetmax, in, out, err;

    if (stdin_null_flag) {
        in = open(_PATH_DEVNULL, O_RDONLY);
    } else {
        in = dup(STDIN_FILENO);
    }
    out = dup(STDOUT_FILENO);
    err = dup(STDERR_FILENO);

    if (in < 0 || out < 0 || err < 0)
        fatal("dup() in/out/err failed");

    /* enable nonblocking unless tty */

```

```

if (!isatty(in))
    set_nonblock(in);
if (!isatty(out))
    set_nonblock(out);
if (!isatty(err))
    set_nonblock(err);

window = CHAN_SES_WINDOW_DEFAULT;
packetmax = CHAN_SES_PACKET_DEFAULT;
if (tty_flag) {
    window >>= 1;
    packetmax >>= 1;
}
c = channel_new(
    "session", SSH_CHANNEL_OPENING, in, out, err,
    window, packetmax, CHAN_EXTENDED_WRITE,
    "client-session", /*nonblock*/0);

debug3("ssh_session2_open: channel_new: %d", c->self);

channel_send_open(c->self);
if (!no_shell_flag)
    channel_register_open_confirm(c->self,
        ssh_session2_setup, NULL);

return c->self;
}

static int
ssh_session2(void)
{
    int id = -1;

    /* XXX should be pre-session */
    if (!options.control_persist)
        ssh_init_stdio_forwarding();
    ssh_init_forwarding();

    /* Start listening for multiplex clients */
    muxserver_listen();

    /*
     * If we are in control persist mode and have a working mux listen
     * socket, then prepare to background ourselves and have a foreground
     * client attach as a control slave.
     * NB. we must save copies of the flags that we override for
     * the backgrounding, since we defer attachment of the slave until
     * after the connection is fully established (in particular,

```

```

* async r fwd replies have been received for ExitOnForwardFailure).
*/
if (options.control_persist && muxserver_sock != -1) {
    stdin_null_flag = stdin_null_flag;
    ono_shell_flag = no_shell_flag;
    orequest_tty = options.request_tty;
    otty_flag = tty_flag;
    stdin_null_flag = 1;
    no_shell_flag = 1;
    tty_flag = 0;
    if (!fork_after_authentication_flag)
        need_controlpersist_detach = 1;
    fork_after_authentication_flag = 1;
}
/*
* ControlPersist mux listen socket setup failed, attempt the
* stdio forward setup that we skipped earlier.
*/
if (options.control_persist && muxserver_sock == -1)
    ssh_init_stdio_forwarding();

if (!no_shell_flag || (datafellows & SSH_BUG_DUMMYCHAN))
    id = ssh_session2_open();
else {
    packet_set_interactive(
        options.control_master == SSHCTL_MASTER_NO,
        options.ip_qos_interactive, options.ip_qos_bulk);
}

/* If we don't expect to open a new session, then disallow it */
if (options.control_master == SSHCTL_MASTER_NO &&
    (datafellows & SSH_NEW_OPENSSSH)) {
    debug("Requesting no-more-sessions@openssh.com");
    packet_start(SSH2_MSG_GLOBAL_REQUEST);
    packet_put_cstring("no-more-sessions@openssh.com");
    packet_put_char(0);
    packet_send();
}

/* Execute a local command */
if (options.local_command != NULL &&
    options.permit_local_command)
    ssh_local_cmd(options.local_command);

/*
* If requested and we are not interested in replies to remote
* forwarding requests, then let ssh continue in the background.
*/

```

```

if (fork_after_authentication_flag) {
    if (options.exit_on_forward_failure &&
        options.num_remote_forwards > 0) {
        debug("deferring postauth fork until remote forward "
            "confirmation received");
    } else
        fork_postauth();
}

return client_loop(tty_flag, tty_flag ?
    options.escape_char : SSH_ESCAPECHAR_NONE, id);
}

/* Loads all IdentityFile and CertificateFile keys */
static void
load_public_identity_files(void)
{
    char *filename, *cp, thishost[NI_MAXHOST];
    char *pwwdir = NULL, *pwwname = NULL;
    Key *public;
    struct passwd *pw;
    int i;
    u_int n_ids, n_certs;
    char *identity_files[SSH_MAX_IDENTITY_FILES];
    Key *identity_keys[SSH_MAX_IDENTITY_FILES];
    char *certificate_files[SSH_MAX_CERTIFICATE_FILES];
    struct sshkey *certificates[SSH_MAX_CERTIFICATE_FILES];
#ifdef ENABLE_PKCS11
    Key **keys;
    int nkeys;
#endif /* PKCS11 */

    n_ids = n_certs = 0;
    memset(identity_files, 0, sizeof(identity_files));
    memset(identity_keys, 0, sizeof(identity_keys));
    memset(certificate_files, 0, sizeof(certificate_files));
    memset(certificates, 0, sizeof(certificates));

#ifdef ENABLE_PKCS11
    if (options.pkcs11_provider != NULL &&
        options.num_identity_files < SSH_MAX_IDENTITY_FILES &&
        (pkcs11_init(!options.batch_mode) == 0) &&
        (nkeys = pkcs11_add_provider(options.pkcs11_provider, NULL,
            &keys)) > 0) {
        for (i = 0; i < nkeys; i++) {
            if (n_ids >= SSH_MAX_IDENTITY_FILES) {
                key_free(keys[i]);
                continue;
            }

```

```

}
identity_keys[n_ids] = keys[i];
identity_files[n_ids] =
    xstrdup(options.pkcs11_provider); /* XXX */
n_ids++;
}
free(keys);
}
#endif /* ENABLE_PKCS11 */
if ((pw = getpwuid(original_real_uid)) == NULL)
    fatal("load_public_identity_files: getpwuid failed");
pwname = xstrdup(pw->pw_name);
pwwdir = xstrdup(pw->pw_dir);
if (gethostname(thishost, sizeof(thishost)) == -1)
    fatal("load_public_identity_files: gethostname: %s",
        strerror(errno));
for (i = 0; i < options.num_identity_files; i++) {
    if (n_ids >= SSH_MAX_IDENTITY_FILES ||
        strcasecmp(options.identity_files[i], "none") == 0) {
        free(options.identity_files[i]);
        options.identity_files[i] = NULL;
        continue;
    }
    cp = tilde_expand_filename(options.identity_files[i],
        original_real_uid);
    filename = percent_expand(cp, "d", pwwdir,
        "u", pwname, "l", thishost, "h", host,
        "r", options.user, (char *)NULL);
    free(cp);
    public = key_load_public(filename, NULL);
    debug("identity file %s type %d", filename,
        public ? public->type : -1);
    free(options.identity_files[i]);
    identity_files[n_ids] = filename;
    identity_keys[n_ids] = public;

    if (++n_ids >= SSH_MAX_IDENTITY_FILES)
        continue;

    /*
     * If no certificates have been explicitly listed then try
     * to add the default certificate variant too.
     */
    if (options.num_certificate_files != 0)
        continue;
    xasprintf(&cp, "%s-cert", filename);
    public = key_load_public(cp, NULL);
    debug("identity file %s type %d", cp,

```

```

    public ? public->type : -1);
if (public == NULL) {
    free(cp);
    continue;
}
if (!key_is_cert(public)) {
    debug("%s: key %s type %s is not a certificate",
        __func__, cp, key_type(public));
    key_free(public);
    free(cp);
    continue;
}
identity_keys[n_ids] = public;
identity_files[n_ids] = cp;
n_ids++;
}

if (options.num_certificate_files > SSH_MAX_CERTIFICATE_FILES)
    fatal("%s: too many certificates", __func__);
for (i = 0; i < options.num_certificate_files; i++) {
    cp = tilde_expand_filename(options.certificate_files[i],
        original_real_uid);
    filename = percent_expand(cp, "d", pwdir,
        "u", pwname, "l", thishost, "h", host,
        "r", options.user, (char *)NULL);
    free(cp);

    public = key_load_public(filename, NULL);
    debug("certificate file %s type %d", filename,
        public ? public->type : -1);
    free(options.certificate_files[i]);
    options.certificate_files[i] = NULL;
    if (public == NULL) {
        free(filename);
        continue;
    }
    if (!key_is_cert(public)) {
        debug("%s: key %s type %s is not a certificate",
            __func__, filename, key_type(public));
        key_free(public);
        free(filename);
        continue;
    }
    certificate_files[n_certs] = filename;
    certificates[n_certs] = public;
    ++n_certs;
}

```

```

options.num_identity_files = n_ids;
memcpy(options.identity_files, identity_files, sizeof(identity_files));
memcpy(options.identity_keys, identity_keys, sizeof(identity_keys));

options.num_certificate_files = n_certs;
memcpy(options.certificate_files,
        certificate_files, sizeof(certificate_files));
memcpy(options.certificates, certificates, sizeof(certificates));

explicit_bzero(pwname, strlen(pwname));
free(pwname);
explicit_bzero(pwdir, strlen(pwdir));
free(pwdir);
}

static void
main_sigchld_handler(int sig)
{
    int save_errno = errno;
    pid_t pid;
    int status;

    while ((pid = waitpid(-1, &status, WNOHANG)) > 0 ||
           (pid < 0 && errno == EINTR))
        ;

    signal(sig, main_sigchld_handler);
    errno = save_errno;
}
/* $OpenBSD: ssh.h,v 1.83 2015/12/11 03:19:09 djm Exp $ */

/*
 * Author: Tatu Ylonen <ylo@cs.hut.fi>
 * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
 * All rights reserved
 *
 * As far as I am concerned, the code I have written for this software
 * can be used freely for any purpose. Any derived versions of this
 * software must be clearly marked as such, and if the derived work is
 * incompatible with the protocol description in the RFC file, it must be
 * called by a name other than "ssh" or "Secure Shell".
 */

/* Cipher used for encrypting authentication files. */
#define SSH_AUTHFILE_CIPHER SSH_CIPHER_3DES

/* Default port number. */
#define SSH_DEFAULT_PORT 22

```

```

/*
* Maximum number of certificate files that can be specified
* in configuration files or on the command line.
*/
#define SSH_MAX_CERTIFICATE_FILES 100

/*
* Maximum number of RSA authentication identity files that can be specified
* in configuration files or on the command line.
*/
#define SSH_MAX_IDENTITY_FILES 100

/*
* Maximum length of lines in authorized_keys file.
* Current value permits 16kbit RSA and RSA1 keys and 8kbit DSA keys, with
* some room for options and comments.
*/
#define SSH_MAX_PUBKEY_BYTES 16384

/*
* Major protocol version. Different version indicates major incompatibility
* that prevents communication.
*
* Minor protocol version. Different version indicates minor incompatibility
* that does not prevent interoperation.
*/
#define PROTOCOL_MAJOR_1 1
#define PROTOCOL_MINOR_1 5

/* We support both SSH1 and SSH2 */
#define PROTOCOL_MAJOR_2 2
#define PROTOCOL_MINOR_2 0

/*
* Name for the service. The port named by this service overrides the
* default port if present.
*/
#define SSH_SERVICE_NAME "ssh"

/*
* Name of the environment variable containing the process ID of the
* authentication agent.
*/
#define SSH_AGENTPID_ENV_NAME "SSH_AGENT_PID"

/*
* Name of the environment variable containing the pathname of the

```



```

* authentication socket.
*/
#define SSH_AUTHSOCKET_ENV_NAME "SSH_AUTH_SOCKET"

/*
* Environment variable for overwriting the default location of askpass
*/
#define SSH_ASKPASS_ENV "SSH_ASKPASS"

/*
* Force host key length and server key length to differ by at least this
* many bits. This is to make double encryption with rsaref work.
*/
#define SSH_KEY_BITS_RESERVED 128

/*
* Length of the session key in bytes. (Specified as 256 bits in the
* protocol.)
*/
#define SSH_SESSION_KEY_LENGTH 32

/* Used to identify ``EscapeChar none" */
#define SSH_ESCAPECHAR_NONE -2

/*
* unprivileged user when UsePrivilegeSeparation=yes;
* sshd will change its privileges to this user and its
* primary group.
*/
#ifndef SSH_PRIVSEP_USER
#define SSH_PRIVSEP_USER "sshd"
#endif

/* Minimum modulus size (n) for RSA keys. */
#define SSH_RSA_MINIMUM_MODULUS_SIZE 768

/* Listen backlog for sshd, ssh-agent and forwarding sockets */
#define SSH_LISTEN_BACKLOG 128
/* $OpenBSD: ssh1.h,v 1.6 2006/03/25 22:22:43 djm Exp $ */

/*
* Author: Tatu Ylonen <ylo@cs.hut.fi>
* Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
* All rights reserved
*
* As far as I am concerned, the code I have written for this software
* can be used freely for any purpose. Any derived versions of this
* software must be clearly marked as such, and if the derived work is

```

\* incompatible with the protocol description in the RFC file, it must be

\* called by a name other than "ssh" or "Secure Shell".

\*/

/\*

\* Definition of message types. New values can be added, but old values

\* should not be removed or without careful consideration of the consequences

\* for compatibility. The maximum value is 254; value 255 is reserved for

\* future extension.

\*/

/\* Ranges \*/

#define SSH\_MSG\_MIN 1

#define SSH\_MSG\_MAX 254

/\* Message name \*/ /\* msg code \*/ /\* arguments \*/

#define SSH\_MSG\_NONE 0 /\* no message \*/

#define SSH\_MSG\_DISCONNECT 1 /\* cause (string) \*/

#define SSH\_SMSG\_PUBLIC\_KEY 2 /\* ck,msk,srvk,hostk \*/

#define SSH\_CMSG\_SESSION\_KEY 3 /\* key (BIGNUM) \*/

#define SSH\_CMSG\_USER 4 /\* user (string) \*/

#define SSH\_CMSG\_AUTH\_RHOSTS 5 /\* user (string) \*/

#define SSH\_CMSG\_AUTH\_RSA 6 /\* modulus (BIGNUM) \*/

#define SSH\_SMSG\_AUTH\_RSA\_CHALLENGE 7 /\* int (BIGNUM) \*/

#define SSH\_CMSG\_AUTH\_RSA\_RESPONSE 8 /\* int (BIGNUM) \*/

#define SSH\_CMSG\_AUTH\_PASSWORD 9 /\* pass (string) \*/

#define SSH\_CMSG\_REQUEST\_PTY 10 /\* TERM, tty modes \*/

#define SSH\_CMSG\_WINDOW\_SIZE 11 /\* row,col,ypix,ypix \*/

#define SSH\_CMSG\_EXEC\_SHELL 12 /\* \*/

#define SSH\_CMSG\_EXEC\_CMD 13 /\* cmd (string) \*/

#define SSH\_SMSG\_SUCCESS 14 /\* \*/

#define SSH\_SMSG\_FAILURE 15 /\* \*/

#define SSH\_CMSG\_STDIN\_DATA 16 /\* data (string) \*/

#define SSH\_SMSG\_STDOUT\_DATA 17 /\* data (string) \*/

#define SSH\_SMSG\_STDERR\_DATA 18 /\* data (string) \*/

#define SSH\_CMSG\_EOF 19 /\* \*/

#define SSH\_SMSG\_EXITSTATUS 20 /\* status (int) \*/

#define SSH\_MSG\_CHANNEL\_OPEN\_CONFIRMATION 21 /\* channel (int) \*/

#define SSH\_MSG\_CHANNEL\_OPEN\_FAILURE 22 /\* channel (int) \*/

#define SSH\_MSG\_CHANNEL\_DATA 23 /\* ch,data (int,str) \*/

#define SSH\_MSG\_CHANNEL\_CLOSE 24 /\* channel (int) \*/

#define SSH\_MSG\_CHANNEL\_CLOSE\_CONFIRMATION 25 /\* channel (int) \*/

/\* SSH\_CMSG\_X11\_REQUEST\_FORWARDING 26 OBSOLETE \*/

#define SSH\_SMSG\_X11\_OPEN 27 /\* channel (int) \*/

#define SSH\_CMSG\_PORT\_FORWARD\_REQUEST 28 /\* p,host,hp (i,s,i) \*/

#define SSH\_MSG\_PORT\_OPEN 29 /\* ch,h,p (i,s,i) \*/

#define SSH\_CMSG\_AGENT\_REQUEST\_FORWARDING 30 /\* \*/

#define SSH\_SMSG\_AGENT\_OPEN 31 /\* port (int) \*/

#define SSH\_MSG\_IGNORE 32 /\* string \*/

#define SSH\_CMSG\_EXIT\_CONFIRMATION 33 /\* \*/

```

#define SSH_CMSG_X11_REQUEST_FORWARDING 34 /* proto,data (s,s) */
#define SSH_CMSG_AUTH_RHOSTS_RSA 35 /* user,mod (s,mpi) */
#define SSH_MSG_DEBUG 36 /* string */
#define SSH_CMSG_REQUEST_COMPRESSION 37 /* level 1-9 (int) */
#define SSH_CMSG_MAX_PACKET_SIZE 38 /* size 4k-1024k (int) */
#define SSH_CMSG_AUTH_TIS 39 /* we use this for s/key */
#define SSH_SMSG_AUTH_TIS_CHALLENGE 40 /* challenge (string) */
#define SSH_CMSG_AUTH_TIS_RESPONSE 41 /* response (string) */
#define SSH_CMSG_AUTH_KERBEROS 42 /* (KTEXT) */
#define SSH_SMSG_AUTH_KERBEROS_RESPONSE 43 /* (KTEXT) */
#define SSH_CMSG_HAVE_KERBEROS_TGT 44 /* credentials (s) */
#define SSH_CMSG_HAVE_AFS_TOKEN 65 /* token (s) */

/* protocol version 1.5 overloads some version 1.3 message types */
#define SSH_MSG_CHANNEL_INPUT_EOF SSH_MSG_CHANNEL_CLOSE
#define SSH_MSG_CHANNEL_OUTPUT_CLOSE SSH_MSG_CHANNEL_CLOSE_CONFIRMATION

/*
 * Authentication methods. New types can be added, but old types should not
 * be removed for compatibility. The maximum allowed value is 31.
 */
#define SSH_AUTH_RHOSTS 1
#define SSH_AUTH_RSA 2
#define SSH_AUTH_PASSWORD 3
#define SSH_AUTH_RHOSTS_RSA 4
#define SSH_AUTH_TIS 5
#define SSH_AUTH_KERBEROS 6
#define SSH_PASS_KERBEROS_TGT 7
    /* 8 to 15 are reserved */
#define SSH_PASS_AFS_TOKEN 21

/* Protocol flags. These are bit masks. */
#define SSH_PROTOFLAG_SCREEN_NUMBER 1 /* X11 forwarding includes screen */
#define SSH_PROTOFLAG_HOST_IN_FWD_OPEN 2 /* forwarding opens contain host */
/* $OpenBSD: ssh2.h,v 1.17 2016/01/14 16:17:40 markus Exp $ */

/*
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 *
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 * modification, are permitted provided that the following conditions
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 */

```

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\* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*/

/\*

\* draft-ietf-secsh-architecture-05.txt

\*

\* Transport layer protocol:

\*

\* 1-19 Transport layer generic (e.g. disconnect, ignore, debug,  
\* etc)

\* 20-29 Algorithm negotiation

\* 30-49 Key exchange method specific (numbers can be reused for  
\* different authentication methods)

\*

\* User authentication protocol:

\*

\* 50-59 User authentication generic

\* 60-79 User authentication method specific (numbers can be reused  
\* for different authentication methods)

\*

\* Connection protocol:

\*

\* 80-89 Connection protocol generic

\* 90-127 Channel related messages

\*

\* Reserved for client protocols:

\*

\* 128-191 Reserved

\*

\* Local extensions:

\*

\* 192-255 Local extensions

\*/

/\* ranges \*/

#define SSH2\_MSG\_TRANSPORT\_MIN 1

#define SSH2\_MSG\_TRANSPORT\_MAX 49

#define SSH2\_MSG\_USERAUTH\_MIN 50

```
#define SSH2_MSG_USERAUTH_MAX 79
#define SSH2_MSG_USERAUTH_PER_METHOD_MIN 60
#define SSH2_MSG_USERAUTH_PER_METHOD_MAX SSH2_MSG_USERAUTH_MAX
#define SSH2_MSG_CONNECTION_MIN 80
#define SSH2_MSG_CONNECTION_MAX 127
#define SSH2_MSG_RESERVED_MIN 128
#define SSH2_MSG_RESERVED_MAX 191
#define SSH2_MSG_LOCAL_MIN 192
#define SSH2_MSG_LOCAL_MAX 255
#define SSH2_MSG_MIN 1
#define SSH2_MSG_MAX 255
```

```
/* transport layer: generic */
```

```
#define SSH2_MSG_DISCONNECT 1
#define SSH2_MSG_IGNORE 2
#define SSH2_MSG_UNIMPLEMENTED 3
#define SSH2_MSG_DEBUG 4
#define SSH2_MSG_SERVICE_REQUEST 5
#define SSH2_MSG_SERVICE_ACCEPT 6
#define SSH2_MSG_EXT_INFO 7
```

```
/* transport layer: alg negotiation */
```

```
#define SSH2_MSG_KEXINIT 20
#define SSH2_MSG_NEWKEYS 21
```

```
/* transport layer: kex specific messages, can be reused */
```

```
#define SSH2_MSG_KEXDH_INIT 30
#define SSH2_MSG_KEXDH_REPLY 31
```

```
/* dh-group-exchange */
```

```
#define SSH2_MSG_KEX_DH_GEX_REQUEST_OLD 30
#define SSH2_MSG_KEX_DH_GEX_GROUP 31
#define SSH2_MSG_KEX_DH_GEX_INIT 32
#define SSH2_MSG_KEX_DH_GEX_REPLY 33
#define SSH2_MSG_KEX_DH_GEX_REQUEST 34
```

```
/* ecdh */
```

```
#define SSH2_MSG_KEX_ECDH_INIT 30
#define SSH2_MSG_KEX_ECDH_REPLY 31
```

```
/* user authentication: generic */
```

```
#define SSH2_MSG_USERAUTH_REQUEST 50
#define SSH2_MSG_USERAUTH_FAILURE 51
#define SSH2_MSG_USERAUTH_SUCCESS 52
```

```

#define SSH2_MSG_USERAUTH_BANNER 53

/* user authentication: method specific, can be reused */

#define SSH2_MSG_USERAUTH_PK_OK 60
#define SSH2_MSG_USERAUTH_PASSWD_CHANGEREQ 60
#define SSH2_MSG_USERAUTH_INFO_REQUEST 60
#define SSH2_MSG_USERAUTH_INFO_RESPONSE 61

/* connection protocol: generic */

#define SSH2_MSG_GLOBAL_REQUEST 80
#define SSH2_MSG_REQUEST_SUCCESS 81
#define SSH2_MSG_REQUEST_FAILURE 82

/* channel related messages */

#define SSH2_MSG_CHANNEL_OPEN 90
#define SSH2_MSG_CHANNEL_OPEN_CONFIRMATION 91
#define SSH2_MSG_CHANNEL_OPEN_FAILURE 92
#define SSH2_MSG_CHANNEL_WINDOW_ADJUST 93
#define SSH2_MSG_CHANNEL_DATA 94
#define SSH2_MSG_CHANNEL_EXTENDED_DATA 95
#define SSH2_MSG_CHANNEL_EOF 96
#define SSH2_MSG_CHANNEL_CLOSE 97
#define SSH2_MSG_CHANNEL_REQUEST 98
#define SSH2_MSG_CHANNEL_SUCCESS 99
#define SSH2_MSG_CHANNEL_FAILURE 100

/* disconnect reason code */

#define SSH2_DISCONNECT_HOST_NOT_ALLOWED_TO_CONNECT 1
#define SSH2_DISCONNECT_PROTOCOL_ERROR 2
#define SSH2_DISCONNECT_KEY_EXCHANGE_FAILED 3
#define SSH2_DISCONNECT_HOST_AUTHENTICATION_FAILED 4
#define SSH2_DISCONNECT_RESERVED 4
#define SSH2_DISCONNECT_MAC_ERROR 5
#define SSH2_DISCONNECT_COMPRESSION_ERROR 6
#define SSH2_DISCONNECT_SERVICE_NOT_AVAILABLE 7
#define SSH2_DISCONNECT_PROTOCOL_VERSION_NOT_SUPPORTED 8
#define SSH2_DISCONNECT_HOST_KEY_NOT_VERIFIABLE 9
#define SSH2_DISCONNECT_CONNECTION_LOST 10
#define SSH2_DISCONNECT_BY_APPLICATION 11
#define SSH2_DISCONNECT_TOO_MANY_CONNECTIONS 12
#define SSH2_DISCONNECT_AUTH_CANCELLED_BY_USER 13
#define SSH2_DISCONNECT_NO_MORE_AUTH_METHODS_AVAILABLE 14
#define SSH2_DISCONNECT_ILLEGAL_USER_NAME 15

```

```

/* misc */

#define SSH2_OPEN_ADMINISTRATIVELY_PROHIBITED 1
#define SSH2_OPEN_CONNECT_FAILED 2
#define SSH2_OPEN_UNKNOWN_CHANNEL_TYPE 3
#define SSH2_OPEN_RESOURCE_SHORTAGE 4

#define SSH2_EXTENDED_DATA_STDERR 1

/* Certificate types for OpenSSH certificate keys extension */
#define SSH2_CERT_TYPE_USER 1
#define SSH2_CERT_TYPE_HOST 2
/* $OpenBSD: ssh_api.c,v 1.5 2015/12/04 16:41:28 markus Exp $ */
/*
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 *
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 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
 * OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

#include "includes.h"

#include "ssh1.h" /* For SSH_MSG_NONE */
#include "ssh_api.h"
#include "compat.h"
#include "log.h"
#include "authfile.h"
#include "sshkey.h"
#include "misc.h"
#include "ssh1.h"
#include "ssh2.h"
#include "version.h"
#include "myproposal.h"
#include "ssherr.h"
#include "sshbuf.h"

#include <string.h>

int _ssh_exchange_banner(struct ssh *);

```

```

int _ssh_send_banner(struct ssh *, char **);
int _ssh_read_banner(struct ssh *, char **);
int _ssh_order_hostkeyalgs(struct ssh *);
int _ssh_verify_host_key(struct sshkey *, struct ssh *);
struct sshkey *_ssh_host_public_key(int, int, struct ssh *);
struct sshkey *_ssh_host_private_key(int, int, struct ssh *);
int _ssh_host_key_sign(struct sshkey *, struct sshkey *,
    u_char **, size_t *, const u_char *, size_t, const char *, u_int);

/*
 * stubs for the server side implementation of kex.
 * disable privsep so our stubs will never be called.
 */
int use_privsep = 0;
int mm_sshkey_sign(struct sshkey *, u_char **, u_int *,
    u_char *, u_int, char *, u_int);
DH *mm_choose_dh(int, int, int);

/* Define these two variables here so that they are part of the library */
u_char *session_id2 = NULL;
u_int session_id2_len = 0;

int
mm_sshkey_sign(struct sshkey *key, u_char **sigp, u_int *lenp,
    u_char *data, u_int datalen, char *alg, u_int compat)
{
    return (-1);
}

DH *
mm_choose_dh(int min, int nbits, int max)
{
    return (NULL);
}

/* API */

int
ssh_init(struct ssh **sshp, int is_server, struct kex_params *kex_params)
{
    char *myproposal[PROPOSAL_MAX] = { KEX_CLIENT };
    struct ssh *ssh;
    char **proposal;
    static int called;
    int r;

    if (!called) {
#ifdef WITH_OPENSSL

```



```

    OpenSSL_add_all_algorithms();
#endif /* WITH_OPENSSL */
    called = 1;
}

if ((ssh = ssh_packet_set_connection(NULL, -1, -1)) == NULL)
    return SSH_ERR_ALLOC_FAIL;
if (is_server)
    ssh_packet_set_server(ssh);

/* Initialize key exchange */
proposal = kex_params ? kex_params->proposal : myproposal;
if ((r = kex_new(ssh, proposal, &ssh->kex)) != 0) {
    ssh_free(ssh);
    return r;
}
ssh->kex->server = is_server;
if (is_server) {
#ifdef WITH_OPENSSL
    ssh->kex->kex[KEX_DH_GRP1_SHA1] = kexdh_server;
    ssh->kex->kex[KEX_DH_GRP14_SHA1] = kexdh_server;
    ssh->kex->kex[KEX_DH_GEX_SHA1] = kexgex_server;
    ssh->kex->kex[KEX_DH_GEX_SHA256] = kexgex_server;
# ifdef OPENSSL_HAS_ECC
    ssh->kex->kex[KEX_ECDH_SHA2] = kexecdh_server;
# endif
#endif /* WITH_OPENSSL */
    ssh->kex->kex[KEX_C25519_SHA256] = kexc25519_server;
    ssh->kex->load_host_public_key=&_ssh_host_public_key;
    ssh->kex->load_host_private_key=&_ssh_host_private_key;
    ssh->kex->sign=&_ssh_host_key_sign;
} else {
#ifdef WITH_OPENSSL
    ssh->kex->kex[KEX_DH_GRP1_SHA1] = kexdh_client;
    ssh->kex->kex[KEX_DH_GRP14_SHA1] = kexdh_client;
    ssh->kex->kex[KEX_DH_GEX_SHA1] = kexgex_client;
    ssh->kex->kex[KEX_DH_GEX_SHA256] = kexgex_client;
# ifdef OPENSSL_HAS_ECC
    ssh->kex->kex[KEX_ECDH_SHA2] = kexecdh_client;
# endif
#endif /* WITH_OPENSSL */
    ssh->kex->kex[KEX_C25519_SHA256] = kexc25519_client;
    ssh->kex->verify_host_key =&_ssh_verify_host_key;
}
*sshp = ssh;
return 0;
}

```

```

void
ssh_free(struct ssh *ssh)
{
    struct key_entry *k;

    ssh_packet_close(ssh);
    /*
     * we've only created the public keys variants in case we
     * are acting as a server.
     */
    while ((k = TAILQ_FIRST(&ssh->public_keys)) != NULL) {
        TAILQ_REMOVE(&ssh->public_keys, k, next);
        if (ssh->kex && ssh->kex->server)
            sshkey_free(k->key);
        free(k);
    }
    while ((k = TAILQ_FIRST(&ssh->private_keys)) != NULL) {
        TAILQ_REMOVE(&ssh->private_keys, k, next);
        free(k);
    }
    if (ssh->kex)
        kex_free(ssh->kex);
    free(ssh);
}

```

```

void
ssh_set_app_data(struct ssh *ssh, void *app_data)
{
    ssh->app_data = app_data;
}

```

```

void *
ssh_get_app_data(struct ssh *ssh)
{
    return ssh->app_data;
}

```

*/\* Returns < 0 on error, 0 otherwise \*/*

```

int
ssh_add_hostkey(struct ssh *ssh, struct sshkey *key)
{
    struct sshkey *pubkey = NULL;
    struct key_entry *k = NULL, *k_prv = NULL;
    int r;

    if (ssh->kex->server) {
        if ((r = sshkey_from_private(key, &pubkey)) != 0)
            return r;
    }
}

```

```

if ((k = malloc(sizeof(*k))) == NULL ||
    (k_prv = malloc(sizeof(*k_prv))) == NULL) {
    free(k);
    sshkey_free(pubkey);
    return SSH_ERR_ALLOC_FAIL;
}
k_prv->key = key;
TAILQ_INSERT_TAIL(&ssh->private_keys, k_prv, next);

/* add the public key, too */
k->key = pubkey;
TAILQ_INSERT_TAIL(&ssh->public_keys, k, next);
r = 0;
} else {
if ((k = malloc(sizeof(*k))) == NULL)
    return SSH_ERR_ALLOC_FAIL;
k->key = key;
TAILQ_INSERT_TAIL(&ssh->public_keys, k, next);
r = 0;
}

return r;
}

int
ssh_set_verify_host_key_callback(struct ssh *ssh,
    int (*cb)(struct sshkey *, struct ssh *))
{
if (cb == NULL || ssh->kex == NULL)
    return SSH_ERR_INVALID_ARGUMENT;

ssh->kex->verify_host_key = cb;

return 0;
}

int
ssh_input_append(struct ssh *ssh, const u_char *data, size_t len)
{
return sshbuf_put(ssh_packet_get_input(ssh), data, len);
}

int
ssh_packet_next(struct ssh *ssh, u_char *typep)
{
int r;
u_int32_t seqnr;
u_char type;

```

```

/*
 * Try to read a packet. Return SSH_MSG_NONE if no packet or not
 * enough data.
 */
*typep = SSH_MSG_NONE;
if (ssh->kex->client_version_string == NULL ||
    ssh->kex->server_version_string == NULL)
    return _ssh_exchange_banner(ssh);
/*
 * If we enough data and a dispatch function then
 * call the function and get the next packet.
 * Otherwise return the packet type to the caller so it
 * can decide how to go on.
 *
 * We will only call the dispatch function for:
 * 20-29 Algorithm negotiation
 * 30-49 Key exchange method specific (numbers can be reused for
 * different authentication methods)
 */
for (;;) {
    if ((r = ssh_packet_read_poll2(ssh, &type, &seqnr)) != 0)
        return r;
    if (type > 0 && type < DISPATCH_MAX &&
        type >= SSH2_MSG_KEXINIT && type <= SSH2_MSG_TRANSPORT_MAX &&
        ssh->dispatch[type] != NULL) {
        if ((r = (*ssh->dispatch[type])(type, seqnr, ssh)) != 0)
            return r;
        } else {
        *typep = type;
        return 0;
        }
    }
}

const u_char *
ssh_packet_payload(struct ssh *ssh, size_t *lenp)
{
    return sshpkt_ptr(ssh, lenp);
}

int
ssh_packet_put(struct ssh *ssh, int type, const u_char *data, size_t len)
{
    int r;

    if ((r = sshpkt_start(ssh, type)) != 0 ||
        (r = sshpkt_put(ssh, data, len)) != 0 ||

```

```

    (r = sshpkt_send(ssh)) != 0)
    return r;
return 0;
}

const u_char *
ssh_output_ptr(struct ssh *ssh, size_t *len)
{
    struct sshbuf *output = ssh_packet_get_output(ssh);

    *len = sshbuf_len(output);
    return sshbuf_ptr(output);
}

int
ssh_output_consume(struct ssh *ssh, size_t len)
{
    return sshbuf_consume(ssh_packet_get_output(ssh), len);
}

int
ssh_output_space(struct ssh *ssh, size_t len)
{
    return (0 == sshbuf_check_reserve(ssh_packet_get_output(ssh), len));
}

int
ssh_input_space(struct ssh *ssh, size_t len)
{
    return (0 == sshbuf_check_reserve(ssh_packet_get_input(ssh), len));
}

/* Read other side's version identification. */
int
_ssh_read_banner(struct ssh *ssh, char **bannerp)
{
    struct sshbuf *input;
    const char *s;
    char buf[256], remote_version[256]; /* must be same size! */
    const char *mismatch = "Protocol mismatch.\r\n";
    int r, remote_major, remote_minor;
    size_t i, n, j, len;

    *bannerp = NULL;
    input = ssh_packet_get_input(ssh);
    len = sshbuf_len(input);
    s = (const char *)sshbuf_ptr(input);
    for (j = n = 0;) {

```

```

for (i = 0; i < sizeof(buf) - 1; i++) {
    if (j >= len)
        return (0);
    buf[i] = s[j++];
    if (buf[i] == '\r') {
        buf[i] = '\n';
        buf[i + 1] = 0;
        continue; /*XXX wait for \n */
    }
    if (buf[i] == '\n') {
        buf[i + 1] = 0;
        break;
    }
}
buf[sizeof(buf) - 1] = 0;
if (strncmp(buf, "SSH-", 4) == 0)
    break;
debug("ssh_exchange_identification: %s", buf);
if (ssh->kex->server || ++n > 65536) {
    if ((r = sshbuf_put(ssh_packet_get_output(ssh),
        mismatch, strlen(mismatch))) != 0)
        return r;
    return SSH_ERR_NO_PROTOCOL_VERSION;
}
}
if ((r = sshbuf_consume(input, j)) != 0)
    return r;

/*
 * Check that the versions match. In future this might accept
 * several versions and set appropriate flags to handle them.
 */
if (sscanf(buf, "SSH-%d.%d-%[^\n]\n",
    &remote_major, &remote_minor, remote_version) != 3)
    return SSH_ERR_INVALID_FORMAT;
debug("Remote protocol version %d.%d, remote software version %.100s",
    remote_major, remote_minor, remote_version);

ssh->compat = compat_datafellows(remote_version);
if (remote_major == 1 && remote_minor == 99) {
    remote_major = 2;
    remote_minor = 0;
}
if (remote_major != 2)
    return SSH_ERR_PROTOCOL_MISMATCH;
enable_compat20();
chop(buf);
debug("Remote version string %.100s", buf);

```

```

if ((*bannerp = strdup(buf)) == NULL)
    return SSH_ERR_ALLOC_FAIL;
return 0;
}

/* Send our own protocol version identification. */
int
_ssh_send_banner(struct ssh *ssh, char **bannerp)
{
    char buf[256];
    int r;

    snprintf(buf, sizeof buf, "SSH-2.0-%.100s\r\n", SSH_VERSION);
    if ((r = sshbuf_put(ssh_packet_get_output(ssh), buf, strlen(buf))) != 0)
        return r;
    chop(buf);
    debug("Local version string %.100s", buf);
    if ((*bannerp = strdup(buf)) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    return 0;
}

int
_ssh_exchange_banner(struct ssh *ssh)
{
    struct kex *kex = ssh->kex;
    int r;

    /*
     * if _ssh_read_banner() cannot parse a full version string
     * it will return NULL and we end up calling it again.
     */

    r = 0;
    if (kex->server) {
        if (kex->server_version_string == NULL)
            r = _ssh_send_banner(ssh, &kex->server_version_string);
        if (r == 0 &&
            kex->server_version_string != NULL &&
            kex->client_version_string == NULL)
            r = _ssh_read_banner(ssh, &kex->client_version_string);
    } else {
        if (kex->server_version_string == NULL)
            r = _ssh_read_banner(ssh, &kex->server_version_string);
        if (r == 0 &&
            kex->server_version_string != NULL &&
            kex->client_version_string == NULL)
            r = _ssh_send_banner(ssh, &kex->client_version_string);
    }
}

```

```

}
if (r != 0)
    return r;
/* start initial kex as soon as we have exchanged the banners */
if (kex->server_version_string != NULL &&
    kex->client_version_string != NULL) {
    if ((r = _ssh_order_hostkeyalgs(ssh)) != 0 ||
        (r = kex_send_kexinit(ssh)) != 0)
        return r;
}
return 0;
}

```

```

struct sshkey *
_ssh_host_public_key(int type, int nid, struct ssh *ssh)
{
    struct key_entry *k;

    debug3("%s: need %d", __func__, type);
    TAILQ_FOREACH(k, &ssh->public_keys, next) {
        debug3("%s: check %s", __func__, sshkey_type(k->key));
        if (k->key->type == type &&
            (type != KEY_ECDSA || k->key->ecdsa_nid == nid))
            return (k->key);
    }
    return (NULL);
}

```

```

struct sshkey *
_ssh_host_private_key(int type, int nid, struct ssh *ssh)
{
    struct key_entry *k;

    debug3("%s: need %d", __func__, type);
    TAILQ_FOREACH(k, &ssh->private_keys, next) {
        debug3("%s: check %s", __func__, sshkey_type(k->key));
        if (k->key->type == type &&
            (type != KEY_ECDSA || k->key->ecdsa_nid == nid))
            return (k->key);
    }
    return (NULL);
}

```

```

int
_ssh_verify_host_key(struct sshkey *hostkey, struct ssh *ssh)
{
    struct key_entry *k;

```



```

debug3("%s: need %s", __func__, sshkey_type(hostkey));
TAILQ_FOREACH(k, &ssh->public_keys, next) {
    debug3("%s: check %s", __func__, sshkey_type(k->key));
    if (sshkey_equal_public(hostkey, k->key))
        return (0); /* ok */
    }
return (-1); /* failed */
}

/* offer hostkey algorithms in kexinit depending on registered keys */
int
_ssh_order_hostkeyalgs(struct ssh *ssh)
{
    struct key_entry *k;
    char *orig, *avail, *oavail = NULL, *alg, *replace = NULL;
    char **proposal;
    size_t maxlen;
    int ktype, r;

    /* XXX we de-serialize ssh->kex->my, modify it, and change it */
    if ((r = kex_buf2prop(ssh->kex->my, NULL, &proposal)) != 0)
        return r;
    orig = proposal[PROPOSAL_SERVER_HOST_KEY_ALGS];
    if ((oavail = avail = strdup(orig)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    maxlen = strlen(avail) + 1;
    if ((replace = calloc(1, maxlen)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    *replace = '\0';
    while ((alg = strsep(&avail, ",")) && *alg != '\0') {
        if ((ktype = sshkey_type_from_name(alg)) == KEY_UNSPEC)
            continue;
        TAILQ_FOREACH(k, &ssh->public_keys, next) {
            if (k->key->type == ktype ||
                (sshkey_is_cert(k->key) && k->key->type ==
                 sshkey_type_plain(ktype))) {
                if (*replace != '\0')
                    strlcat(replace, ",", maxlen);
                strlcat(replace, alg, maxlen);
                break;
            }
        }
    }
    if (*replace != '\0') {

```

```

debug2("%s: orig/%d %s", __func__, ssh->kex->server, orig);
debug2("%s: replace/%d %s", __func__, ssh->kex->server, replace);
free(orig);
proposal[PROPOSAL_SERVER_HOST_KEY_ALGS] = replace;
replace = NULL; /* owned by proposal */
r = kex_prop2buf(ssh->kex->my, proposal);
}
out:
free(oavail);
free(replace);
kex_prop_free(proposal);
return r;
}

int
_ssh_host_key_sign(struct sshkey *privkey, struct sshkey *pubkey,
    u_char **signature, size_t *slen, const u_char *data, size_t dlen,
    const char *alg, u_int compat)
{
    return sshkey_sign(privkey, signature, slen, data, dlen, alg, compat);
}
/* $OpenBSD: ssh_api.h,v 1.1 2015/01/19 20:30:23 markus Exp $ */
/*
 * Copyright (c) 2012 Markus Friedl. All rights reserved.
 *
 * Permission to use, copy, modify, and distribute this software for any
 * purpose with or without fee is hereby granted, provided that the above
 * copyright notice and this permission notice appear in all copies.
 *
 * THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES
 * WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF
 * MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR
 * ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES
 * WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
 * ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
 * OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

#ifndef API_H
#define API_H

#include <sys/types.h>
#include <signal.h>

#include "openbsd-compat/sys-queue.h"

#include "cipher.h"
#include "sshkey.h"

```

```

#include "kex.h"
#include "ssh.h"
#include "ssh2.h"
#include "packet.h"

struct kex_params {
    char *proposal[PROPOSAL_MAX];
};

/* public SSH API functions */

/*
 * ssh_init() create a ssh connection object with given (optional)
 * key exchange parameters.
 */
int ssh_init(struct ssh **, int is_server, struct kex_params *kex_params);

/*
 * release ssh connection state.
 */
void ssh_free(struct ssh *);

/*
 * attach application specific data to the connection state
 */
void ssh_set_app_data(struct ssh *, void *);
void *ssh_get_app_data(struct ssh *);

/*
 * ssh_add_hostkey() registers a private/public hostkey for an ssh
 * connection.
 * ssh_add_hostkey() needs to be called before a key exchange is
 * initiated with ssh_packet_next().
 * private hostkeys are required if we need to act as a server.
 * public hostkeys are used to verify the servers hostkey.
 */
int ssh_add_hostkey(struct ssh *ssh, struct sshkey *key);

/*
 * ssh_set_verify_host_key_callback() registers a callback function
 * which should be called instead of the default verification. The
 * function given must return 0 if the hostkey is ok, -1 if the
 * verification has failed.
 */
int ssh_set_verify_host_key_callback(struct ssh *ssh,
    int (*cb)(struct sshkey *, struct ssh *));

/*

```

```

* ssh_packet_next() advances to the next input packet and returns
* the packet type in typep.
* ssh_packet_next() works by processing an input byte-stream,
* decrypting the received data and hiding the key-exchange from
* the caller.
* ssh_packet_next() sets typep if there is no new packet available.
* in this case the caller must fill the input byte-stream by passing
* the data received over network to ssh_input_append().
* additionally, the caller needs to send the resulting output
* byte-stream back over the network. otherwise the key exchange
* would not proceed. the output byte-stream is accessed through
* ssh_output_ptr().
*/
int ssh_packet_next(struct ssh *ssh, u_char *typep);

/*
* ssh_packet_payload() returns a pointer to the raw payload data of
* the current input packet and the length of this payload.
* the payload is accessible until ssh_packet_next() is called again.
*/
const u_char *ssh_packet_payload(struct ssh *ssh, size_t *lenp);

/*
* ssh_packet_put() creates an encrypted packet with the given type
* and payload.
* the encrypted packet is appended to the output byte-stream.
*/
int ssh_packet_put(struct ssh *ssh, int type, const u_char *data,
    size_t len);

/*
* ssh_input_space() checks if 'len' bytes can be appended to the
* input byte-stream.
*/
int ssh_input_space(struct ssh *ssh, size_t len);

/*
* ssh_input_append() appends data to the input byte-stream.
*/
int ssh_input_append(struct ssh *ssh, const u_char *data, size_t len);

/*
* ssh_output_space() checks if 'len' bytes can be appended to the
* output byte-stream. XXX
*/
int ssh_output_space(struct ssh *ssh, size_t len);

/*

```

```

* ssh_output_ptr() retrieves both a pointer and the length of the
* current output byte-stream. the bytes need to be sent over the
* network. the number of bytes that have been successfully sent can
* be removed from the output byte-stream with ssh_output_consume().
*/
const u_char *ssh_output_ptr(struct ssh *ssh, size_t *len);

/*
* ssh_output_consume() removes the given number of bytes from
* the output byte-stream.
*/
int ssh_output_consume(struct ssh *ssh, size_t len);

#endif
# $OpenBSD: ssh_config,v 1.30 2016/02/20 23:06:23 sobrado Exp $

# This is the ssh client system-wide configuration file. See
# ssh_config(5) for more information. This file provides defaults for
# users, and the values can be changed in per-user configuration files
# or on the command line.

# Configuration data is parsed as follows:
# 1. command line options
# 2. user-specific file
# 3. system-wide file
# Any configuration value is only changed the first time it is set.
# Thus, host-specific definitions should be at the beginning of the
# configuration file, and defaults at the end.

# Site-wide defaults for some commonly used options. For a comprehensive
# list of available options, their meanings and defaults, please see the
# ssh_config(5) man page.

# Host *
# ForwardAgent no
# ForwardX11 no
# RhostsRSAAuthentication no
# RSAAuthentication yes
# PasswordAuthentication yes
# HostbasedAuthentication no
# GSSAPIAuthentication no
# GSSAPIDelegateCredentials no
# BatchMode no
# CheckHostIP yes
# AddressFamily any
# ConnectTimeout 0
# StrictHostKeyChecking ask
# IdentityFile ~/.ssh/identity

```

```

# IdentityFile ~/.ssh/id_rsa
# IdentityFile ~/.ssh/id_dsa
# IdentityFile ~/.ssh/id_ecdsa
# IdentityFile ~/.ssh/id_ed25519
# Port 22
# Protocol 2
# Cipher 3des
# Ciphers aes128-ctr,aes192-ctr,aes256-ctr,arcfour256,arcfour128,aes128-cbc,3des-cbc
# MACs hmac-md5,hmac-sha1,umac-64@openssh.com,hmac-ripemd160
# EscapeChar ~
# Tunnel no
# TunnelDevice any:any
# PermitLocalCommand no
# VisualHostKey no
# ProxyCommand ssh -q -W %h:%p gateway.example.com
# RekeyLimit 1G 1h
SSH_CONFIG(5)          File Formats Manual          SSH_CONFIG(5)

```

## NAME

ssh\_config M-bM-^@M-^S OpenSSH SSH client configuration files

## SYNOPSIS

```

~/.ssh/config
/etc/ssh/ssh_config

```

## DESCRIPTION

ssh(1) obtains configuration data from the following sources in the following order:

1. command-line options
2. user's configuration file (~/.ssh/config)
3. system-wide configuration file (/etc/ssh/ssh\_config)

For each parameter, the first obtained value will be used. The configuration files contain sections separated by M-bM-^@M-^[HostM-bM-^@M-^] specifications, and that section is only applied for hosts that match one of the patterns given in the specification. The matched host name is usually the one given on the command line (see the CanonicalizeHostname option for exceptions.)

Since the first obtained value for each parameter is used, more host-specific declarations should be given near the beginning of the file, and general defaults at the end.

The configuration file has the following format:

Empty lines and lines starting with M-bM-^@M-^X#M-bM-^@M-^Y are comments. Otherwise a line is of the format M-bM-^@M-^[keyword argumentsM-bM-^@M-^]. Configuration options may be

separated by whitespace or optional whitespace and exactly one `M-bM-^@M-^X=M-bM-^@M-^Y`; the latter format is useful to avoid the need to quote whitespace when specifying configuration options using the `ssh`, `scp`, and `sftp -o` option. Arguments may optionally be enclosed in double quotes (") in order to represent arguments containing spaces.

The possible keywords and their meanings are as follows (note that keywords are case-insensitive and arguments are case-sensitive):

**Host** Restricts the following declarations (up to the next `Host` or `Match` keyword) to be only for those hosts that match one of the patterns given after the keyword. If more than one pattern is provided, they should be separated by whitespace. A single `M-bM-^@M-^X*M-bM-^@M-^Y` as a pattern can be used to provide global defaults for all hosts. The host is usually the `hostname` argument given on the command line (see the `CanonicalizeHostname` option for exceptions.)

A pattern entry may be negated by prefixing it with an exclamation mark (`M-bM-^@M-^X!M-bM-^@M-^Y`). If a negated entry is matched, then the `Host` entry is ignored, regardless of whether any other patterns on the line match. Negated matches are therefore useful to provide exceptions for wildcard matches.

See `PATTERNS` for more information on patterns.

**Match** Restricts the following declarations (up to the next `Host` or `Match` keyword) to be used only when the conditions following the `Match` keyword are satisfied. Match conditions are specified using one or more criteria or the `single` token all which always matches. The available criteria keywords are: `canonical`, `exec`, `host`, `originalhost`, `user`, and `localuser`. The all criteria must appear alone or immediately after `canonical`. Other criteria may be combined arbitrarily. All criteria but `all` and `canonical` require an argument. Criteria may be negated by prepending an exclamation mark (`M-bM-^@M-^X!M-bM-^@M-^Y`).

The `canonical` keyword matches only when the configuration file is being re-parsed after `hostname` canonicalization (see the `CanonicalizeHostname` option.) This may be useful to specify conditions that work with canonical host names only. The `exec` keyword executes the specified command under the user's shell. If the command returns a zero exit status then the condition is considered true. Commands containing whitespace characters must be quoted. The following character sequences in the command will be expanded prior to execution: `M-bM-^@M-^X%LM-bM-^@M-^Y` will be substituted by the first component of the local host name, `M-bM-^@M-^X%IM-bM-^@M-^Y` will be substituted by the local host name (including any domain name), `M-bM-^@M-^X%hM-bM-^@M-^Y` will be

substituted by the target host name, `M-bM-^@M-^X%nM-bM-^@M-^Y` will be substituted by the original target host name specified on the command-line, `M-bM-^@M-^X%pM-bM-^@M-^Y` the destination port, `M-bM-^@M-^X%rM-bM-^@M-^Y` by the remote login username, and `M-bM-^@M-^X%uM-bM-^@M-^Y` by the username of the user running `ssh(1)`.

The other keywords' criteria must be single entries or comma-separated lists and may use the wildcard and negation operators described in the PATTERNS section. The criteria for the host keyword are matched against the target hostname, after any substitution by the Hostname or CanonicalizeHostname options. The originalhost keyword matches against the hostname as it was specified on the command-line. The user keyword matches against the target username on the remote host. The localuser keyword matches against the name of the local user running `ssh(1)` (this keyword may be useful in system-wide `ssh_config` files).

#### AddKeysToAgent

Specifies whether keys should be automatically added to a running `ssh-agent(1)`. If this option is set to `M-bM-^@M-^yesM-bM-^@M-^]` and a key is loaded from a file, the key and its passphrase are added to the agent with the default lifetime, as if by `ssh-add(1)`. If this option is set to `M-bM-^@M-^askM-bM-^@M-^]`, `ssh` will require confirmation using the `SSH_ASKPASS` program before adding a key (see `ssh-add(1)` for details). If this option is set to `M-bM-^@M-^confirmM-bM-^@M-^]`, each use of the key must be confirmed, as if the `-c` option was specified to `ssh-add(1)`. If this option is set to `M-bM-^@M-^noM-bM-^@M-^]`, no keys are added to the agent. The argument must be `M-bM-^@M-^yesM-bM-^@M-^]`, `M-bM-^@M-^confirmM-bM-^@M-^]`, `M-bM-^@M-^askM-bM-^@M-^]`, or `M-bM-^@M-^noM-bM-^@M-^]`. The default is `M-bM-^@M-^noM-bM-^@M-^]`.

#### AddressFamily

Specifies which address family to use when connecting. Valid arguments are `M-bM-^@M-^anyM-bM-^@M-^]`, `M-bM-^@M-^inetM-bM-^@M-^]` (use IPv4 only), or `M-bM-^@M-^inet6M-bM-^@M-^]` (use IPv6 only). The default is `M-bM-^@M-^anyM-bM-^@M-^]`.

#### BatchMode

If set to `M-bM-^@M-^yesM-bM-^@M-^]`, passphrase/password querying will be disabled. This option is useful in scripts and other batch jobs where no user is present to supply the password. The argument must be `M-bM-^@M-^yesM-bM-^@M-^]` or `M-bM-^@M-^noM-bM-^@M-^]`. The default is `M-bM-^@M-^noM-bM-^@M-^]`.

#### BindAddress

Use the specified address on the local machine as the source address of the connection. Only useful on systems with more than one address. Note that this option does not work if



UsePrivilegedPort is set to `M-bM-^@M-^\yesM-bM-^@M-^]`.

#### CanonicalDomains

When CanonicalizeHostname is enabled, this option specifies the list of domain suffixes in which to search for the specified destination host.

#### CanonicalizeFallbackLocal

Specifies whether to fail with an error when hostname canonicalization fails. The default, `M-bM-^@M-^\yesM-bM-^@M-^]`, will attempt to look up the unqualified hostname using the system resolver's search rules. A value of `M-bM-^@M-^\noM-bM-^@M-^]` will cause `ssh(1)` to fail instantly if CanonicalizeHostname is enabled and the target hostname cannot be found in any of the domains specified by CanonicalDomains.

#### CanonicalizeHostname

Controls whether explicit hostname canonicalization is performed. The default, `M-bM-^@M-^\noM-bM-^@M-^]`, is not to perform any name rewriting and let the system resolver handle all hostname lookups. If set to `M-bM-^@M-^\yesM-bM-^@M-^]` then, for connections that do not use a ProxyCommand, `ssh(1)` will attempt to canonicalize the hostname specified on the command line using the CanonicalDomains suffixes and CanonicalizePermittedCNAMEs rules. If CanonicalizeHostname is set to `M-bM-^@M-^\alwaysM-bM-^@M-^]`, then canonicalization is applied to proxied connections too.

If this option is enabled, then the configuration files are processed again using the new target name to pick up any new configuration in matching Host and Match stanzas.

#### CanonicalizeMaxDots

Specifies the maximum number of dot characters in a hostname before canonicalization is disabled. The default, `M-bM-^@M-^\1M-bM-^@M-^]`, allows a single dot (i.e. `hostname.subdomain`).

#### CanonicalizePermittedCNAMEs

Specifies rules to determine whether CNAMEs should be followed when canonicalizing hostnames. The rules consist of one or more arguments of `source_domain_list:target_domain_list`, where `source_domain_list` is a pattern-list of domains that may follow CNAMEs in canonicalization, and `target_domain_list` is a pattern-list of domains that they may resolve to.

For example, `M-bM-^@M-^\*.a.example.com:*.b.example.com,*.c.example.comM-bM-^@M-^]` will allow hostnames matching `M-bM-^@M-^\*.a.example.comM-bM-^@M-^]` to be canonicalized to names in the `M-bM-^@M-^\*.b.example.comM-bM-^@M-^]` or `M-bM-^@M-^\*.c.example.comM-bM-^@M-^]` domains.

### CertificateFile

Specifies a file from which the user's certificate is read. A corresponding private key must be provided separately in order to use this certificate either from an IdentityFile directive or -i flag to ssh(1), via ssh-agent(1), or via a PKCS11Provider.

The file name may use the tilde syntax to refer to a user's home directory or one of the following escape characters: M-bM-^@M-^X%M-bM-^@M-^Y (local user's home directory), M-bM-^@M-^X%uM-bM-^@M-^Y (local user name), M-bM-^@M-^X%lM-bM-^@M-^Y (local host name), M-bM-^@M-^X%hM-bM-^@M-^Y (remote host name) or M-bM-^@M-^X%rM-bM-^@M-^Y (remote user name).

It is possible to have multiple certificate files specified in configuration files; these certificates will be tried in sequence. Multiple CertificateFile directives will add to the list of certificates used for authentication.

### ChallengeResponseAuthentication

Specifies whether to use challenge-response authentication. The argument to this keyword must be M-bM-^@M-^yesM-bM-^@M-^] or M-bM-^@M-^noM-bM-^@M-^]. The default is M-bM-^@M-^yesM-bM-^@M-^].

### CheckHostIP

If this flag is set to M-bM-^@M-^yesM-bM-^@M-^], ssh(1) will additionally check the host IP address in the known\_hosts file. This allows ssh to detect if a host key changed due to DNS spoofing and will add addresses of destination hosts to ~/.ssh/known\_hosts in the process, regardless of the setting of StrictHostKeyChecking. If the option is set to M-bM-^@M-^noM-bM-^@M-^], the check will not be executed. The default is M-bM-^@M-^yesM-bM-^@M-^].

**Cipher** Specifies the cipher to use for encrypting the session in protocol version 1. Currently, M-bM-^@M-^blowfishM-bM-^@M-^], M-bM-^@M-^3desM-bM-^@M-^], and M-bM-^@M-^desM-bM-^@M-^] are supported. des is only supported in the ssh(1) client for interoperability with legacy protocol 1 implementations that do not support the 3des cipher. Its use is strongly discouraged due to cryptographic weaknesses. The default is M-bM-^@M-^3desM-bM-^@M-^].

### Ciphers

Specifies the ciphers allowed for protocol version 2 in order of preference. Multiple ciphers must be comma-separated. If the specified value begins with a M-bM-^@M-^X+M-bM-^@M-^Y character, then the specified ciphers will be appended to the default set instead of replacing them.

The supported ciphers are:

```
3des-cbc
aes128-cbc
aes192-cbc
aes256-cbc
aes128-ctr
aes192-ctr
aes256-ctr
aes128-gcm@openssh.com
aes256-gcm@openssh.com
arcfour
arcfour128
arcfour256
blowfish-cbc
cast128-cbc
chacha20-poly1305@openssh.com
```

The default is:

```
chacha20-poly1305@openssh.com,
aes128-ctr,aes192-ctr,aes256-ctr,
aes128-gcm@openssh.com,aes256-gcm@openssh.com,
aes128-cbc,aes192-cbc,aes256-cbc,3des-cbc
```

The list of available ciphers may also be obtained using the `-Q` option of `ssh(1)` with an argument of `M-bM-^@M-^\cipherM-bM-^@M-^]`.

#### ClearAllForwardings

Specifies that all local, remote, and dynamic port forwardings specified in the configuration files or on the command line be cleared. This option is primarily useful when used from the `ssh(1)` command line to clear port forwardings set in configuration files, and is automatically set by `scp(1)` and `sftp(1)`. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`.

The default is

```
M-bM-^@M-^\noM-bM-^@M-^]
```

#### Compression

Specifies whether to use compression. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### CompressionLevel

Specifies the compression level to use if compression is enabled. The argument must be an integer from 1 (fast) to 9 (slow, best). The default level is 6, which is good for most applications. The meaning of the values is the same as in `gzip(1)`. Note that this option applies to protocol version 1 only.

### ConnectionAttempts

Specifies the number of tries (one per second) to make before exiting. The argument must be an integer. This may be useful in scripts if the connection sometimes fails. The default is 1.

### ConnectTimeout

Specifies the timeout (in seconds) used when connecting to the SSH server, instead of using the default system TCP timeout.

This value is used only when the target is down or really unreachable, not when it refuses the connection.

### ControlMaster

Enables the sharing of multiple sessions over a single network connection. When set to `M-bM-^@M-^\yesM-bM-^@M-^]`, `ssh(1)` will listen for connections on a control socket specified using the `ControlPath` argument. Additional sessions can connect to this socket using the same `ControlPath` with `ControlMaster` set to `M-bM-^@M-^\noM-bM-^@M-^]` (the default). These sessions will try to reuse the master instance's network connection rather than initiating new ones, but will fall back to connecting normally if the control socket does not exist, or is not listening.

Setting this to `M-bM-^@M-^\askM-bM-^@M-^]` will cause `ssh` to listen for control connections, but require confirmation using `ssh-askpass(1)`. If the `ControlPath` cannot be opened, `ssh` will continue without connecting to a master instance.

X11 and `ssh-agent(1)` forwarding is supported over these multiplexed connections, however the display and agent forwarded will be the one belonging to the master connection i.e. it is not possible to forward multiple displays or agents.

Two additional options allow for opportunistic multiplexing: try to use a master connection but fall back to creating a new one if one does not already exist. These options are: `M-bM-^@M-^\autoM-bM-^@M-^]` and `M-bM-^@M-^\autoaskM-bM-^@M-^]`. The latter requires confirmation like the `M-bM-^@M-^\askM-bM-^@M-^]` option.

### ControlPath

Specify the path to the control socket used for connection sharing as described in the `ControlMaster` section above or the string `M-bM-^@M-^\noneM-bM-^@M-^]` to disable connection sharing. In the path, `M-bM-^@M-^X%LM-bM-^@M-^Y`

will be substituted by the first component of the local host name, `M-bM-^@M-^X%IM-bM-^@M-^Y` will be substituted by the local host name (including any domain name), `M-bM-^@M-^X%hM-bM-^@M-^Y` will be substituted by the target host

name, `M-bM-^@M-^X%nM-bM-^@M-^Y` will be substituted by the original target host name specified on the command line, `M-bM-^@M-^X%pM-bM-^@M-^Y` the destination port, `M-bM-^@M-^X%rM-bM-^@M-^Y` by the remote login username, `M-bM-^@M-^X%uM-bM-^@M-^Y` by the username and `M-bM-^@M-^X%iM-bM-^@M-^Y` by the numeric user ID (uid) of the user running `ssh(1)`, and `M-bM-^@M-^X%CM-bM-^@M-^Y` by a hash of the concatenation: `%l%h%p%r`. It is recommended that any `ControlPath` used for opportunistic connection sharing include at least `%h`, `%p`, and `%r` (or alternatively `%C`) and be placed in a directory that is not writable by other users. This ensures that shared connections are uniquely identified.

#### ControlPersist

When used in conjunction with `ControlMaster`, specifies that the master connection should remain open in the background (waiting for future client connections) after the initial client connection has been closed. If set to `M-bM-^@M-^[\noM-bM-^@M-^]`, then the master connection will not be placed into the background, and will close as soon as the initial client connection is closed. If set to `M-bM-^@M-^[\yesM-bM-^@M-^]` or `M-bM-^@M-^[\0M-bM-^@M-^]`, then the master connection will remain in the background indefinitely (until killed or closed via a mechanism such as the `ssh(1) M-bM-^@M-^[-O exitM-bM-^@M-^]` option). If set to a time in seconds, or a time in any of the formats documented in `sshd_config(5)`, then the backgrounded master connection will automatically terminate after it has remained idle (with no client connections) for the specified time.

#### DynamicForward

Specifies that a TCP port on the local machine be forwarded over the secure channel, and the application protocol is then used to determine where to connect to from the remote machine.

The argument must be `[bind_address:]port`. IPv6 addresses can be specified by enclosing addresses in square brackets. By default, the local port is bound in accordance with the `GatewayPorts` setting. However, an explicit `bind_address` may be used to bind the connection to a specific address. The `bind_address` of `M-bM-^@M-^[\localhostM-bM-^@M-^]` indicates that the listening port be bound for local use only, while an empty address or `M-bM-^@M-^X*M-bM-^@M-^Y` indicates that the port should be available from all interfaces.

Currently the `SOCKS4` and `SOCKS5` protocols are supported, and `ssh(1)` will act as a `SOCKS` server. Multiple forwardings may be specified, and additional forwardings can be given on the command line. Only the superuser can forward privileged ports.

#### EnableSSHKeySign

Setting this option to `yes` in the global client configuration file `/etc/ssh/ssh_config` enables the use of the helper program `ssh-keysign(8)` during `HostbasedAuthentication`. The argument must be `yes` or `no`. The default is `no`. This option should be placed in the non-hostspecific section. See `ssh-keysign(8)` for more information.

#### EscapeChar

Sets the escape character (default: `X~`). The escape character can also be set on the command line. The argument should be a single character, `X^` followed by a letter, or `none` to disable the escape character entirely (making the connection transparent for binary data).

#### ExitOnForwardFailure

Specifies whether `ssh(1)` should terminate the connection if it cannot set up all requested dynamic, tunnel, local, and remote port forwardings, (e.g. if either end is unable to bind and listen on a specified port). Note that `ExitOnForwardFailure` does not apply to connections made over port forwardings and will not, for example, cause `ssh(1)` to exit if TCP connections to the ultimate forwarding destination fail. The argument must be `yes` or `no`. The default is `no`.

#### FingerprintHash

Specifies the hash algorithm used when displaying key fingerprints. Valid options are: `md5` and `sha256`. The default is `sha256`.

#### ForwardAgent

Specifies whether the connection to the authentication agent (if any) will be forwarded to the remote machine. The argument must be `yes` or `no`. The default is `no`.

Agent forwarding should be enabled with caution. Users with the ability to bypass file permissions on the remote host (for the agent's Unix-domain socket) can access the local agent through the forwarded connection. An attacker cannot obtain key material from the agent, however they can perform operations on the keys that enable them to authenticate using the identities loaded into the agent.

#### ForwardX11

Specifies whether X11 connections will be automatically

redirected over the secure channel and DISPLAY set. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

X11 forwarding should be enabled with caution. Users with the ability to bypass file permissions on the remote host (for the user's X11 authorization database) can access the local X11 display through the forwarded connection. An attacker may then be able to perform activities such as keystroke monitoring if the `ForwardX11Trusted` option is also enabled.

#### ForwardX11Timeout

Specify a timeout for untrusted X11 forwarding using the format described in the TIME FORMATS section of `sshd_config(5)`. X11 connections received by `ssh(1)` after this time will be refused. The default is to disable untrusted X11 forwarding after twenty minutes has elapsed.

#### ForwardX11Trusted

If this option is set to `M-bM-^@M-^\yesM-bM-^@M-^]`, remote X11 clients will have full access to the original X11 display.

If this option is set to `M-bM-^@M-^\noM-bM-^@M-^]`, remote X11 clients will be considered untrusted and prevented from stealing or tampering with data belonging to trusted X11 clients. Furthermore, the `xauth(1)` token used for the session will be set to expire after 20 minutes. Remote clients will be refused access after this time.

The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

See the X11 SECURITY extension specification for full details on the restrictions imposed on untrusted clients.

#### GatewayPorts

Specifies whether remote hosts are allowed to connect to local forwarded ports. By default, `ssh(1)` binds local port forwardings to the loopback address. This prevents other remote hosts from connecting to forwarded ports. `GatewayPorts` can be used to specify that `ssh` should bind local port forwardings to the wildcard address, thus allowing remote hosts to connect to forwarded ports. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### GlobalKnownHostsFile

Specifies one or more files to use for the global host key database, separated by whitespace. The default is

/etc/ssh/ssh\_known\_hosts, /etc/ssh/ssh\_known\_hosts2.

#### GSSAPIAuthentication

Specifies whether user authentication based on GSSAPI is allowed.  
The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### GSSAPIDelegateCredentials

Forward (delegate) credentials to the server. The default is  
`M-bM-^@M-^\noM-bM-^@M-^]`.

#### HashKnownHosts

Indicates that `ssh(1)` should hash host names and addresses when they are added to `~/.ssh/known_hosts`. These hashed names may be used normally by `ssh(1)` and `sshd(8)`, but they do not reveal identifying information should the file's contents be disclosed.  
The default is `M-bM-^@M-^\noM-bM-^@M-^]`. Note that existing names and addresses in known hosts files will not be converted automatically, but may be manually hashed using `ssh-keygen(1)`.

#### HostbasedAuthentication

Specifies whether to try rhosts based authentication with public key authentication. The argument must be `M-bM-^@M-^[yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### HostbasedKeyTypes

Specifies the key types that will be used for hostbased authentication as a comma-separated pattern list. Alternately if the specified value begins with a `M-bM-^@M-^X+M-bM-^@M-^Y` character, then the specified key types will be appended to the default set instead of replacing them. The default for this option is:

```
ecdsa-sha2-nistp256-cert-v01@openssh.com,  
ecdsa-sha2-nistp384-cert-v01@openssh.com,  
ecdsa-sha2-nistp521-cert-v01@openssh.com,  
ssh-ed25519-cert-v01@openssh.com,  
ssh-rsa-cert-v01@openssh.com,  
ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,  
ssh-ed25519,ssh-rsa
```

The `-Q` option of `ssh(1)` may be used to list supported key types.

#### HostKeyAlgorithms

Specifies the host key algorithms that the client wants to use in order of preference. Alternately if the specified value begins with a `M-bM-^@M-^X+M-bM-^@M-^Y` character, then the specified key types will be appended to the default set instead of replacing them. The default for this option is:



ecdsa-sha2-nistp256-cert-v01@openssh.com,  
ecdsa-sha2-nistp384-cert-v01@openssh.com,  
ecdsa-sha2-nistp521-cert-v01@openssh.com,  
ssh-ed25519-cert-v01@openssh.com,  
ssh-rsa-cert-v01@openssh.com,  
ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,  
ssh-ed25519,ssh-rsa

If hostkeys are known for the destination host then this default is modified to prefer their algorithms.

The list of available key types may also be obtained using the -Q option of ssh(1) with an argument of M-bM-^@M-^keyM-bM-^@M-^].

#### HostKeyAlias

Specifies an alias that should be used instead of the real host name when looking up or saving the host key in the host key database files. This option is useful for tunneling SSH connections or for multiple servers running on a single host.

#### HostName

Specifies the real host name to log into. This can be used to specify nicknames or abbreviations for hosts. If the hostname contains the character sequence M-bM-^@M-^X%hM-bM-^@M-^Y, then this will be replaced with the host name specified on the command line (this is useful for manipulating unqualified names). The character sequence M-bM-^@M-^X%M-bM-^@M-^Y will be replaced by a single M-bM-^@M-^X%M-bM-^@M-^Y character, which may be used when specifying IPv6 link-local addresses.

The default is the name given on the command line. Numeric IP addresses are also permitted (both on the command line and in HostName specifications).

#### IdentitiesOnly

Specifies that ssh(1) should only use the authentication identity and certificate files explicitly configured in the ssh\_config files or passed on the ssh(1) command-line, even if ssh-agent(1) or a PKCS11Provider offers more identities. The argument to this keyword must be M-bM-^@M-^yesM-bM-^@M-^] or M-bM-^@M-^\noM-bM-^@M-^]. This option is intended for

situations where ssh-agent offers many different identities. The default is M-bM-^@M-^\noM-bM-^@M-^].

#### IdentityFile

Specifies a file from which the user's DSA, ECDSA, Ed25519 or RSA authentication identity is read. The default is ~/.ssh/identity for protocol version 1, and ~/.ssh/id\_dsa, ~/.ssh/id\_ecdsa,

~/.ssh/id\_ed25519 and ~/.ssh/id\_rsa for protocol version 2. Additionally, any identities represented by the authentication agent will be used for authentication unless IdentitiesOnly is set. If no certificates have been explicitly specified by CertificateFile, ssh(1) will try to load certificate information from the filename obtained by appending -cert.pub to the path of a specified IdentityFile.

The file name may use the tilde syntax to refer to a user's home directory or one of the following escape characters: M-bM-^@M-^X%dM-bM-^@M-^Y (local user's home directory), M-bM-^@M-^X%uM-bM-^@M-^Y (local user name), M-bM-^@M-^X%lM-bM-^@M-^Y (local host name), M-bM-^@M-^X%hM-bM-^@M-^Y (remote host name) or M-bM-^@M-^X%rM-bM-^@M-^Y (remote user name).

It is possible to have multiple identity files specified in configuration files; all these identities will be tried in sequence. Multiple IdentityFile directives will add to the list of identities tried (this behaviour differs from that of other configuration directives).

IdentityFile may be used in conjunction with IdentitiesOnly to select which identities in an agent are offered during authentication. IdentityFile may also be used in conjunction with CertificateFile in order to provide any certificate also needed for authentication with the identity.

#### IgnoreUnknown

Specifies a pattern-list of unknown options to be ignored if they are encountered in configuration parsing. This may be used to suppress errors if ssh\_config contains options that are unrecognised by ssh(1). It is recommended that IgnoreUnknown be listed early in the configuration file as it will not be applied to unknown options that appear before it.

**IPQoS** Specifies the IPv4 type-of-service or DSCP class for connections.

Accepted values are M-bM-^@M-^af11M-bM-^@M-^], M-bM-^@M-^af12M-bM-^@M-^], M-bM-^@M-^af13M-bM-^@M-^], M-bM-^@M-^af21M-bM-^@M-^], M-bM-^@M-^af22M-bM-^@M-^],

M-bM-^@M-^af23M-bM-^@M-^], M-bM-^@M-^af31M-bM-^@M-^], M-bM-^@M-^af32M-bM-^@M-^], M-bM-^@M-^af33M-bM-^@M-^], M-bM-^@M-^af41M-bM-^@M-^], M-bM-^@M-^af42M-bM-^@M-^], M-bM-^@M-^af43M-bM-^@M-^], M-bM-^@M-^cs0M-bM-^@M-^],

M-bM-^@M-^cs1M-bM-^@M-^], M-bM-^@M-^cs2M-bM-^@M-^], M-bM-^@M-^cs3M-bM-^@M-^], M-bM-^@M-^cs4M-bM-^@M-^], M-bM-^@M-^cs5M-bM-^@M-^], M-bM-^@M-^cs6M-bM-^@M-^], M-bM-^@M-^cs7M-bM-^@M-^], M-bM-^@M-^efM-bM-^@M-^],

M-bM-^@M-^lowdelayM-bM-^@M-^], M-bM-^@M-^throughputM-bM-^@M-^], M-bM-^@M-^reliabilityM-bM-^@M-^], or a numeric value.

This option may take one or two arguments, separated by whitespace. If one argument is specified, it is used as the

packet class unconditionally. If two values are specified, the first is automatically selected for interactive sessions and the second for non-interactive sessions. The default is `M-bM-^@M-^\lowdelayM-bM-^@M-^]` for interactive sessions and `M-bM-^@M-^\throughputM-bM-^@M-^]` for non-interactive sessions.

#### KbdInteractiveAuthentication

Specifies whether to use keyboard-interactive authentication.

The argument to this keyword must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`.

#### KbdInteractiveDevices

Specifies the list of methods to use in keyboard-interactive authentication. Multiple method names must be comma-separated.

The default is to use the server specified list. The methods available vary depending on what the server supports. For an

OpenSSH server, it may be zero or more of: `M-bM-^@M-^\bsdauthM-bM-^@M-^]`, `M-bM-^@M-^\pamM-bM-^@M-^]`, and `M-bM-^@M-^\skM-bM-^@M-^]`.

#### KexAlgorithms

Specifies the available KEX (Key Exchange) algorithms. Multiple algorithms must be comma-separated. Alternately if the specified value begins with a `M-bM-^@M-^X+M-bM-^@M-^Y` character, then the specified methods will be appended to the default set instead of replacing them.

The default is:

```
curve25519-sha256@libssh.org,  
ecdh-sha2-nistp256,ecdh-sha2-nistp384,ecdh-sha2-nistp521,  
diffie-hellman-group-exchange-sha256,  
diffie-hellman-group-exchange-sha1,  
diffie-hellman-group14-sha1
```

The list of available key exchange algorithms may also be obtained using the `-Q` option of `ssh(1)` with an argument of `M-bM-^@M-^\kexM-bM-^@M-^]`.

#### LocalCommand

Specifies a command to execute on the local machine after successfully connecting to the server. The command string extends to the end of the line, and is executed with the user's shell. The following escape character substitutions will be

performed: `M-bM-^@M-^X%M-bM-^@M-^Y` (local user's home directory), `M-bM-^@M-^X%hM-bM-^@M-^Y` (remote host name), `M-bM-^@M-^X%IM-bM-^@M-^Y` (local host name), `M-bM-^@M-^X%nM-bM-^@M-^Y` (host name as provided on the command line), `M-bM-^@M-^X%pM-bM-^@M-^Y` (remote port), `M-bM-^@M-^X%rM-bM-^@M-^Y` (remote user name) or

M-bM-^@M-^X%uM-bM-^@M-^Y (local user name) or M-bM-^@M-^X%CM-bM-^@M-^Y by a hash of the concatenation:

```
%l%h%p%r.
```

The command is run synchronously and does not have access to the session of the ssh(1) that spawned it. It should not be used for interactive commands.

This directive is ignored unless PermitLocalCommand has been enabled.

#### LocalForward

Specifies that a TCP port on the local machine be forwarded over the secure channel to the specified host and port from the remote machine. The first argument must be [bind\_address:]port and the second argument must be host:hostport. IPv6 addresses can be specified by enclosing addresses in square brackets. Multiple forwardings may be specified, and additional forwardings can be given on the command line. Only the superuser can forward privileged ports. By default, the local port is bound in accordance with the GatewayPorts setting. However, an explicit bind\_address may be used to bind the connection to a specific address. The bind\_address of M-bM-^@M-^[localhostM-bM-^@M-^] indicates that the listening port be bound for local use only, while an empty address or M-bM-^@M-^X\*M-bM-^@M-^Y indicates that the port should be available from all interfaces.

#### LogLevel

Gives the verbosity level that is used when logging messages from ssh(1). The possible values are: QUIET, FATAL, ERROR, INFO, VERBOSE, DEBUG, DEBUG1, DEBUG2, and DEBUG3. The default is INFO. DEBUG and DEBUG1 are equivalent. DEBUG2 and DEBUG3 each specify higher levels of verbose output.

**MACs** Specifies the MAC (message authentication code) algorithms in order of preference. The MAC algorithm is used for data integrity protection. Multiple algorithms must be comma-separated. If the specified value begins with a M-bM-^@M-^X+M-bM-^@M-^Y character, then the specified algorithms will be appended to the default set instead of replacing them.

The algorithms that contain M-bM-^@M-^[-etmM-bM-^@M-^] calculate the MAC after encryption (encrypt-then-mac). These are considered safer and their use recommended.

The default is:

```
umac-64-etm@openssh.com,umac-128-etm@openssh.com,
```

hmac-sha2-256-etm@openssh.com,hmac-sha2-512-etm@openssh.com,  
hmac-sha1-etm@openssh.com,  
umac-64@openssh.com,umac-128@openssh.com,  
hmac-sha2-256,hmac-sha2-512,hmac-sha1

The list of available MAC algorithms may also be obtained using the `-Q` option of `ssh(1)` with an argument of `M-bM-^@M-^\macM-bM-^@M-^]`.

#### NoHostAuthenticationForLocalhost

This option can be used if the home directory is shared across machines. In this case localhost will refer to a different machine on each of the machines and the user will get many warnings about changed host keys. However, this option disables host authentication for localhost. The argument to this keyword must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is to check the host key for localhost.

#### NumberOfPasswordPrompts

Specifies the number of password prompts before giving up. The argument to this keyword must be an integer. The default is 3.

#### PasswordAuthentication

Specifies whether to use password authentication. The argument to this keyword must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`.

#### PermitLocalCommand

Allow local command execution via the `LocalCommand` option or using the `!command` escape sequence in `ssh(1)`. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### PKCS11Provider

Specifies which PKCS#11 provider to use. The argument to this keyword is the PKCS#11 shared library `ssh(1)` should use to communicate with a PKCS#11 token providing the user's private RSA key.

**Port** Specifies the port number to connect on the remote host. The default is 22.

#### PreferredAuthentications

Specifies the order in which the client should try authentication methods. This allows a client to prefer one method (e.g. keyboard-interactive) over another method (e.g. password). The default is:

gssapi-with-mic,hostbased,publickey,  
keyboard-interactive,password

#### Protocol

Specifies the protocol versions ssh(1) should support in order of preference. The possible values are `M-bM-^@M-^X1M-bM-^@M-^Y` and `M-bM-^@M-^X2M-bM-^@M-^Y`. Multiple versions must be comma-separated. When this option is set to `M-bM-^@M-^2,1M-bM-^@M-^]` ssh will try version 2 and fall back to version 1 if version 2 is not available. The default is `M-bM-^@M-^X2M-bM-^@M-^Y`. Protocol 1 suffers from a number of cryptographic weaknesses and should not be used. It is only offered to support legacy devices.

#### ProxyCommand

Specifies the command to use to connect to the server. The command string extends to the end of the line, and is executed using the user's shell `M-bM-^@M-^XexecM-bM-^@M-^Y` directive to avoid a lingering shell process.

In the command string, any occurrence of `M-bM-^@M-^X%hM-bM-^@M-^Y` will be substituted by the host name to connect, `M-bM-^@M-^X%pM-bM-^@M-^Y` by the port, and `M-bM-^@M-^X%rM-bM-^@M-^Y` by the

remote user name. The command can be basically anything, and should read from its standard input and write to its standard output. It should eventually connect an sshd(8) server running on some machine, or execute `sshd -i` somewhere. Host key management will be done using the `HostName` of the host being connected (defaulting to the name typed by the user). Setting the command to `M-bM-^@M-^\noneM-bM-^@M-^]` disables this option entirely. Note that `CheckHostIP` is not available for connects with a proxy command.

This directive is useful in conjunction with `nc(1)` and its proxy support. For example, the following directive would connect via an HTTP proxy at 192.0.2.0:

```
ProxyCommand /usr/bin/nc -X connect -x 192.0.2.0:8080 %h %p
```

#### ProxyUseFdpass

Specifies that `ProxyCommand` will pass a connected file descriptor back to ssh(1) instead of continuing to execute and pass data. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### PubkeyAcceptedKeyTypes

Specifies the key types that will be used for public key authentication as a comma-separated pattern list. Alternately if the specified value begins with a `M-bM-^@M-^X+M-bM-^@M-^Y` character, then the key types after it will be appended to the default instead of replacing it. The default for this option is:

ecdsa-sha2-nistp256-cert-v01@openssh.com,  
ecdsa-sha2-nistp384-cert-v01@openssh.com,  
ecdsa-sha2-nistp521-cert-v01@openssh.com,  
ssh-ed25519-cert-v01@openssh.com,  
ssh-rsa-cert-v01@openssh.com,  
ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,  
ssh-ed25519,ssh-rsa

The -Q option of ssh(1) may be used to list supported key types.

#### PubkeyAuthentication

Specifies whether to try public key authentication. The argument to this keyword must be `M-bM-^@M-^yesM-bM-^@M-^` or `M-bM-^@M-^noM-bM-^@M-^`. The default is `M-bM-^@M-^yesM-bM-^@M-^`.

#### RekeyLimit

Specifies the maximum amount of data that may be transmitted before the session key is renegotiated, optionally followed a maximum amount of time that may pass before the session key is renegotiated. The first argument is specified in bytes and may have a suffix of `M-bM-^@M-^XKM-bM-^@M-^Y`, `M-bM-^@M-^XMM-bM-^@M-^Y`, or `M-bM-^@M-^XGM-bM-^@M-^Y` to indicate Kilobytes, Megabytes, or Gigabytes, respectively. The default is between `M-bM-^@M-^X1GM-bM-^@M-^Y` and `M-bM-^@M-^X4GM-bM-^@M-^Y`, depending on the cipher. The optional second value is specified in seconds and may use any of the units documented in the TIME FORMATS section of sshd\_config(5). The default value for RekeyLimit is `M-bM-^@M-^default noneM-bM-^@M-^`, which means that rekeying is performed after the cipher's default amount of data has been sent or received and no time based rekeying is done.

#### RemoteForward

Specifies that a TCP port on the remote machine be forwarded over the secure channel to the specified host and port from the local machine. The first argument must be `[bind_address:]port` and the second argument must be `host:hostport`. IPv6 addresses can be specified by enclosing addresses in square brackets. Multiple forwardings may be specified, and additional forwardings can be given on the command line. Privileged ports can be forwarded only when logging in as root on the remote machine.

If the port argument is `M-bM-^@M-^X0M-bM-^@M-^Y`, the listen port will be dynamically allocated on the server and reported to the client at run time.

If the `bind_address` is not specified, the default is to only bind to loopback addresses. If the `bind_address` is `M-bM-^@M-^X*M-bM-^@M-^Y` or an empty string, then the forwarding is requested to listen on all

interfaces. Specifying a remote `bind_address` will only succeed if the server's `GatewayPorts` option is enabled (see `sshd_config(5)`).

#### RequestTTY

Specifies whether to request a pseudo-tty for the session. The argument may be one of: `M-bM-^@M-^\noM-bM-^@M-^]` (never request a TTY), `M-bM-^@M-^\yesM-bM-^@M-^]` (always request a TTY when standard input is a TTY), `M-bM-^@M-^\forceM-bM-^@M-^]` (always request a TTY) or `M-bM-^@M-^\autoM-bM-^@M-^]` (request a TTY when opening a login session). This option mirrors the `-t` and `-T` flags for `ssh(1)`.

#### RevokedHostKeys

Specifies revoked host public keys. Keys listed in this file will be refused for host authentication. Note that if this file does not exist or is not readable, then host authentication will be refused for all hosts. Keys may be specified as a text file, listing one public key per line, or as an OpenSSH Key Revocation List (KRL) as generated by `ssh-keygen(1)`. For more information on KRLs, see the `KEY REVOCATION LISTS` section in `ssh-keygen(1)`.

#### RhostsRSAAuthentication

Specifies whether to try rhosts based authentication with RSA host authentication. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is `M-bM-^@M-^\noM-bM-^@M-^]`. This option applies to protocol version 1 only and requires `ssh(1)` to be setuid root.

#### RSAAuthentication

Specifies whether to try RSA authentication. The argument to this keyword must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. RSA authentication will only be attempted if the identity file exists, or an authentication agent is running. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`. Note that this option applies to protocol version 1 only.

#### SendEnv

Specifies what variables from the local `environ(7)` should be sent to the server. The server must also support it, and the server must be configured to accept these environment variables. Note that the `TERM` environment variable is always sent whenever a pseudo-terminal is requested as it is required by the protocol. Refer to `AcceptEnv` in `sshd_config(5)` for how to configure the server. Variables are specified by name, which may contain wildcard characters. Multiple environment variables may be separated by whitespace or spread across multiple `SendEnv` directives. The default is not to send any environment variables.



See PATTERNS for more information on patterns.

#### ServerAliveCountMax

Sets the number of server alive messages (see below) which may be sent without ssh(1) receiving any messages back from the server.

If this threshold is reached while server alive messages are being sent, ssh will disconnect from the server, terminating the session. It is important to note that the use of server alive messages is very different from TCPKeepAlive (below). The server alive messages are sent through the encrypted channel and therefore will not be spoofable. The TCP keepalive option enabled by TCPKeepAlive is spoofable. The server alive mechanism is valuable when the client or server depend on knowing when a connection has become inactive.

The default value is 3. If, for example, ServerAliveInterval (see below) is set to 15 and ServerAliveCountMax is left at the default, if the server becomes unresponsive, ssh will disconnect after approximately 45 seconds.

#### ServerAliveInterval

Sets a timeout interval in seconds after which if no data has been received from the server, ssh(1) will send a message through the encrypted channel to request a response from the server. The default is 0, indicating that these messages will not be sent to the server.

#### StreamLocalBindMask

Sets the octal file creation mode mask (umask) used when creating a Unix-domain socket file for local or remote port forwarding. This option is only used for port forwarding to a Unix-domain socket file.

The default value is 0177, which creates a Unix-domain socket file that is readable and writable only by the owner. Note that not all operating systems honor the file mode on Unix-domain socket files.

#### StreamLocalBindUnlink

Specifies whether to remove an existing Unix-domain socket file for local or remote port forwarding before creating a new one. If the socket file already exists and StreamLocalBindUnlink is not enabled, ssh will be unable to forward the port to the Unix-domain socket file. This option is only used for port forwarding to a Unix-domain socket file.

The argument must be M-bM-^@M-^yesM-bM-^@M-^ or M-bM-^@M-^noM-bM-^@M-^]. The default

is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### StrictHostKeyChecking

If this flag is set to `M-bM-^@M-^\yesM-bM-^@M-^]`, `ssh(1)` will never automatically add host keys to the `~/.ssh/known_hosts` file, and refuses to connect to hosts whose host key has changed. This provides maximum protection against trojan horse attacks, though it can be annoying when the `/etc/ssh/ssh_known_hosts` file is poorly maintained or when connections to new hosts are frequently made. This option forces the user to manually add all new hosts. If this flag is set to `M-bM-^@M-^\noM-bM-^@M-^]`, `ssh` will automatically add new host keys to the user known hosts files. If this flag is set to `M-bM-^@M-^\askM-bM-^@M-^]`, new host keys will be added to the user known host files only after the user has confirmed that is what they really want to do, and `ssh` will refuse to connect to hosts whose host key has changed. The host keys of known hosts will be verified automatically in all cases. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]`, `M-bM-^@M-^\noM-bM-^@M-^]`, or `M-bM-^@M-^\askM-bM-^@M-^]`. The default is `M-bM-^@M-^\askM-bM-^@M-^]`.

#### TCPKeepAlive

Specifies whether the system should send TCP keepalive messages to the other side. If they are sent, death of the connection or crash of one of the machines will be properly noticed. However, this means that connections will die if the route is down temporarily, and some people find it annoying.

The default is `M-bM-^@M-^\yesM-bM-^@M-^]` (to send TCP keepalive messages), and the client will notice if the network goes down or the remote host dies. This is important in scripts, and many users want it too.

To disable TCP keepalive messages, the value should be set to `M-bM-^@M-^\noM-bM-^@M-^]`.

**Tunnel** Request `tun(4)` device forwarding between the client and the server. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]`, `M-bM-^@M-^\point-to-pointM-bM-^@M-^]` (layer 3), `M-bM-^@M-^\ethernetM-bM-^@M-^]` (layer 2), or `M-bM-^@M-^\noM-bM-^@M-^]`. Specifying `M-bM-^@M-^\yesM-bM-^@M-^]` requests the default tunnel mode, which is `M-bM-^@M-^\point-to-pointM-bM-^@M-^]`. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### TunnelDevice

Specifies the `tun(4)` devices to open on the client (`local_tun`) and the server (`remote_tun`).

The argument must be `local_tun[:remote_tun]`. The devices may be specified by numerical ID or the keyword `M-bM-^@M-^\anyM-bM-^@M-^]`, which uses the

next available tunnel device. If `remote_tun` is not specified, it defaults to `M-bM-^@M-^\anyM-bM-^@M-^]`. The default is `M-bM-^@M-^\any:anyM-bM-^@M-^]`.

#### UpdateHostKeys

Specifies whether `ssh(1)` should accept notifications of additional hostkeys from the server sent after authentication has completed and add them to `UserKnownHostsFile`. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]`, `M-bM-^@M-^\noM-bM-^@M-^]` (the default) or `M-bM-^@M-^\askM-bM-^@M-^]`. Enabling this option allows learning alternate hostkeys for a server and supports graceful key rotation by allowing a server to send replacement public keys before old ones are removed. Additional hostkeys are only accepted if the key used to authenticate the host was already trusted or explicitly accepted by the user. If `UpdateHostKeys` is set to `M-bM-^@M-^\askM-bM-^@M-^]`, then the user is asked to confirm the modifications to the `known_hosts` file. Confirmation is currently incompatible with `ControlPersist`, and will be disabled if it is enabled.

Presently, only `sshd(8)` from OpenSSH 6.8 and greater support the `M-bM-^@M-^\hostkeys@openssh.comM-bM-^@M-^]` protocol extension used to inform the client of all the server's hostkeys.

#### UsePrivilegedPort

Specifies whether to use a privileged port for outgoing connections. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is `M-bM-^@M-^\noM-bM-^@M-^]`. If set to `M-bM-^@M-^\yesM-bM-^@M-^]`, `ssh(1)` must be setuid root.

Note that

this option must be set to `M-bM-^@M-^\yesM-bM-^@M-^]` for `RhostsRSAAuthentication` with older servers.

**User** Specifies the user to log in as. This can be useful when a different user name is used on different machines. This saves the trouble of having to remember to give the user name on the command line.

#### UserKnownHostsFile

Specifies one or more files to use for the user host key database, separated by whitespace. The default is `~/.ssh/known_hosts, ~/.ssh/known_hosts2`.

#### VerifyHostKeyDNS

Specifies whether to verify the remote key using DNS and SSHFP resource records. If this option is set to `M-bM-^@M-^\yesM-bM-^@M-^]`, the client will implicitly trust keys that match a secure fingerprint from DNS. Insecure fingerprints will be handled as if this option was set to `M-bM-^@M-^\askM-bM-^@M-^]`. If this option is set to `M-bM-^@M-^\askM-bM-^@M-^]`,

information on

fingerprints will be displayed, but the user will still need to confirm new host keys according to the `StrictHostKeyChecking` option. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]`, `M-bM-^@M-^\noM-bM-^@M-^]`, or `M-bM-^@M-^\askM-bM-^@M-^]`. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

See also `VERIFYING HOST KEYS` in `ssh(1)`.

#### VisualHostKey

If this flag is set to `M-bM-^@M-^\yesM-bM-^@M-^]`, an ASCII art representation of the remote host key fingerprint is printed in addition to the fingerprint string at login and for unknown host keys. If this flag is set to `M-bM-^@M-^\noM-bM-^@M-^]`, no fingerprint strings are printed at login and only the fingerprint string will be printed for unknown host keys. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### XAuthLocation

Specifies the full pathname of the `xauth(1)` program. The default is `/usr/X11R6/bin/xauth`.

## PATTERNS

A pattern consists of zero or more non-whitespace characters, `M-bM-^@M-^X*M-bM-^@M-^Y` (a wildcard that matches zero or more characters), or `M-bM-^@M-^X?M-bM-^@M-^Y` (a wildcard that matches exactly one character). For example, to specify a set of declarations for any host in the `M-bM-^@M-^\co.ukM-bM-^@M-^]` set of domains, the following pattern could be used:

```
Host *.co.uk
```

The following pattern would match any host in the `192.168.0.[0-9]` network range:

```
Host 192.168.0.?
```

A pattern-list is a comma-separated list of patterns. Patterns within pattern-lists may be negated by preceding them with an exclamation mark (`M-bM-^@M-^X!M-bM-^@M-^Y`). For example, to allow a key to be used from anywhere within an organization except from the `M-bM-^@M-^\dialupM-bM-^@M-^]` pool, the following entry (in `authorized_keys`) could be used:

```
from="!*dialup.example.com,*.example.com"
```

## FILES

```
~/.ssh/config
```

This is the per-user configuration file. The format of this file is described above. This file is used by the SSH client.

Because of the potential for abuse, this file must have strict

permissions: read/write for the user, and not accessible by others.

/etc/ssh/ssh\_config

Systemwide configuration file. This file provides defaults for those values that are not specified in the user's configuration file, and for those users who do not have a configuration file. This file must be world-readable.

## SEE ALSO

ssh(1)

## AUTHORS

OpenSSH is a derivative of the original and free ssh 1.2.12 release by Tatu Ylonen. Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos, Theo de Raadt and Dug Song removed many bugs, re-added newer features and created OpenSSH. Markus Friedl contributed the support for SSH protocol versions 1.5 and 2.0.

OpenBSD 5.9

February 20, 2016

OpenBSD 5.9

."

." Author: Tatu Ylonen <ylo@cs.hut.fi>

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." \$OpenBSD: ssh\_config.5,v 1.228 2016/02/20 23:01:46 sobrado Exp \$

.Dd \$Mdocdate: February 20 2016 \$

.Dt SSH\_CONFIG 5

.Os

.Sh NAME

.Nm ssh\_config

.Nd OpenSSH SSH client configuration files

.Sh SYNOPSIS

.Nm ~/.ssh/config

.Nm /etc/ssh/ssh\_config

.Sh DESCRIPTION

.Xr ssh 1

obtains configuration data from the following sources in  
the following order:

.Pp

.Bl -enum -offset indent -compact

.It

command-line options

.It

user's configuration file

.Pq Pa ~/.ssh/config

.It

system-wide configuration file

.Pq Pa /etc/ssh/ssh\_config

.El

.Pp

For each parameter, the first obtained value  
will be used.

The configuration files contain sections separated by

.Dq Host

specifications, and that section is only applied for hosts that  
match one of the patterns given in the specification.

The matched host name is usually the one given on the command line  
(see the

.Cm CanonicalizeHostname

option for exceptions.)

.Pp

Since the first obtained value for each parameter is used, more  
host-specific declarations should be given near the beginning of the  
file, and general defaults at the end.

.Pp

The configuration file has the following format:

.Pp

Empty lines and lines starting with

.Ql #

are comments.

Otherwise a line is of the format

.Dq keyword arguments .

Configuration options may be separated by whitespace or optional whitespace and exactly one

.Ql = ;

the latter format is useful to avoid the need to quote whitespace when specifying configuration options using the

.Nm ssh ,

.Nm scp ,

and

.Nm sftp

.Fl o

option.

Arguments may optionally be enclosed in double quotes

.Pq \&"

in order to represent arguments containing spaces.

.Pp

The possible

keywords and their meanings are as follows (note that keywords are case-insensitive and arguments are case-sensitive):

.Bl -tag -width Ds

.It Cm Host

Restricts the following declarations (up to the next

.Cm Host

or

.Cm Match

keyword) to be only for those hosts that match one of the patterns given after the keyword.

If more than one pattern is provided, they should be separated by whitespace.

A single

.Ql \*

as a pattern can be used to provide global defaults for all hosts.

The host is usually the

.Ar hostname

argument given on the command line

(see the

.Cm CanonicalizeHostname

option for exceptions.)

.Pp

A pattern entry may be negated by prefixing it with an exclamation mark

.Pq Sq !\& .

If a negated entry is matched, then the

.Cm Host

entry is ignored, regardless of whether any other patterns on the line match.

Negated matches are therefore useful to provide exceptions for wildcard matches.

.Pp

See

.Sx PATTERNS

for more information on patterns.

.It Cm Match

Restricts the following declarations (up to the next

.Cm Host

or

.Cm Match

keyword) to be used only when the conditions following the

.Cm Match

keyword are satisfied.

Match conditions are specified using one or more criteria

or the single token

.Cm all

which always matches.

The available criteria keywords are:

.Cm canonical ,

.Cm exec ,

.Cm host ,

.Cm originalhost ,

.Cm user ,

and

.Cm localuser .

The

.Cm all

criteria must appear alone or immediately after

.Cm canonical .

Other criteria may be combined arbitrarily.

All criteria but

.Cm all

and

.Cm canonical

require an argument.

Criteria may be negated by prepending an exclamation mark

.Pq Sq !\& .

.Pp

The

.Cm canonical

keyword matches only when the configuration file is being re-parsed

after hostname canonicalization (see the

.Cm CanonicalizeHostname

option.)



This may be useful to specify conditions that work with canonical host names only.

The

`.Cm exec`

keyword executes the specified command under the user's shell.

If the command returns a zero exit status then the condition is considered true.

Commands containing whitespace characters must be quoted.

The following character sequences in the command will be expanded prior to execution:

`.Ql %L`

will be substituted by the first component of the local host name,

`.Ql %l`

will be substituted by the local host name (including any domain name),

`.Ql %h`

will be substituted by the target host name,

`.Ql %n`

will be substituted by the original target host name

specified on the command-line,

`.Ql %p`

the destination port,

`.Ql %r`

by the remote login username, and

`.Ql %u`

by the username of the user running

`.Xr ssh 1 .`

`.Pp`

The other keywords' criteria must be single entries or comma-separated lists and may use the wildcard and negation operators described in the

`.Sx PATTERNS`

section.

The criteria for the

`.Cm host`

keyword are matched against the target hostname, after any substitution

by the

`.Cm Hostname`

or

`.Cm CanonicalizeHostname`

options.

The

`.Cm originalhost`

keyword matches against the hostname as it was specified on the command-line.

The

`.Cm user`

keyword matches against the target username on the remote host.

The

`.Cm localuser`

keyword matches against the name of the local user running

`.Xr ssh 1`

(this keyword may be useful in system-wide

.Nm

files).

.It Cm AddKeysToAgent

Specifies whether keys should be automatically added to a running

.Xr ssh-agent 1 .

If this option is set to

.Dq yes

and a key is loaded from a file, the key and its passphrase are added to the agent with the default lifetime, as if by

.Xr ssh-add 1 .

If this option is set to

.Dq ask ,

.Nm ssh

will require confirmation using the

.Ev SSH\_ASKPASS

program before adding a key (see

.Xr ssh-add 1

for details).

If this option is set to

.Dq confirm ,

each use of the key must be confirmed, as if the

.Fl c

option was specified to

.Xr ssh-add 1 .

If this option is set to

.Dq no ,

no keys are added to the agent.

The argument must be

.Dq yes ,

.Dq confirm ,

.Dq ask ,

or

.Dq no .

The default is

.Dq no .

.It Cm AddressFamily

Specifies which address family to use when connecting.

Valid arguments are

.Dq any ,

.Dq inet

(use IPv4 only), or

.Dq inet6

(use IPv6 only).

The default is

.Dq any .

.It Cm BatchMode

If set to

.Dq yes ,  
passphrase/password querying will be disabled.  
This option is useful in scripts and other batch jobs where no user  
is present to supply the password.  
The argument must be  
.Dq yes  
or  
.Dq no .  
The default is  
.Dq no .  
.It Cm BindAddress  
Use the specified address on the local machine as the source address of  
the connection.  
Only useful on systems with more than one address.  
Note that this option does not work if  
.Cm UsePrivilegedPort  
is set to  
.Dq yes .  
.It Cm CanonicalDomains  
When  
.Cm CanonicalizeHostname  
is enabled, this option specifies the list of domain suffixes in which to  
search for the specified destination host.  
.It Cm CanonicalizeFallbackLocal  
Specifies whether to fail with an error when hostname canonicalization fails.  
The default,  
.Dq yes ,  
will attempt to look up the unqualified hostname using the system resolver's  
search rules.  
A value of  
.Dq no  
will cause  
.Xr ssh 1  
to fail instantly if  
.Cm CanonicalizeHostname  
is enabled and the target hostname cannot be found in any of the domains  
specified by  
.Cm CanonicalDomains .  
.It Cm CanonicalizeHostname  
Controls whether explicit hostname canonicalization is performed.  
The default,  
.Dq no ,  
is not to perform any name rewriting and let the system resolver handle all  
hostname lookups.  
If set to  
.Dq yes  
then, for connections that do not use a  
.Cm ProxyCommand ,

.Xr ssh 1

will attempt to canonicalize the hostname specified on the command line using the

.Cm CanonicalDomains  
suffixes and

.Cm CanonicalizePermittedCNAMEs  
rules.

If

.Cm CanonicalizeHostname

is set to

.Dq always ,  
then canonicalization is applied to proxied connections too.

.Pp

If this option is enabled, then the configuration files are processed again using the new target name to pick up any new configuration in matching

.Cm Host  
and

.Cm Match  
stanzas.

.It Cm CanonicalizeMaxDots

Specifies the maximum number of dot characters in a hostname before canonicalization is disabled.

The default,

.Dq 1 ,  
allows a single dot (i.e. hostname.subdomain).

.It Cm CanonicalizePermittedCNAMEs

Specifies rules to determine whether CNAMEs should be followed when canonicalizing hostnames.

The rules consist of one or more arguments of

.Ar source\_domain\_list : Ns Ar target\_domain\_list ,  
where

.Ar source\_domain\_list

is a pattern-list of domains that may follow CNAMEs in canonicalization,  
and

.Ar target\_domain\_list

is a pattern-list of domains that they may resolve to.

.Pp

For example,

.Dq \*.a.example.com:\*.b.example.com,\*.c.example.com  
will allow hostnames matching

.Dq \*.a.example.com  
to be canonicalized to names in the

.Dq \*.b.example.com

or

.Dq \*.c.example.com

domains.

.It Cm CertificateFile

Specifies a file from which the user's certificate is read.

A corresponding private key must be provided separately in order to use this certificate either from an `.Cm IdentityFile` directive or `.Fl i` flag to `.Xr ssh 1`, via `.Xr ssh-agent 1`, or via a `.Cm PKCS11Provider`. `.Pp`

The file name may use the tilde syntax to refer to a user's home directory or one of the following escape characters:

`.Ql %d`  
(local user's home directory),  
`.Ql %u`  
(local user name),  
`.Ql %l`  
(local host name),  
`.Ql %h`  
(remote host name) or  
`.Ql %r`  
(remote user name).  
`.Pp`

It is possible to have multiple certificate files specified in configuration files; these certificates will be tried in sequence.

#### Multiple

`.Cm CertificateFile` directives will add to the list of certificates used for authentication.

`.It Cm ChallengeResponseAuthentication`  
Specifies whether to use challenge-response authentication. The argument to this keyword must be

`.Dq yes`  
or  
`.Dq no`.

The default is

`.Dq yes`.

`.It Cm CheckHostIP`

If this flag is set to

`.Dq yes`,  
`.Xr ssh 1`

will additionally check the host IP address in the

`.Pa known_hosts` file.

This allows ssh to detect if a host key changed due to DNS spoofing and will add addresses of destination hosts to

```
.Pa ~/.ssh/known_hosts
```

in the process, regardless of the setting of

```
.Cm StrictHostKeyChecking .
```

If the option is set to

```
.Dq no ,
```

the check will not be executed.

The default is

```
.Dq yes .
```

```
.It Cm Cipher
```

Specifies the cipher to use for encrypting the session in protocol version 1.

Currently,

```
.Dq blowfish ,
```

```
.Dq 3des ,
```

and

```
.Dq des
```

are supported.

```
.Ar des
```

is only supported in the

```
.Xr ssh 1
```

client for interoperability with legacy protocol 1 implementations that do not support the

```
.Ar 3des
```

cipher.

Its use is strongly discouraged due to cryptographic weaknesses.

The default is

```
.Dq 3des .
```

```
.It Cm Ciphers
```

Specifies the ciphers allowed for protocol version 2 in order of preference.

Multiple ciphers must be comma-separated.

If the specified value begins with a

```
.Sq +
```

character, then the specified ciphers will be appended to the default set instead of replacing them.

```
.Pp
```

The supported ciphers are:

```
.Pp
```

```
.Bl -item -compact -offset indent
```

```
.It
```

```
3des-cbc
```

```
.It
```

```
aes128-cbc
```

```
.It
```

```
aes192-cbc
```

```
.It
```

aes256-cbc  
.It  
aes128-ctr  
.It  
aes192-ctr  
.It  
aes256-ctr  
.It  
aes128-gcm@openssh.com  
.It  
aes256-gcm@openssh.com  
.It  
arcfour  
.It  
arcfour128  
.It  
arcfour256  
.It  
blowfish-cbc  
.It  
cast128-cbc  
.It  
chacha20-poly1305@openssh.com  
.El  
.Pp  
The default is:  
.Bd -literal -offset indent  
chacha20-poly1305@openssh.com,  
aes128-ctr,aes192-ctr,aes256-ctr,  
aes128-gcm@openssh.com,aes256-gcm@openssh.com,  
aes128-cbc,aes192-cbc,aes256-cbc,3des-cbc  
.Ed  
.Pp

The list of available ciphers may also be obtained using the

.Fl Q  
option of  
.Xr ssh 1  
with an argument of  
.Dq cipher .  
.It Cm ClearAllForwardings

Specifies that all local, remote, and dynamic port forwardings specified in the configuration files or on the command line be cleared.

This option is primarily useful when used from the

.Xr ssh 1  
command line to clear port forwardings set in configuration files, and is automatically set by  
.Xr scp 1

and

.Xr sftp 1 .

The argument must be

.Dq yes

or

.Dq no .

The default is

.Dq no .

.It Cm Compression

Specifies whether to use compression.

The argument must be

.Dq yes

or

.Dq no .

The default is

.Dq no .

.It Cm CompressionLevel

Specifies the compression level to use if compression is enabled.

The argument must be an integer from 1 (fast) to 9 (slow, best).

The default level is 6, which is good for most applications.

The meaning of the values is the same as in

.Xr gzip 1 .

Note that this option applies to protocol version 1 only.

.It Cm ConnectionAttempts

Specifies the number of tries (one per second) to make before exiting.

The argument must be an integer.

This may be useful in scripts if the connection sometimes fails.

The default is 1.

.It Cm ConnectTimeout

Specifies the timeout (in seconds) used when connecting to the SSH server, instead of using the default system TCP timeout.

This value is used only when the target is down or really unreachable, not when it refuses the connection.

.It Cm ControlMaster

Enables the sharing of multiple sessions over a single network connection.

When set to

.Dq yes ,

.Xr ssh 1

will listen for connections on a control socket specified using the

.Cm ControlPath

argument.

Additional sessions can connect to this socket using the same

.Cm ControlPath

with

.Cm ControlMaster

set to

.Dq no

(the default).



These sessions will try to reuse the master instance's network connection rather than initiating new ones, but will fall back to connecting normally if the control socket does not exist, or is not listening.

.Pp

Setting this to

.Dq ask

will cause ssh

to listen for control connections, but require confirmation using

.Xr ssh-askpass 1 .

If the

.Cm ControlPath

cannot be opened,

ssh will continue without connecting to a master instance.

.Pp

X11 and

.Xr ssh-agent 1

forwarding is supported over these multiplexed connections, however the display and agent forwarded will be the one belonging to the master connection i.e. it is not possible to forward multiple displays or agents.

.Pp

Two additional options allow for opportunistic multiplexing: try to use a master connection but fall back to creating a new one if one does not already exist.

These options are:

.Dq auto

and

.Dq autoask .

The latter requires confirmation like the

.Dq ask

option.

.It Cm ControlPath

Specify the path to the control socket used for connection sharing as described in the

.Cm ControlMaster

section above or the string

.Dq none

to disable connection sharing.

In the path,

.Ql %L

will be substituted by the first component of the local host name,

.Ql %l

will be substituted by the local host name (including any domain name),

.Ql %h

will be substituted by the target host name,

.Ql %n

will be substituted by the original target host name

specified on the command line,

.Ql %p

the destination port,

.Ql %r

by the remote login username,

.Ql %u

by the username and

.Ql %i

by the numeric user ID (uid) of the user running

.Xr ssh 1 ,

and

.Ql \&%C

by a hash of the concatenation: %l%h%p%r.

It is recommended that any

.Cm ControlPath

used for opportunistic connection sharing include

at least %h, %p, and %r (or alternatively %C) and be placed in a directory

that is not writable by other users.

This ensures that shared connections are uniquely identified.

.It Cm ControlPersist

When used in conjunction with

.Cm ControlMaster ,

specifies that the master connection should remain open

in the background (waiting for future client connections)

after the initial client connection has been closed.

If set to

.Dq no ,

then the master connection will not be placed into the background,

and will close as soon as the initial client connection is closed.

If set to

.Dq yes

or

.Dq 0 ,

then the master connection will remain in the background indefinitely

(until killed or closed via a mechanism such as the

.Xr ssh 1

.Dq Fl O No exit

option).

If set to a time in seconds, or a time in any of the formats documented in

.Xr sshd\_config 5 ,

then the backgrounded master connection will automatically terminate

after it has remained idle (with no client connections) for the

specified time.

.It Cm DynamicForward

Specifies that a TCP port on the local machine be forwarded

over the secure channel, and the application

protocol is then used to determine where to connect to from the

remote machine.

.Pp

The argument must be

.Sm off  
.Oo Ar bind\_address : Oc Ar port .  
.Sm on  
IPv6 addresses can be specified by enclosing addresses in square brackets.  
By default, the local port is bound in accordance with the  
.Cm GatewayPorts  
setting.  
However, an explicit  
.Ar bind\_address  
may be used to bind the connection to a specific address.  
The  
.Ar bind\_address  
of  
.Dq localhost  
indicates that the listening port be bound for local use only, while an  
empty address or  
.Sq \*  
indicates that the port should be available from all interfaces.  
.Pp  
Currently the SOCKS4 and SOCKS5 protocols are supported, and  
.Xr ssh 1  
will act as a SOCKS server.  
Multiple forwardings may be specified, and  
additional forwardings can be given on the command line.  
Only the superuser can forward privileged ports.  
.It Cm EnableSSHKeysign  
Setting this option to  
.Dq yes  
in the global client configuration file  
.Pa /etc/ssh/ssh\_config  
enables the use of the helper program  
.Xr ssh-keysign 8  
during  
.Cm HostbasedAuthentication .  
The argument must be  
.Dq yes  
or  
.Dq no .  
The default is  
.Dq no .  
This option should be placed in the non-hostspecific section.  
See  
.Xr ssh-keysign 8  
for more information.  
.It Cm EscapeChar  
Sets the escape character (default:  
.Ql ~ ) .  
The escape character can also

be set on the command line.

The argument should be a single character,

.Ql ^

followed by a letter, or

.Dq none

to disable the escape

character entirely (making the connection transparent for binary data).

.It Cm ExitOnForwardFailure

Specifies whether

.Xr ssh 1

should terminate the connection if it cannot set up all requested dynamic, tunnel, local, and remote port forwardings, (e.g. \& if either end is unable to bind and listen on a specified port).

Note that

.Cm ExitOnForwardFailure

does not apply to connections made over port forwardings and will not, for example, cause

.Xr ssh 1

to exit if TCP connections to the ultimate forwarding destination fail.

The argument must be

.Dq yes

or

.Dq no .

The default is

.Dq no .

.It Cm FingerprintHash

Specifies the hash algorithm used when displaying key fingerprints.

Valid options are:

.Dq md5

and

.Dq sha256 .

The default is

.Dq sha256 .

.It Cm ForwardAgent

Specifies whether the connection to the authentication agent (if any) will be forwarded to the remote machine.

The argument must be

.Dq yes

or

.Dq no .

The default is

.Dq no .

.Pp

Agent forwarding should be enabled with caution.

Users with the ability to bypass file permissions on the remote host (for the agent's Unix-domain socket)

can access the local agent through the forwarded connection.

An attacker cannot obtain key material from the agent, however they can perform operations on the keys that enable them to authenticate using the identities loaded into the agent.

.It Cm ForwardX11

Specifies whether X11 connections will be automatically redirected over the secure channel and

.Ev DISPLAY

set.

The argument must be

.Dq yes

or

.Dq no .

The default is

.Dq no .

.Pp

X11 forwarding should be enabled with caution.

Users with the ability to bypass file permissions on the remote host (for the user's X11 authorization database)

can access the local X11 display through the forwarded connection.

An attacker may then be able to perform activities such as keystroke monitoring if the

.Cm ForwardX11Trusted

option is also enabled.

.It Cm ForwardX11Timeout

Specify a timeout for untrusted X11 forwarding

using the format described in the

TIME FORMATS section of

.Xr sshd\_config 5 .

X11 connections received by

.Xr ssh 1

after this time will be refused.

The default is to disable untrusted X11 forwarding after twenty minutes has elapsed.

.It Cm ForwardX11Trusted

If this option is set to

.Dq yes ,

remote X11 clients will have full access to the original X11 display.

.Pp

If this option is set to

.Dq no ,

remote X11 clients will be considered untrusted and prevented from stealing or tampering with data belonging to trusted X11 clients.

Furthermore, the

.Xr xauth 1

token used for the session will be set to expire after 20 minutes.

Remote clients will be refused access after this time.

.Pp

The default is

.Dq no .

.Pp

See the X11 SECURITY extension specification for full details on the restrictions imposed on untrusted clients.

.It Cm GatewayPorts

Specifies whether remote hosts are allowed to connect to local forwarded ports.

By default,

.Xr ssh 1

binds local port forwardings to the loopback address.

This prevents other remote hosts from connecting to forwarded ports.

.Cm GatewayPorts

can be used to specify that ssh

should bind local port forwardings to the wildcard address,

thus allowing remote hosts to connect to forwarded ports.

The argument must be

.Dq yes

or

.Dq no .

The default is

.Dq no .

.It Cm GlobalKnownHostsFile

Specifies one or more files to use for the global host key database, separated by whitespace.

The default is

.Pa /etc/ssh/ssh\_known\_hosts ,

.Pa /etc/ssh/ssh\_known\_hosts2 .

.It Cm GSSAPIAuthentication

Specifies whether user authentication based on GSSAPI is allowed.

The default is

.Dq no .

.It Cm GSSAPIDelegateCredentials

Forward (delegate) credentials to the server.

The default is

.Dq no .

.It Cm HashKnownHosts

Indicates that

.Xr ssh 1

should hash host names and addresses when they are added to

.Pa ~/.ssh/known\_hosts .

These hashed names may be used normally by

.Xr ssh 1

and

.Xr sshd 8 ,

but they do not reveal identifying information should the file's contents be disclosed.

The default is

.Dq no .

Note that existing names and addresses in known hosts files will not be converted automatically, but may be manually hashed using

.Xr ssh-keygen 1 .

.It Cm HostbasedAuthentication

Specifies whether to try rhosts based authentication with public key authentication.

The argument must be

.Dq yes

or

.Dq no .

The default is

.Dq no .

.It Cm HostbasedKeyTypes

Specifies the key types that will be used for hostbased authentication as a comma-separated pattern list.

Alternately if the specified value begins with a

.Sq +

character, then the specified key types will be appended to the default set instead of replacing them.

The default for this option is:

.Bd -literal -offset 3n

ecdsa-sha2-nistp256-cert-v01@openssh.com,

ecdsa-sha2-nistp384-cert-v01@openssh.com,

ecdsa-sha2-nistp521-cert-v01@openssh.com,

ssh-ed25519-cert-v01@openssh.com,

ssh-rsa-cert-v01@openssh.com,

ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,

ssh-ed25519,ssh-rsa

.Ed

.Pp

The

.Fl Q

option of

.Xr ssh 1

may be used to list supported key types.

.It Cm HostKeyAlgorithms

Specifies the host key algorithms

that the client wants to use in order of preference.

Alternately if the specified value begins with a

.Sq +

character, then the specified key types will be appended to the default set instead of replacing them.

The default for this option is:

.Bd -literal -offset 3n

ecdsa-sha2-nistp256-cert-v01@openssh.com,

ecdsa-sha2-nistp384-cert-v01@openssh.com,

ecdsa-sha2-nistp521-cert-v01@openssh.com,  
ssh-ed25519-cert-v01@openssh.com,  
ssh-rsa-cert-v01@openssh.com,  
ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,  
ssh-ed25519,ssh-rsa

.Ed

.Pp

If hostkeys are known for the destination host then this default is modified to prefer their algorithms.

.Pp

The list of available key types may also be obtained using the

.Fl Q

option of

.Xr ssh 1

with an argument of

.Dq key .

.It Cm HostKeyAlias

Specifies an alias that should be used instead of the real host name when looking up or saving the host key in the host key database files.

This option is useful for tunneling SSH connections or for multiple servers running on a single host.

.It Cm HostName

Specifies the real host name to log into.

This can be used to specify nicknames or abbreviations for hosts.

If the hostname contains the character sequence

.Ql %h ,

then this will be replaced with the host name specified on the command line (this is useful for manipulating unqualified names).

The character sequence

.Ql %%

will be replaced by a single

.Ql %

character, which may be used when specifying IPv6 link-local addresses.

.Pp

The default is the name given on the command line.

Numeric IP addresses are also permitted (both on the command line and in

.Cm HostName

specifications).

.It Cm IdentitiesOnly

Specifies that

.Xr ssh 1

should only use the authentication identity and certificate files explicitly configured in the

.Nm

files

or passed on the

.Xr ssh 1



command-line,

even if

.Xr ssh-agent 1

or a

.Cm PKCS11Provider

offers more identities.

The argument to this keyword must be

.Dq yes

or

.Dq no .

This option is intended for situations where ssh-agent

offers many different identities.

The default is

.Dq no .

.It Cm IdentityFile

Specifies a file from which the user's DSA, ECDSA, Ed25519 or RSA authentication identity is read.

The default is

.Pa ~/.ssh/identity

for protocol version 1, and

.Pa ~/.ssh/id\_dsa ,

.Pa ~/.ssh/id\_ecdsa ,

.Pa ~/.ssh/id\_ed25519

and

.Pa ~/.ssh/id\_rsa

for protocol version 2.

Additionally, any identities represented by the authentication agent

will be used for authentication unless

.Cm IdentitiesOnly

is set.

If no certificates have been explicitly specified by

.Cm CertificateFile ,

.Xr ssh 1

will try to load certificate information from the filename obtained by

appending

.Pa -cert.pub

to the path of a specified

.Cm IdentityFile .

.Pp

The file name may use the tilde

syntax to refer to a user's home directory or one of the following

escape characters:

.Ql %d

(local user's home directory),

.Ql %u

(local user name),

.Ql %l

(local host name),

.Ql %h

(remote host name) or

.Ql %r

(remote user name).

.Pp

It is possible to have

multiple identity files specified in configuration files; all these identities will be tried in sequence.

Multiple

.Cm IdentityFile

directives will add to the list of identities tried (this behaviour differs from that of other configuration directives).

.Pp

.Cm IdentityFile

may be used in conjunction with

.Cm IdentitiesOnly

to select which identities in an agent are offered during authentication.

.Cm IdentityFile

may also be used in conjunction with

.Cm CertificateFile

in order to provide any certificate also needed for authentication with the identity.

.It Cm IgnoreUnknown

Specifies a pattern-list of unknown options to be ignored if they are encountered in configuration parsing.

This may be used to suppress errors if

.Nm

contains options that are unrecognised by

.Xr ssh 1 .

It is recommended that

.Cm IgnoreUnknown

be listed early in the configuration file as it will not be applied to unknown options that appear before it.

.It Cm IPQoS

Specifies the IPv4 type-of-service or DSCP class for connections.

Accepted values are

.Dq af11 ,

.Dq af12 ,

.Dq af13 ,

.Dq af21 ,

.Dq af22 ,

.Dq af23 ,

.Dq af31 ,

.Dq af32 ,

.Dq af33 ,

.Dq af41 ,

.Dq af42 ,

.Dq af43 ,

.Dq cs0 ,  
.Dq cs1 ,  
.Dq cs2 ,  
.Dq cs3 ,  
.Dq cs4 ,  
.Dq cs5 ,  
.Dq cs6 ,  
.Dq cs7 ,  
.Dq ef ,  
.Dq lowdelay ,  
.Dq throughput ,  
.Dq reliability ,  
or a numeric value.

This option may take one or two arguments, separated by whitespace.

If one argument is specified, it is used as the packet class unconditionally.

If two values are specified, the first is automatically selected for interactive sessions and the second for non-interactive sessions.

The default is

.Dq lowdelay

for interactive sessions and

.Dq throughput

for non-interactive sessions.

.It Cm KbdInteractiveAuthentication

Specifies whether to use keyboard-interactive authentication.

The argument to this keyword must be

.Dq yes

or

.Dq no .

The default is

.Dq yes .

.It Cm KbdInteractiveDevices

Specifies the list of methods to use in keyboard-interactive authentication.

Multiple method names must be comma-separated.

The default is to use the server specified list.

The methods available vary depending on what the server supports.

For an OpenSSH server,

it may be zero or more of:

.Dq bsdauth ,

.Dq pam ,

and

.Dq skey .

.It Cm KexAlgorithms

Specifies the available KEX (Key Exchange) algorithms.

Multiple algorithms must be comma-separated.

Alternately if the specified value begins with a

.Sq +

character, then the specified methods will be appended to the default set

instead of replacing them.

The default is:

.Bd -literal -offset indent

curve25519-sha256@libssh.org,

ecdh-sha2-nistp256,ecdh-sha2-nistp384,ecdh-sha2-nistp521,

diffie-hellman-group-exchange-sha256,

diffie-hellman-group-exchange-sha1,

diffie-hellman-group14-sha1

.Ed

.Pp

The list of available key exchange algorithms may also be obtained using the

.Fl Q

option of

.Xr ssh 1

with an argument of

.Dq kex .

.It Cm LocalCommand

Specifies a command to execute on the local machine after successfully connecting to the server.

The command string extends to the end of the line, and is executed with the user's shell.

The following escape character substitutions will be performed:

.Ql %d

(local user's home directory),

.Ql %h

(remote host name),

.Ql %l

(local host name),

.Ql %n

(host name as provided on the command line),

.Ql %p

(remote port),

.Ql %r

(remote user name) or

.Ql %u

(local user name) or

.Ql \&%C

by a hash of the concatenation: %l%h%p%r.

.Pp

The command is run synchronously and does not have access to the session of the

.Xr ssh 1

that spawned it.

It should not be used for interactive commands.

.Pp

This directive is ignored unless

.Cm PermitLocalCommand

has been enabled.

.It Cm LocalForward

Specifies that a TCP port on the local machine be forwarded over the secure channel to the specified host and port from the remote machine.

The first argument must be

`.Sm off`

`.Oo Ar bind_address : Oc Ar port`

`.Sm on`

and the second argument must be

`.Ar host : Ns Ar hostport .`

IPv6 addresses can be specified by enclosing addresses in square brackets.

Multiple forwardings may be specified, and additional forwardings can be given on the command line.

Only the superuser can forward privileged ports.

By default, the local port is bound in accordance with the

`.Cm GatewayPorts`

setting.

However, an explicit

`.Ar bind_address`

may be used to bind the connection to a specific address.

The

`.Ar bind_address`

of

`.Dq localhost`

indicates that the listening port be bound for local use only, while an empty address or

`.Sq *`

indicates that the port should be available from all interfaces.

`.It Cm LogLevel`

Gives the verbosity level that is used when logging messages from

`.Xr ssh 1 .`

The possible values are:

QUIET, FATAL, ERROR, INFO, VERBOSE, DEBUG, DEBUG1, DEBUG2, and DEBUG3.

The default is INFO.

DEBUG and DEBUG1 are equivalent.

DEBUG2 and DEBUG3 each specify higher levels of verbose output.

`.It Cm MACs`

Specifies the MAC (message authentication code) algorithms

in order of preference.

The MAC algorithm is used for data integrity protection.

Multiple algorithms must be comma-separated.

If the specified value begins with a

`.Sq +`

character, then the specified algorithms will be appended to the default set instead of replacing them.

`.Pp`

The algorithms that contain

`.Dq -etm`

calculate the MAC after encryption (encrypt-then-mac).

These are considered safer and their use recommended.

.Pp

The default is:

.Bd -literal -offset indent

umac-64-etm@openssh.com,umac-128-etm@openssh.com,  
hmac-sha2-256-etm@openssh.com,hmac-sha2-512-etm@openssh.com,  
hmac-sha1-etm@openssh.com,  
umac-64@openssh.com,umac-128@openssh.com,  
hmac-sha2-256,hmac-sha2-512,hmac-sha1

.Ed

.Pp

The list of available MAC algorithms may also be obtained using the

.F1 Q

option of

.Xr ssh 1

with an argument of

.Dq mac .

.It Cm NoHostAuthenticationForLocalhost

This option can be used if the home directory is shared across machines.

In this case localhost will refer to a different machine on each of  
the machines and the user will get many warnings about changed host keys.

However, this option disables host authentication for localhost.

The argument to this keyword must be

.Dq yes

or

.Dq no .

The default is to check the host key for localhost.

.It Cm NumberOfPasswordPrompts

Specifies the number of password prompts before giving up.

The argument to this keyword must be an integer.

The default is 3.

.It Cm PasswordAuthentication

Specifies whether to use password authentication.

The argument to this keyword must be

.Dq yes

or

.Dq no .

The default is

.Dq yes .

.It Cm PermitLocalCommand

Allow local command execution via the

.Ic LocalCommand

option or using the

.Ic !\& Ns Ar command

escape sequence in

.Xr ssh 1 .

The argument must be

.Dq yes

or

.Dq no .

The default is

.Dq no .

.It Cm PKCS11Provider

Specifies which PKCS#11 provider to use.

The argument to this keyword is the PKCS#11 shared library

.Xr ssh 1

should use to communicate with a PKCS#11 token providing the user's private RSA key.

.It Cm Port

Specifies the port number to connect on the remote host.

The default is 22.

.It Cm PreferredAuthentications

Specifies the order in which the client should try authentication methods.

This allows a client to prefer one method (e.g.\&

.Cm keyboard-interactive )

over another method (e.g.\&

.Cm password ) .

The default is:

.Bd -literal -offset indent

gssapi-with-mic,hostbased,publickey,

keyboard-interactive,password

.Ed

.It Cm Protocol

Specifies the protocol versions

.Xr ssh 1

should support in order of preference.

The possible values are

.Sq 1

and

.Sq 2 .

Multiple versions must be comma-separated.

When this option is set to

.Dq 2,1

.Nm ssh

will try version 2 and fall back to version 1

if version 2 is not available.

The default is

.Sq 2 .

Protocol 1 suffers from a number of cryptographic weaknesses and should not be used.

It is only offered to support legacy devices.

.It Cm ProxyCommand

Specifies the command to use to connect to the server.

The command

string extends to the end of the line, and is executed

using the user's shell

.Ql exec

directive to avoid a lingering shell process.

.Pp

In the command string, any occurrence of

.Ql %h

will be substituted by the host name to

connect,

.Ql %p

by the port, and

.Ql %r

by the remote user name.

The command can be basically anything,

and should read from its standard input and write to its standard output.

It should eventually connect an

.Xr sshd 8

server running on some machine, or execute

.Ic sshd -i

somewhere.

Host key management will be done using the

HostName of the host being connected (defaulting to the name typed by

the user).

Setting the command to

.Dq none

disables this option entirely.

Note that

.Cm CheckHostIP

is not available for connects with a proxy command.

.Pp

This directive is useful in conjunction with

.Xr nc 1

and its proxy support.

For example, the following directive would connect via an HTTP proxy at 192.0.2.0:

.Bd -literal -offset 3n

ProxyCommand /usr/bin/nc -X connect -x 192.0.2.0:8080 %h %p

.Ed

.It Cm ProxyUseFdpass

Specifies that

.Cm ProxyCommand

will pass a connected file descriptor back to

.Xr ssh 1

instead of continuing to execute and pass data.

The default is

.Dq no .

.It Cm PubkeyAcceptedKeyTypes

Specifies the key types that will be used for public key authentication

as a comma-separated pattern list.

Alternately if the specified value begins with a

.Sq +



character, then the key types after it will be appended to the default instead of replacing it.

The default for this option is:

.Bd -literal -offset 3n

ecdsa-sha2-nistp256-cert-v01@openssh.com,

ecdsa-sha2-nistp384-cert-v01@openssh.com,

ecdsa-sha2-nistp521-cert-v01@openssh.com,

ssh-ed25519-cert-v01@openssh.com,

ssh-rsa-cert-v01@openssh.com,

ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,

ssh-ed25519,ssh-rsa

.Ed

.Pp

The

.Fl Q

option of

.Xr ssh 1

may be used to list supported key types.

.It Cm PubkeyAuthentication

Specifies whether to try public key authentication.

The argument to this keyword must be

.Dq yes

or

.Dq no .

The default is

.Dq yes .

.It Cm RekeyLimit

Specifies the maximum amount of data that may be transmitted before the session key is renegotiated, optionally followed a maximum amount of time that may pass before the session key is renegotiated.

The first argument is specified in bytes and may have a suffix of

.Sq K ,

.Sq M ,

or

.Sq G

to indicate Kilobytes, Megabytes, or Gigabytes, respectively.

The default is between

.Sq 1G

and

.Sq 4G ,

depending on the cipher.

The optional second value is specified in seconds and may use any of the units documented in the

TIME FORMATS section of

.Xr sshd\_config 5 .

The default value for

.Cm RekeyLimit

is

.Dq default none ,  
which means that rekeying is performed after the cipher's default amount of data has been sent or received and no time based rekeying is done.

.It Cm RemoteForward

Specifies that a TCP port on the remote machine be forwarded over the secure channel to the specified host and port from the local machine.

The first argument must be

.Sm off

.Oo Ar bind\_address : Oc Ar port

.Sm on

and the second argument must be

.Ar host : Ns Ar hostport .

IPv6 addresses can be specified by enclosing addresses in square brackets.

Multiple forwardings may be specified, and additional forwardings can be given on the command line.

Privileged ports can be forwarded only when logging in as root on the remote machine.

.Pp

If the

.Ar port

argument is

.Ql 0 ,

the listen port will be dynamically allocated on the server and reported to the client at run time.

.Pp

If the

.Ar bind\_address

is not specified, the default is to only bind to loopback addresses.

If the

.Ar bind\_address

is

.Ql \*

or an empty string, then the forwarding is requested to listen on all interfaces.

Specifying a remote

.Ar bind\_address

will only succeed if the server's

.Cm GatewayPorts

option is enabled (see

.Xr sshd\_config 5 ) .

.It Cm RequestTTY

Specifies whether to request a pseudo-tty for the session.

The argument may be one of:

.Dq no

(never request a TTY),

.Dq yes

(always request a TTY when standard input is a TTY),

.Dq force

(always request a TTY) or

.Dq auto

(request a TTY when opening a login session).

This option mirrors the

.Fl t

and

.Fl T

flags for

.Xr ssh 1 .

.It Cm RevokedHostKeys

Specifies revoked host public keys.

Keys listed in this file will be refused for host authentication.

Note that if this file does not exist or is not readable,

then host authentication will be refused for all hosts.

Keys may be specified as a text file, listing one public key per line, or as an OpenSSH Key Revocation List (KRL) as generated by

.Xr ssh-keygen 1 .

For more information on KRLs, see the KEY REVOCATION LISTS section in

.Xr ssh-keygen 1 .

.It Cm RhostsRSAAuthentication

Specifies whether to try rhosts based authentication with RSA host authentication.

The argument must be

.Dq yes

or

.Dq no .

The default is

.Dq no .

This option applies to protocol version 1 only and requires

.Xr ssh 1

to be setuid root.

.It Cm RSAAuthentication

Specifies whether to try RSA authentication.

The argument to this keyword must be

.Dq yes

or

.Dq no .

RSA authentication will only be

attempted if the identity file exists, or an authentication agent is running.

The default is

.Dq yes .

Note that this option applies to protocol version 1 only.

.It Cm SendEnv

Specifies what variables from the local

.Xr environ 7

should be sent to the server.

The server must also support it, and the server must be configured to

accept these environment variables.

Note that the

.Ev TERM

environment variable is always sent whenever a pseudo-terminal is requested as it is required by the protocol.

Refer to

.Cm AcceptEnv

in

.Xr sshd\_config 5

for how to configure the server.

Variables are specified by name, which may contain wildcard characters.

Multiple environment variables may be separated by whitespace or spread across multiple

.Cm SendEnv

directives.

The default is not to send any environment variables.

.Pp

See

.Sx PATTERNS

for more information on patterns.

.It Cm ServerAliveCountMax

Sets the number of server alive messages (see below) which may be sent without

.Xr ssh 1

receiving any messages back from the server.

If this threshold is reached while server alive messages are being sent, ssh will disconnect from the server, terminating the session.

It is important to note that the use of server alive messages is very different from

.Cm TCPKeepAlive

(below).

The server alive messages are sent through the encrypted channel and therefore will not be spoofable.

The TCP keepalive option enabled by

.Cm TCPKeepAlive

is spoofable.

The server alive mechanism is valuable when the client or server depend on knowing when a connection has become inactive.

.Pp

The default value is 3.

If, for example,

.Cm ServerAliveInterval

(see below) is set to 15 and

.Cm ServerAliveCountMax

is left at the default, if the server becomes unresponsive,

ssh will disconnect after approximately 45 seconds.

.It Cm ServerAliveInterval

Sets a timeout interval in seconds after which if no data has been received

from the server,

.Xr ssh 1

will send a message through the encrypted channel to request a response from the server.

The default

is 0, indicating that these messages will not be sent to the server.

.It Cm StreamLocalBindMask

Sets the octal file creation mode mask

.Pq umask

used when creating a Unix-domain socket file for local or remote port forwarding.

This option is only used for port forwarding to a Unix-domain socket file.

.Pp

The default value is 0177, which creates a Unix-domain socket file that is readable and writable only by the owner.

Note that not all operating systems honor the file mode on Unix-domain socket files.

.It Cm StreamLocalBindUnlink

Specifies whether to remove an existing Unix-domain socket file for local or remote port forwarding before creating a new one.

If the socket file already exists and

.Cm StreamLocalBindUnlink

is not enabled,

.Nm ssh

will be unable to forward the port to the Unix-domain socket file.

This option is only used for port forwarding to a Unix-domain socket file.

.Pp

The argument must be

.Dq yes

or

.Dq no .

The default is

.Dq no .

.It Cm StrictHostKeyChecking

If this flag is set to

.Dq yes ,

.Xr ssh 1

will never automatically add host keys to the

.Pa ~/.ssh/known\_hosts

file, and refuses to connect to hosts whose host key has changed.

This provides maximum protection against trojan horse attacks, though it can be annoying when the

.Pa /etc/ssh/ssh\_known\_hosts

file is poorly maintained or when connections to new hosts are frequently made.

This option forces the user to manually add all new hosts.

If this flag is set to

.Dq no ,  
ssh will automatically add new host keys to the  
user known hosts files.  
If this flag is set to  
.Dq ask ,  
new host keys  
will be added to the user known host files only after the user  
has confirmed that is what they really want to do, and  
ssh will refuse to connect to hosts whose host key has changed.  
The host keys of  
known hosts will be verified automatically in all cases.  
The argument must be  
.Dq yes ,  
.Dq no ,  
or  
.Dq ask .  
The default is  
.Dq ask .  
.It Cm TCPKeepAlive  
Specifies whether the system should send TCP keepalive messages to the  
other side.  
If they are sent, death of the connection or crash of one  
of the machines will be properly noticed.  
However, this means that  
connections will die if the route is down temporarily, and some people  
find it annoying.  
.Pp  
The default is  
.Dq yes  
(to send TCP keepalive messages), and the client will notice  
if the network goes down or the remote host dies.  
This is important in scripts, and many users want it too.  
.Pp  
To disable TCP keepalive messages, the value should be set to  
.Dq no .  
.It Cm Tunnel  
Request  
.Xr tun 4  
device forwarding between the client and the server.  
The argument must be  
.Dq yes ,  
.Dq point-to-point  
(layer 3),  
.Dq ethernet  
(layer 2),  
or  
.Dq no .  
Specifying

.Dq yes  
 requests the default tunnel mode, which is  
 .Dq point-to-point .  
 The default is  
 .Dq no .  
 .It Cm TunnelDevice  
 Specifies the  
 .Xr tun 4  
 devices to open on the client  
 .Pq Ar local\_tun  
 and the server  
 .Pq Ar remote\_tun .  
 .Pp  
 The argument must be  
 .Sm off  
 .Ar local\_tun Op : Ar remote\_tun .  
 .Sm on  
 The devices may be specified by numerical ID or the keyword  
 .Dq any ,  
 which uses the next available tunnel device.  
 If  
 .Ar remote\_tun  
 is not specified, it defaults to  
 .Dq any .  
 The default is  
 .Dq any:any .  
 .It Cm UpdateHostKeys  
 Specifies whether  
 .Xr ssh 1  
 should accept notifications of additional hostkeys from the server sent  
 after authentication has completed and add them to  
 .Cm UserKnownHostsFile .  
 The argument must be  
 .Dq yes ,  
 .Dq no  
 (the default) or  
 .Dq ask .  
 Enabling this option allows learning alternate hostkeys for a server  
 and supports graceful key rotation by allowing a server to send replacement  
 public keys before old ones are removed.  
 Additional hostkeys are only accepted if the key used to authenticate the  
 host was already trusted or explicitly accepted by the user.  
 If  
 .Cm UpdateHostKeys  
 is set to  
 .Dq ask ,  
 then the user is asked to confirm the modifications to the known\_hosts file.  
 Confirmation is currently incompatible with

.Cm ControlPersist ,  
and will be disabled if it is enabled.

.Pp  
Presently, only

.Xr sshd 8  
from OpenSSH 6.8 and greater support the  
.Dq hostkeys@openssh.com  
protocol extension used to inform the client of all the server's hostkeys.

.It Cm UsePrivilegedPort  
Specifies whether to use a privileged port for outgoing connections.  
The argument must be  
.Dq yes  
or  
.Dq no .  
The default is  
.Dq no .  
If set to  
.Dq yes ,  
.Xr ssh 1  
must be setuid root.  
Note that this option must be set to  
.Dq yes  
for  
.Cm RhostsRSAAuthentication  
with older servers.

.It Cm User  
Specifies the user to log in as.  
This can be useful when a different user name is used on different machines.  
This saves the trouble of  
having to remember to give the user name on the command line.

.It Cm UserKnownHostsFile  
Specifies one or more files to use for the user  
host key database, separated by whitespace.  
The default is  
.Pa ~/.ssh/known\_hosts ,  
.Pa ~/.ssh/known\_hosts2 .

.It Cm VerifyHostKeyDNS  
Specifies whether to verify the remote key using DNS and SSHFP resource  
records.  
If this option is set to  
.Dq yes ,  
the client will implicitly trust keys that match a secure fingerprint  
from DNS.  
Insecure fingerprints will be handled as if this option was set to  
.Dq ask .  
If this option is set to  
.Dq ask ,  
information on fingerprint match will be displayed, but the user will still



need to confirm new host keys according to the

.Cm StrictHostKeyChecking

option.

The argument must be

.Dq yes ,

.Dq no ,

or

.Dq ask .

The default is

.Dq no .

.Pp

See also VERIFYING HOST KEYS in

.Xr ssh 1 .

.It Cm VisualHostKey

If this flag is set to

.Dq yes ,

an ASCII art representation of the remote host key fingerprint is

printed in addition to the fingerprint string at login and

for unknown host keys.

If this flag is set to

.Dq no ,

no fingerprint strings are printed at login and

only the fingerprint string will be printed for unknown host keys.

The default is

.Dq no .

.It Cm XAuthLocation

Specifies the full pathname of the

.Xr xauth 1

program.

The default is

.Pa /usr/X11R6/bin/xauth .

.El

.Sh PATTERNS

A

.Em pattern

consists of zero or more non-whitespace characters,

.Sq \*

(a wildcard that matches zero or more characters),

or

.Sq ?\&

(a wildcard that matches exactly one character).

For example, to specify a set of declarations for any host in the

.Dq .co.uk

set of domains,

the following pattern could be used:

.Pp

.Dl Host \*.co.uk

.Pp

The following pattern  
would match any host in the 192.168.0.[0-9] network range:

```
.Pp
```

```
.Dl Host 192.168.0.?
```

```
.Pp
```

```
A
```

```
.Em pattern-list
```

is a comma-separated list of patterns.

Patterns within pattern-lists may be negated  
by preceding them with an exclamation mark

```
.Pq Sq !\& .
```

For example,

to allow a key to be used from anywhere within an organization  
except from the

```
.Dq dialup
```

pool,

the following entry (in `authorized_keys`) could be used:

```
.Pp
```

```
.Dl from=\&"!*dialup.example.com,*example.com\&"
```

```
.Sh FILES
```

```
.Bl -tag -width Ds
```

```
.It Pa ~/.ssh/config
```

This is the per-user configuration file.

The format of this file is described above.

This file is used by the SSH client.

Because of the potential for abuse, this file must have strict permissions:  
read/write for the user, and not accessible by others.

```
.It Pa /etc/ssh/ssh_config
```

Systemwide configuration file.

This file provides defaults for those  
values that are not specified in the user's configuration file, and  
for those users who do not have a configuration file.

This file must be world-readable.

```
.El
```

```
.Sh SEE ALSO
```

```
.Xr ssh 1
```

```
.Sh AUTHORS
```

OpenSSH is a derivative of the original and free  
ssh 1.2.12 release by Tatu Ylonen.

Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos,

Theo de Raadt and Dug Song

removed many bugs, re-added newer features and  
created OpenSSH.

Markus Friedl contributed the support for SSH  
protocol versions 1.5 and 2.0.

```
/* $OpenBSD: sshbuf-getput-basic.c,v 1.5 2015/10/20 23:24:25 mmcc Exp $ */
```

```
/*
```

```
* Copyright (c) 2011 Damien Miller
```

```

*
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* WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN
* ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
* OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
*/

```

```

#define SSHBUF_INTERNAL
#include "includes.h"

```

```

#include <sys/types.h>
#include <stdlib.h>
#include <stdio.h>
#include <string.h>

```

```

#include "ssherr.h"
#include "sshbuf.h"

```

```

int
sshbuf_get(struct sshbuf *buf, void *v, size_t len)
{
    const u_char *p = sshbuf_ptr(buf);
    int r;

    if ((r = sshbuf_consume(buf, len)) < 0)
        return r;
    if (v != NULL && len != 0)
        memcpy(v, p, len);
    return 0;
}

```

```

int
sshbuf_get_u64(struct sshbuf *buf, u_int64_t *valp)
{
    const u_char *p = sshbuf_ptr(buf);
    int r;

    if ((r = sshbuf_consume(buf, 8)) < 0)
        return r;
    if (valp != NULL)
        *valp = PEEK_U64(p);
}

```

```
return 0;
}
```

```
int
sshbuf_get_u32(struct sshbuf *buf, u_int32_t *valp)
{
    const u_char *p = sshbuf_ptr(buf);
    int r;

    if ((r = sshbuf_consume(buf, 4)) < 0)
        return r;
    if (valp != NULL)
        *valp = PEEK_U32(p);
    return 0;
}
```

```
int
sshbuf_get_u16(struct sshbuf *buf, u_int16_t *valp)
{
    const u_char *p = sshbuf_ptr(buf);
    int r;

    if ((r = sshbuf_consume(buf, 2)) < 0)
        return r;
    if (valp != NULL)
        *valp = PEEK_U16(p);
    return 0;
}
```

```
int
sshbuf_get_u8(struct sshbuf *buf, u_char *valp)
{
    const u_char *p = sshbuf_ptr(buf);
    int r;

    if ((r = sshbuf_consume(buf, 1)) < 0)
        return r;
    if (valp != NULL)
        *valp = (u_int8_t)*p;
    return 0;
}
```

```
int
sshbuf_get_string(struct sshbuf *buf, u_char **valp, size_t *lenp)
{
    const u_char *val;
    size_t len;
    int r;
```

```

if (valp != NULL)
    *valp = NULL;
if (lenp != NULL)
    *lenp = 0;
if ((r = sshbuf_get_string_direct(buf, &val, &len) < 0)
    return r;
if (valp != NULL) {
    if ((*valp = malloc(len + 1)) == NULL) {
        SSHBUF_DBG(("SSH_ERR_ALLOC_FAIL"));
        return SSH_ERR_ALLOC_FAIL;
    }
    if (len != 0)
        memcpy(*valp, val, len);
    (*valp)[len] = '\0';
}
if (lenp != NULL)
    *lenp = len;
return 0;
}

int
sshbuf_get_string_direct(struct sshbuf *buf, const u_char **valp, size_t *lenp)
{
    size_t len;
    const u_char *p;
    int r;

    if (valp != NULL)
        *valp = NULL;
    if (lenp != NULL)
        *lenp = 0;
    if ((r = sshbuf_peek_string_direct(buf, &p, &len) < 0)
        return r;
    if (valp != NULL)
        *valp = p;
    if (lenp != NULL)
        *lenp = len;
    if (sshbuf_consume(buf, len + 4) != 0) {
        /* Shouldn't happen */
        SSHBUF_DBG(("SSH_ERR_INTERNAL_ERROR"));
        SSHBUF_ABORT();
        return SSH_ERR_INTERNAL_ERROR;
    }
    return 0;
}

int

```

```

sshbuf_peek_string_direct(const struct sshbuf *buf, const u_char **valp,
    size_t *lenp)
{
    u_int32_t len;
    const u_char *p = sshbuf_ptr(buf);

    if (valp != NULL)
        *valp = NULL;
    if (lenp != NULL)
        *lenp = 0;
    if (sshbuf_len(buf) < 4) {
        SSHBUF_DBG(("SSH_ERR_MESSAGE_INCOMPLETE"));
        return SSH_ERR_MESSAGE_INCOMPLETE;
    }
    len = PEEK_U32(p);
    if (len > SSHBUF_SIZE_MAX - 4) {
        SSHBUF_DBG(("SSH_ERR_STRING_TOO_LARGE"));
        return SSH_ERR_STRING_TOO_LARGE;
    }
    if (sshbuf_len(buf) - 4 < len) {
        SSHBUF_DBG(("SSH_ERR_MESSAGE_INCOMPLETE"));
        return SSH_ERR_MESSAGE_INCOMPLETE;
    }
    if (valp != NULL)
        *valp = p + 4;
    if (lenp != NULL)
        *lenp = len;
    return 0;
}

int
sshbuf_get_cstring(struct sshbuf *buf, char **valp, size_t *lenp)
{
    size_t len;
    const u_char *p, *z;
    int r;

    if (valp != NULL)
        *valp = NULL;
    if (lenp != NULL)
        *lenp = 0;
    if ((r = sshbuf_peek_string_direct(buf, &p, &len)) != 0)
        return r;
    /* Allow a \0 only at the end of the string */
    if (len > 0 &&
        (z = memchr(p, '\0', len)) != NULL && z < p + len - 1) {
        SSHBUF_DBG(("SSH_ERR_INVALID_FORMAT"));
        return SSH_ERR_INVALID_FORMAT;
    }
}

```

```

}
if ((r = sshbuf_skip_string(buf)) != 0)
    return -1;
if (valp != NULL) {
    if ((*valp = malloc(len + 1)) == NULL) {
        SSHBUF_DBG(("SSH_ERR_ALLOC_FAIL"));
        return SSH_ERR_ALLOC_FAIL;
    }
    if (len != 0)
        memcpy(*valp, p, len);
    (*valp)[len] = '\0';
}
if (lenp != NULL)
    *lenp = (size_t)len;
return 0;
}

int
sshbuf_get_stringb(struct sshbuf *buf, struct sshbuf *v)
{
    u_int32_t len;
    u_char *p;
    int r;

    /*
     * Use sshbuf_peek_string_direct() to figure out if there is
     * a complete string in 'buf' and copy the string directly
     * into 'v'.
     */
    if ((r = sshbuf_peek_string_direct(buf, NULL, NULL)) != 0 ||
        (r = sshbuf_get_u32(buf, &len)) != 0 ||
        (r = sshbuf_reserve(v, len, &p)) != 0 ||
        (r = sshbuf_get(buf, p, len)) != 0)
        return r;
    return 0;
}

int
sshbuf_put(struct sshbuf *buf, const void *v, size_t len)
{
    u_char *p;
    int r;

    if ((r = sshbuf_reserve(buf, len, &p)) < 0)
        return r;
    if (len != 0)
        memcpy(p, v, len);
    return 0;
}

```

```

}

int
sshbuf_putb(struct sshbuf *buf, const struct sshbuf *v)
{
    return sshbuf_put(buf, sshbuf_ptr(v), sshbuf_len(v));
}

int
sshbuf_printf(struct sshbuf *buf, const char *fmt, ...)
{
    va_list ap;
    int r;

    va_start(ap, fmt);
    r = sshbuf_printfv(buf, fmt, ap);
    va_end(ap);
    return r;
}

int
sshbuf_printfv(struct sshbuf *buf, const char *fmt, va_list ap)
{
    va_list ap2;
    int r, len;
    u_char *p;

    va_copy(ap2, ap);
    if ((len = vsnprintf(NULL, 0, fmt, ap2)) < 0) {
        r = SSH_ERR_INVALID_ARGUMENT;
        goto out;
    }
    if (len == 0) {
        r = 0;
        goto out; /* Nothing to do */
    }
    va_end(ap2);
    va_copy(ap2, ap);
    if ((r = sshbuf_reserve(buf, (size_t)len + 1, &p)) < 0)
        goto out;
    if ((r = vsnprintf((char *)p, len + 1, fmt, ap2)) != len) {
        r = SSH_ERR_INTERNAL_ERROR;
        goto out; /* Shouldn't happen */
    }
    /* Consume terminating \0 */
    if ((r = sshbuf_consume_end(buf, 1)) != 0)
        goto out;
    r = 0;
}

```



```

out:
    va_end(ap2);
    return r;
}

int
sshbuf_put_u64(struct sshbuf *buf, u_int64_t val)
{
    u_char *p;
    int r;

    if ((r = sshbuf_reserve(buf, 8, &p)) < 0)
        return r;
    POKE_U64(p, val);
    return 0;
}

int
sshbuf_put_u32(struct sshbuf *buf, u_int32_t val)
{
    u_char *p;
    int r;

    if ((r = sshbuf_reserve(buf, 4, &p)) < 0)
        return r;
    POKE_U32(p, val);
    return 0;
}

int
sshbuf_put_u16(struct sshbuf *buf, u_int16_t val)
{
    u_char *p;
    int r;

    if ((r = sshbuf_reserve(buf, 2, &p)) < 0)
        return r;
    POKE_U16(p, val);
    return 0;
}

int
sshbuf_put_u8(struct sshbuf *buf, u_char val)
{
    u_char *p;
    int r;

    if ((r = sshbuf_reserve(buf, 1, &p)) < 0)

```

```

    return r;
    p[0] = val;
    return 0;
}

int
sshbuf_put_string(struct sshbuf *buf, const void *v, size_t len)
{
    u_char *d;
    int r;

    if (len > SSHBUF_SIZE_MAX - 4) {
        SSHBUF_DBG(("SSH_ERR_NO_BUFFER_SPACE"));
        return SSH_ERR_NO_BUFFER_SPACE;
    }
    if ((r = sshbuf_reserve(buf, len + 4, &d)) < 0)
        return r;
    POKE_U32(d, len);
    if (len != 0)
        memcpy(d + 4, v, len);
    return 0;
}

int
sshbuf_put_cstring(struct sshbuf *buf, const char *v)
{
    return sshbuf_put_string(buf, (u_char *)v, v == NULL ? 0 : strlen(v));
}

int
sshbuf_put_stringb(struct sshbuf *buf, const struct sshbuf *v)
{
    return sshbuf_put_string(buf, sshbuf_ptr(v), sshbuf_len(v));
}

int
sshbuf_froms(struct sshbuf *buf, struct sshbuf **bufp)
{
    const u_char *p;
    size_t len;
    struct sshbuf *ret;
    int r;

    if (buf == NULL || bufp == NULL)
        return SSH_ERR_INVALID_ARGUMENT;
    *bufp = NULL;
    if ((r = sshbuf_peek_string_direct(buf, &p, &len)) != 0)
        return r;

```

```

if ((ret = sshbuf_from(p, len)) == NULL)
    return SSH_ERR_ALLOC_FAIL;
if ((r = sshbuf_consume(buf, len + 4)) != 0 || /* Shouldn't happen */
    (r = sshbuf_set_parent(ret, buf)) != 0) {
    sshbuf_free(ret);
    return r;
}
*bufp = ret;
return 0;
}

int
sshbuf_put_bignum2_bytes(struct sshbuf *buf, const void *v, size_t len)
{
    u_char *d;
    const u_char *s = (const u_char *)v;
    int r, prepend;

    if (len > SSHBUF_SIZE_MAX - 5) {
        SSHBUF_DBG(("SSH_ERR_NO_BUFFER_SPACE"));
        return SSH_ERR_NO_BUFFER_SPACE;
    }
    /* Skip leading zero bytes */
    for (; len > 0 && *s == 0; len--, s++)
        ;
    /*
     * If most significant bit is set then prepend a zero byte to
     * avoid interpretation as a negative number.
     */
    prepend = len > 0 && (s[0] & 0x80) != 0;
    if ((r = sshbuf_reserve(buf, len + 4 + prepend, &d)) < 0)
        return r;
    POKE_U32(d, len + prepend);
    if (prepend)
        d[4] = 0;
    if (len != 0)
        memcpy(d + 4 + prepend, s, len);
    return 0;
}

int
sshbuf_get_bignum2_bytes_direct(struct sshbuf *buf,
    const u_char **valp, size_t *lenp)
{
    const u_char *d;
    size_t len, olen;
    int r;

```

```

if ((r = sshbuf_peek_string_direct(buf, &d, &olen)) < 0)
    return r;
len = olen;
/* Refuse negative (MSB set) bignums */
if ((len != 0 && (*d & 0x80) != 0))
    return SSH_ERR_BIGNUM_IS_NEGATIVE;
/* Refuse overlong bignums, allow prepended \0 to avoid MSB set */
if (len > SSHBUF_MAX_BIGNUM + 1 ||
    (len == SSHBUF_MAX_BIGNUM + 1 && *d != 0))
    return SSH_ERR_BIGNUM_TOO_LARGE;
/* Trim leading zeros */
while (len > 0 && *d == 0x00) {
    d++;
    len--;
}
if (valp != NULL)
    *valp = d;
if (lenp != NULL)
    *lenp = len;
if (sshbuf_consume(buf, olen + 4) != 0) {
    /* Shouldn't happen */
    SSHBUF_DBG(("SSH_ERR_INTERNAL_ERROR"));
    SSHBUF_ABORT();
    return SSH_ERR_INTERNAL_ERROR;
}
return 0;
}
/* $OpenBSD: sshbuf-getput-crypto.c,v 1.5 2016/01/12 23:42:54 djm Exp $ */
/*
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 */

#define SSHBUF_INTERNAL
#include "includes.h"

#include <sys/types.h>

```

```

#include <stdlib.h>
#include <stdio.h>
#include <string.h>

#include <openssl/bn.h>
#ifdef OPENSSSL_HAS_ECC
# include <openssl/ec.h>
#endif /* OPENSSSL_HAS_ECC */

#include "ssherr.h"
#include "sshbuf.h"

int
sshbuf_get_bignum2(struct sshbuf *buf, BIGNUM *v)
{
    const u_char *d;
    size_t len;
    int r;

    if ((r = sshbuf_get_bignum2_bytes_direct(buf, &d, &len)) != 0)
        return r;
    if (v != NULL && BN_bin2bn(d, len, v) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    return 0;
}

int
sshbuf_get_bignum1(struct sshbuf *buf, BIGNUM *v)
{
    const u_char *d = sshbuf_ptr(buf);
    u_int16_t len_bits;
    size_t len_bytes;

    /* Length in bits */
    if (sshbuf_len(buf) < 2)
        return SSH_ERR_MESSAGE_INCOMPLETE;
    len_bits = PEEK_U16(d);
    len_bytes = (len_bits + 7) >> 3;
    if (len_bytes > SSHBUF_MAX_BIGNUM)
        return SSH_ERR_BIGNUM_TOO_LARGE;
    if (sshbuf_len(buf) < 2 + len_bytes)
        return SSH_ERR_MESSAGE_INCOMPLETE;
    if (v != NULL && BN_bin2bn(d + 2, len_bytes, v) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    if (sshbuf_consume(buf, 2 + len_bytes) != 0) {
        SSHBUF_DBG(("SSH_ERR_INTERNAL_ERROR"));
        SSHBUF_ABORT();
    }
    return SSH_ERR_INTERNAL_ERROR;
}

```

```

}
return 0;
}

#ifdef OPENSSSL_HAS_ECC
static int
get_ec(const u_char *d, size_t len, EC_POINT *v, const EC_GROUP *g)
{
    /* Refuse overlong bignums */
    if (len == 0 || len > SSHBUF_MAX_ECPOINT)
        return SSH_ERR_ECPOINT_TOO_LARGE;
    /* Only handle uncompressed points */
    if (*d != POINT_CONVERSION_UNCOMPRESSED)
        return SSH_ERR_INVALID_FORMAT;
    if (v != NULL && EC_POINT_oct2point(g, v, d, len, NULL) != 1)
        return SSH_ERR_INVALID_FORMAT; /* XXX assumption */
    return 0;
}

int
sshbuf_get_ec(struct sshbuf *buf, EC_POINT *v, const EC_GROUP *g)
{
    const u_char *d;
    size_t len;
    int r;

    if ((r = sshbuf_peek_string_direct(buf, &d, &len) < 0)
        return r;
    if ((r = get_ec(d, len, v, g)) != 0)
        return r;
    /* Skip string */
    if (sshbuf_get_string_direct(buf, NULL, NULL) != 0) {
        /* Shouldn't happen */
        SSHBUF_DBG(("SSH_ERR_INTERNAL_ERROR"));
        SSHBUF_ABORT();
        return SSH_ERR_INTERNAL_ERROR;
    }
    return 0;
}

int
sshbuf_get_eckey(struct sshbuf *buf, EC_KEY *v)
{
    EC_POINT *pt = EC_POINT_new(EC_KEY_get0_group(v));
    int r;
    const u_char *d;
    size_t len;

```

```

if (pt == NULL) {
    SSHBUF_DBG(("SSH_ERR_ALLOC_FAIL"));
    return SSH_ERR_ALLOC_FAIL;
}
if ((r = sshbuf_peek_string_direct(buf, &d, &len) < 0) {
    EC_POINT_free(pt);
    return r;
}
if ((r = get_ec(d, len, pt, EC_KEY_get0_group(v)) != 0) {
    EC_POINT_free(pt);
    return r;
}
if (EC_KEY_set_public_key(v, pt) != 1) {
    EC_POINT_free(pt);
    return SSH_ERR_ALLOC_FAIL; /* XXX assumption */
}
EC_POINT_free(pt);
/* Skip string */
if (sshbuf_get_string_direct(buf, NULL, NULL) != 0) {
    /* Shouldn't happen */
    SSHBUF_DBG(("SSH_ERR_INTERNAL_ERROR"));
    SSHBUF_ABORT();
    return SSH_ERR_INTERNAL_ERROR;
}
return 0;
}
#endif /* OPENSSSL_HAS_ECC */

int
sshbuf_put_bignum2(struct sshbuf *buf, const BIGNUM *v)
{
    u_char d[SSHBUF_MAX_BIGNUM + 1];
    int len = BN_num_bytes(v), prepend = 0, r;

    if (len < 0 || len > SSHBUF_MAX_BIGNUM)
        return SSH_ERR_INVALID_ARGUMENT;
    *d = '\0';
    if (BN_bn2bin(v, d + 1) != len)
        return SSH_ERR_INTERNAL_ERROR; /* Shouldn't happen */
    /* If MSB is set, prepend a \0 */
    if (len > 0 && (d[1] & 0x80) != 0)
        prepend = 1;
    if ((r = sshbuf_put_string(buf, d + 1 - prepend, len + prepend) < 0) {
        explicit_bzero(d, sizeof(d));
        return r;
    }
    explicit_bzero(d, sizeof(d));
    return 0;
}

```

```

}

int
sshbuf_put_bignum1(struct sshbuf *buf, const BIGNUM *v)
{
    int r, len_bits = BN_num_bits(v);
    size_t len_bytes = (len_bits + 7) / 8;
    u_char d[SSHBUF_MAX_BIGNUM], *dp;

    if (len_bits < 0 || len_bytes > SSHBUF_MAX_BIGNUM)
        return SSH_ERR_INVALID_ARGUMENT;
    if (BN_bn2bin(v, d) != (int)len_bytes)
        return SSH_ERR_INTERNAL_ERROR; /* Shouldn't happen */
    if ((r = sshbuf_reserve(buf, len_bytes + 2, &dp)) < 0) {
        explicit_bzero(d, sizeof(d));
        return r;
    }
    POKE_U16(dp, len_bits);
    if (len_bytes != 0)
        memcpy(dp + 2, d, len_bytes);
    explicit_bzero(d, sizeof(d));
    return 0;
}

#ifdef OPENSSSL_HAS_ECC
int
sshbuf_put_ec(struct sshbuf *buf, const EC_POINT *v, const EC_GROUP *g)
{
    u_char d[SSHBUF_MAX_ECPOINT];
    BN_CTX *bn_ctx;
    size_t len;
    int ret;

    if ((bn_ctx = BN_CTX_new()) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    if ((len = EC_POINT_point2oct(g, v, POINT_CONVERSION_UNCOMPRESSED,
        NULL, 0, bn_ctx)) > SSHBUF_MAX_ECPOINT) {
        BN_CTX_free(bn_ctx);
        return SSH_ERR_INVALID_ARGUMENT;
    }
    if (EC_POINT_point2oct(g, v, POINT_CONVERSION_UNCOMPRESSED,
        d, len, bn_ctx) != len) {
        BN_CTX_free(bn_ctx);
        return SSH_ERR_INTERNAL_ERROR; /* Shouldn't happen */
    }
    BN_CTX_free(bn_ctx);
    ret = sshbuf_put_string(buf, d, len);
    explicit_bzero(d, len);
}

```



```

return ret;
}

int
sshbuf_put_eckey(struct sshbuf *buf, const EC_KEY *v)
{
return sshbuf_put_ec(buf, EC_KEY_get0_public_key(v),
    EC_KEY_get0_group(v));
}
#endif /* OPENSSSL_HAS_ECC */

/* $OpenBSD: sshbuf-misc.c,v 1.5 2015/10/05 17:11:21 djm Exp $ */
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 * OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
 */

#include "includes.h"

#include <sys/types.h>
#include <sys/socket.h>
#include <netinet/in.h>
#include <errno.h>
#include <stdlib.h>
#ifdef HAVE_STDINT_H
#include <stdint.h>
#endif
#include <stdio.h>
#include <limits.h>
#include <string.h>
#include <resolv.h>
#include <ctype.h>

#include "ssherr.h"
#define SSHBUF_INTERNAL
#include "sshbuf.h"

```

```

void
sshbuf_dump_data(const void *s, size_t len, FILE *f)
{
    size_t i, j;
    const u_char *p = (const u_char *)s;

    for (i = 0; i < len; i += 16) {
        fprintf(f, "%.4zu: ", i);
        for (j = i; j < i + 16; j++) {
            if (j < len)
                fprintf(f, "%02x ", p[j]);
            else
                fprintf(f, " ");
        }
        fprintf(f, " ");
        for (j = i; j < i + 16; j++) {
            if (j < len) {
                if (isascii(p[j]) && isprint(p[j]))
                    fprintf(f, "%c", p[j]);
                else
                    fprintf(f, ".");
            }
        }
        fprintf(f, "\n");
    }
}

```

```

void
sshbuf_dump(struct sshbuf *buf, FILE *f)
{
    fprintf(f, "buffer %p len = %zu\n", buf, sshbuf_len(buf));
    sshbuf_dump_data(sshbuf_ptr(buf), sshbuf_len(buf), f);
}

```

```

char *
sshbuf_dtoa16(struct sshbuf *buf)
{
    size_t i, j, len = sshbuf_len(buf);
    const u_char *p = sshbuf_ptr(buf);
    char *ret;
    const char hex[] = "0123456789abcdef";

    if (len == 0)
        return strdup("");
    if (SIZE_MAX / 2 <= len || (ret = malloc(len * 2 + 1)) == NULL)
        return NULL;
    for (i = j = 0; i < len; i++) {
        ret[j++] = hex[(p[i] >> 4) & 0xf];
    }
}

```

```

    ret[j++] = hex[p[i] & 0xf];
}
ret[j] = '\0';
return ret;
}

char *
sshbuf_dtob64(struct sshbuf *buf)
{
    size_t len = sshbuf_len(buf), plen;
    const u_char *p = sshbuf_ptr(buf);
    char *ret;
    int r;

    if (len == 0)
        return strdup("");
    plen = ((len + 2) / 3) * 4 + 1;
    if (SIZE_MAX / 2 <= len || (ret = malloc(plen)) == NULL)
        return NULL;
    if ((r = b64_ntop(p, len, ret, plen)) == -1) {
        explicit_bzero(ret, plen);
        free(ret);
        return NULL;
    }
    return ret;
}

int
sshbuf_b64tod(struct sshbuf *buf, const char *b64)
{
    size_t plen = strlen(b64);
    int nlen, r;
    u_char *p;

    if (plen == 0)
        return 0;
    if ((p = malloc(plen)) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    if ((nlen = b64_pton(b64, p, plen)) < 0) {
        explicit_bzero(p, plen);
        free(p);
        return SSH_ERR_INVALID_FORMAT;
    }
    if ((r = sshbuf_put(buf, p, nlen)) < 0) {
        explicit_bzero(p, plen);
        free(p);
        return r;
    }
}

```

```

explicit_bzero(p, plen);
free(p);
return 0;
}

/* $OpenBSD: sshbuf.c,v 1.6 2016/01/12 23:42:54 djm Exp $ */
/*
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 */

#define SSHBUF_INTERNAL
#include "includes.h"

#include <sys/param.h> /* roundup */
#include <sys/types.h>
#include <signal.h>
#include <stdlib.h>
#include <stdio.h>
#include <string.h>

#include "ssherr.h"
#include "sshbuf.h"

static inline int
sshbuf_check_sanity(const struct sshbuf *buf)
{
    SSHBUF_TELL("sanity");
    if (__predict_false(buf == NULL ||
        (!buf->readonly && buf->d != buf->cd) ||
        buf->refcount < 1 || buf->refcount > SSHBUF_REFS_MAX ||
        buf->cd == NULL ||
        (buf->dont_free && (buf->readonly || buf->parent != NULL)) ||
        buf->max_size > SSHBUF_SIZE_MAX ||
        buf->alloc > buf->max_size ||
        buf->size > buf->alloc ||
        buf->off > buf->size)) {

```

```

/* Do not try to recover from corrupted buffer internals */
SSHBUF_DBG(("SSH_ERR_INTERNAL_ERROR"));
signal(SIGSEGV, SIG_DFL);
raise(SIGSEGV);
return SSH_ERR_INTERNAL_ERROR;
}
return 0;
}

static void
sshbuf_maybe_pack(struct sshbuf *buf, int force)
{
    SSHBUF_DBG(("force %d", force));
    SSHBUF_TELL("pre-pack");
    if (buf->off == 0 || buf->readonly || buf->refcount > 1)
        return;
    if (force ||
        (buf->off >= SSHBUF_PACK_MIN && buf->off >= buf->size / 2)) {
        memmove(buf->d, buf->d + buf->off, buf->size - buf->off);
        buf->size -= buf->off;
        buf->off = 0;
        SSHBUF_TELL("packed");
    }
}

struct sshbuf *
sshbuf_new(void)
{
    struct sshbuf *ret;

    if ((ret = calloc(sizeof(*ret), 1)) == NULL)
        return NULL;
    ret->alloc = SSHBUF_SIZE_INIT;
    ret->max_size = SSHBUF_SIZE_MAX;
    ret->readonly = 0;
    ret->refcount = 1;
    ret->parent = NULL;
    if ((ret->cd = ret->d = calloc(1, ret->alloc)) == NULL) {
        free(ret);
        return NULL;
    }
    return ret;
}

struct sshbuf *
sshbuf_from(const void *blob, size_t len)
{
    struct sshbuf *ret;

```

```

if (blob == NULL || len > SSHBUF_SIZE_MAX ||
    (ret = calloc(sizeof(*ret), 1)) == NULL)
    return NULL;
ret->alloc = ret->size = ret->max_size = len;
ret->readonly = 1;
ret->refcount = 1;
ret->parent = NULL;
ret->cd = blob;
ret->d = NULL;
return ret;
}

int
sshbuf_set_parent(struct sshbuf *child, struct sshbuf *parent)
{
    int r;

    if ((r = sshbuf_check_sanity(child)) != 0 ||
        (r = sshbuf_check_sanity(parent)) != 0)
        return r;
    child->parent = parent;
    child->parent->refcount++;
    return 0;
}

struct sshbuf *
sshbuf_fromb(struct sshbuf *buf)
{
    struct sshbuf *ret;

    if (sshbuf_check_sanity(buf) != 0)
        return NULL;
    if ((ret = sshbuf_from(sshbuf_ptr(buf), sshbuf_len(buf))) == NULL)
        return NULL;
    if (sshbuf_set_parent(ret, buf) != 0) {
        sshbuf_free(ret);
        return NULL;
    }
    return ret;
}

void
sshbuf_init(struct sshbuf *ret)
{
    explicit_bzero(ret, sizeof(*ret));
    ret->alloc = SSHBUF_SIZE_INIT;
    ret->max_size = SSHBUF_SIZE_MAX;
}

```

```

ret->readonly = 0;
ret->dont_free = 1;
ret->refcount = 1;
if ((ret->cd = ret->d = calloc(1, ret->alloc)) == NULL)
    ret->alloc = 0;
}

void
sshbuf_free(struct sshbuf *buf)
{
    int dont_free = 0;

    if (buf == NULL)
        return;
    /*
     * The following will leak on insane buffers, but this is the safest
     * course of action - an invalid pointer or already-freed pointer may
     * have been passed to us and continuing to scribble over memory would
     * be bad.
     */
    if (sshbuf_check_sanity(buf) != 0)
        return;
    /*
     * If we are a child, the free our parent to decrement its reference
     * count and possibly free it.
     */
    sshbuf_free(buf->parent);
    buf->parent = NULL;
    /*
     * If we are a parent with still-extant children, then don't free just
     * yet. The last child's call to sshbuf_free should decrement our
     * refcount to 0 and trigger the actual free.
     */
    buf->refcount--;
    if (buf->refcount > 0)
        return;
    dont_free = buf->dont_free;
    if (!buf->readonly) {
        explicit_bzero(buf->d, buf->alloc);
        free(buf->d);
    }
    explicit_bzero(buf, sizeof(*buf));
    if (!dont_free)
        free(buf);
}

void
sshbuf_reset(struct sshbuf *buf)

```

```

{
u_char *d;

if (buf->readonly || buf->refcount > 1) {
/* Nonsensical. Just make buffer appear empty */
buf->off = buf->size;
return;
}
if (sshbuf_check_sanity(buf) == 0)
explicit_bzero(buf->d, buf->alloc);
buf->off = buf->size = 0;
if (buf->alloc != SSHBUF_SIZE_INIT) {
if ((d = realloc(buf->d, SSHBUF_SIZE_INIT)) != NULL) {
buf->cd = buf->d = d;
buf->alloc = SSHBUF_SIZE_INIT;
}
}
}

```

```

size_t
sshbuf_max_size(const struct sshbuf *buf)
{
return buf->max_size;
}

```

```

size_t
sshbuf_alloc(const struct sshbuf *buf)
{
return buf->alloc;
}

```

```

const struct sshbuf *
sshbuf_parent(const struct sshbuf *buf)
{
return buf->parent;
}

```

```

u_int
sshbuf_refcount(const struct sshbuf *buf)
{
return buf->refcount;
}

```

```

int
sshbuf_set_max_size(struct sshbuf *buf, size_t max_size)
{
size_t rlen;
u_char *dp;

```



```

int r;

SSHBUF_DBG(("set max buf = %p len = %zu", buf, max_size));
if ((r = sshbuf_check_sanity(buf)) != 0)
    return r;
if (max_size == buf->max_size)
    return 0;
if (buf->readonly || buf->refcount > 1)
    return SSH_ERR_BUFFER_READ_ONLY;
if (max_size > SSHBUF_SIZE_MAX)
    return SSH_ERR_NO_BUFFER_SPACE;
/* pack and realloc if necessary */
sshbuf_maybe_pack(buf, max_size < buf->size);
if (max_size < buf->alloc && max_size > buf->size) {
    if (buf->size < SSHBUF_SIZE_INIT)
        rlen = SSHBUF_SIZE_INIT;
    else
        rlen = roundup(buf->size, SSHBUF_SIZE_INC);
    if (rlen > max_size)
        rlen = max_size;
    explicit_bzero(buf->d + buf->size, buf->alloc - buf->size);
    SSHBUF_DBG(("new alloc = %zu", rlen));
    if ((dp = realloc(buf->d, rlen)) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    buf->cd = buf->d = dp;
    buf->alloc = rlen;
}
SSHBUF_TELL("new-max");
if (max_size < buf->alloc)
    return SSH_ERR_NO_BUFFER_SPACE;
buf->max_size = max_size;
return 0;
}

size_t
sshbuf_len(const struct sshbuf *buf)
{
    if (sshbuf_check_sanity(buf) != 0)
        return 0;
    return buf->size - buf->off;
}

size_t
sshbuf_avail(const struct sshbuf *buf)
{
    if (sshbuf_check_sanity(buf) != 0 || buf->readonly || buf->refcount > 1)
        return 0;
    return buf->max_size - (buf->size - buf->off);
}

```

```

}

const u_char *
sshbuf_ptr(const struct sshbuf *buf)
{
    if (sshbuf_check_sanity(buf) != 0)
        return NULL;
    return buf->cd + buf->off;
}

u_char *
sshbuf_mutable_ptr(const struct sshbuf *buf)
{
    if (sshbuf_check_sanity(buf) != 0 || buf->readonly || buf->refcount > 1)
        return NULL;
    return buf->d + buf->off;
}

int
sshbuf_check_reserve(const struct sshbuf *buf, size_t len)
{
    int r;

    if ((r = sshbuf_check_sanity(buf)) != 0)
        return r;
    if (buf->readonly || buf->refcount > 1)
        return SSH_ERR_BUFFER_READ_ONLY;
    SSHBUF_TELL("check");
    /* Check that len is reasonable and that max_size + available < len */
    if (len > buf->max_size || buf->max_size - len < buf->size - buf->off)
        return SSH_ERR_NO_BUFFER_SPACE;
    return 0;
}

int
sshbuf_reserve(struct sshbuf *buf, size_t len, u_char **dpp)
{
    size_t rlen, need;
    u_char *dp;
    int r;

    if (dpp != NULL)
        *dpp = NULL;

    SSHBUF_DBG(("reserve buf = %p len = %zu", buf, len));
    if ((r = sshbuf_check_reserve(buf, len)) != 0)
        return r;
    /*

```

```

* If the requested allocation appended would push us past max_size
* then pack the buffer, zeroing buf->off.
*/
sshbuf_maybe_pack(buf, buf->size + len > buf->max_size);
SSHBUF_TELL("reserve");
if (len + buf->size > buf->alloc) {
/*
* Prefer to alloc in SSHBUF_SIZE_INC units, but
* allocate less if doing so would overflow max_size.
*/
need = len + buf->size - buf->alloc;
rlen = roundup(buf->alloc + need, SSHBUF_SIZE_INC);
SSHBUF_DBG(("need %zu initial rlen %zu", need, rlen));
if (rlen > buf->max_size)
rlen = buf->alloc + need;
SSHBUF_DBG(("adjusted rlen %zu", rlen));
if ((dp = realloc(buf->d, rlen)) == NULL) {
SSHBUF_DBG(("realloc fail"));
if (dpp != NULL)
*dpp = NULL;
return SSH_ERR_ALLOC_FAIL;
}
buf->alloc = rlen;
buf->cd = buf->d = dp;
if ((r = sshbuf_check_reserve(buf, len) < 0) {
/* shouldn't fail */
if (dpp != NULL)
*dpp = NULL;
return r;
}
}
dp = buf->d + buf->size;
buf->size += len;
SSHBUF_TELL("done");
if (dpp != NULL)
*dpp = dp;
return 0;
}

int
sshbuf_consume(struct sshbuf *buf, size_t len)
{
int r;

SSHBUF_DBG(("len = %zu", len));
if ((r = sshbuf_check_sanity(buf)) != 0)
return r;
if (len == 0)

```

```

    return 0;
if (len > sshbuf_len(buf))
    return SSH_ERR_MESSAGE_INCOMPLETE;
buf->off += len;
SSHBUF_TELL("done");
return 0;
}

int
sshbuf_consume_end(struct sshbuf *buf, size_t len)
{
    int r;

    SSHBUF_DBG(("len = %zu", len));
    if ((r = sshbuf_check_sanity(buf)) != 0)
        return r;
    if (len == 0)
        return 0;
    if (len > sshbuf_len(buf))
        return SSH_ERR_MESSAGE_INCOMPLETE;
    buf->size -= len;
    SSHBUF_TELL("done");
    return 0;
}

/* $OpenBSD: sshbuf.h,v 1.6 2015/12/10 07:01:35 mmcc Exp $ */
/*
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 */

#ifndef _SSHBUF_H
#define _SSHBUF_H

#include <sys/types.h>
#include <stdarg.h>
#include <stdio.h>

```

```

#ifdef WITH_OPENSSL
#include <openssl/bn.h>
#ifdef OPENSSL_HAS_ECC
#include <openssl/ec.h>
#endif /* OPENSSL_HAS_ECC */
#endif /* WITH_OPENSSL */

#define SSHBUF_SIZE_MAX 0x8000000 /* Hard maximum size */
#define SSHBUF_REFS_MAX 0x100000 /* Max child buffers */
#define SSHBUF_MAX_BIGNUM (16384 / 8) /* Max bignum *bytes* */
#define SSHBUF_MAX_ECPOINT ((528 * 2 / 8) + 1) /* Max EC point *bytes* */

/*
 * NB. do not depend on the internals of this. It will be made opaque
 * one day.
 */
struct sshbuf {
    u_char *d; /* Data */
    const u_char *cd; /* Const data */
    size_t off; /* First available byte is buf->d + buf->off */
    size_t size; /* Last byte is buf->d + buf->size - 1 */
    size_t max_size; /* Maximum size of buffer */
    size_t alloc; /* Total bytes allocated to buf->d */
    int readonly; /* Refers to external, const data */
    int dont_free; /* Kludge to support sshbuf_init */
    u_int refcount; /* Tracks self and number of child buffers */
    struct sshbuf *parent; /* If child, pointer to parent */
};

#ifdef SSHBUF_NO_DEPRECATED
/*
 * NB. Please do not use sshbuf_init() in new code. Please use sshbuf_new()
 * instead. sshbuf_init() is deprecated and will go away soon (it is
 * only included to allow compat with buffer_* in OpenSSH)
 */
void sshbuf_init(struct sshbuf *buf);
#endif

/*
 * Create a new sshbuf buffer.
 * Returns pointer to buffer on success, or NULL on allocation failure.
 */
struct sshbuf *sshbuf_new(void);

/*
 * Create a new, read-only sshbuf buffer from existing data.
 * Returns pointer to buffer on success, or NULL on allocation failure.
 */

```

```

struct sshbuf *sshbuf_from(const void *blob, size_t len);

/*
 * Create a new, read-only sshbuf buffer from the contents of an existing
 * buffer. The contents of "buf" must not change in the lifetime of the
 * resultant buffer.
 * Returns pointer to buffer on success, or NULL on allocation failure.
 */
struct sshbuf *sshbuf_fromb(struct sshbuf *buf);

/*
 * Create a new, read-only sshbuf buffer from the contents of a string in
 * an existing buffer (the string is consumed in the process).
 * The contents of "buf" must not change in the lifetime of the resultant
 * buffer.
 * Returns pointer to buffer on success, or NULL on allocation failure.
 */
int sshbuf_froms(struct sshbuf *buf, struct sshbuf **bufp);

/*
 * Clear and free buf
 */
void sshbuf_free(struct sshbuf *buf);

/*
 * Reset buf, clearing its contents. NB. max_size is preserved.
 */
void sshbuf_reset(struct sshbuf *buf);

/*
 * Return the maximum size of buf
 */
size_t sshbuf_max_size(const struct sshbuf *buf);

/*
 * Set the maximum size of buf
 * Returns 0 on success, or a negative SSH_ERR_* error code on failure.
 */
int sshbuf_set_max_size(struct sshbuf *buf, size_t max_size);

/*
 * Returns the length of data in buf
 */
size_t sshbuf_len(const struct sshbuf *buf);

/*
 * Returns number of bytes left in buffer before hitting max_size.
 */

```

```

size_t sshbuf_avail(const struct sshbuf *buf);

/*
 * Returns a read-only pointer to the start of the data in buf
 */
const u_char *sshbuf_ptr(const struct sshbuf *buf);

/*
 * Returns a mutable pointer to the start of the data in buf, or
 * NULL if the buffer is read-only.
 */
u_char *sshbuf_mutable_ptr(const struct sshbuf *buf);

/*
 * Check whether a reservation of size len will succeed in buf
 * Safer to use than direct comparisons against sshbuf_avail as it copes
 * with unsigned overflows correctly.
 * Returns 0 on success, or a negative SSH_ERR_* error code on failure.
 */
int sshbuf_check_reserve(const struct sshbuf *buf, size_t len);

/*
 * Reserve len bytes in buf.
 * Returns 0 on success and a pointer to the first reserved byte via the
 * optional dpp parameter or a negative * SSH_ERR_* error code on failure.
 */
int sshbuf_reserve(struct sshbuf *buf, size_t len, u_char **dpp);

/*
 * Consume len bytes from the start of buf
 * Returns 0 on success, or a negative SSH_ERR_* error code on failure.
 */
int sshbuf_consume(struct sshbuf *buf, size_t len);

/*
 * Consume len bytes from the end of buf
 * Returns 0 on success, or a negative SSH_ERR_* error code on failure.
 */
int sshbuf_consume_end(struct sshbuf *buf, size_t len);

/* Extract or deposit some bytes */
int sshbuf_get(struct sshbuf *buf, void *v, size_t len);
int sshbuf_put(struct sshbuf *buf, const void *v, size_t len);
int sshbuf_putb(struct sshbuf *buf, const struct sshbuf *v);

/* Append using a printf(3) format */
int sshbuf_printf(struct sshbuf *buf, const char *fmt, ...)
    __attribute__((format(printf, 2, 3)));

```

```

int sshbuf_putfv(struct sshbuf *buf, const char *fmt, va_list ap);

/* Functions to extract or store big-endian words of various sizes */
int sshbuf_get_u64(struct sshbuf *buf, u_int64_t *valp);
int sshbuf_get_u32(struct sshbuf *buf, u_int32_t *valp);
int sshbuf_get_u16(struct sshbuf *buf, u_int16_t *valp);
int sshbuf_get_u8(struct sshbuf *buf, u_char *valp);
int sshbuf_put_u64(struct sshbuf *buf, u_int64_t val);
int sshbuf_put_u32(struct sshbuf *buf, u_int32_t val);
int sshbuf_put_u16(struct sshbuf *buf, u_int16_t val);
int sshbuf_put_u8(struct sshbuf *buf, u_char val);

/*
 * Functions to extract or store SSH wire encoded strings (u32 len || data)
 * The "cstring" variants admit no \0 characters in the string contents.
 * Caller must free *valp.
 */
int sshbuf_get_string(struct sshbuf *buf, u_char **valp, size_t *lenp);
int sshbuf_get_cstring(struct sshbuf *buf, char **valp, size_t *lenp);
int sshbuf_get_stringb(struct sshbuf *buf, struct sshbuf *v);
int sshbuf_put_string(struct sshbuf *buf, const void *v, size_t len);
int sshbuf_put_cstring(struct sshbuf *buf, const char *v);
int sshbuf_put_stringb(struct sshbuf *buf, const struct sshbuf *v);

/*
 * "Direct" variant of sshbuf_get_string, returns pointer into the sshbuf to
 * avoid an malloc+memcpy. The pointer is guaranteed to be valid until the
 * next sshbuf-modifying function call. Caller does not free.
 */
int sshbuf_get_string_direct(struct sshbuf *buf, const u_char **valp,
    size_t *lenp);

/* Skip past a string */
#define sshbuf_skip_string(buf) sshbuf_get_string_direct(buf, NULL, NULL)

/* Another variant: "peeks" into the buffer without modifying it */
int sshbuf_peek_string_direct(const struct sshbuf *buf, const u_char **valp,
    size_t *lenp);

/*
 * Functions to extract or store SSH wire encoded bignums and elliptic
 * curve points.
 */
int sshbuf_put_bignum2_bytes(struct sshbuf *buf, const void *v, size_t len);
int sshbuf_get_bignum2_bytes_direct(struct sshbuf *buf,
    const u_char **valp, size_t *lenp);
#ifdef WITH_OPENSSL
int sshbuf_get_bignum2(struct sshbuf *buf, BIGNUM *v);

```



```

int sshbuf_get_bignum1(struct sshbuf *buf, BIGNUM *v);
int sshbuf_put_bignum2(struct sshbuf *buf, const BIGNUM *v);
int sshbuf_put_bignum1(struct sshbuf *buf, const BIGNUM *v);
#ifdef OPENSSSL_HAS_ECC
int sshbuf_get_ec(struct sshbuf *buf, EC_POINT *v, const EC_GROUP *g);
int sshbuf_get_eckey(struct sshbuf *buf, EC_KEY *v);
int sshbuf_put_ec(struct sshbuf *buf, const EC_POINT *v, const EC_GROUP *g);
int sshbuf_put_eckey(struct sshbuf *buf, const EC_KEY *v);
#endif /* OPENSSSL_HAS_ECC */
#endif /* WITH_OPENSSSL */

/* Dump the contents of the buffer in a human-readable format */
void sshbuf_dump(struct sshbuf *buf, FILE *f);

/* Dump specified memory in a human-readable format */
void sshbuf_dump_data(const void *s, size_t len, FILE *f);

/* Return the hexadecimal representation of the contents of the buffer */
char *sshbuf_dtoh16(struct sshbuf *buf);

/* Encode the contents of the buffer as base64 */
char *sshbuf_dtoh64(struct sshbuf *buf);

/* Decode base64 data and append it to the buffer */
int sshbuf_htho64(struct sshbuf *buf, const char *b64);

/* Macros for decoding/encoding integers */
#define PEEK_U64(p) \
(((u_int64_t)((const u_char *) (p))[0]) << 56) | \
((u_int64_t)((const u_char *) (p))[1]) << 48) | \
((u_int64_t)((const u_char *) (p))[2]) << 40) | \
((u_int64_t)((const u_char *) (p))[3]) << 32) | \
((u_int64_t)((const u_char *) (p))[4]) << 24) | \
((u_int64_t)((const u_char *) (p))[5]) << 16) | \
((u_int64_t)((const u_char *) (p))[6]) << 8) | \
(u_int64_t)((const u_char *) (p))[7])
#define PEEK_U32(p) \
(((u_int32_t)((const u_char *) (p))[0]) << 24) | \
((u_int32_t)((const u_char *) (p))[1]) << 16) | \
((u_int32_t)((const u_char *) (p))[2]) << 8) | \
(u_int32_t)((const u_char *) (p))[3])
#define PEEK_U16(p) \
(((u_int16_t)((const u_char *) (p))[0]) << 8) | \
(u_int16_t)((const u_char *) (p))[1])

#define POKE_U64(p, v) \
do { \
    const u_int64_t __v = (v); \

```

```

((u_char *) (p))[0] = (__v >> 56) & 0xff; \
((u_char *) (p))[1] = (__v >> 48) & 0xff; \
((u_char *) (p))[2] = (__v >> 40) & 0xff; \
((u_char *) (p))[3] = (__v >> 32) & 0xff; \
((u_char *) (p))[4] = (__v >> 24) & 0xff; \
((u_char *) (p))[5] = (__v >> 16) & 0xff; \
((u_char *) (p))[6] = (__v >> 8) & 0xff; \
((u_char *) (p))[7] = __v & 0xff; \
} while (0)
#define POKE_U32(p, v) \
do { \
const u_int32_t __v = (v); \
((u_char *) (p))[0] = (__v >> 24) & 0xff; \
((u_char *) (p))[1] = (__v >> 16) & 0xff; \
((u_char *) (p))[2] = (__v >> 8) & 0xff; \
((u_char *) (p))[3] = __v & 0xff; \
} while (0)
#define POKE_U16(p, v) \
do { \
const u_int16_t __v = (v); \
((u_char *) (p))[0] = (__v >> 8) & 0xff; \
((u_char *) (p))[1] = __v & 0xff; \
} while (0)

/* Internal definitions follow. Exposed for regress tests */
#ifdef SSHBUF_INTERNAL

/*
 * Return the allocation size of buf
 */
size_t sshbuf_alloc(const struct sshbuf *buf);

/*
 * Increment the reference count of buf.
 */
int sshbuf_set_parent(struct sshbuf *child, struct sshbuf *parent);

/*
 * Return the parent buffer of buf, or NULL if it has no parent.
 */
const struct sshbuf *sshbuf_parent(const struct sshbuf *buf);

/*
 * Return the reference count of buf
 */
u_int sshbuf_refcount(const struct sshbuf *buf);

# define SSHBUF_SIZE_INIT 256 /* Initial allocation */

```

```

# define SSHBUF_SIZE_INC 256 /* Preferred increment length */
# define SSHBUF_PACK_MIN 8192 /* Minimim packable offset */

/* # define SSHBUF_ABORT abort */
/* # define SSHBUF_DEBUG */

# ifndef SSHBUF_ABORT
# define SSHBUF_ABORT()
# endif

# ifdef SSHBUF_DEBUG
# define SSHBUF_TELL(what) do { \
    printf("%s:%d %s: %s size %zu alloc %zu off %zu max %zu\n", \
        __FILE__, __LINE__, __func__, what, \
        buf->size, buf->alloc, buf->off, buf->max_size); \
    fflush(stdout); \
} while (0)
# define SSHBUF_DBG(x) do { \
    printf("%s:%d %s: ", __FILE__, __LINE__, __func__); \
    printf x; \
    printf("\n"); \
    fflush(stdout); \
} while (0)
# else
# define SSHBUF_TELL(what)
# define SSHBUF_DBG(x)
# endif
#endif /* SSHBUF_INTERNAL */

#endif /* _SSHBUF_H */
/* $OpenBSD: sshconnect.c,v 1.271 2016/01/14 22:56:56 markus Exp $ */
/*
* Author: Tatu Ylonen <ylo@cs.hut.fi>
* Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
* All rights reserved
* Code to connect to a remote host, and to perform the client side of the
* login (authentication) dialog.
*
* As far as I am concerned, the code I have written for this software
* can be used freely for any purpose. Any derived versions of this
* software must be clearly marked as such, and if the derived work is
* incompatible with the protocol description in the RFC file, it must be
* called by a name other than "ssh" or "Secure Shell".
*/

#include "includes.h"

#include <sys/param.h> /* roundup */

```

```
#include <sys/types.h>
#include <sys/wait.h>
#include <sys/stat.h>
#include <sys/socket.h>
#ifdef HAVE_SYS_TIME_H
#include <sys/time.h>
#endif
```

```
#include <netinet/in.h>
#include <arpa/inet.h>
```

```
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <netdb.h>
#ifdef HAVE_PATHS_H
#include <paths.h>
#endif
#include <pwd.h>
#include <signal.h>
#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
```

```
#include "xmalloc.h"
#include "key.h"
#include "hostfile.h"
#include "ssh.h"
#include "rsa.h"
#include "buffer.h"
#include "packet.h"
#include "uidswap.h"
#include "compat.h"
#include "key.h"
#include "sshconnect.h"
#include "hostfile.h"
#include "log.h"
#include "misc.h"
#include "readconf.h"
#include "atomicio.h"
#include "dns.h"
#include "monitor_fdpass.h"
#include "ssh2.h"
#include "version.h"
#include "authfile.h"
#include "ssherr.h"
```

```

#include "authfd.h"

char *client_version_string = NULL;
char *server_version_string = NULL;
Key *previous_host_key = NULL;

static int matching_host_key_dns = 0;

static pid_t proxy_command_pid = 0;

/* import */
extern Options options;
extern char *__progname;
extern uid_t original_real_uid;
extern uid_t original_effective_uid;

static int show_other_keys(struct hostkeys *, Key *);
static void warn_changed_key(Key *);

/* Expand a proxy command */
static char *
expand_proxy_command(const char *proxy_command, const char *user,
    const char *host, int port)
{
    char *tmp, *ret, strport[NI_MAXSERV];

    snprintf(strport, sizeof strport, "%d", port);
    xasprintf(&tmp, "exec %s", proxy_command);
    ret = percent_expand(tmp, "h", host, "p", strport,
        "r", options.user, (char *)NULL);
    free(tmp);
    return ret;
}

/*
 * Connect to the given ssh server using a proxy command that passes a
 * a connected fd back to us.
 */
static int
ssh_proxy_fdpass_connect(const char *host, u_short port,
    const char *proxy_command)
{
    char *command_string;
    int sp[2], sock;
    pid_t pid;
    char *shell;

    if ((shell = getenv("SHELL")) == NULL)

```

```

shell = _PATH_BSHELL;

if (socketpair(AF_UNIX, SOCK_STREAM, 0, sp) < 0)
    fatal("Could not create socketpair to communicate with "
        "proxy dialer: %.100s", strerror(errno));

command_string = expand_proxy_command(proxy_command, options.user,
    host, port);
debug("Executing proxy dialer command: %.500s", command_string);

/* Fork and execute the proxy command. */
if ((pid = fork()) == 0) {
    char *argv[10];

    /* Child. Permanently give up superuser privileges. */
    permanently_drop_suid(original_real_uid);

    close(sp[1]);
    /* Redirect stdin and stdout. */
    if (sp[0] != 0) {
        if (dup2(sp[0], 0) < 0)
            perror("dup2 stdin");
        }
    if (sp[0] != 1) {
        if (dup2(sp[0], 1) < 0)
            perror("dup2 stdout");
        }
    if (sp[0] >= 2)
        close(sp[0]);

    /*
     * Stderr is left as it is so that error messages get
     * printed on the user's terminal.
     */
    argv[0] = shell;
    argv[1] = "-c";
    argv[2] = command_string;
    argv[3] = NULL;

    /*
     * Execute the proxy command.
     * Note that we gave up any extra privileges above.
     */
    execv(argv[0], argv);
    perror(argv[0]);
    exit(1);
}
/* Parent. */

```

```

if (pid < 0)
    fatal("fork failed: %.100s", strerror(errno));
close(sp[0]);
free(command_string);

if ((sock = mm_receive_fd(sp[1])) == -1)
    fatal("proxy dialer did not pass back a connection");
close(sp[1]);

while (waitpid(pid, NULL, 0) == -1)
    if (errno != EINTR)
        fatal("Couldn't wait for child: %s", strerror(errno));

/* Set the connection file descriptors. */
packet_set_connection(sock, sock);

return 0;
}

/*
 * Connect to the given ssh server using a proxy command.
 */
static int
ssh_proxy_connect(const char *host, u_short port, const char *proxy_command)
{
    char *command_string;
    int pin[2], pout[2];
    pid_t pid;
    char *shell;

    if ((shell = getenv("SHELL")) == NULL || *shell == '\0')
        shell = _PATH_BSHELL;

    /* Create pipes for communicating with the proxy. */
    if (pipe(pin) < 0 || pipe(pout) < 0)
        fatal("Could not create pipes to communicate with the proxy: %.100s",
            strerror(errno));

    command_string = expand_proxy_command(proxy_command, options.user,
        host, port);
    debug("Executing proxy command: %.500s", command_string);

    /* Fork and execute the proxy command. */
    if ((pid = fork()) == 0) {
        char *argv[10];

        /* Child. Permanently give up superuser privileges. */
        permanently_drop_suid(original_real_uid);

```

```

/* Redirect stdin and stdout. */
close(pin[1]);
if (pin[0] != 0) {
    if (dup2(pin[0], 0) < 0)
        perror("dup2 stdin");
    close(pin[0]);
}
close(pout[0]);
if (dup2(pout[1], 1) < 0)
    perror("dup2 stdout");
/* Cannot be 1 because pin allocated two descriptors. */
close(pout[1]);

/* Stderr is left as it is so that error messages get
   printed on the user's terminal. */
argv[0] = shell;
argv[1] = "-c";
argv[2] = command_string;
argv[3] = NULL;

/* Execute the proxy command. Note that we gave up any
   extra privileges above. */
signal(SIGPIPE, SIG_DFL);
execv(argv[0], argv);
perror(argv[0]);
exit(1);
}
/* Parent. */
if (pid < 0)
    fatal("fork failed: %.100s", strerror(errno));
else
    proxy_command_pid = pid; /* save pid to clean up later */

/* Close child side of the descriptors. */
close(pin[0]);
close(pout[1]);

/* Free the command name. */
free(command_string);

/* Set the connection file descriptors. */
packet_set_connection(pout[0], pin[1]);

/* Indicate OK return */
return 0;
}

```



```

void
ssh_kill_proxy_command(void)
{
/*
 * Send SIGHUP to proxy command if used. We don't wait() in
 * case it hangs and instead rely on init to reap the child
 */
if (proxy_command_pid > 1)
    kill(proxy_command_pid, SIGHUP);
}

/*
 * Creates a (possibly privileged) socket for use as the ssh connection.
 */
static int
ssh_create_socket(int privileged, struct addrinfo *ai)
{
    int sock, r, gaierr;
    struct addrinfo hints, *res = NULL;

    sock = socket(ai->ai_family, ai->ai_socktype, ai->ai_protocol);
    if (sock < 0) {
        error("socket: %s", strerror(errno));
        return -1;
    }
    fcntl(sock, F_SETFD, FD_CLOEXEC);

    /* Bind the socket to an alternative local IP address */
    if (options.bind_address == NULL && !privileged)
        return sock;

    if (options.bind_address) {
        memset(&hints, 0, sizeof(hints));
        hints.ai_family = ai->ai_family;
        hints.ai_socktype = ai->ai_socktype;
        hints.ai_protocol = ai->ai_protocol;
        hints.ai_flags = AI_PASSIVE;
        gaierr = getaddrinfo(options.bind_address, NULL, &hints, &res);
        if (gaierr) {
            error("getaddrinfo: %s: %s", options.bind_address,
                ssh_gai_strerror(gaierr));
            close(sock);
            return -1;
        }
    }
}

/*
 * If we are running as root and want to connect to a privileged
 * port, bind our own socket to a privileged port.

```

```

*/
if (privileged) {
    PRIV_START;
    r = bindresvport_sa(sock, res ? res->ai_addr : NULL);
    PRIV_END;
    if (r < 0) {
        error("bindresvport_sa: af=%d %s", ai->ai_family,
            strerror(errno));
        goto fail;
    }
} else {
    if (bind(sock, res->ai_addr, res->ai_addrlen) < 0) {
        error("bind: %s: %s", options.bind_address,
            strerror(errno));
    }
}
fail:
    close(sock);
    freeaddrinfo(res);
    return -1;
}
}
if (res != NULL)
    freeaddrinfo(res);
return sock;
}

static int
timeout_connect(int sockfd, const struct sockaddr *serv_addr,
    socklen_t addrlen, int *timeoutp)
{
    fd_set *fdset;
    struct timeval tv, t_start;
    socklen_t optlen;
    int optval, rc, result = -1;

    gettimeofday(&t_start, NULL);

    if (*timeoutp <= 0) {
        result = connect(sockfd, serv_addr, addrlen);
        goto done;
    }

    set_nonblock(sockfd);
    rc = connect(sockfd, serv_addr, addrlen);
    if (rc == 0) {
        unset_nonblock(sockfd);
        result = 0;
        goto done;
    }
}

```

```

if (errno != EINPROGRESS) {
    result = -1;
    goto done;
}

fdset = xcalloc(howmany(sockfd + 1, NFDBITS),
    sizeof(fd_mask));
FD_SET(sockfd, fdset);
ms_to_timeval(&tv, *timeoutp);

for (;;) {
    rc = select(sockfd + 1, NULL, fdset, NULL, &tv);
    if (rc != -1 || errno != EINTR)
        break;
}

switch (rc) {
case 0:
    /* Timed out */
    errno = ETIMEDOUT;
    break;
case -1:
    /* Select error */
    debug("select: %s", strerror(errno));
    break;
case 1:
    /* Completed or failed */
    optval = 0;
    optlen = sizeof(optval);
    if (getsockopt(sockfd, SOL_SOCKET, SO_ERROR, &optval,
        &optlen) == -1) {
        debug("getsockopt: %s", strerror(errno));
        break;
    }
    if (optval != 0) {
        errno = optval;
        break;
    }
    result = 0;
    unset_nonblock(sockfd);
    break;
default:
    /* Should not occur */
    fatal("Bogus return (%d) from select()", rc);
}

free(fdset);

```

```

done:
if (result == 0 && *timeoutp > 0) {
    ms_subtract_diff(&t_start, timeoutp);
if (*timeoutp <= 0) {
    errno = ETIMEDOUT;
    result = -1;
    }
}

return (result);
}

/*
 * Opens a TCP/IP connection to the remote server on the given host.
 * The address of the remote host will be returned in hostaddr.
 * If port is 0, the default port will be used. If needpriv is true,
 * a privileged port will be allocated to make the connection.
 * This requires super-user privileges if needpriv is true.
 * Connection_attempts specifies the maximum number of tries (one per
 * second). If proxy_command is non-NULL, it specifies the command (with %h
 * and %p substituted for host and port, respectively) to use to contact
 * the daemon.
 */
static int
ssh_connect_direct(const char *host, struct addrinfo *aitop,
    struct sockaddr_storage *hostaddr, u_short port, int family,
    int connection_attempts, int *timeout_ms, int want_keepalive, int needpriv)
{
    int on = 1;
    int sock = -1, attempt;
    char ntop[NI_MAXHOST], strport[NI_MAXSERV];
    struct addrinfo *ai;

    debug2("%s: needpriv %d", __func__, needpriv);
    memset(ntop, 0, sizeof(ntop));
    memset(strport, 0, sizeof(strport));

    for (attempt = 0; attempt < connection_attempts; attempt++) {
        if (attempt > 0) {
            /* Sleep a moment before retrying. */
            sleep(1);
            debug("Trying again...");
        }
        /*
         * Loop through addresses for this host, and try each one in
         * sequence until the connection succeeds.
         */
        for (ai = aitop; ai; ai = ai->ai_next) {

```

```

if (ai->ai_family != AF_INET &&
    ai->ai_family != AF_INET6)
    continue;
if (getnameinfo(ai->ai_addr, ai->ai_addrlen,
    ntop, sizeof(ntop), strport, sizeof(strport),
    NI_NUMERICHOST|NI_NUMERICSERV) != 0) {
    error("%s: getnameinfo failed", __func__);
    continue;
}
debug("Connecting to %.200s [%.100s] port %s.",
    host, ntop, strport);

/* Create a socket for connecting. */
sock = ssh_create_socket(needpriv, ai);
if (sock < 0)
    /* Any error is already output */
    continue;

if (timeout_connect(sock, ai->ai_addr, ai->ai_addrlen,
    timeout_ms) >= 0) {
    /* Successful connection. */
    memcpy(hostaddr, ai->ai_addr, ai->ai_addrlen);
    break;
} else {
    debug("connect to address %s port %s: %s",
        ntop, strport, strerror(errno));
    close(sock);
    sock = -1;
}
}
if (sock != -1)
    break; /* Successful connection. */
}

/* Return failure if we didn't get a successful connection. */
if (sock == -1) {
    error("ssh: connect to host %s port %s: %s",
        host, strport, strerror(errno));
    return (-1);
}

debug("Connection established.");

/* Set SO_KEEPALIVE if requested. */
if (want_keepalive &&
    setsockopt(sock, SOL_SOCKET, SO_KEEPALIVE, (void *)&on,
    sizeof(on)) < 0)
    error("setsockopt SO_KEEPALIVE: %.100s", strerror(errno));

```

```

/* Set the connection. */
packet_set_connection(sock, sock);

return 0;
}

int
ssh_connect(const char *host, struct addrinfo *addrs,
            struct sockaddr_storage *hostaddr, u_short port, int family,
            int connection_attempts, int *timeout_ms, int want_keepalive, int needpriv)
{
if (options.proxy_command == NULL) {
return ssh_connect_direct(host, addrs, hostaddr, port, family,
                           connection_attempts, timeout_ms, want_keepalive, needpriv);
} else if (strcmp(options.proxy_command, "-") == 0) {
packet_set_connection(STDIN_FILENO, STDOUT_FILENO);
return 0; /* Always succeeds */
} else if (options.proxy_use_fdpass) {
return ssh_proxy_fdpass_connect(host, port,
                                options.proxy_command);
}
return ssh_proxy_connect(host, port, options.proxy_command);
}

static void
send_client_banner(int connection_out, int minor1)
{
/* Send our own protocol version identification. */
if (compat20) {
xasprintf(&client_version_string, "SSH-%d.%d-%.100s\r\n",
          PROTOCOL_MAJOR_2, PROTOCOL_MINOR_2, SSH_VERSION);
} else {
xasprintf(&client_version_string, "SSH-%d.%d-%.100s\r\n",
          PROTOCOL_MAJOR_1, minor1, SSH_VERSION);
}
if (atomicio(vwrite, connection_out, client_version_string,
            strlen(client_version_string)) != strlen(client_version_string))
fatal("write: %.100s", strerror(errno));
chop(client_version_string);
debug("Local version string %.100s", client_version_string);
}

/*
* Waits for the server identification string, and sends our own
* identification string.
*/
void

```

```

ssh_exchange_identification(int timeout_ms)
{
    char buf[256], remote_version[256]; /* must be same size! */
    int remote_major, remote_minor, mismatch;
    int connection_in = packet_get_connection_in();
    int connection_out = packet_get_connection_out();
    int minor1 = PROTOCOL_MINOR_1, client_banner_sent = 0;
    u_int i, n;
    size_t len;
    int fdset, remaining, rc;
    struct timeval t_start, t_remaining;
    fd_set *fdset;

    fdset = howmany(connection_in + 1, NFDBITS) * sizeof(fd_mask);
    fdset = xcalloc(1, fdset);

    /*
     * If we are SSH2-only then we can send the banner immediately and
     * save a round-trip.
     */
    if (options.protocol == SSH_PROTO_2) {
        enable_compat20();
        send_client_banner(connection_out, 0);
        client_banner_sent = 1;
    }

    /* Read other side's version identification. */
    remaining = timeout_ms;
    for (n = 0;;) {
        for (i = 0; i < sizeof(buf) - 1; i++) {
            if (timeout_ms > 0) {
                gettimeofday(&t_start, NULL);
                ms_to_timeval(&t_remaining, remaining);
                FD_SET(connection_in, fdset);
                rc = select(connection_in + 1, fdset, NULL,
                    fdset, &t_remaining);
                ms_subtract_diff(&t_start, &remaining);
                if (rc == 0 || remaining <= 0)
                    fatal("Connection timed out during "
                        "banner exchange");
                if (rc == -1) {
                    if (errno == EINTR)
                        continue;
                    fatal("ssh_exchange_identification: "
                        "select: %s", strerror(errno));
                }
            }
        }
    }
}

```

```

len = atomicio(read, connection_in, &buf[i], 1);

if (len != 1 && errno == EPIPE)
    fatal("ssh_exchange_identification: "
        "Connection closed by remote host");
else if (len != 1)
    fatal("ssh_exchange_identification: "
        "read: %.100s", strerror(errno));
if (buf[i] == '\r') {
    buf[i] = '\n';
    buf[i + 1] = 0;
    continue; /*XXX wait for \n */
}
if (buf[i] == '\n') {
    buf[i + 1] = 0;
    break;
}
if (++n > 65536)
    fatal("ssh_exchange_identification: "
        "No banner received");
}
buf[sizeof(buf) - 1] = 0;
if (strncmp(buf, "SSH-", 4) == 0)
    break;
debug("ssh_exchange_identification: %s", buf);
}
server_version_string = xstrdup(buf);
free(fdset);

/*
 * Check that the versions match. In future this might accept
 * several versions and set appropriate flags to handle them.
 */
if (sscanf(server_version_string, "SSH-%d.%d-%[^\n]\n",
    &remote_major, &remote_minor, remote_version) != 3)
    fatal("Bad remote protocol version identification: %.100s", buf);
debug("Remote protocol version %d.%d, remote software version %.100s",
    remote_major, remote_minor, remote_version);

active_state->compat = compat_datafellows(remote_version);
mismatch = 0;

switch (remote_major) {
case 1:
    if (remote_minor == 99 &&
        (options.protocol & SSH_PROTO_2) &&
        !(options.protocol & SSH_PROTO_1_PREFERRED)) {
        enable_compat20();
    }
}

```



```

break;
}
if (!(options.protocol & SSH_PROTO_1)) {
    mismatch = 1;
    break;
}
if (remote_minor < 3) {
    fatal("Remote machine has too old SSH software version.");
} else if (remote_minor == 3 || remote_minor == 4) {
    /* We speak 1.3, too. */
    enable_compat13();
    minor1 = 3;
    if (options.forward_agent) {
        logit("Agent forwarding disabled for protocol 1.3");
        options.forward_agent = 0;
    }
}
break;
case 2:
if (options.protocol & SSH_PROTO_2) {
    enable_compat20();
    break;
}
/* FALLTHROUGH */
default:
    mismatch = 1;
    break;
}
if (mismatch)
    fatal("Protocol major versions differ: %d vs. %d",
        (options.protocol & SSH_PROTO_2) ? PROTOCOL_MAJOR_2 : PROTOCOL_MAJOR_1,
        remote_major);
if ((datafellows & SSH_BUG_DERIVEKEY) != 0)
    fatal("Server version \"%.100s\" uses unsafe key agreement; "
        "refusing connection", remote_version);
if ((datafellows & SSH_BUG_RSASIGMD5) != 0)
    logit("Server version \"%.100s\" uses unsafe RSA signature "
        "scheme; disabling use of RSA keys", remote_version);
if (!client_banner_sent)
    send_client_banner(connection_out, minor1);
chop(server_version_string);
}

/* defaults to 'no' */
static int
confirm(const char *prompt)
{
    const char *msg, *again = "Please type 'yes' or 'no': ";

```

```

char *p;
int ret = -1;

if (options.batch_mode)
    return 0;
for (msg = prompt;;msg = again) {
    p = read_passphrase(msg, RP_ECHO);
    if (p == NULL ||
        (p[0] == '\0') || (p[0] == '\n') ||
        strncasecmp(p, "no", 2) == 0)
        ret = 0;
    if (p && strncasecmp(p, "yes", 3) == 0)
        ret = 1;
    free(p);
    if (ret != -1)
        return ret;
}

static int
check_host_cert(const char *host, const Key *host_key)
{
    const char *reason;

    if (key_cert_check_authority(host_key, 1, 0, host, &reason) != 0) {
        error("%s", reason);
        return 0;
    }
    if (buffer_len(host_key->cert->critical) != 0) {
        error("Certificate for %s contains unsupported "
            "critical options(s)", host);
        return 0;
    }
    return 1;
}

static int
sockaddr_is_local(struct sockaddr *hostaddr)
{
    switch (hostaddr->sa_family) {
    case AF_INET:
        return (ntohl(((struct sockaddr_in *)hostaddr)->
            sin_addr.s_addr) >> 24) == IN_LOOPBACKNET;
    case AF_INET6:
        return IN6_IS_ADDR_LOOPBACK(
            &(((struct sockaddr_in6 *)hostaddr)->sin6_addr));
    default:
        return 0;
    }
}

```

```

}
}

/*
 * Prepare the hostname and ip address strings that are used to lookup
 * host keys in known_hosts files. These may have a port number appended.
 */
void
get_hostfile_hostname_ipaddr(char *hostname, struct sockaddr *hostaddr,
    u_short port, char **hostfile_hostname, char **hostfile_ipaddr)
{
    char ntop[NI_MAXHOST];
    socklen_t addrlen;

    switch (hostaddr == NULL ? -1 : hostaddr->sa_family) {
    case -1:
        addrlen = 0;
        break;
    case AF_INET:
        addrlen = sizeof(struct sockaddr_in);
        break;
    case AF_INET6:
        addrlen = sizeof(struct sockaddr_in6);
        break;
    default:
        addrlen = sizeof(struct sockaddr);
        break;
    }

    /*
     * We don't have the remote ip-address for connections
     * using a proxy command
     */
    if (hostfile_ipaddr != NULL) {
        if (options.proxy_command == NULL) {
            if (getnameinfo(hostaddr, addrlen,
                ntop, sizeof(ntop), NULL, 0, NI_NUMERICHOST) != 0)
                fatal("%s: getnameinfo failed", __func__);
            *hostfile_ipaddr = put_host_port(ntop, port);
        } else {
            *hostfile_ipaddr = xstrdup("<no hostip for proxy "
                "command>");
        }
    }

    /*
     * Allow the user to record the key under a different name or
     * differentiate a non-standard port. This is useful for ssh

```

```

* tunneling over forwarded connections or if you run multiple
* sshd's on different ports on the same machine.
*/
if (hostfile_hostname != NULL) {
if (options.host_key_alias != NULL) {
*hostfile_hostname = xstrdup(options.host_key_alias);
debug("using hostkeyalias: %s", *hostfile_hostname);
} else {
*hostfile_hostname = put_host_port(hostname, port);
}
}
}

/*
* check whether the supplied host key is valid, return -1 if the key
* is not valid. user_hostfile[0] will not be updated if 'readonly' is true.
*/
#define RDRW 0
#define RDONLY 1
#define ROQUIET 2
static int
check_host_key(char *hostname, struct sockaddr *hostaddr, u_short port,
Key *host_key, int readonly,
char **user_hostfiles, u_int num_user_hostfiles,
char **system_hostfiles, u_int num_system_hostfiles)
{
HostStatus host_status;
HostStatus ip_status;
Key *raw_key = NULL;
char *ip = NULL, *host = NULL;
char hostline[1000], *hostp, *fp, *ra;
char msg[1024];
const char *type;
const struct hostkey_entry *host_found, *ip_found;
int len, cancelled_forwarding = 0;
int local = sockaddr_is_local(hostaddr);
int r, want_cert = key_is_cert(host_key), host_ip_differ = 0;
int hostkey_trusted = 0; /* Known or explicitly accepted by user */
struct hostkeys *host_hostkeys, *ip_hostkeys;
u_int i;

/*
* Force accepting of the host key for loopback/localhost. The
* problem is that if the home directory is NFS-mounted to multiple
* machines, localhost will refer to a different machine in each of
* them, and the user will get bogus HOST_CHANGED warnings. This
* essentially disables host authentication for localhost; however,
* this is probably not a real problem.

```

```

*/
if (options.no_host_authentication_for_localhost == 1 && local &&
    options.host_key_alias == NULL) {
    debug("Forcing accepting of host key for "
        "loopback/localhost.");
    return 0;
}

/*
 * Prepare the hostname and address strings used for hostkey lookup.
 * In some cases, these will have a port number appended.
 */
get_hostfile_hostname_ipaddr(hostname, hostaddr, port, &host, &ip);

/*
 * Turn off check_host_ip if the connection is to localhost, via proxy
 * command or if we don't have a hostname to compare with
 */
if (options.check_host_ip && (local ||
    strcmp(hostname, ip) == 0 || options.proxy_command != NULL))
    options.check_host_ip = 0;

host_hostkeys = init_hostkeys();
for (i = 0; i < num_user_hostfiles; i++)
    load_hostkeys(host_hostkeys, host, user_hostfiles[i]);
for (i = 0; i < num_system_hostfiles; i++)
    load_hostkeys(host_hostkeys, host, system_hostfiles[i]);

ip_hostkeys = NULL;
if (!want_cert && options.check_host_ip) {
    ip_hostkeys = init_hostkeys();
    for (i = 0; i < num_user_hostfiles; i++)
        load_hostkeys(ip_hostkeys, ip, user_hostfiles[i]);
    for (i = 0; i < num_system_hostfiles; i++)
        load_hostkeys(ip_hostkeys, ip, system_hostfiles[i]);
}

retry:
/* Reload these as they may have changed on cert->key downgrade */
want_cert = key_is_cert(host_key);
type = key_type(host_key);

/*
 * Check if the host key is present in the user's list of known
 * hosts or in the systemwide list.
 */
host_status = check_key_in_hostkeys(host_hostkeys, host_key,
    &host_found);

```

```

/*
 * Also perform check for the ip address, skip the check if we are
 * localhost, looking for a certificate, or the hostname was an ip
 * address to begin with.
 */
if (!want_cert && ip_hostkeys != NULL) {
    ip_status = check_key_in_hostkeys(ip_hostkeys, host_key,
        &ip_found);
    if (host_status == HOST_CHANGED &&
        (ip_status != HOST_CHANGED ||
         (ip_found != NULL &&
          !key_equal(ip_found->key, host_found->key))))
        host_ip_differ = 1;
} else
    ip_status = host_status;

switch (host_status) {
case HOST_OK:
    /* The host is known and the key matches. */
    debug("Host '%.200s' is known and matches the %s host %s.",
        host, type, want_cert ? "certificate" : "key");
    debug("Found %s in %s:%lu", want_cert ? "CA key" : "key",
        host_found->file, host_found->line);
    if (want_cert && !check_host_cert(hostname, host_key))
        goto fail;
    if (options.check_host_ip && ip_status == HOST_NEW) {
        if (readonly || want_cert)
            logit("%s host key for IP address "
                "'%.128s' not in list of known hosts.",
                type, ip);
        else if (!add_host_to_hostfile(user_hostfiles[0], ip,
            host_key, options.hash_known_hosts))
            logit("Failed to add the %s host key for IP "
                "address '%.128s' to the list of known "
                "hosts (%.500s).", type, ip,
                user_hostfiles[0]);
        else
            logit("Warning: Permanently added the %s host "
                "key for IP address '%.128s' to the list "
                "of known hosts.", type, ip);
    } else if (options.visual_host_key) {
        fp = sshkey_fingerprint(host_key,
            options.fingerprint_hash, SSH_FP_DEFAULT);
        ra = sshkey_fingerprint(host_key,
            options.fingerprint_hash, SSH_FP_RANDOMART);
        if (fp == NULL || ra == NULL)
            fatal("%s: sshkey_fingerprint fail", __func__);
    }
}

```

```

logit("Host key fingerprint is %s\n%s", fp, ra);
free(ra);
free(fp);
}
hostkey_trusted = 1;
break;
case HOST_NEW:
if (options.host_key_alias == NULL && port != 0 &&
    port != SSH_DEFAULT_PORT) {
    debug("checking without port identifier");
if (check_host_key(hostname, hostaddr, 0, host_key,
    ROQUIET, user_hostfiles, num_user_hostfiles,
    system_hostfiles, num_system_hostfiles) == 0) {
    debug("found matching key w/out port");
    break;
}
}
if (readonly || want_cert)
    goto fail;
/* The host is new. */
if (options.strict_host_key_checking == 1) {
    /*
     * User has requested strict host key checking. We
     * will not add the host key automatically. The only
     * alternative left is to abort.
     */
    error("No %s host key is known for %.200s and you "
        "have requested strict checking.", type, host);
    goto fail;
} else if (options.strict_host_key_checking == 2) {
    char msg1[1024], msg2[1024];

if (show_other_keys(host_hostkeys, host_key))
    snprintf(msg1, sizeof(msg1),
        "\nbut keys of different type are already"
        " known for this host.");
else
    snprintf(msg1, sizeof(msg1), ".");
/* The default */
fp = sshkey_fingerprint(host_key,
    options.fingerprint_hash, SSH_FP_DEFAULT);
ra = sshkey_fingerprint(host_key,
    options.fingerprint_hash, SSH_FP_RANDOMART);
if (fp == NULL || ra == NULL)
    fatal("%s: sshkey_fingerprint fail", __func__);
msg2[0] = '\0';
if (options.verify_host_key_dns) {
    if (matching_host_key_dns)

```

```

snprintf(msg2, sizeof(msg2),
    "Matching host key fingerprint"
    " found in DNS.\n");
else
snprintf(msg2, sizeof(msg2),
    "No matching host key fingerprint"
    " found in DNS.\n");
}
snprintf(msg, sizeof(msg),
    "The authenticity of host '%.200s (%s)' can't be "
    "established%s\n"
    "%s key fingerprint is %s.%s%s\n%s"
    "Are you sure you want to continue connecting "
    "(yes/no)? ",
    host, ip, msg1, type, fp,
    options.visual_host_key ? "\n" : "",
    options.visual_host_key ? ra : "",
    msg2);
free(ra);
free(fp);
if (!confirm(msg))
    goto fail;
hostkey_trusted = 1; /* user explicitly confirmed */
}
/*
 * If not in strict mode, add the key automatically to the
 * local known_hosts file.
 */
if (options.check_host_ip && ip_status == HOST_NEW) {
snprintf(hostline, sizeof(hostline), "%s,%s", host, ip);
hostp = hostline;
if (options.hash_known_hosts) {
    /* Add hash of host and IP separately */
    r = add_host_to_hostfile(user_hostfiles[0],
        host, host_key, options.hash_known_hosts) &&
        add_host_to_hostfile(user_hostfiles[0], ip,
            host_key, options.hash_known_hosts);
} else {
    /* Add unhashed "host,ip" */
    r = add_host_to_hostfile(user_hostfiles[0],
        hostline, host_key,
        options.hash_known_hosts);
}
} else {
    r = add_host_to_hostfile(user_hostfiles[0], host,
        host_key, options.hash_known_hosts);
    hostp = host;
}
}

```



```

if (!r)
    logit("Failed to add the host to the list of known "
        "hosts (%.500s).", user_hostfiles[0]);
else
    logit("Warning: Permanently added '%.200s' (%s) to the "
        "list of known hosts.", hostp, type);
break;
case HOST_REVOKED:
error("@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@@@@@@@@@@@@@@@@@@@");
    error("@    WARNING: REVOKED HOST KEY DETECTED!          @");
error("@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@@@@@@@@@@@@@@@@@@@");
    error("The %s host key for %s is marked as revoked.", type, host);
    error("This could mean that a stolen key is being used to");
    error("impersonate this host.");

/*
 * If strict host key checking is in use, the user will have
 * to edit the key manually and we can only abort.
 */
if (options.strict_host_key_checking) {
    error("%s host key for %.200s was revoked and you have "
        "requested strict checking.", type, host);
    goto fail;
}
goto continue_unsafe;

case HOST_CHANGED:
if (want_cert) {
    /*
     * This is only a debug() since it is valid to have
     * CAs with wildcard DNS matches that don't match
     * all hosts that one might visit.
     */
    debug("Host certificate authority does not "
        "match %s in %s:%lu", CA_MARKER,
        host_found->file, host_found->line);
    goto fail;
}
if (readonly == ROQUIET)
    goto fail;
if (options.check_host_ip && host_ip_differ) {
    char *key_msg;
    if (ip_status == HOST_NEW)
        key_msg = "is unknown";
    else if (ip_status == HOST_OK)

```

```

    key_msg = "is unchanged";
else
    key_msg = "has a different value";
error("@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@@@@@@@@@@@@@@@");
    error("@    WARNING: POSSIBLE DNS SPOOFING DETECTED!    @");
error("@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@@@@@@@@@@@@@@@");
    error("The %s host key for %s has changed,", type, host);
    error("and the key for the corresponding IP address %s", ip);
    error("%s. This could either mean that", key_msg);
    error("DNS SPOOFING is happening or the IP address for the host");
    error("and its host key have changed at the same time.");
if (ip_status != HOST_NEW)
    error("Offending key for IP in %s:%lu",
        ip_found->file, ip_found->line);
}
/* The host key has changed. */
warn_changed_key(host_key);
error("Add correct host key in %.100s to get rid of this message.",
    user_hostfiles[0]);
error("Offending %s key in %s:%lu", key_type(host_found->key),
    host_found->file, host_found->line);

/*
 * If strict host key checking is in use, the user will have
 * to edit the key manually and we can only abort.
 */
if (options.strict_host_key_checking) {
    error("%s host key for %.200s has changed and you have "
        "requested strict checking.", type, host);
    goto fail;
}

continue_unsafe:
/*
 * If strict host key checking has not been requested, allow
 * the connection but without MITM-able authentication or
 * forwarding.
 */
if (options.password_authentication) {
    error("Password authentication is disabled to avoid "
        "man-in-the-middle attacks.");
    options.password_authentication = 0;
    cancelled_forwarding = 1;
}
if (options.kbd_interactive_authentication) {
    error("Keyboard-interactive authentication is disabled"

```

```

    " to avoid man-in-the-middle attacks.");
options.kbd_interactive_authentication = 0;
options.challenge_response_authentication = 0;
cancelled_forwarding = 1;
}
if (options.challenge_response_authentication) {
error("Challenge/response authentication is disabled"
    " to avoid man-in-the-middle attacks.");
options.challenge_response_authentication = 0;
cancelled_forwarding = 1;
}
if (options.forward_agent) {
error("Agent forwarding is disabled to avoid "
    "man-in-the-middle attacks.");
options.forward_agent = 0;
cancelled_forwarding = 1;
}
if (options.forward_x11) {
error("X11 forwarding is disabled to avoid "
    "man-in-the-middle attacks.");
options.forward_x11 = 0;
cancelled_forwarding = 1;
}
if (options.num_local_forwards > 0 ||
    options.num_remote_forwards > 0) {
error("Port forwarding is disabled to avoid "
    "man-in-the-middle attacks.");
options.num_local_forwards =
    options.num_remote_forwards = 0;
cancelled_forwarding = 1;
}
if (options.tun_open != SSH_TUNMODE_NO) {
error("Tunnel forwarding is disabled to avoid "
    "man-in-the-middle attacks.");
options.tun_open = SSH_TUNMODE_NO;
cancelled_forwarding = 1;
}
if (options.exit_on_forward_failure && cancelled_forwarding)
fatal("Error: forwarding disabled due to host key "
    "check failure");

/*
 * XXX Should permit the user to change to use the new id.
 * This could be done by converting the host key to an
 * identifying sentence, tell that the host identifies itself
 * by that sentence, and ask the user if he/she wishes to
 * accept the authentication.
 */

```

```

break;
case HOST_FOUND:
fatal("internal error");
break;
}

if (options.check_host_ip && host_status != HOST_CHANGED &&
    ip_status == HOST_CHANGED) {
snprintf(msg, sizeof(msg),
    "Warning: the %s host key for '%.200s' "
    "differs from the key for the IP address '%.128s'"
    "\nOffending key for IP in %s:%lu",
    type, host, ip, ip_found->file, ip_found->line);
if (host_status == HOST_OK) {
len = strlen(msg);
snprintf(msg + len, sizeof(msg) - len,
    "\nMatching host key in %s:%lu",
    host_found->file, host_found->line);
}
if (options.strict_host_key_checking == 1) {
logit("%s", msg);
error("Exiting, you have requested strict checking.");
goto fail;
} else if (options.strict_host_key_checking == 2) {
strlcat(msg, "\nAre you sure you want "
    "to continue connecting (yes/no)? ", sizeof(msg));
if (!confirm(msg))
goto fail;
} else {
logit("%s", msg);
}
}

if (!hostkey_trusted && options.update_hostkeys) {
debug("%s: hostkey not known or explicitly trusted: "
    "disabling UpdateHostkeys", __func__);
options.update_hostkeys = 0;
}

free(ip);
free(host);
if (host_hostkeys != NULL)
free_hostkeys(host_hostkeys);
if (ip_hostkeys != NULL)
free_hostkeys(ip_hostkeys);
return 0;

fail:

```

```

if (want_cert && host_status != HOST_REVOKED) {
    /*
     * No matching certificate. Downgrade cert to raw key and
     * search normally.
     */
    debug("No matching CA found. Retry with plain key");
    raw_key = key_from_private(host_key);
    if (key_drop_cert(raw_key) != 0)
        fatal("Couldn't drop certificate");
    host_key = raw_key;
    goto retry;
}
if (raw_key != NULL)
    key_free(raw_key);
free(ip);
free(host);
if (host_hostkeys != NULL)
    free_hostkeys(host_hostkeys);
if (ip_hostkeys != NULL)
    free_hostkeys(ip_hostkeys);
return -1;
}

/* returns 0 if key verifies or -1 if key does NOT verify */
int
verify_host_key(char *host, struct sockaddr *hostaddr, Key *host_key)
{
    u_int i;
    int r = -1, flags = 0;
    char valid[64], *fp = NULL, *cafp = NULL;
    struct sshkey *plain = NULL;

    if ((fp = sshkey_fingerprint(host_key,
        options.fingerprint_hash, SSH_FP_DEFAULT)) == NULL) {
        error("%s: fingerprint host key: %s", __func__, ssh_err(r));
        r = -1;
        goto out;
    }

    if (sshkey_is_cert(host_key)) {
        if ((cafp = sshkey_fingerprint(host_key->cert->signature_key,
            options.fingerprint_hash, SSH_FP_DEFAULT)) == NULL) {
            error("%s: fingerprint CA key: %s",
                __func__, ssh_err(r));
            r = -1;
            goto out;
        }
        sshkey_format_cert_validity(host_key->cert,

```

```

    valid, sizeof(valid));
debug("Server host certificate: %s %s, serial %llu "
      "ID \"%s\" CA %s %s valid %s",
      sshkey_ssh_name(host_key), fp,
      (unsigned long long)host_key->cert->serial,
      host_key->cert->key_id,
      sshkey_ssh_name(host_key->cert->signature_key), cafp,
      valid);
for (i = 0; i < host_key->cert->nprincipals; i++) {
    debug2("Server host certificate hostname: %s",
          host_key->cert->principals[i]);
}
} else {
debug("Server host key: %s %s", compat20 ?
      sshkey_ssh_name(host_key) : sshkey_type(host_key), fp);
}

if (sshkey_equal(previous_host_key, host_key)) {
    debug2("%s: server host key %s %s matches cached key",
          __func__, sshkey_type(host_key), fp);
    r = 0;
    goto out;
}

/* Check in RevokedHostKeys file if specified */
if (options.revoked_host_keys != NULL) {
    r = sshkey_check_revoked(host_key, options.revoked_host_keys);
    switch (r) {
    case 0:
        break; /* not revoked */
    case SSH_ERR_KEY_REVOKED:
        error("Host key %s %s revoked by file %s",
              sshkey_type(host_key), fp,
              options.revoked_host_keys);
        r = -1;
        goto out;
    default:
        error("Error checking host key %s %s in "
              "revoked keys file %s: %s", sshkey_type(host_key),
              fp, options.revoked_host_keys, ssh_err(r));
        r = -1;
        goto out;
    }
}

if (options.verify_host_key_dns) {
    /*
     * XXX certs are not yet supported for DNS, so downgrade

```

```

* them and try the plain key.
*/
if ((r = sshkey_from_private(host_key, &plain)) != 0)
    goto out;
if (sshkey_is_cert(plain))
    sshkey_drop_cert(plain);
if (verify_host_key_dns(host, hostaddr, plain, &flags) == 0) {
    if (flags & DNS_VERIFY_FOUND) {
        if (options.verify_host_key_dns == 1 &&
            flags & DNS_VERIFY_MATCH &&
            flags & DNS_VERIFY_SECURE) {
            r = 0;
            goto out;
        }
        if (flags & DNS_VERIFY_MATCH) {
            matching_host_key_dns = 1;
        } else {
            warn_changed_key(plain);
            error("Update the SSHFP RR in DNS "
                "with the new host key to get rid "
                "of this message.");
        }
    }
}
r = check_host_key(host, hostaddr, options.port, host_key, RDRW,
    options.user_hostfiles, options.num_user_hostfiles,
    options.system_hostfiles, options.num_system_hostfiles);

out:
sshkey_free(plain);
free(fp);
free(cafp);
if (r == 0 && host_key != NULL) {
    key_free(previous_host_key);
    previous_host_key = key_from_private(host_key);
}

return r;
}

/*
* Starts a dialog with the server, and authenticates the current user on the
* server. This does not need any extra privileges. The basic connection
* to the server must already have been established before this is called.
* If login fails, this function prints an error and never returns.
* This function does not require super-user privileges.
*/

```

```

void
ssh_login(Sensitive *sensitive, const char *orighost,
    struct sockaddr *hostaddr, u_short port, struct passwd *pw, int timeout_ms)
{
    char *host;
    char *server_user, *local_user;

    local_user = xstrdup(pw->pw_name);
    server_user = options.user ? options.user : local_user;

    /* Convert the user-supplied hostname into all lowercase. */
    host = xstrdup(orighost);
    lowercase(host);

    /* Exchange protocol version identification strings with the server. */
    ssh_exchange_identification(timeout_ms);

    /* Put the connection into non-blocking mode. */
    packet_set_nonblocking();

    /* key exchange */
    /* authenticate user */
    debug("Authenticating to %s:%d as '%s'", host, port, server_user);
    if (compat20) {
        ssh_kex2(host, hostaddr, port);
        ssh_userauth2(local_user, server_user, host, sensitive);
    } else {
#ifdef WITH_SSH1
        ssh_kex(host, hostaddr);
        ssh_userauth1(local_user, server_user, host, sensitive);
#else
        fatal("ssh1 is not supported");
#endif
    }
    free(local_user);
}

void
ssh_put_password(char *password)
{
    int size;
    char *padded;

    if (datafellows & SSH_BUG_PASSWORDPAD) {
        packet_put_cstring(password);
        return;
    }
    size = roundup(strlen(password) + 1, 32);

```



```

padded = xcalloc(1, size);
strncpy(padded, password, size);
packet_put_string(padded, size);
explicit_bzero(padded, size);
free(padded);
}

/* print all known host keys for a given host, but skip keys of given type */
static int
show_other_keys(struct hostkeys *hostkeys, Key *key)
{
int type[] = {
KEY_RSA1,
KEY_RSA,
KEY_DSA,
KEY_ECDSA,
KEY_ED25519,
-1
};
int i, ret = 0;
char *fp, *ra;
const struct hostkey_entry *found;

for (i = 0; type[i] != -1; i++) {
if (type[i] == key->type)
continue;
if (!lookup_key_in_hostkeys_by_type(hostkeys, type[i], &found))
continue;
fp = sshkey_fingerprint(found->key,
options.fingerprint_hash, SSH_FP_DEFAULT);
ra = sshkey_fingerprint(found->key,
options.fingerprint_hash, SSH_FP_RANDOMART);
if (fp == NULL || ra == NULL)
fatal("%s: sshkey_fingerprint fail", __func__);
logit("WARNING: %s key found for host %s\n"
"in %s:%lu\n"
"%s key fingerprint %s.",
key_type(found->key),
found->host, found->file, found->line,
key_type(found->key), fp);
if (options.visual_host_key)
logit("%s", ra);
free(ra);
free(fp);
ret = 1;
}
return ret;
}

```

```

static void
warn_changed_key(Key *host_key)
{
    char *fp;

    fp = sshkey_fingerprint(host_key, options.fingerprint_hash,
        SSH_FP_DEFAULT);
    if (fp == NULL)
        fatal("%s: sshkey_fingerprint fail", __func__);

    error("@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@@@@@@@@@@@@@@@@@@@");
    error("@ WARNING: REMOTE HOST IDENTIFICATION HAS CHANGED!  @");
    error("@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@
@@@@@@@@@@@@@@@@@@@@");
    error("IT IS POSSIBLE THAT SOMEONE IS DOING SOMETHING NASTY!");
    error("Someone could be eavesdropping on you right now (man-in-the-middle attack)!");
    error("It is also possible that a host key has just been changed.");
    error("The fingerprint for the %s key sent by the remote host is\n%s.",
        key_type(host_key), fp);
    error("Please contact your system administrator.");

    free(fp);
}

/*
 * Execute a local command
 */
int
ssh_local_cmd(const char *args)
{
    char *shell;
    pid_t pid;
    int status;
    void (*osighand)(int);

    if (!options.permit_local_command ||
        args == NULL || !*args)
        return (1);

    if ((shell = getenv("SHELL")) == NULL || *shell == '\0')
        shell = _PATH_BSHELL;

    osighand = signal(SIGCHLD, SIG_DFL);
    pid = fork();
    if (pid == 0) {
        signal(SIGPIPE, SIG_DFL);

```

```

debug3("Executing %s -c \"%s\"", shell, args);
execl(shell, shell, "-c", args, (char *)NULL);
error("Couldn't execute %s -c \"%s\": %s",
      shell, args, strerror(errno));
_exit(1);
} else if (pid == -1)
fatal("fork failed: %.100s", strerror(errno));
while (waitpid(pid, &status, 0) == -1)
if (errno != EINTR)
fatal("Couldn't wait for child: %s", strerror(errno));
signal(SIGCHLD, osighand);

if (!WIFEXITED(status))
return (1);

return (WEXITSTATUS(status));
}

void
maybe_add_key_to_agent(char *authfile, Key *private, char *comment,
char *passphrase)
{
int auth_sock = -1, r;

if (options.add_keys_to_agent == 0)
return;

if ((r = ssh_get_authentication_socket(&auth_sock)) != 0) {
debug3("no authentication agent, not adding key");
return;
}

if (options.add_keys_to_agent == 2 &&
!ask_permission("Add key %s (%s) to agent?", authfile, comment)) {
debug3("user denied adding this key");
return;
}

if ((r = ssh_add_identity_constrained(auth_sock, private, comment, 0,
(options.add_keys_to_agent == 3))) == 0)
debug("identity added to agent: %s", authfile);
else
debug("could not add identity to agent: %s (%d)", authfile, r);
}
/* $OpenBSD: sshconnect.h,v 1.29 2015/11/15 22:26:49 jcs Exp $ */

/*
* Copyright (c) 2000 Markus Friedl. All rights reserved.

```

```

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*/

```

```

typedef struct Sensitive Sensitive;
struct Sensitive {
    Key **keys;
    int nkeys;
    int external_keysign;
};

struct addrinfo;
int ssh_connect(const char *, struct addrinfo *, struct sockaddr_storage *,
    u_short, int, int, int *, int, int);
void ssh_kill_proxy_command(void);

void ssh_login(Sensitive *, const char *, struct sockaddr *, u_short,
    struct passwd *, int);

void ssh_exchange_identification(int);

int verify_host_key(char *, struct sockaddr *, Key *);

void get_hostfile_hostname_ipaddr(char *, struct sockaddr *, u_short,
    char **, char **);

void ssh_kex(char *, struct sockaddr *);
void ssh_kex2(char *, struct sockaddr *, u_short);

void ssh_userauth1(const char *, const char *, char *, Sensitive *);

```

```

void ssh_userauth2(const char *, const char *, char *, Sensitive *);

void ssh_put_password(char *);
int ssh_local_cmd(const char *);

void maybe_add_key_to_agent(char *, Key *, char *, char *);

/*
 * Macros to raise/lower permissions.
 */
#define PRIV_START do { \
    int save_errno = errno; \
    if (seteuid(original_effective_uid) != 0) \
        fatal("PRIV_START: seteuid: %s", \
            strerror(errno)); \
    errno = save_errno; \
} while (0)

#define PRIV_END do { \
    int save_errno = errno; \
    if (seteuid(original_real_uid) != 0) \
        fatal("PRIV_END: seteuid: %s", \
            strerror(errno)); \
    errno = save_errno; \
} while (0)
/* $OpenBSD: sshconnect1.c,v 1.78 2015/11/15 22:26:49 jcs Exp $ */
/*
 * Author: Tatu Ylonen <ylo@cs.hut.fi>
 * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
 * All rights reserved
 * Code to connect to a remote host, and to perform the client side of the
 * login (authentication) dialog.
 *
 * As far as I am concerned, the code I have written for this software
 * can be used freely for any purpose. Any derived versions of this
 * software must be clearly marked as such, and if the derived work is
 * incompatible with the protocol description in the RFC file, it must be
 * called by a name other than "ssh" or "Secure Shell".
 */

#include "includes.h"

#ifdef WITH_SSH1

#include <sys/types.h>
#include <sys/socket.h>

#include <openssl/bn.h>

```

```

#include <errno.h>
#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <signal.h>
#include <pwd.h>

#include "xmalloc.h"
#include "ssh.h"
#include "ssh1.h"
#include "rsa.h"
#include "buffer.h"
#include "packet.h"
#include "key.h"
#include "cipher.h"
#include "kex.h"
#include "uidswap.h"
#include "log.h"
#include "misc.h"
#include "readconf.h"
#include "authfd.h"
#include "sshconnect.h"
#include "authfile.h"
#include "canohost.h"
#include "hostfile.h"
#include "auth.h"
#include "digest.h"
#include "ssherr.h"

/* Session id for the current session. */
u_char session_id[16];
u_int supported_authentications = 0;

extern Options options;
extern char *__progname;

/*
 * Checks if the user has an authentication agent, and if so, tries to
 * authenticate using the agent.
 */
static int
try_agent_authentication(void)
{
    int r, type, agent_fd, ret = 0;
    u_char response[16];
    size_t i;

```

```

BIGNUM *challenge;
struct ssh_identitylist *idlist = NULL;

/* Get connection to the agent. */
if ((r = ssh_get_authentication_socket(&agent_fd)) != 0) {
    if (r != SSH_ERR_AGENT_NOT_PRESENT)
        debug("%s: ssh_get_authentication_socket: %s",
            __func__, ssh_err(r));
    return 0;
}

if ((challenge = BN_new()) == NULL)
    fatal("try_agent_authentication: BN_new failed");

/* Loop through identities served by the agent. */
if ((r = ssh_fetch_identitylist(agent_fd, 1, &idlist)) != 0) {
    if (r != SSH_ERR_AGENT_NO_IDENTITIES)
        debug("%s: ssh_fetch_identitylist: %s",
            __func__, ssh_err(r));
    goto out;
}
for (i = 0; i < idlist->nkeys; i++) {
    /* Try this identity. */
    debug("Trying RSA authentication via agent with '%.100s'",
        idlist->comments[i]);

    /* Tell the server that we are willing to authenticate using this key. */
    packet_start(SSH_CMSG_AUTH_RSA);
    packet_put_bignum(idlist->keys[i]->rsa->n);
    packet_send();
    packet_write_wait();

    /* Wait for server's response. */
    type = packet_read();

    /* The server sends failure if it doesn't like our key or
       does not support RSA authentication. */
    if (type == SSH_SMSG_FAILURE) {
        debug("Server refused our key.");
        continue;
    }
    /* Otherwise it should have sent a challenge. */
    if (type != SSH_SMSG_AUTH_RSA_CHALLENGE)
        packet_disconnect("Protocol error during RSA authentication: %d",
            type);

    packet_get_bignum(challenge);
    packet_check_eom();
}

```

```

debug("Received RSA challenge from server.");

/* Ask the agent to decrypt the challenge. */
if ((r = ssh_decrypt_challenge(agent_fd, idlist->keys[i],
    challenge, session_id, response)) != 0) {
    /*
     * The agent failed to authenticate this identifier
     * although it advertised it supports this. Just
     * return a wrong value.
     */
    logit("Authentication agent failed to decrypt "
        "challenge: %s", ssh_err(r));
    explicit_bzero(response, sizeof(response));
}
debug("Sending response to RSA challenge.");

/* Send the decrypted challenge back to the server. */
packet_start(SSH_CMSG_AUTH_RSA_RESPONSE);
for (i = 0; i < 16; i++)
    packet_put_char(response[i]);
packet_send();
packet_write_wait();

/* Wait for response from the server. */
type = packet_read();

/*
 * The server returns success if it accepted the
 * authentication.
 */
if (type == SSH_SMSG_SUCCESS) {
    debug("RSA authentication accepted by server.");
    ret = 1;
    break;
} else if (type != SSH_SMSG_FAILURE)
    packet_disconnect("Protocol error waiting RSA auth "
        "response: %d", type);
}
if (ret != 1)
    debug("RSA authentication using agent refused.");
out:
ssh_free_identitylist(idlist);
ssh_close_authentication_socket(agent_fd);
BN_clear_free(challenge);
return ret;
}

```



```

/*
 * Computes the proper response to a RSA challenge, and sends the response to
 * the server.
 */
static void
respond_to_rsa_challenge(BIGNUM * challenge, RSA * prv)
{
    u_char buf[32], response[16];
    struct ssh_digest_ctx *md;
    int i, len;

    /* Decrypt the challenge using the private key. */
    /* XXX think about Bleichenbacher, too */
    if (rsa_private_decrypt(challenge, challenge, prv) != 0)
        packet_disconnect(
            "respond_to_rsa_challenge: rsa_private_decrypt failed");

    /* Compute the response. */
    /* The response is MD5 of decrypted challenge plus session id. */
    len = BN_num_bytes(challenge);
    if (len <= 0 || (u_int)len > sizeof(buf))
        packet_disconnect(
            "respond_to_rsa_challenge: bad challenge length %d", len);

    memset(buf, 0, sizeof(buf));
    BN_bn2bin(challenge, buf + sizeof(buf) - len);
    if ((md = ssh_digest_start(SSH_DIGEST_MD5)) == NULL ||
        ssh_digest_update(md, buf, 32) < 0 ||
        ssh_digest_update(md, session_id, 16) < 0 ||
        ssh_digest_final(md, response, sizeof(response)) < 0)
        fatal("%s: md5 failed", __func__);
    ssh_digest_free(md);

    debug("Sending response to host key RSA challenge.");

    /* Send the response back to the server. */
    packet_start(SSH_CMSG_AUTH_RSA_RESPONSE);
    for (i = 0; i < 16; i++)
        packet_put_char(response[i]);
    packet_send();
    packet_write_wait();

    explicit_bzero(buf, sizeof(buf));
    explicit_bzero(response, sizeof(response));
    explicit_bzero(&md, sizeof(md));
}

/*

```

```

* Checks if the user has authentication file, and if so, tries to authenticate
* the user using it.
*/
static int
try_rsa_authentication(int idx)
{
    BIGNUM *challenge;
    Key *public, *private;
    char buf[300], *passphrase = NULL, *comment, *authfile;
    int i, perm_ok = 1, type, quit;

    public = options.identity_keys[idx];
    authfile = options.identity_files[idx];
    comment = xstrdup(authfile);

    debug("Trying RSA authentication with key '%.100s'", comment);

    /* Tell the server that we are willing to authenticate using this key. */
    packet_start(SSH_CMSG_AUTH_RSA);
    packet_put_bignum(public->rsa->n);
    packet_send();
    packet_write_wait();

    /* Wait for server's response. */
    type = packet_read();

    /*
     * The server responds with failure if it doesn't like our key or
     * doesn't support RSA authentication.
     */
    if (type == SSH_SMSG_FAILURE) {
        debug("Server refused our key.");
        free(comment);
        return 0;
    }
    /* Otherwise, the server should respond with a challenge. */
    if (type != SSH_SMSG_AUTH_RSA_CHALLENGE)
        packet_disconnect("Protocol error during RSA authentication: %d", type);

    /* Get the challenge from the packet. */
    if ((challenge = BN_new()) == NULL)
        fatal("try_rsa_authentication: BN_new failed");
    packet_get_bignum(challenge);
    packet_check_eom();

    debug("Received RSA challenge from server.");

    /*

```

```

* If the key is not stored in external hardware, we have to
* load the private key. Try first with empty passphrase; if it
* fails, ask for a passphrase.
*/
if (public->flags & SSHKEY_FLAG_EXT)
    private = public;
else
    private = key_load_private_type(KEY_RSA1, authfile, "", NULL,
        &perm_ok);
if (private == NULL && !options.batch_mode && perm_ok) {
    snprintf(buf, sizeof(buf),
        "Enter passphrase for RSA key '%.100s': ", comment);
    for (i = 0; i < options.number_of_password_prompts; i++) {
        passphrase = read_passphrase(buf, 0);
        if (strcmp(passphrase, "") != 0) {
            private = key_load_private_type(KEY_RSA1,
                authfile, passphrase, NULL, NULL);
            quit = 0;
        } else {
            debug2("no passphrase given, try next key");
            quit = 1;
        }
    }
    if (private != NULL || quit)
        break;
    debug2("bad passphrase given, try again...");
}
}

if (private != NULL)
    maybe_add_key_to_agent(authfile, private, comment, passphrase);

if (passphrase != NULL) {
    explicit_bzero(passphrase, strlen(passphrase));
    free(passphrase);
}

/* We no longer need the comment. */
free(comment);

if (private == NULL) {
    if (!options.batch_mode && perm_ok)
        error("Bad passphrase.");

    /* Send a dummy response packet to avoid protocol error. */
    packet_start(SSH_CMSG_AUTH_RSA_RESPONSE);
    for (i = 0; i < 16; i++)
        packet_put_char(0);
    packet_send();
}

```

```

packet_write_wait();

/* Expect the server to reject it... */
packet_read_expect(SSH_SMSG_FAILURE);
BN_clear_free(challenge);
return 0;
}

/* Compute and send a response to the challenge. */
respond_to_rsa_challenge(challenge, private->rsa);

/* Destroy the private key unless it in external hardware. */
if (!(private->flags & SSHKEY_FLAG_EXT))
    key_free(private);

/* We no longer need the challenge. */
BN_clear_free(challenge);

/* Wait for response from the server. */
type = packet_read();
if (type == SSH_SMSG_SUCCESS) {
    debug("RSA authentication accepted by server.");
    return 1;
}
if (type != SSH_SMSG_FAILURE)
    packet_disconnect("Protocol error waiting RSA auth response: %d", type);
debug("RSA authentication refused.");
return 0;
}

/*
 * Tries to authenticate the user using combined rhosts or /etc/hosts.equiv
 * authentication and RSA host authentication.
 */
static int
try_rhosts_rsa_authentication(const char *local_user, Key * host_key)
{
    int type;
    BIGNUM *challenge;

    debug("Trying rhosts or /etc/hosts.equiv with RSA host authentication.");

    /* Tell the server that we are willing to authenticate using this key. */
    packet_start(SSH_CMSG_AUTH_RHOSTS_RSA);
    packet_put_cstring(local_user);
    packet_put_int(BN_num_bits(host_key->rsa->n));
    packet_put_bignum(host_key->rsa->e);
    packet_put_bignum(host_key->rsa->n);

```

```

packet_send();
packet_write_wait();

/* Wait for server's response. */
type = packet_read();

/* The server responds with failure if it doesn't admit our
   .rhosts authentication or doesn't know our host key. */
if (type == SSH_MSG_FAILURE) {
    debug("Server refused our rhosts authentication or host key.");
    return 0;
}
/* Otherwise, the server should respond with a challenge. */
if (type != SSH_MSG_AUTH_RSA_CHALLENGE)
    packet_disconnect("Protocol error during RSA authentication: %d", type);

/* Get the challenge from the packet. */
if ((challenge = BN_new()) == NULL)
    fatal("try_rhosts_rsa_authentication: BN_new failed");
packet_get_bignum(challenge);
packet_check_eom();

debug("Received RSA challenge for host key from server.");

/* Compute a response to the challenge. */
respond_to_rsa_challenge(challenge, host_key->rsa);

/* We no longer need the challenge. */
BN_clear_free(challenge);

/* Wait for response from the server. */
type = packet_read();
if (type == SSH_MSG_SUCCESS) {
    debug("Rhosts or /etc/hosts.equiv with RSA host authentication accepted by server.");
    return 1;
}
if (type != SSH_MSG_FAILURE)
    packet_disconnect("Protocol error waiting RSA auth response: %d", type);
debug("Rhosts or /etc/hosts.equiv with RSA host authentication refused.");
return 0;
}

/*
 * Tries to authenticate with any string-based challenge/response system.
 * Note that the client code is not tied to s/key or TIS.
 */
static int
try_challenge_response_authentication(void)

```

```

{
int type, i;
u_int clen;
char prompt[1024];
char *challenge, *response;

debug("Doing challenge response authentication.");

for (i = 0; i < options.number_of_password_prompts; i++) {
/* request a challenge */
packet_start(SSH_CMSG_AUTH_TIS);
packet_send();
packet_write_wait();

type = packet_read();
if (type != SSH_SMSG_FAILURE &&
    type != SSH_SMSG_AUTH_TIS_CHALLENGE) {
    packet_disconnect("Protocol error: got %d in response "
        "to SSH_CMSG_AUTH_TIS", type);
}
if (type != SSH_SMSG_AUTH_TIS_CHALLENGE) {
    debug("No challenge.");
    return 0;
}
challenge = packet_get_string(&clen);
packet_check_eom();
snprintf(prompt, sizeof prompt, "%s%s", challenge,
    strchr(challenge, '\n') ? "" : "\nResponse: ");
free(challenge);
if (i != 0)
    error("Permission denied, please try again.");
if (options.cipher == SSH_CIPHER_NONE)
    logit("WARNING: Encryption is disabled! "
        "Response will be transmitted in clear text.");
response = read_passphrase(prompt, 0);
if (strcmp(response, "") == 0) {
    free(response);
    break;
}
packet_start(SSH_CMSG_AUTH_TIS_RESPONSE);
ssh_put_password(response);
explicit_bzero(response, strlen(response));
free(response);
packet_send();
packet_write_wait();
type = packet_read();
if (type == SSH_SMSG_SUCCESS)
    return 1;
}

```

```

if (type != SSH_SMSG_FAILURE)
    packet_disconnect("Protocol error: got %d in response "
        "to SSH_CMSG_AUTH_TIS_RESPONSE", type);
}
/* failure */
return 0;
}

/*
 * Tries to authenticate with plain passwd authentication.
 */
static int
try_password_authentication(char *prompt)
{
    int type, i;
    char *password;

    debug("Doing password authentication.");
    if (options.cipher == SSH_CIPHER_NONE)
        logit("WARNING: Encryption is disabled! Password will be transmitted in clear text.");
    for (i = 0; i < options.number_of_password_prompts; i++) {
        if (i != 0)
            error("Permission denied, please try again.");
        password = read_passphrase(prompt, 0);
        packet_start(SSH_CMSG_AUTH_PASSWORD);
        ssh_put_password(password);
        explicit_bzero(password, strlen(password));
        free(password);
        packet_send();
        packet_write_wait();

        type = packet_read();
        if (type == SSH_SMSG_SUCCESS)
            return 1;
        if (type != SSH_SMSG_FAILURE)
            packet_disconnect("Protocol error: got %d in response to passwd auth", type);
    }
    /* failure */
    return 0;
}

/*
 * SSH1 key exchange
 */
void
ssh_kex(char *host, struct sockaddr *hostaddr)
{
    int i;

```

```

BIGNUM *key;
Key *host_key, *server_key;
int bits, rbits;
int ssh_cipher_default = SSH_CIPHER_3DES;
u_char session_key[SSH_SESSION_KEY_LENGTH];
u_char cookie[8];
u_int supported_ciphers;
u_int server_flags, client_flags;
u_int32_t rnd = 0;

debug("Waiting for server public key.");

/* Wait for a public key packet from the server. */
packet_read_expect(SSH_SMSG_PUBLIC_KEY);

/* Get cookie from the packet. */
for (i = 0; i < 8; i++)
    cookie[i] = packet_get_char();

/* Get the public key. */
server_key = key_new(KEY_RSA1);
bits = packet_get_int();
packet_get_bignum(server_key->rsa->e);
packet_get_bignum(server_key->rsa->n);

rbits = BN_num_bits(server_key->rsa->n);
if (bits != rbits) {
    logit("Warning: Server lies about size of server public key: "
        "actual size is %d bits vs. announced %d.", rbits, bits);
    logit("Warning: This may be due to an old implementation of ssh.");
}
/* Get the host key. */
host_key = key_new(KEY_RSA1);
bits = packet_get_int();
packet_get_bignum(host_key->rsa->e);
packet_get_bignum(host_key->rsa->n);

rbits = BN_num_bits(host_key->rsa->n);
if (bits != rbits) {
    logit("Warning: Server lies about size of server host key: "
        "actual size is %d bits vs. announced %d.", rbits, bits);
    logit("Warning: This may be due to an old implementation of ssh.");
}

/* Get protocol flags. */
server_flags = packet_get_int();
packet_set_protocol_flags(server_flags);

```



```

supported_ciphers = packet_get_int();
supported_authentications = packet_get_int();
packet_check_eom();

debug("Received server public key (%d bits) and host key (%d bits).",
      BN_num_bits(server_key->rsa->n), BN_num_bits(host_key->rsa->n));

if (verify_host_key(host, hostaddr, host_key) == -1)
fatal("Host key verification failed.");

client_flags = SSH_PROTOFLAG_SCREEN_NUMBER | SSH_PROTOFLAG_HOST_IN_FWD_OPEN;

derive_ssh1_session_id(host_key->rsa->n, server_key->rsa->n, cookie, session_id);

/*
 * Generate an encryption key for the session. The key is a 256 bit
 * random number, interpreted as a 32-byte key, with the least
 * significant 8 bits being the first byte of the key.
 */
for (i = 0; i < 32; i++) {
if (i % 4 == 0)
    rnd = arc4random();
session_key[i] = rnd & 0xff;
rnd >>= 8;
}

/*
 * According to the protocol spec, the first byte of the session key
 * is the highest byte of the integer. The session key is xored with
 * the first 16 bytes of the session id.
 */
if ((key = BN_new()) == NULL)
fatal("ssh_kex: BN_new failed");
if (BN_set_word(key, 0) == 0)
fatal("ssh_kex: BN_set_word failed");
for (i = 0; i < SSH_SESSION_KEY_LENGTH; i++) {
if (BN_lshift(key, key, 8) == 0)
fatal("ssh_kex: BN_lshift failed");
if (i < 16) {
if (BN_add_word(key, session_key[i] ^ session_id[i])
    == 0)
fatal("ssh_kex: BN_add_word failed");
} else {
if (BN_add_word(key, session_key[i]) == 0)
fatal("ssh_kex: BN_add_word failed");
}
}
}

```

```

/*
 * Encrypt the integer using the public key and host key of the
 * server (key with smaller modulus first).
 */
if (BN_cmp(server_key->rsa->n, host_key->rsa->n) < 0) {
    /* Public key has smaller modulus. */
    if (BN_num_bits(host_key->rsa->n) <
        BN_num_bits(server_key->rsa->n) + SSH_KEY_BITS_RESERVED) {
        fatal("respond_to_rsa_challenge: host_key %d < server_key %d + "
            "SSH_KEY_BITS_RESERVED %d",
            BN_num_bits(host_key->rsa->n),
            BN_num_bits(server_key->rsa->n),
            SSH_KEY_BITS_RESERVED);
    }
    if (rsa_public_encrypt(key, key, server_key->rsa) != 0 ||
        rsa_public_encrypt(key, key, host_key->rsa) != 0)
        fatal("%s: rsa_public_encrypt failed", __func__);
    } else {
        /* Host key has smaller modulus (or they are equal). */
        if (BN_num_bits(server_key->rsa->n) <
            BN_num_bits(host_key->rsa->n) + SSH_KEY_BITS_RESERVED) {
            fatal("respond_to_rsa_challenge: server_key %d < host_key %d + "
                "SSH_KEY_BITS_RESERVED %d",
                BN_num_bits(server_key->rsa->n),
                BN_num_bits(host_key->rsa->n),
                SSH_KEY_BITS_RESERVED);
        }
        if (rsa_public_encrypt(key, key, host_key->rsa) != 0 ||
            rsa_public_encrypt(key, key, server_key->rsa) != 0)
            fatal("%s: rsa_public_encrypt failed", __func__);
        }

    /* Destroy the public keys since we no longer need them. */
    key_free(server_key);
    key_free(host_key);

    if (options.cipher == SSH_CIPHER_NOT_SET) {
        if (cipher_mask_ssh1(1) & supported_ciphers & (1 << ssh_cipher_default))
            options.cipher = ssh_cipher_default;
    } else if (options.cipher == SSH_CIPHER_INVALID ||
        !(cipher_mask_ssh1(1) & (1 << options.cipher))) {
        logit("No valid SSH1 cipher, using %.100s instead.",
            cipher_name(ssh_cipher_default));
        options.cipher = ssh_cipher_default;
    }

    /* Check that the selected cipher is supported. */
    if (!(supported_ciphers & (1 << options.cipher)))
        fatal("Selected cipher type %.100s not supported by server.",

```

```

    cipher_name(options.cipher));

debug("Encryption type: %.100s", cipher_name(options.cipher));

/* Send the encrypted session key to the server. */
packet_start(SSH_CMSG_SESSION_KEY);
packet_put_char(options.cipher);

/* Send the cookie back to the server. */
for (i = 0; i < 8; i++)
    packet_put_char(cookie[i]);

/* Send and destroy the encrypted encryption key integer. */
packet_put_bignum(key);
BN_clear_free(key);

/* Send protocol flags. */
packet_put_int(client_flags);

/* Send the packet now. */
packet_send();
packet_write_wait();

debug("Sent encrypted session key.");

/* Set the encryption key. */
packet_set_encryption_key(session_key, SSH_SESSION_KEY_LENGTH, options.cipher);

/*
 * We will no longer need the session key here.
 * Destroy any extra copies.
 */
explicit_bzero(session_key, sizeof(session_key));

/*
 * Expect a success message from the server. Note that this message
 * will be received in encrypted form.
 */
packet_read_expect(SSH_SMSG_SUCCESS);

debug("Received encrypted confirmation.");
}

/*
 * Authenticate user
 */
void
ssh_userauth1(const char *local_user, const char *server_user, char *host,

```

```

    Sensitive *sensitive)
{
    int i, type;

    if (supported_authentications == 0)
        fatal("ssh_userauth1: server supports no auth methods");

    /* Send the name of the user to log in as on the server. */
    packet_start(SSH_CMSG_USER);
    packet_put_cstring(server_user);
    packet_send();
    packet_write_wait();

    /*
     * The server should respond with success if no authentication is
     * needed (the user has no password). Otherwise the server responds
     * with failure.
     */
    type = packet_read();

    /* check whether the connection was accepted without authentication. */
    if (type == SSH_SMSG_SUCCESS)
        goto success;
    if (type != SSH_SMSG_FAILURE)
        packet_disconnect("Protocol error: got %d in response to SSH_CMSG_USER", type);

    /*
     * Try .rhosts or /etc/hosts.equiv authentication with RSA host
     * authentication.
     */
    if ((supported_authentications & (1 << SSH_AUTH_RHOSTS_RSA)) &&
        options.rhosts_rsa_authentication) {
        for (i = 0; i < sensitive->nkeys; i++) {
            if (sensitive->keys[i] != NULL &&
                sensitive->keys[i]->type == KEY_RSA1 &&
                try_rhosts_rsa_authentication(local_user,
                    sensitive->keys[i]))
                goto success;
        }
    }

    /* Try RSA authentication if the server supports it. */
    if ((supported_authentications & (1 << SSH_AUTH_RSA)) &&
        options.rsa_authentication) {
        /*
         * Try RSA authentication using the authentication agent. The
         * agent is tried first because no passphrase is needed for
         * it, whereas identity files may require passphrases.
         */
    }
}

```

```

if (try_agent_authentication())
    goto success;

/* Try RSA authentication for each identity. */
for (i = 0; i < options.num_identity_files; i++)
    if (options.identity_keys[i] != NULL &&
        options.identity_keys[i]->type == KEY_RSA1 &&
        try_rsa_authentication(i))
        goto success;
}
/* Try challenge response authentication if the server supports it. */
if ((supported_authentications & (1 << SSH_AUTH_TIS)) &&
    options.challenge_response_authentication && !options.batch_mode) {
    if (try_challenge_response_authentication())
        goto success;
}
/* Try password authentication if the server supports it. */
if ((supported_authentications & (1 << SSH_AUTH_PASSWORD)) &&
    options.password_authentication && !options.batch_mode) {
    char prompt[80];

    snprintf(prompt, sizeof(prompt), "%.30s@%.128s's password: ",
             server_user, host);
    if (try_password_authentication(prompt))
        goto success;
}
/* All authentication methods have failed. Exit with an error message. */
fatal("Permission denied.");
/* NOTREACHED */

success:
return; /* need statement after label */
}

#endif /* WITH_SSH1 */
/* $OpenBSD: sshconnect2.c,v 1.239 2016/02/23 01:34:14 djm Exp $ */
/*
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```

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\*/

```
#include "includes.h"
```

```
#include <sys/types.h>  
#include <sys/socket.h>  
#include <sys/wait.h>  
#include <sys/stat.h>
```

```
#include <errno.h>  
#include <fcntl.h>  
#include <netdb.h>  
#include <pwd.h>  
#include <signal.h>  
#include <stdarg.h>  
#include <stdio.h>  
#include <string.h>  
#include <unistd.h>  
#if defined(HAVE_STRNVIS) && defined(HAVE_VIS_H) && !defined(BROKEN_STRNVIS)  
#include <vis.h>  
#endif
```

```
#include "openbsd-compat/sys-queue.h"
```

```
#include "xmalloc.h"  
#include "ssh.h"  
#include "ssh2.h"  
#include "buffer.h"  
#include "packet.h"  
#include "compat.h"  
#include "cipher.h"  
#include "key.h"  
#include "kex.h"  
#include "myproposal.h"  
#include "sshconnect.h"  
#include "authfile.h"  
#include "dh.h"
```

```

#include "authfd.h"
#include "log.h"
#include "misc.h"
#include "readconf.h"
#include "match.h"
#include "dispatch.h"
#include "canohost.h"
#include "msg.h"
#include "pathnames.h"
#include "uidswap.h"
#include "hostfile.h"
#include "ssherr.h"

#ifdef GSSAPI
#include "ssh-gss.h"
#endif

/* import */
extern char *client_version_string;
extern char *server_version_string;
extern Options options;

/*
 * SSH2 key exchange
 */

u_char *session_id2 = NULL;
u_int session_id2_len = 0;

char *xxx_host;
struct sockaddr *xxx_hostaddr;

static int
verify_host_key_callback(Key *hostkey, struct ssh *ssh)
{
    if (verify_host_key(xxx_host, xxx_hostaddr, hostkey) == -1)
        fatal("Host key verification failed.");
    return 0;
}

static char *
order_hostkeyalgs(char *host, struct sockaddr *hostaddr, u_short port)
{
    char *oavail, *avail, *first, *last, *alg, *hostname, *ret;
    size_t maxlen;
    struct hostkeys *hostkeys;
    int ktype;
    u_int i;

```

```

/* Find all hostkeys for this hostname */
get_hostfile_hostname_ipaddr(host, hostaddr, port, &hostname, NULL);
hostkeys = init_hostkeys();
for (i = 0; i < options.num_user_hostfiles; i++)
    load_hostkeys(hostkeys, hostname, options.user_hostfiles[i]);
for (i = 0; i < options.num_system_hostfiles; i++)
    load_hostkeys(hostkeys, hostname, options.system_hostfiles[i]);

oavail = avail = xstrdup(KEX_DEFAULT_PK_ALG);
maxlen = strlen(avail) + 1;
first = xmalloc(maxlen);
last = xmalloc(maxlen);
*first = *last = '\0';

#define ALG_APPEND(to, from) \
do { \
    if (*to != '\0') \
        strlcat(to, ",", maxlen); \
    strlcat(to, from, maxlen); \
} while (0)

while ((alg = strsep(&avail, ",")) && *alg != '\0') {
    if ((ktype = sshkey_type_from_name(alg)) == KEY_UNSPEC)
        fatal("%s: unknown alg %s", __func__, alg);
    if (lookup_key_in_hostkeys_by_type(hostkeys,
        sshkey_type_plain(ktype), NULL))
        ALG_APPEND(first, alg);
    else
        ALG_APPEND(last, alg);
}
#undef ALG_APPEND
xasprintf(&ret, "%s%s%s", first,
    (*first == '\0' || *last == '\0') ? "" : ",", last);
if (*first != '\0')
    debug3("%s: prefer hostkeyalgs: %s", __func__, first);

free(first);
free(last);
free(hostname);
free(oavail);
free_hostkeys(hostkeys);

return ret;
}

void
ssh_kex2(char *host, struct sockaddr *hostaddr, u_short port)

```



```

{
char *myproposal[PROPOSAL_MAX] = { KEX_CLIENT };
char *s;
struct kex *kex;
int r;

xxx_host = host;
xxx_hostaddr = hostaddr;

if ((s = kex_names_cat(options.kex_algorithms, "ext-info-c")) == NULL)
    fatal("%s: kex_names_cat", __func__);
myproposal[PROPOSAL_KEX_ALGS] = compat_kex_proposal(s);
myproposal[PROPOSAL_ENC_ALGS_CTOS] =
    compat_cipher_proposal(options.ciphers);
myproposal[PROPOSAL_ENC_ALGS_STOC] =
    compat_cipher_proposal(options.ciphers);
if (options.compression) {
    myproposal[PROPOSAL_COMP_ALGS_CTOS] =
    myproposal[PROPOSAL_COMP_ALGS_STOC] = "zlib@openssh.com,zlib,none";
} else {
    myproposal[PROPOSAL_COMP_ALGS_CTOS] =
    myproposal[PROPOSAL_COMP_ALGS_STOC] = "none,zlib@openssh.com,zlib";
}
myproposal[PROPOSAL_MAC_ALGS_CTOS] =
    myproposal[PROPOSAL_MAC_ALGS_STOC] = options.macs;
if (options.hostkeyalgorithms != NULL) {
    if (kex_assemble_names(KEX_DEFAULT_PK_ALG,
        &options.hostkeyalgorithms) != 0)
        fatal("%s: kex_assemble_namelist", __func__);
    myproposal[PROPOSAL_SERVER_HOST_KEY_ALGS] =
        compat_pkalg_proposal(options.hostkeyalgorithms);
} else {
    /* Enforce default */
    options.hostkeyalgorithms = xstrdup(KEX_DEFAULT_PK_ALG);
    /* Prefer algorithms that we already have keys for */
    myproposal[PROPOSAL_SERVER_HOST_KEY_ALGS] =
        compat_pkalg_proposal(
            order_hostkeyalgs(host, hostaddr, port));
}

if (options.rekey_limit || options.rekey_interval)
    packet_set_rekey_limits((u_int32_t)options.rekey_limit,
        (time_t)options.rekey_interval);

/* start key exchange */
if ((r = kex_setup(active_state, myproposal)) != 0)
    fatal("kex_setup: %s", ssh_err(r));
kex = active_state->kex;

```

```

#ifdef WITH_OPENSSL
kex->kex[KEX_DH_GRP1_SHA1] = kexdh_client;
kex->kex[KEX_DH_GRP14_SHA1] = kexdh_client;
kex->kex[KEX_DH_GEX_SHA1] = kexgex_client;
kex->kex[KEX_DH_GEX_SHA256] = kexgex_client;
# ifdef OPENSSL_HAS_ECC
kex->kex[KEX_ECDH_SHA2] = kexecdh_client;
# endif
#endif

kex->kex[KEX_C25519_SHA256] = kexc25519_client;
kex->client_version_string=client_version_string;
kex->server_version_string=server_version_string;
kex->verify_host_key=&verify_host_key_callback;

dispatch_run(DISPATCH_BLOCK, &kex->done, active_state);

/* remove ext-info from the KEX proposals for rekeying */
myproposal[PROPOSAL_KEX_ALGS] =
    compat_kex_proposal(options.kex_algorithms);
if ((r = kex_prop2buf(kex->my, myproposal)) != 0)
    fatal("kex_prop2buf: %s", ssh_err(r));

session_id2 = kex->session_id;
session_id2_len = kex->session_id_len;

#ifdef DEBUG_KEXDH
/* send 1st encrypted/maced/compressed message */
packet_start(SSH2_MSG_IGNORE);
packet_put_cstring("markus");
packet_send();
packet_write_wait();
#endif
}

/*
 * Authenticate user
 */

typedef struct cauthctxt Authctxt;
typedef struct cauthmethod Authmethod;
typedef struct identity Identity;
typedef struct idlist Idlist;

struct identity {
    TAILQ_ENTRY(identity) next;
    int agent_fd; /* >=0 if agent supports key */
    struct sshkey *key; /* public/private key */
    char *filename; /* comment for agent-only keys */

```

```

int tried;
int isprivate; /* key points to the private key */
int userprovided;
};
TAILQ_HEAD(idlist, identity);

struct cauthtxt {
    const char *server_user;
    const char *local_user;
    const char *host;
    const char *service;
    struct cauthmethod *method;
    sig_atomic_t success;
    char *authlist;
    int attempt;
    /* pubkey */
    struct idlist keys;
    int agent_fd;
    /* hostbased */
    Sensitive *sensitive;
    char *oktypes, *ktypes;
    const char *active_ktype;
    /* kbd-interactive */
    int info_req_seen;
    /* generic */
    void *methoddata;
};

struct cauthmethod {
    char *name; /* string to compare against server's list */
    int (*userauth)(Authctxt *authctxt);
    void (*cleanup)(Authctxt *authctxt);
    int *enabled; /* flag in option struct that enables method */
    int *batch_flag; /* flag in option struct that disables method */
};

int input_userauth_service_accept(int, u_int32_t, void *);
int input_userauth_ext_info(int, u_int32_t, void *);
int input_userauth_success(int, u_int32_t, void *);
int input_userauth_success_unexpected(int, u_int32_t, void *);
int input_userauth_failure(int, u_int32_t, void *);
int input_userauth_banner(int, u_int32_t, void *);
int input_userauth_error(int, u_int32_t, void *);
int input_userauth_info_req(int, u_int32_t, void *);
int input_userauth_pk_ok(int, u_int32_t, void *);
int input_userauth_passwd_changereq(int, u_int32_t, void *);

int userauth_none(Authctxt *);

```

```

int userauth_pubkey(Authctxt *);
int userauth_passwd(Authctxt *);
int userauth_kbdint(Authctxt *);
int userauth_hostbased(Authctxt *);

#ifdef GSSAPI
int userauth_gssapi(Authctxt *authctxt);
int input_gssapi_response(int type, u_int32_t, void *);
int input_gssapi_token(int type, u_int32_t, void *);
int input_gssapi_hash(int type, u_int32_t, void *);
int input_gssapi_error(int, u_int32_t, void *);
int input_gssapi_errtok(int, u_int32_t, void *);
#endif

void userauth(Authctxt *, char *);

static int sign_and_send_pubkey(Authctxt *, Identity *);
static void pubkey_prepare(Authctxt *);
static void pubkey_cleanup(Authctxt *);
static Key *load_identity_file(Identity *);

static Authmethod *authmethod_get(char *authlist);
static Authmethod *authmethod_lookup(const char *name);
static char *authmethods_get(void);

Authmethod authmethods[] = {
#ifdef GSSAPI
{"gssapi-with-mic",
 userauth_gssapi,
 NULL,
 &options.gss_authentication,
 NULL},
#endif
{"hostbased",
 userauth_hostbased,
 NULL,
 &options.hostbased_authentication,
 NULL},
{"publickey",
 userauth_pubkey,
 NULL,
 &options.pubkey_authentication,
 NULL},
{"keyboard-interactive",
 userauth_kbdint,
 NULL,
 &options.kbd_interactive_authentication,
 &options.batch_mode },

```

```

{"password",
 userauth_passwd,
 NULL,
 &options.password_authentication,
 &options.batch_mode},
{"none",
 userauth_none,
 NULL,
 NULL,
 NULL},
{NULL, NULL, NULL, NULL, NULL}
};

void
ssh_userauth2(const char *local_user, const char *server_user, char *host,
 Sensitive *sensitive)
{
 struct ssh *ssh = active_state;
 Authctxt authctxt;
 int r;

 if (options.challenge_response_authentication)
  options.kbd_interactive_authentication = 1;
 if (options.preferred_authentications == NULL)
  options.preferred_authentications = authmethods_get();

 /* setup authentication context */
 memset(&authctxt, 0, sizeof(authctxt));
 pubkey_prepare(&authctxt);
 authctxt.server_user = server_user;
 authctxt.local_user = local_user;
 authctxt.host = host;
 authctxt.service = "ssh-connection"; /* service name */
 authctxt.success = 0;
 authctxt.method = authmethod_lookup("none");
 authctxt.authlist = NULL;
 authctxt.methoddata = NULL;
 authctxt.sensitive = sensitive;
 authctxt.active_ktype = authctxt.oktypes = authctxt.ktypes = NULL;
 authctxt.info_req_seen = 0;
 authctxt.agent_fd = -1;
 if (authctxt.method == NULL)
  fatal("ssh_userauth2: internal error: cannot send userauth none request");

 if ((r = sshpkt_start(ssh, SSH2_MSG_SERVICE_REQUEST)) != 0 ||
      (r = sshpkt_put_cstring(ssh, "ssh-userauth")) != 0 ||
      (r = sshpkt_send(ssh)) != 0)
  fatal("%s: %s", __func__, ssh_err(r));

```

```

ssh_dispatch_init(ssh, &input_userauth_error);
ssh_dispatch_set(ssh, SSH2_MSG_EXT_INFO, &input_userauth_ext_info);
ssh_dispatch_set(ssh, SSH2_MSG_SERVICE_ACCEPT, &input_userauth_service_accept);
ssh_dispatch_run(ssh, DISPATCH_BLOCK, &authctxt.success, &authctxt); /* loop until success */

pubkey_cleanup(&authctxt);
ssh_dispatch_range(ssh, SSH2_MSG_USERAUTH_MIN, SSH2_MSG_USERAUTH_MAX, NULL);

debug("Authentication succeeded (%s).", authctxt.method->name);
}

/* ARGSUSED */
int
input_userauth_service_accept(int type, u_int32_t seqnr, void *ctxt)
{
    Authctxt *authctxt = ctxt;
    struct ssh *ssh = active_state;
    int r;

    if (ssh_packet_remaining(ssh) > 0) {
        char *reply;

        if ((r = sshpkt_get_cstring(ssh, &reply, NULL)) != 0)
            goto out;
        debug2("service_accept: %s", reply);
        free(reply);
    } else {
        debug2("buggy server: service_accept w/o service");
    }
    if ((r = sshpkt_get_end(ssh)) != 0)
        goto out;
    debug("SSH2_MSG_SERVICE_ACCEPT received");

    /* initial userauth request */
    userauth_none(authctxt);

    ssh_dispatch_set(ssh, SSH2_MSG_EXT_INFO, &input_userauth_error);
    ssh_dispatch_set(ssh, SSH2_MSG_USERAUTH_SUCCESS, &input_userauth_success);
    ssh_dispatch_set(ssh, SSH2_MSG_USERAUTH_FAILURE, &input_userauth_failure);
    ssh_dispatch_set(ssh, SSH2_MSG_USERAUTH_BANNER, &input_userauth_banner);
    r = 0;
out:
    return r;
}

/* ARGSUSED */
int

```

```

input_userauth_ext_info(int type, u_int32_t seqnr, void *ctxt)
{
    return kex_input_ext_info(type, seqnr, active_state);
}

void
userauth(Authctxt *authctxt, char *authlist)
{
    if (authctxt->method != NULL && authctxt->method->cleanup != NULL)
        authctxt->method->cleanup(authctxt);

    free(authctxt->methoddata);
    authctxt->methoddata = NULL;
    if (authlist == NULL) {
        authlist = authctxt->authlist;
    } else {
        free(authctxt->authlist);
        authctxt->authlist = authlist;
    }
    for (;;) {
        Authmethod *method = authmethod_get(authlist);
        if (method == NULL)
            fatal("Permission denied (%s).", authlist);
        authctxt->method = method;

        /* reset the per method handler */
        dispatch_range(SSH2_MSG_USERAUTH_PER_METHOD_MIN,
            SSH2_MSG_USERAUTH_PER_METHOD_MAX, NULL);

        /* and try new method */
        if (method->userauth(authctxt) != 0) {
            debug2("we sent a %s packet, wait for reply", method->name);
            break;
        } else {
            debug2("we did not send a packet, disable method");
            method->enabled = NULL;
        }
    }
}

/* ARGSUSED */
int
input_userauth_error(int type, u_int32_t seq, void *ctxt)
{
    fatal("input_userauth_error: bad message during authentication: "
        "type %d", type);
    return 0;
}

```

```

/* ARGSUSED */
int
input_userauth_banner(int type, u_int32_t seq, void *ctx)
{
    char *msg, *raw, *lang;
    u_int len;

    debug3("input_userauth_banner");
    raw = packet_get_string(&len);
    lang = packet_get_string(NULL);
    if (len > 0 && options.log_level >= SYSLOG_LEVEL_INFO) {
        if (len > 65536)
            len = 65536;
        msg = xmalloc(len * 4 + 1); /* max expansion from strnvis() */
        strnvis(msg, raw, len * 4 + 1, VIS_SAFE|VIS_OCTAL|VIS_NOSLASH);
        fprintf(stderr, "%s", msg);
        free(msg);
    }
    free(raw);
    free(lang);
    return 0;
}

/* ARGSUSED */
int
input_userauth_success(int type, u_int32_t seq, void *ctx)
{
    Authctx *authctx = ctx;

    if (authctx == NULL)
        fatal("input_userauth_success: no authentication context");
    free(authctx->authlist);
    authctx->authlist = NULL;
    if (authctx->method != NULL && authctx->method->cleanup != NULL)
        authctx->method->cleanup(authctx);
    free(authctx->methoddata);
    authctx->methoddata = NULL;
    authctx->success = 1; /* break out */
    return 0;
}

int
input_userauth_success_unexpected(int type, u_int32_t seq, void *ctx)
{
    Authctx *authctx = ctx;

    if (authctx == NULL)

```



```

fatal("%s: no authentication context", __func__);

fatal("Unexpected authentication success during %s.",
      authctxt->method->name);
return 0;
}

/* ARGSUSED */
int
input_userauth_failure(int type, u_int32_t seq, void *ctxt)
{
    Authctxt *authctxt = ctxt;
    char *authlist = NULL;
    int partial;

    if (authctxt == NULL)
        fatal("input_userauth_failure: no authentication context");

    authlist = packet_get_string(NULL);
    partial = packet_get_char();
    packet_check_eom();

    if (partial != 0) {
        logit("Authenticated with partial success.");
        /* reset state */
        pubkey_cleanup(authctxt);
        pubkey_prepare(authctxt);
    }
    debug("Authentications that can continue: %s", authlist);

    userauth(authctxt, authlist);
    return 0;
}

/* ARGSUSED */
int
input_userauth_pk_ok(int type, u_int32_t seq, void *ctxt)
{
    Authctxt *authctxt = ctxt;
    Key *key = NULL;
    Identity *id = NULL;
    Buffer b;
    int pktype, sent = 0;
    u_int alen, blen;
    char *pkalg, *fp;
    u_char *pkblob;

    if (authctxt == NULL)

```

```

fatal("input_userauth_pk_ok: no authentication context");
if (datafellows & SSH_BUG_PKOK) {
    /* this is similar to SSH_BUG_PKAUTH */
    debug2("input_userauth_pk_ok: SSH_BUG_PKOK");
    pkblob = packet_get_string(&blen);
    buffer_init(&b);
    buffer_append(&b, pkblob, blen);
    pkalg = buffer_get_string(&b, &alen);
    buffer_free(&b);
} else {
    pkalg = packet_get_string(&alen);
    pkblob = packet_get_string(&blen);
}
packet_check_eom();

debug("Server accepts key: pkalg %s blen %u", pkalg, blen);

if ((pktype = key_type_from_name(pkalg)) == KEY_UNSPEC) {
    debug("unknown pkalg %s", pkalg);
    goto done;
}
if ((key = key_from_blob(pkblob, blen)) == NULL) {
    debug("no key from blob. pkalg %s", pkalg);
    goto done;
}
if (key->type != pktype) {
    error("input_userauth_pk_ok: type mismatch "
        "for decoded key (received %d, expected %d)",
        key->type, pktype);
    goto done;
}
if ((fp = sshkey_fingerprint(key, options.fingerprint_hash,
    SSH_FP_DEFAULT)) == NULL)
    goto done;
debug2("input_userauth_pk_ok: fp %s", fp);
free(fp);

/*
 * search keys in the reverse order, because last candidate has been
 * moved to the end of the queue. this also avoids confusion by
 * duplicate keys
 */
TAILQ_FOREACH_REVERSE(id, &authctxt->keys, idlist, next) {
    if (key_equal(key, id->key)) {
        sent = sign_and_send_pubkey(authctxt, id);
        break;
    }
}
}

```

```

done:
if (key != NULL)
    key_free(key);
free(pkalg);
free(pkblob);

/* try another method if we did not send a packet */
if (sent == 0)
    userauth(authctxt, NULL);
return 0;
}

#ifdef GSSAPI
int
userauth_gssapi(Authctxt *authctxt)
{
    Gssctxt *gssctxt = NULL;
    static gss_OID_set gss_supported = NULL;
    static u_int mech = 0;
    OM_uint32 min;
    int ok = 0;

    /* Try one GSSAPI method at a time, rather than sending them all at
     * once. */

    if (gss_supported == NULL)
        gss_indicate_mechs(&min, &gss_supported);

    /* Check to see if the mechanism is usable before we offer it */
    while (mech < gss_supported->count && !ok) {
        /* My DER encoding requires length<128 */
        if (gss_supported->elements[mech].length < 128 &&
            ssh_gssapi_check_mechanism(&gssctxt,
                &gss_supported->elements[mech], authctxt->host)) {
            ok = 1; /* Mechanism works */
        } else {
            mech++;
        }
    }

    if (!ok)
        return 0;

    authctxt->methoddata=(void *)gssctxt;

    packet_start(SSH2_MSG_USERAUTH_REQUEST);
    packet_put_cstring(authctxt->server_user);
    packet_put_cstring(authctxt->service);

```

```

packet_put_cstring(authctxt->method->name);

packet_put_int(1);

packet_put_int((gss_supported->elements[mech].length) + 2);
packet_put_char(SSH_GSS_OIDTYPE);
packet_put_char(gss_supported->elements[mech].length);
packet_put_raw(gss_supported->elements[mech].elements,
    gss_supported->elements[mech].length);

packet_send();

dispatch_set(SSH2_MSG_USERAUTH_GSSAPI_RESPONSE, &input_gssapi_response);
dispatch_set(SSH2_MSG_USERAUTH_GSSAPI_TOKEN, &input_gssapi_token);
dispatch_set(SSH2_MSG_USERAUTH_GSSAPI_ERROR, &input_gssapi_error);
dispatch_set(SSH2_MSG_USERAUTH_GSSAPI_ERRTOK, &input_gssapi_errtok);

mech++; /* Move along to next candidate */

return 1;
}

static OM_uint32
process_gssapi_token(void *ctxt, gss_buffer_t recv_tok)
{
    Authctxt *authctxt = ctxt;
    Gssctxt *gssctxt = authctxt->methoddata;
    gss_buffer_desc send_tok = GSS_C_EMPTY_BUFFER;
    gss_buffer_desc mic = GSS_C_EMPTY_BUFFER;
    gss_buffer_desc gssbuf;
    OM_uint32 status, ms, flags;
    Buffer b;

    status = ssh_gssapi_init_ctx(gssctxt, options.gss_deleg_creds,
        recv_tok, &send_tok, &flags);

    if (send_tok.length > 0) {
        if (GSS_ERROR(status))
            packet_start(SSH2_MSG_USERAUTH_GSSAPI_ERRTOK);
        else
            packet_start(SSH2_MSG_USERAUTH_GSSAPI_TOKEN);

        packet_put_string(send_tok.value, send_tok.length);
        packet_send();
        gss_release_buffer(&ms, &send_tok);
    }

    if (status == GSS_S_COMPLETE) {

```

```

/* send either complete or MIC, depending on mechanism */
if (!(flags & GSS_C_INTEG_FLAG)) {
    packet_start(SSH2_MSG_USERAUTH_GSSAPI_EXCHANGE_COMPLETE);
    packet_send();
} else {
    ssh_gssapi_buildmic(&b, authctxt->server_user,
        authctxt->service, "gssapi-with-mic");

    gssbuf.value = buffer_ptr(&b);
    gssbuf.length = buffer_len(&b);

    status = ssh_gssapi_sign(gssctxt, &gssbuf, &mic);

    if (!GSS_ERROR(status)) {
        packet_start(SSH2_MSG_USERAUTH_GSSAPI_MIC);
        packet_put_string(mic.value, mic.length);

        packet_send();
    }

    buffer_free(&b);
    gss_release_buffer(&ms, &mic);
}

return status;
}

/* ARGSUSED */
int
input_gssapi_response(int type, u_int32_t plen, void *ctxt)
{
    Authctxt *authctxt = ctxt;
    Gssctxt *gssctxt;
    int oidlen;
    char *oidv;

    if (authctxt == NULL)
        fatal("input_gssapi_response: no authentication context");
    gssctxt = authctxt->methoddata;

    /* Setup our OID */
    oidv = packet_get_string(&oidlen);

    if (oidlen <= 2 ||
        oidv[0] != SSH_GSS_OIDTYPE ||
        oidv[1] != oidlen - 2) {
        free(oidv);
    }
}

```

```

debug("Badly encoded mechanism OID received");
userauth(authctxt, NULL);
return 0;
}

if (!ssh_gssapi_check_oid(gssctxt, oidv + 2, oidlen - 2))
fatal("Server returned different OID than expected");

packet_check_eom();

free(oidv);

if (GSS_ERROR(process_gssapi_token(ctxt, GSS_C_NO_BUFFER))) {
/* Start again with next method on list */
debug("Trying to start again");
userauth(authctxt, NULL);
return 0;
}
return 0;
}

/* ARGSUSED */
int
input_gssapi_token(int type, u_int32_t plen, void *ctxt)
{
Authctxt *authctxt = ctxt;
gss_buffer_desc recv_tok;
OM_uint32 status;
u_int slen;

if (authctxt == NULL)
fatal("input_gssapi_response: no authentication context");

recv_tok.value = packet_get_string(&slen);
recv_tok.length = slen; /* safe typecast */

packet_check_eom();

status = process_gssapi_token(ctxt, &recv_tok);

free(recv_tok.value);

if (GSS_ERROR(status)) {
/* Start again with the next method in the list */
userauth(authctxt, NULL);
return 0;
}
return 0;
}

```

```

}

/* ARGSUSED */
int
input_gssapi_errtok(int type, u_int32_t plen, void *ctxt)
{
    Authtxt *authtxt = ctxt;
    Gssctx *gssctx;
    gss_buffer_desc send_tok = GSS_C_EMPTY_BUFFER;
    gss_buffer_desc recv_tok;
    OM_uint32 ms;
    u_int len;

    if (authtxt == NULL)
        fatal("input_gssapi_response: no authentication context");
    gssctx = authtxt->methoddata;

    recv_tok.value = packet_get_string(&len);
    recv_tok.length = len;

    packet_check_eom();

    /* Stick it into GSSAPI and see what it says */
    (void)ssh_gssapi_init_ctx(gssctx, options.gss_deleg_creds,
        &recv_tok, &send_tok, NULL);

    free(recv_tok.value);
    gss_release_buffer(&ms, &send_tok);

    /* Server will be returning a failed packet after this one */
    return 0;
}

/* ARGSUSED */
int
input_gssapi_error(int type, u_int32_t plen, void *ctxt)
{
    char *msg;
    char *lang;

    /* maj */(void)packet_get_int();
    /* min */(void)packet_get_int();
    msg=packet_get_string(NULL);
    lang=packet_get_string(NULL);

    packet_check_eom();

    debug("Server GSSAPI Error:\n%s", msg);

```

```

free(msg);
free(lang);
return 0;
}
#endif /* GSSAPI */

int
userauth_none(Authctxt *authctxt)
{
    /* initial userauth request */
    packet_start(SSH2_MSG_USERAUTH_REQUEST);
    packet_put_cstring(authctxt->server_user);
    packet_put_cstring(authctxt->service);
    packet_put_cstring(authctxt->method->name);
    packet_send();
    return 1;
}

int
userauth_passwd(Authctxt *authctxt)
{
    static int attempt = 0;
    char prompt[150];
    char *password;
    const char *host = options.host_key_alias ? options.host_key_alias :
        authctxt->host;

    if (attempt++ >= options.number_of_password_prompts)
        return 0;

    if (attempt != 1)
        error("Permission denied, please try again.");

    snprintf(prompt, sizeof(prompt), "%.30s@%.128s's password: ",
        authctxt->server_user, host);
    password = read_passphrase(prompt, 0);
    packet_start(SSH2_MSG_USERAUTH_REQUEST);
    packet_put_cstring(authctxt->server_user);
    packet_put_cstring(authctxt->service);
    packet_put_cstring(authctxt->method->name);
    packet_put_char(0);
    packet_put_cstring(password);
    explicit_bzero(password, strlen(password));
    free(password);
    packet_add_padding(64);
    packet_send();

    dispatch_set(SSH2_MSG_USERAUTH_PASSWD_CHANGEREQ,

```



```

    &input_userauth_passwd_changereq);

return 1;
}

/*
 * parse PASSWD_CHANGEREQ, prompt user and send SSH2_MSG_USERAUTH_REQUEST
 */
/* ARGSUSED */
int
input_userauth_passwd_changereq(int type, u_int32_t seqnr, void *ctxt)
{
    Authctxt *authctxt = ctxt;
    char *info, *lang, *password = NULL, *retype = NULL;
    char prompt[150];
    const char *host = options.host_key_alias ? options.host_key_alias :
        authctxt->host;

    debug2("input_userauth_passwd_changereq");

    if (authctxt == NULL)
        fatal("input_userauth_passwd_changereq: "
            "no authentication context");

    info = packet_get_string(NULL);
    lang = packet_get_string(NULL);
    if (strlen(info) > 0)
        logit("%s", info);
    free(info);
    free(lang);
    packet_start(SSH2_MSG_USERAUTH_REQUEST);
    packet_put_cstring(authctxt->server_user);
    packet_put_cstring(authctxt->service);
    packet_put_cstring(authctxt->method->name);
    packet_put_char(1); /* additional info */
    snprintf(prompt, sizeof(prompt),
        "Enter %.30s@%.128s's old password: ",
        authctxt->server_user, host);
    password = read_passphrase(prompt, 0);
    packet_put_cstring(password);
    explicit_bzero(password, strlen(password));
    free(password);
    password = NULL;
    while (password == NULL) {
        snprintf(prompt, sizeof(prompt),
            "Enter %.30s@%.128s's new password: ",
            authctxt->server_user, host);
        password = read_passphrase(prompt, RP_ALLOW_EOF);
    }
}

```

```

if (password == NULL) {
    /* bail out */
    return 0;
}
snprintf(prompt, sizeof(prompt),
    "Retype %.30s@%.128s's new password: ",
    authctxt->server_user, host);
retype = read_passphrase(prompt, 0);
if (strcmp(password, retype) != 0) {
    explicit_bzero(password, strlen(password));
    free(password);
    logit("Mismatch; try again, EOF to quit.");
    password = NULL;
}
explicit_bzero(retype, strlen(retype));
free(retype);
}
packet_put_cstring(password);
explicit_bzero(password, strlen(password));
free(password);
packet_add_padding(64);
packet_send();

dispatch_set(SSH2_MSG_USERAUTH_PASSWD_CHANGEREQ,
    &input_userauth_passwd_changereq);
return 0;
}

static const char *
identity_sign_encode(struct identity *id)
{
    struct ssh *ssh = active_state;

    if (id->key->type == KEY_RSA) {
        switch (ssh->kex->rsa_sha2) {
            case 256:
                return "rsa-sha2-256";
            case 512:
                return "rsa-sha2-512";
        }
    }
    return key_ssh_name(id->key);
}

static int
identity_sign(struct identity *id, u_char **sigp, size_t *lenp,
    const u_char *data, size_t datalen, u_int compat)
{

```

```

Key *prv;
int ret;
const char *alg;

alg = identity_sign_encode(id);

/* the agent supports this key */
if (id->agent_fd != -1)
    return ssh_agent_sign(id->agent_fd, id->key, sigp, lenp,
        data, datalen, alg, compat);

/*
 * we have already loaded the private key or
 * the private key is stored in external hardware
 */
if (id->isprivate || (id->key->flags & SSHKEY_FLAG_EXT))
    return (sshkey_sign(id->key, sigp, lenp, data, datalen, alg,
        compat));
/* load the private key from the file */
if ((prv = load_identity_file(id)) == NULL)
    return SSH_ERR_KEY_NOT_FOUND;
ret = sshkey_sign(prv, sigp, lenp, data, datalen, alg, compat);
sshkey_free(prv);
return (ret);
}

static int
sign_and_send_pubkey(Authctxt *authctxt, Identity *id)
{
    Buffer b;
    Identity *private_id;
    u_char *blob, *signature;
    size_t slen;
    u_int bloblen, skip = 0;
    int matched, ret = -1, have_sig = 1;
    char *fp;

    if ((fp = sshkey_fingerprint(id->key, options.fingerprint_hash,
        SSH_FP_DEFAULT)) == NULL)
        return 0;
    debug3("%s: %s %s", __func__, key_type(id->key), fp);
    free(fp);

    if (key_to_blob(id->key, &blob, &bloblen) == 0) {
        /* we cannot handle this key */
        debug3("sign_and_send_pubkey: cannot handle key");
        return 0;
    }
}

```

```

/* data to be signed */
buffer_init(&b);
if (datafellows & SSH_OLD_SESSIONID) {
    buffer_append(&b, session_id2, session_id2_len);
    skip = session_id2_len;
} else {
    buffer_put_string(&b, session_id2, session_id2_len);
    skip = buffer_len(&b);
}
buffer_put_char(&b, SSH2_MSG_USERAUTH_REQUEST);
buffer_put_cstring(&b, authctxt->server_user);
buffer_put_cstring(&b,
    datafellows & SSH_BUG_PKSERVICE ?
    "ssh-userauth" :
    authctxt->service);
if (datafellows & SSH_BUG_PKAUTH) {
    buffer_put_char(&b, have_sig);
} else {
    buffer_put_cstring(&b, authctxt->method->name);
    buffer_put_char(&b, have_sig);
    buffer_put_cstring(&b, identity_sign_encode(id));
}
buffer_put_string(&b, blob, bloblen);

/*
 * If the key is an certificate, try to find a matching private key
 * and use it to complete the signature.
 * If no such private key exists, return failure and continue with
 * other methods of authentication.
 */
if (key_is_cert(id->key)) {
    matched = 0;
    TAILQ_FOREACH(private_id, &authctxt->keys, next) {
        if (sshkey_equal_public(id->key, private_id->key) &&
            id->key->type != private_id->key->type) {
            id = private_id;
            matched = 1;
            break;
        }
    }
    if (matched) {
        debug2("%s: using private key \"%s\" \"%s\" for "
            "certificate", __func__, id->filename,
            id->agent_fd != -1 ? " from agent" : "");
    } else {
        /* XXX maybe verbose/error? */
        debug("%s: no private key for certificate "
            "\"%s\"", __func__, id->filename);
    }
}

```

```

    free(blob);
    buffer_free(&b);
    return 0;
}
}

/* generate signature */
ret = identity_sign(id, &signature, &slen,
    buffer_ptr(&b), buffer_len(&b), datafellows);
if (ret != 0) {
    if (ret != SSH_ERR_KEY_NOT_FOUND)
        error("%s: signing failed: %s", __func__, ssh_err(ret));
    free(blob);
    buffer_free(&b);
    return 0;
}
#ifdef DEBUG_PK
    buffer_dump(&b);
#endif
if (datafellows & SSH_BUG_PKSERVICE) {
    buffer_clear(&b);
    buffer_append(&b, session_id2, session_id2_len);
    skip = session_id2_len;
    buffer_put_char(&b, SSH2_MSG_USERAUTH_REQUEST);
    buffer_put_cstring(&b, authctxt->server_user);
    buffer_put_cstring(&b, authctxt->service);
    buffer_put_cstring(&b, authctxt->method->name);
    buffer_put_char(&b, have_sig);
    if (!(datafellows & SSH_BUG_PKAUTH))
        buffer_put_cstring(&b, key_ssh_name(id->key));
    buffer_put_string(&b, blob, bloblen);
}
free(blob);

/* append signature */
buffer_put_string(&b, signature, slen);
free(signature);

/* skip session id and packet type */
if (buffer_len(&b) < skip + 1)
    fatal("userauth_pubkey: internal error");
buffer_consume(&b, skip + 1);

/* put remaining data from buffer into packet */
packet_start(SSH2_MSG_USERAUTH_REQUEST);
packet_put_raw(buffer_ptr(&b), buffer_len(&b));
buffer_free(&b);
packet_send();

```

```

return 1;
}

static int
send_pubkey_test(Authctxt *authctxt, Identity *id)
{
    u_char *blob;
    u_int bloblen, have_sig = 0;

    debug3("send_pubkey_test");

    if (key_to_blob(id->key, &blob, &bloblen) == 0) {
        /* we cannot handle this key */
        debug3("send_pubkey_test: cannot handle key");
        return 0;
    }
    /* register callback for USERAUTH_PK_OK message */
    dispatch_set(SSH2_MSG_USERAUTH_PK_OK, &input_userauth_pk_ok);

    packet_start(SSH2_MSG_USERAUTH_REQUEST);
    packet_put_cstring(authctxt->server_user);
    packet_put_cstring(authctxt->service);
    packet_put_cstring(authctxt->method->name);
    packet_put_char(have_sig);
    if (!(datafellows & SSH_BUG_PKAUTH))
        packet_put_cstring(identity_sign_encode(id));
    packet_put_string(blob, bloblen);
    free(blob);
    packet_send();
    return 1;
}

static Key *
load_identity_file(Identity *id)
{
    Key *private = NULL;
    char prompt[300], *passphrase, *comment;
    int r, perm_ok = 0, quit = 0, i;
    struct stat st;

    if (stat(id->filename, &st) < 0) {
        (id->userprovided ? logit : debug3)("no such identity: %s: %s",
            id->filename, strerror(errno));
        return NULL;
    }
    snprintf(prompt, sizeof prompt,
        "Enter passphrase for key '%.100s': ", id->filename);

```

```

for (i = 0; i <= options.number_of_password_prompts; i++) {
    if (i == 0)
        passphrase = "";
    else {
        passphrase = read_passphrase(prompt, 0);
        if (*passphrase == '\0') {
            debug2("no passphrase given, try next key");
            free(passphrase);
            break;
        }
    }
    switch ((r = sshkey_load_private_type(KEY_UNSPEC, id->filename,
        passphrase, &private, &comment, &perm_ok))) {
    case 0:
        break;
    case SSH_ERR_KEY_WRONG_PASSPHRASE:
        if (options.batch_mode) {
            quit = 1;
            break;
        }
        if (i != 0)
            debug2("bad passphrase given, try again...");
        break;
    case SSH_ERR_SYSTEM_ERROR:
        if (errno == ENOENT) {
            debug2("Load key \"%s\": %s",
                id->filename, ssh_err(r));
            quit = 1;
            break;
        }
        /* FALLTHROUGH */
    default:
        error("Load key \"%s\": %s", id->filename, ssh_err(r));
        quit = 1;
        break;
    }
    if (!quit && private != NULL && id->agent_fd == -1 &&
        !(id->key && id->isprivate))
        maybe_add_key_to_agent(id->filename, private, comment,
            passphrase);
    if (i > 0) {
        explicit_bzero(passphrase, strlen(passphrase));
        free(passphrase);
    }
    free(comment);
    if (private != NULL || quit)
        break;
}

```

```

return private;
}

/*
 * try keys in the following order:
 * 1. certificates listed in the config file
 * 2. other input certificates
 * 3. agent keys that are found in the config file
 * 4. other agent keys
 * 5. keys that are only listed in the config file
 */
static void
pubkey_prepare(Authctxt *authctxt)
{
    struct identity *id, *id2, *tmp;
    struct idlist agent, files, *preferred;
    struct sshkey *key;
    int agent_fd = -1, i, r, found;
    size_t j;
    struct ssh_identitylist *idlist;

    TAILQ_INIT(&agent); /* keys from the agent */
    TAILQ_INIT(&files); /* keys from the config file */
    preferred = &authctxt->keys;
    TAILQ_INIT(preferred); /* preferred order of keys */

    /* list of keys stored in the filesystem and PKCS#11 */
    for (i = 0; i < options.num_identity_files; i++) {
        key = options.identity_keys[i];
        if (key && key->type == KEY_RSA1)
            continue;
        if (key && key->cert && key->cert->type != SSH2_CERT_TYPE_USER)
            continue;
        options.identity_keys[i] = NULL;
        id = xcalloc(1, sizeof(*id));
        id->agent_fd = -1;
        id->key = key;
        id->filename = xstrdup(options.identity_files[i]);
        id->userprovided = options.identity_file_userprovided[i];
        TAILQ_INSERT_TAIL(&files, id, next);
    }
    /* Prefer PKCS11 keys that are explicitly listed */
    TAILQ_FOREACH_SAFE(id, &files, next, tmp) {
        if (id->key == NULL || (id->key->flags & SSHKEY_FLAG_EXT) == 0)
            continue;
        found = 0;
        TAILQ_FOREACH(id2, &files, next) {
            if (id2->key == NULL ||

```



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    (id2->key->flags & SSHKEY_FLAG_EXT) == 0)
    continue;
    if (sshkey_equal(id->key, id2->key)) {
        TAILQ_REMOVE(&files, id, next);
        TAILQ_INSERT_TAIL(preferred, id, next);
        found = 1;
        break;
    }
}
/* If IdentitiesOnly set and key not found then don't use it */
if (!found && options.identities_only) {
    TAILQ_REMOVE(&files, id, next);
    explicit_bzero(id, sizeof(*id));
    free(id);
}
}
/* list of certificates specified by user */
for (i = 0; i < options.num_certificate_files; i++) {
    key = options.certificates[i];
    if (!key_is_cert(key) || key->cert == NULL ||
        key->cert->type != SSH2_CERT_TYPE_USER)
        continue;
    id = xcalloc(1, sizeof(*id));
    id->agent_fd = -1;
    id->key = key;
    id->filename = xstrdup(options.certificate_files[i]);
    id->userprovided = options.certificate_file_userprovided[i];
    TAILQ_INSERT_TAIL(preferred, id, next);
}
/* list of keys supported by the agent */
if ((r = ssh_get_authentication_socket(&agent_fd)) != 0) {
    if (r != SSH_ERR_AGENT_NOT_PRESENT)
        debug("%s: ssh_get_authentication_socket: %s",
            __func__, ssh_err(r));
} else if ((r = ssh_fetch_identitylist(agent_fd, 2, &idlist)) != 0) {
    if (r != SSH_ERR_AGENT_NO_IDENTITYLIST)
        debug("%s: ssh_fetch_identitylist: %s",
            __func__, ssh_err(r));
    close(agent_fd);
} else {
    for (j = 0; j < idlist->nkeys; j++) {
        found = 0;
        TAILQ_FOREACH(id, &files, next) {
            /*
             * agent keys from the config file are
             * preferred
             */
            if (sshkey_equal(idlist->keys[j], id->key)) {

```

```

TAILQ_REMOVE(&files, id, next);
TAILQ_INSERT_TAIL(preferred, id, next);
id->agent_fd = agent_fd;
found = 1;
break;
}
}
if (!found && !options.identities_only) {
id = xcalloc(1, sizeof(*id));
/* XXX "steals" key/comment from idlist */
id->key = idlist->keys[j];
id->filename = idlist->comments[j];
idlist->keys[j] = NULL;
idlist->comments[j] = NULL;
id->agent_fd = agent_fd;
TAILQ_INSERT_TAIL(&agent, id, next);
}
}
ssh_free_identitylist(idlist);
/* append remaining agent keys */
for (id = TAILQ_FIRST(&agent); id; id = TAILQ_FIRST(&agent)) {
TAILQ_REMOVE(&agent, id, next);
TAILQ_INSERT_TAIL(preferred, id, next);
}
authctxt->agent_fd = agent_fd;
}
/* append remaining keys from the config file */
for (id = TAILQ_FIRST(&files); id; id = TAILQ_FIRST(&files)) {
TAILQ_REMOVE(&files, id, next);
TAILQ_INSERT_TAIL(preferred, id, next);
}
/* finally, filter by PubkeyAcceptedKeyTypes */
TAILQ_FOREACH_SAFE(id, preferred, next, id2) {
if (id->key != NULL &&
    match_pattern_list(sshkey_ssh_name(id->key),
        options.pubkey_key_types, 0) != 1) {
debug("Skipping %s key %s - "
    "not in PubkeyAcceptedKeyTypes",
    sshkey_ssh_name(id->key), id->filename);
TAILQ_REMOVE(preferred, id, next);
sshkey_free(id->key);
free(id->filename);
memset(id, 0, sizeof(*id));
continue;
}
debug2("key: %s (%p)%s%s", id->filename, id->key,
    id->userprovided ? ", explicit" : "",
    id->agent_fd != -1 ? ", agent" : "");
}

```

```

}
}

static void
pubkey_cleanup(Authctxt *authctxt)
{
    Identity *id;

    if (authctxt->agent_fd != -1)
        ssh_close_authentication_socket(authctxt->agent_fd);
    for (id = TAILQ_FIRST(&authctxt->keys); id;
         id = TAILQ_FIRST(&authctxt->keys)) {
        TAILQ_REMOVE(&authctxt->keys, id, next);
        sshkey_free(id->key);
        free(id->filename);
        free(id);
    }
}

static int
try_identity(Identity *id)
{
    if (!id->key)
        return (0);
    if (key_type_plain(id->key->type) == KEY_RSA &&
        (datafellows & SSH_BUG_RSASIGMD5) != 0) {
        debug("Skipped %s key %s for RSA/MD5 server",
            key_type(id->key), id->filename);
        return (0);
    }
    return (id->key->type != KEY_RSA1);
}

int
userauth_pubkey(Authctxt *authctxt)
{
    Identity *id;
    int sent = 0;

    while ((id = TAILQ_FIRST(&authctxt->keys))) {
        if (id->tried++)
            return (0);
        /* move key to the end of the queue */
        TAILQ_REMOVE(&authctxt->keys, id, next);
        TAILQ_INSERT_TAIL(&authctxt->keys, id, next);
        /*
         * send a test message if we have the public key. for
         * encrypted keys we cannot do this and have to load the

```

```

* private key instead
*/
if (id->key != NULL) {
if (try_identity(id)) {
debug("Offering %s public key: %s",
key_type(id->key), id->filename);
sent = send_pubkey_test(authctxt, id);
}
} else {
debug("Trying private key: %s", id->filename);
id->key = load_identity_file(id);
if (id->key != NULL) {
if (try_identity(id)) {
id->isprivate = 1;
sent = sign_and_send_pubkey(
authctxt, id);
}
key_free(id->key);
id->key = NULL;
}
}
if (sent)
return (sent);
}
return (0);
}

/*
* Send userauth request message specifying keyboard-interactive method.
*/
int
userauth_kbdint(Authctxt *authctxt)
{
static int attempt = 0;

if (attempt++ >= options.number_of_password_prompts)
return 0;
/* disable if no SSH2_MSG_USERAUTH_INFO_REQUEST has been seen */
if (attempt > 1 && !authctxt->info_req_seen) {
debug3("userauth_kbdint: disable: no info_req_seen");
dispatch_set(SSH2_MSG_USERAUTH_INFO_REQUEST, NULL);
return 0;
}

debug2("userauth_kbdint");
packet_start(SSH2_MSG_USERAUTH_REQUEST);
packet_put_cstring(authctxt->server_user);
packet_put_cstring(authctxt->service);

```

```

packet_put_cstring(authctxt->method->name);
packet_put_cstring(""); /* lang */
packet_put_cstring(options.kbd_interactive_devices ?
    options.kbd_interactive_devices : "");
packet_send();

dispatch_set(SSH2_MSG_USERAUTH_INFO_REQUEST, &input_userauth_info_req);
return 1;
}

/*
 * parse INFO_REQUEST, prompt user and send INFO_RESPONSE
 */
int
input_userauth_info_req(int type, u_int32_t seq, void *ctxt)
{
    Authctxt *authctxt = ctxt;
    char *name, *inst, *lang, *prompt, *response;
    u_int num_prompts, i;
    int echo = 0;

    debug2("input_userauth_info_req");

    if (authctxt == NULL)
        fatal("input_userauth_info_req: no authentication context");

    authctxt->info_req_seen = 1;

    name = packet_get_string(NULL);
    inst = packet_get_string(NULL);
    lang = packet_get_string(NULL);
    if (strlen(name) > 0)
        logit("%s", name);
    if (strlen(inst) > 0)
        logit("%s", inst);
    free(name);
    free(inst);
    free(lang);

    num_prompts = packet_get_int();
    /*
     * Begin to build info response packet based on prompts requested.
     * We commit to providing the correct number of responses, so if
     * further on we run into a problem that prevents this, we have to
     * be sure and clean this up and send a correct error response.
     */
    packet_start(SSH2_MSG_USERAUTH_INFO_RESPONSE);
    packet_put_int(num_prompts);

```

```

debug2("input_userauth_info_req: num_prompts %d", num_prompts);
for (i = 0; i < num_prompts; i++) {
    prompt = packet_get_string(NULL);
    echo = packet_get_char();

    response = read_passphrase(prompt, echo ? RP_ECHO : 0);

    packet_put_cstring(response);
    explicit_bzero(response, strlen(response));
    free(response);
    free(prompt);
}
packet_check_eom(); /* done with parsing incoming message. */

packet_add_padding(64);
packet_send();
return 0;
}

static int
ssh_keysign(struct sshkey *key, u_char **sigp, size_t *lenp,
    const u_char *data, size_t datalen)
{
    struct sshbuf *b;
    struct stat st;
    pid_t pid;
    int i, r, to[2], from[2], status, sock = packet_get_connection_in();
    u_char rversion = 0, version = 2;
    void (*osigchld)(int);

    *sigp = NULL;
    *lenp = 0;

    if (stat(_PATH_SSH_KEY_SIGN, &st) < 0) {
        error("%s: not installed: %s", __func__, strerror(errno));
        return -1;
    }
    if (fflush(stdout) != 0) {
        error("%s: fflush: %s", __func__, strerror(errno));
        return -1;
    }
    if (pipe(to) < 0) {
        error("%s: pipe: %s", __func__, strerror(errno));
        return -1;
    }
    if (pipe(from) < 0) {
        error("%s: pipe: %s", __func__, strerror(errno));

```

```

return -1;
}
if ((pid = fork()) < 0) {
    error("%s: fork: %s", __func__, strerror(errno));
    return -1;
}
osigchld = signal(SIGCHLD, SIG_DFL);
if (pid == 0) {
    /* keep the socket on exec */
    fcntl(sock, F_SETFD, 0);
    permanently_drop_suid(getuid());
    close(from[0]);
    if (dup2(from[1], STDOUT_FILENO) < 0)
        fatal("%s: dup2: %s", __func__, strerror(errno));
    close(to[1]);
    if (dup2(to[0], STDIN_FILENO) < 0)
        fatal("%s: dup2: %s", __func__, strerror(errno));
    close(from[1]);
    close(to[0]);
    /* Close everything but stdio and the socket */
    for (i = STDERR_FILENO + 1; i < sock; i++)
        close(i);
    closefrom(sock + 1);
    debug3("%s: [child] pid=%ld, exec %s",
        __func__, (long) getpid(), _PATH_SSH_KEY_SIGN);
    execl(_PATH_SSH_KEY_SIGN, _PATH_SSH_KEY_SIGN, (char *)NULL);
    fatal("%s: exec(%s): %s", __func__, _PATH_SSH_KEY_SIGN,
        strerror(errno));
}
close(from[1]);
close(to[0]);

if ((b = sshbuf_new()) == NULL)
    fatal("%s: sshbuf_new failed", __func__);
/* send # of sock, data to be signed */
if ((r = sshbuf_put_u32(b, sock) != 0) ||
    (r = sshbuf_put_string(b, data, datalen) != 0)
    fatal("%s: buffer error: %s", __func__, ssh_err(r));
if (ssh_msg_send(to[1], version, b) == -1)
    fatal("%s: couldn't send request", __func__);
sshbuf_reset(b);
r = ssh_msg_recv(from[0], b);
close(from[0]);
close(to[1]);
if (r < 0) {
    error("%s: no reply", __func__);
    goto fail;
}

```

```

errno = 0;
while (waitpid(pid, &status, 0) < 0) {
    if (errno != EINTR) {
        error("%s: waitpid %ld: %s",
            __func__, (long)pid, strerror(errno));
        goto fail;
    }
}
if (!WIFEXITED(status)) {
    error("%s: exited abnormally", __func__);
    goto fail;
}
if (WEXITSTATUS(status) != 0) {
    error("%s: exited with status %d",
        __func__, WEXITSTATUS(status));
    goto fail;
}
if ((r = sshbuf_get_u8(b, &rversion)) != 0) {
    error("%s: buffer error: %s", __func__, ssh_err(r));
    goto fail;
}
if (rversion != version) {
    error("%s: bad version", __func__);
    goto fail;
}
if ((r = sshbuf_get_string(b, sigp, lenp)) != 0) {
    error("%s: buffer error: %s", __func__, ssh_err(r));
}
fail:
    signal(SIGCHLD, osigchld);
    sshbuf_free(b);
    return -1;
}
signal(SIGCHLD, osigchld);
sshbuf_free(b);

return 0;
}

int
userauth_hostbased(Authctxt *authctxt)
{
    struct ssh *ssh = active_state;
    struct sshkey *private = NULL;
    struct sshbuf *b = NULL;
    const char *service;
    u_char *sig = NULL, *keyblob = NULL;
    char *fp = NULL, *chost = NULL, *lname = NULL;

```



```

size_t siglen = 0, keylen = 0;
int i, r, success = 0;

if (authctxt->ktypes == NULL) {
    authctxt->oktypes = xstrdup(options.hostbased_key_types);
    authctxt->ktypes = authctxt->oktypes;
}

/*
 * Work through each listed type pattern in HostbasedKeyTypes,
 * trying each hostkey that matches the type in turn.
 */
for (;;) {
    if (authctxt->active_ktype == NULL)
        authctxt->active_ktype = strsep(&authctxt->ktypes, ",");
    if (authctxt->active_ktype == NULL ||
        *authctxt->active_ktype == '\0')
        break;
    debug3("%s: trying key type %s", __func__,
        authctxt->active_ktype);

    /* check for a useful key */
    private = NULL;
    for (i = 0; i < authctxt->sensitive->nkeys; i++) {
        if (authctxt->sensitive->keys[i] == NULL ||
            authctxt->sensitive->keys[i]->type == KEY_RSA1 ||
            authctxt->sensitive->keys[i]->type == KEY_UNSPEC)
            continue;
        if (match_pattern_list(
            sshkey_ssh_name(authctxt->sensitive->keys[i]),
            authctxt->active_ktype, 0) != 1)
            continue;
        /* we take and free the key */
        private = authctxt->sensitive->keys[i];
        authctxt->sensitive->keys[i] = NULL;
        break;
    }
    /* Found one */
    if (private != NULL)
        break;
    /* No more keys of this type; advance */
    authctxt->active_ktype = NULL;
}
if (private == NULL) {
    free(authctxt->oktypes);
    authctxt->oktypes = authctxt->ktypes = NULL;
    authctxt->active_ktype = NULL;
    debug("No more client hostkeys for hostbased authentication.");
}

```

```

goto out;
}

if ((fp = sshkey_fingerprint(private, options.fingerprint_hash,
    SSH_FP_DEFAULT)) == NULL) {
    error("%s: sshkey_fingerprint failed", __func__);
    goto out;
}
debug("%s: trying hostkey %s %s",
    __func__, sshkey_ssh_name(private), fp);

/* figure out a name for the client host */
if ((lname = get_local_name(packet_get_connection_in())) == NULL) {
    error("%s: cannot get local ipaddr/name", __func__);
    goto out;
}

/* XXX sshbuf_put_stringf? */
xasprintf(&chost, "%s.", lname);
debug2("%s: chost %s", __func__, chost);

service = datafellows & SSH_BUG_HBSERVICE ? "ssh-userauth" :
    authctxt->service;

/* construct data */
if ((b = sshbuf_new()) == NULL) {
    error("%s: sshbuf_new failed", __func__);
    goto out;
}
if ((r = sshkey_to_blob(private, &keyblob, &keylen) != 0) {
    error("%s: sshkey_to_blob: %s", __func__, ssh_err(r));
    goto out;
}
if ((r = sshbuf_put_string(b, session_id2, session_id2_len) != 0 ||
    (r = sshbuf_put_u8(b, SSH2_MSG_USERAUTH_REQUEST)) != 0 ||
    (r = sshbuf_put_cstring(b, authctxt->server_user)) != 0 ||
    (r = sshbuf_put_cstring(b, service)) != 0 ||
    (r = sshbuf_put_cstring(b, authctxt->method->name)) != 0 ||
    (r = sshbuf_put_cstring(b, key_ssh_name(private))) != 0 ||
    (r = sshbuf_put_string(b, keyblob, keylen)) != 0 ||
    (r = sshbuf_put_cstring(b, chost)) != 0 ||
    (r = sshbuf_put_cstring(b, authctxt->local_user)) != 0) {
    error("%s: buffer error: %s", __func__, ssh_err(r));
    goto out;
}

#ifdef DEBUG_PK
    sshbuf_dump(b, stderr);

```

```

#endif
if (authctxt->sensitive->external_keysign)
    r = ssh_keysign(private, &sig, &siglen,
        sshbuf_ptr(b), sshbuf_len(b));
else if ((r = sshkey_sign(private, &sig, &siglen,
    sshbuf_ptr(b), sshbuf_len(b), NULL, datafellows)) != 0)
    debug("%s: sshkey_sign: %s", __func__, ssh_err(r));
if (r != 0) {
    error("sign using hostkey %s %s failed",
        sshkey_ssh_name(private), fp);
    goto out;
}
if ((r = sshpkt_start(ssh, SSH2_MSG_USERAUTH_REQUEST)) != 0 ||
    (r = sshpkt_put_cstring(ssh, authctxt->server_user)) != 0 ||
    (r = sshpkt_put_cstring(ssh, authctxt->service)) != 0 ||
    (r = sshpkt_put_cstring(ssh, authctxt->method->name)) != 0 ||
    (r = sshpkt_put_cstring(ssh, key_ssh_name(private))) != 0 ||
    (r = sshpkt_put_string(ssh, keyblob, keylen)) != 0 ||
    (r = sshpkt_put_cstring(ssh, chost)) != 0 ||
    (r = sshpkt_put_cstring(ssh, authctxt->local_user)) != 0 ||
    (r = sshpkt_put_string(ssh, sig, siglen)) != 0 ||
    (r = sshpkt_send(ssh)) != 0) {
    error("%s: packet error: %s", __func__, ssh_err(r));
    goto out;
}
success = 1;

out:
if (sig != NULL) {
    explicit_bzero(sig, siglen);
    free(sig);
}
free(keyblob);
free(lname);
free(fp);
free(chost);
sshkey_free(private);
sshbuf_free(b);

return success;
}

/* find auth method */

/*
 * given auth method name, if configurable options permit this method fill
 * in auth_ident field and return true, otherwise return false.
 */

```

```

static int
authmethod_is_enabled(Authmethod *method)
{
    if (method == NULL)
        return 0;
    /* return false if options indicate this method is disabled */
    if (method->enabled == NULL || *method->enabled == 0)
        return 0;
    /* return false if batch mode is enabled but method needs interactive mode */
    if (method->batch_flag != NULL && *method->batch_flag != 0)
        return 0;
    return 1;
}

static Authmethod *
authmethod_lookup(const char *name)
{
    Authmethod *method = NULL;
    if (name != NULL)
        for (method = authmethods; method->name != NULL; method++)
            if (strcmp(name, method->name) == 0)
                return method;
    debug2("Unrecognized authentication method name: %s", name ? name : "NULL");
    return NULL;
}

/* XXX internal state */
static Authmethod *current = NULL;
static char *supported = NULL;
static char *preferred = NULL;

/*
 * Given the authentication method list sent by the server, return the
 * next method we should try. If the server initially sends a nil list,
 * use a built-in default list.
 */
static Authmethod *
authmethod_get(char *authlist)
{
    char *name = NULL;
    u_int next;

    /* Use a suitable default if we're passed a nil list. */
    if (authlist == NULL || strlen(authlist) == 0)
        authlist = options.preferred_authentications;

    if (supported == NULL || strcmp(authlist, supported) != 0) {
        debug3("start over, passed a different list %s", authlist);
    }
}

```

```

free(supported);
supported = xstrdup(authlist);
preferred = options.preferred_authentications;
debug3("preferred %s", preferred);
current = NULL;
} else if (current != NULL && authmethod_is_enabled(current))
return current;

for (;;) {
if ((name = match_list(preferred, supported, &next)) == NULL) {
debug("No more authentication methods to try.");
current = NULL;
return NULL;
}
preferred += next;
debug3("authmethod_lookup %s", name);
debug3("remaining preferred: %s", preferred);
if ((current = authmethod_lookup(name)) != NULL &&
authmethod_is_enabled(current)) {
debug3("authmethod_is_enabled %s", name);
debug("Next authentication method: %s", name);
free(name);
return current;
}
free(name);
}
}

static char *
authmethods_get(void)
{
Authmethod *method = NULL;
Buffer b;
char *list;

buffer_init(&b);
for (method = authmethods; method->name != NULL; method++) {
if (authmethod_is_enabled(method)) {
if (buffer_len(&b) > 0)
buffer_append(&b, ",", 1);
buffer_append(&b, method->name, strlen(method->name));
}
}
buffer_append(&b, "\0", 1);
list = xstrdup(buffer_ptr(&b));
buffer_free(&b);
return list;
}

```

## NAME

sshd M-bM-^@M-^S OpenSSH SSH daemon

## SYNOPSIS

```
sshd [-4DdeiqTt] [-b bits] [-C connection_spec]
      [-c host_certificate_file] [-E log_file] [-f config_file]
      [-g login_grace_time] [-h host_key_file] [-k key_gen_time]
      [-o option] [-p port] [-u len]
```

## DESCRIPTION

sshd (OpenSSH Daemon) is the daemon program for ssh(1). Together these programs replace rlogin and rsh, and provide secure encrypted communications between two untrusted hosts over an insecure network.

sshd listens for connections from clients. It is normally started at boot from /etc/rc. It forks a new daemon for each incoming connection. The forked daemons handle key exchange, encryption, authentication, command execution, and data exchange.

sshd can be configured using command-line options or a configuration file (by default sshd\_config(5)); command-line options override values specified in the configuration file. sshd rereads its configuration file when it receives a hangup signal, SIGHUP, by executing itself with the name and options it was started with, e.g. /usr/sbin/sshd.

The options are as follows:

-4 Forces sshd to use IPv4 addresses only.

-6 Forces sshd to use IPv6 addresses only.

-b bits

Specifies the number of bits in the ephemeral protocol version 1 server key (default 1024).

-C connection\_spec

Specify the connection parameters to use for the -T extended test mode. If provided, any Match directives in the configuration file that would apply to the specified user, host, and address will be set before the configuration is written to standard output. The connection parameters are supplied as keyword=value pairs. The keywords are M-bM-^@M-^userM-bM-^@M-^], M-bM-^@M-^hostM-bM-^@M-^], M-bM-^@M-^\addrM-bM-^@M-^], M-bM-^@M-^\lportM-bM-^@M-^], and M-bM-^@M-^\addrM-bM-^@M-^]. All are required and may be supplied in any order, either with multiple -C options or as a comma-separated list.

- c `host_certificate_file`  
Specifies a path to a certificate file to identify sshd during key exchange. The certificate file must match a host key file specified using the -h option or the HostKey configuration directive.
- D When this option is specified, sshd will not detach and does not become a daemon. This allows easy monitoring of sshd.
- d Debug mode. The server sends verbose debug output to standard error, and does not put itself in the background. The server also will not fork and will only process one connection. This option is only intended for debugging for the server. Multiple -d options increase the debugging level. Maximum is 3.
- E `log_file`  
Append debug logs to `log_file` instead of the system log.
- e Write debug logs to standard error instead of the system log.
- f `config_file`  
Specifies the name of the configuration file. The default is `/etc/ssh/sshd_config`. sshd refuses to start if there is no configuration file.
- g `login_grace_time`  
Gives the grace time for clients to authenticate themselves (default 120 seconds). If the client fails to authenticate the user within this many seconds, the server disconnects and exits. A value of zero indicates no limit.
- h `host_key_file`  
Specifies a file from which a host key is read. This option must be given if sshd is not run as root (as the normal host key files are normally not readable by anyone but root). The default is `/etc/ssh/ssh_host_key` for protocol version 1, and `/etc/ssh/ssh_host_dsa_key`, `/etc/ssh/ssh_host_ecdsa_key`, `/etc/ssh/ssh_host_ed25519_key` and `/etc/ssh/ssh_host_rsa_key` for protocol version 2. It is possible to have multiple host key files for the different protocol versions and host key algorithms.
- i Specifies that sshd is being run from inetd(8). If SSH protocol 1 is enabled, sshd should not normally be run from inetd because it needs to generate the server key before it can respond to the client, and this may take some time. Clients may have to wait too long if the key was regenerated every time.

- k key\_gen\_time  
Specifies how often the ephemeral protocol version 1 server key is regenerated (default 3600 seconds, or one hour). The motivation for regenerating the key fairly often is that the key is not stored anywhere, and after about an hour it becomes impossible to recover the key for decrypting intercepted communications even if the machine is cracked into or physically seized. A value of zero indicates that the key will never be regenerated.
  
- o option  
Can be used to give options in the format used in the configuration file. This is useful for specifying options for which there is no separate command-line flag. For full details of the options, and their values, see `sshd_config(5)`.
  
- p port  
Specifies the port on which the server listens for connections (default 22). Multiple port options are permitted. Ports specified in the configuration file with the Port option are ignored when a command-line port is specified. Ports specified using the ListenAddress option override command-line ports.
  
- q Quiet mode. Nothing is sent to the system log. Normally the beginning, authentication, and termination of each connection is logged.
  
- T Extended test mode. Check the validity of the configuration file, output the effective configuration to stdout and then exit. Optionally, Match rules may be applied by specifying the connection parameters using one or more -C options.
  
- t Test mode. Only check the validity of the configuration file and sanity of the keys. This is useful for updating sshd reliably as configuration options may change.
  
- u len This option is used to specify the size of the field in the utmp structure that holds the remote host name. If the resolved host name is longer than len, the dotted decimal value will be used instead. This allows hosts with very long host names that overflow this field to still be uniquely identified. Specifying -u0 indicates that only dotted decimal addresses should be put into the utmp file. -u0 may also be used to prevent sshd from making DNS requests unless the authentication mechanism or configuration requires it. Authentication mechanisms that may require DNS include RhostsRSAAuthentication, HostbasedAuthentication, and using a from="pattern-list" option



in a key file. Configuration options that require DNS include using a USER@HOST pattern in AllowUsers or DenyUsers.

## AUTHENTICATION

The OpenSSH SSH daemon supports SSH protocols 1 and 2. The default is to use protocol 2 only, though this can be changed via the Protocol option in sshd\_config(5). Protocol 1 should not be used and is only offered to support legacy devices.

Each host has a host-specific key, used to identify the host. Partial forward security for protocol 1 is provided through an additional server key, normally 1024 bits, generated when the server starts. This key is normally regenerated every hour if it has been used, and is never stored on disk. Whenever a client connects, the daemon responds with its public host and server keys. The client compares the RSA host key against its own database to verify that it has not changed. The client then generates a 256-bit random number. It encrypts this random number using both the host key and the server key, and sends the encrypted number to the server. Both sides then use this random number as a session key which is used to encrypt all further communications in the session. The rest of the session is encrypted using a conventional cipher, currently Blowfish or 3DES, with 3DES being used by default. The client selects the encryption algorithm to use from those offered by the server.

For protocol 2, forward security is provided through a Diffie-Hellman key agreement. This key agreement results in a shared session key. The rest of the session is encrypted using a symmetric cipher, currently 128-bit AES, Blowfish, 3DES, CAST128, Arcfour, 192-bit AES, or 256-bit AES. The client selects the encryption algorithm to use from those offered by the server. Additionally, session integrity is provided through a cryptographic message authentication code (hmac-md5, hmac-sha1, umac-64, umac-128, hmac-ripemd160, hmac-sha2-256 or hmac-sha2-512).

Finally, the server and the client enter an authentication dialog. The client tries to authenticate itself using host-based authentication, public key authentication, challenge-response authentication, or password authentication.

Regardless of the authentication type, the account is checked to ensure that it is accessible. An account is not accessible if it is locked, listed in DenyUsers or its group is listed in DenyGroups. The definition of a locked account is system dependant. Some platforms have their own account database (eg AIX) and some modify the passwd field ( M-bM-^@M-^X\*LK\*M-bM-^@M-^Y on Solaris and UnixWare, M-bM-^@M-^X\*M-bM-^@M-^Y on HP-UX, containing M-bM-^@M-^XNloginM-bM-^@M-^Y on

Tru64, a leading M-bM-^@M-^X\*LOCKED\*M-bM-^@M-^Y on FreeBSD and a leading M-bM-^@M-^X!M-bM-^@M-^Y on most

Linuxes). If there is a requirement to disable password authentication

for the account while allowing still public-key, then the passwd field should be set to something other than these values (eg M-bM-^@M-^XNPM-bM-^@M-^Y or M-bM-^@M-^X\*NP\*M-bM-^@M-^Y ).

If the client successfully authenticates itself, a dialog for preparing the session is entered. At this time the client may request things like allocating a pseudo-tty, forwarding X11 connections, forwarding TCP connections, or forwarding the authentication agent connection over the secure channel.

After this, the client either requests a shell or execution of a command. The sides then enter session mode. In this mode, either side may send data at any time, and such data is forwarded to/from the shell or command on the server side, and the user terminal in the client side.

When the user program terminates and all forwarded X11 and other connections have been closed, the server sends command exit status to the client, and both sides exit.

## LOGIN PROCESS

When a user successfully logs in, sshd does the following:

1. If the login is on a tty, and no command has been specified, prints last login time and /etc/motd (unless prevented in the configuration file or by ~/.hushlogin; see the FILES section).
2. If the login is on a tty, records login time.
3. Checks /etc/nologin; if it exists, prints contents and quits (unless root).
4. Changes to run with normal user privileges.
5. Sets up basic environment.
6. Reads the file ~/.ssh/environment, if it exists, and users are allowed to change their environment. See the PermitUserEnvironment option in sshd\_config(5).
7. Changes to user's home directory.
8. If ~/.ssh/rc exists and the sshd\_config(5) PermitUserRC option is set, runs it; else if /etc/ssh/sshr exists, runs it; otherwise runs xauth. The M-bM-^@M-^[rcM-bM-^@M-^] files are given the X11 authentication protocol and cookie in standard input. See SSHRC, below.
9. Runs user's shell or command. All commands are run under the

user's login shell as specified in the system password database.

## SSHRC

If the file `~/.ssh/rc` exists, `sh(1)` runs it after reading the environment files but before starting the user's shell or command. It must not produce any output on `stdout`; `stderr` must be used instead. If X11 forwarding is in use, it will receive the "proto cookie" pair in its standard input (and `DISPLAY` in its environment). The script must call `xauth(1)` because `sshd` will not run `xauth` automatically to add X11 cookies.

The primary purpose of this file is to run any initialization routines which may be needed before the user's home directory becomes accessible; AFS is a particular example of such an environment.

This file will probably contain some initialization code followed by something similar to:

```
if read proto cookie && [ -n "$DISPLAY" ]; then
    if [ `echo $DISPLAY | cut -c1-10` = 'localhost:' ]; then
        # X11UseLocalhost=yes
        echo add unix:`echo $DISPLAY |
            cut -c11-` $proto $cookie
    else
        # X11UseLocalhost=no
        echo add $DISPLAY $proto $cookie
    fi | xauth -q -
fi
```

If this file does not exist, `/etc/ssh/sshr` is run, and if that does not exist either, `xauth` is used to add the cookie.

## AUTHORIZED\_KEYS FILE FORMAT

`AuthorizedKeysFile` specifies the files containing public keys for public key authentication; if this option is not specified, the default is

`~/.ssh/authorized_keys` and `~/.ssh/authorized_keys2`. Each line of the file contains one key (empty lines and lines starting with a `M-bM-^@M-^X#M-bM-^@M-^Y` are ignored as comments). Protocol 1 public keys consist of the following space-separated fields: options, bits, exponent, modulus, comment.

Protocol 2 public key consist of: options, keytype, base64-encoded key, comment. The options field is optional; its presence is determined by whether the line starts with a number or not (the options field never starts with a number). The bits, exponent, modulus, and comment fields give the RSA key for protocol version 1; the comment field is not used for anything (but may be convenient for the user to identify the key).

For protocol version 2 the keytype is `M-bM-^@M-^ecdsa-sha2-nistp256M-bM-^@M-^]`,

`M-bM-^@M-^ecdsa-sha2-nistp384M-bM-^@M-^]`, `M-bM-^@M-^ecdsa-sha2-nistp521M-bM-^@M-^]`, `M-bM-`

^@M-^\ssh-ed25519M-bM-^@M-^], M-bM-^@M-^\ssh-dssM-bM-^@M-^] or M-bM-^@M-^\ssh-rsaM-bM-^@M-^].

Note that lines in this file are usually several hundred bytes long (because of the size of the public key encoding) up to a limit of 8 kilobytes, which permits DSA keys up to 8 kilobits and RSA keys up to 16 kilobits. You don't want to type them in; instead, copy the identity.pub, id\_dsa.pub, id\_ecdsa.pub, id\_ed25519.pub, or the id\_rsa.pub file and edit it.

sshd enforces a minimum RSA key modulus size for protocol 1 and protocol 2 keys of 768 bits.

The options (if present) consist of comma-separated option specifications. No spaces are permitted, except within double quotes. The following option specifications are supported (note that option keywords are case-insensitive):

#### agent-forwarding

Enable authentication agent forwarding previously disabled by the restrict option.

#### cert-authority

Specifies that the listed key is a certification authority (CA) that is trusted to validate signed certificates for user authentication.

Certificates may encode access restrictions similar to these key options. If both certificate restrictions and key options are present, the most restrictive union of the two is applied.

#### command="command"

Specifies that the command is executed whenever this key is used for authentication. The command supplied by the user (if any) is ignored. The command is run on a pty if the client requests a pty; otherwise it is run without a tty. If an 8-bit clean channel is required, one must not request a pty or should specify no-pty. A quote may be included in the command by quoting it with a backslash. This option might be useful to restrict certain public keys to perform just a specific operation. An example might be a key that permits remote backups but nothing else. Note that the client may specify TCP and/or X11 forwarding unless they are explicitly prohibited. The command originally supplied by the client is available in the SSH\_ORIGINAL\_COMMAND environment variable. Note that this option applies to shell, command or subsystem execution. Also note that this command may be superseded by either a sshd\_config(5) ForceCommand directive or a command embedded in a certificate.

environment="NAME=value"

Specifies that the string is to be added to the environment when logging in using this key. Environment variables set this way override other default environment values. Multiple options of this type are permitted. Environment processing is disabled by default and is controlled via the PermitUserEnvironment option. This option is automatically disabled if UseLogin is enabled.

from="pattern-list"

Specifies that in addition to public key authentication, either the canonical name of the remote host or its IP address must be present in the comma-separated list of patterns. See PATTERNS in ssh\_config(5) for more information on patterns.

In addition to the wildcard matching that may be applied to hostnames or addresses, a from stanza may match IP addresses using CIDR address/masklen notation.

The purpose of this option is to optionally increase security: public key authentication by itself does not trust the network or name servers or anything (but the key); however, if somebody somehow steals the key, the key permits an intruder to log in from anywhere in the world. This additional option makes using a stolen key more difficult (name servers and/or routers would have to be compromised in addition to just the key).

no-agent-forwarding

Forbids authentication agent forwarding when this key is used for authentication.

no-port-forwarding

Forbids TCP forwarding when this key is used for authentication. Any port forward requests by the client will return an error. This might be used, e.g. in connection with the command option.

no-pty Prevents tty allocation (a request to allocate a pty will fail).

no-user-rc

Disables execution of ~/.ssh/rc.

no-X11-forwarding

Forbids X11 forwarding when this key is used for authentication. Any X11 forward requests by the client will return an error.

permitopen="host:port"

Limit local port forwarding with ssh(1) -L such that it may only connect to the specified host and port. IPv6 addresses can be

specified by enclosing the address in square brackets. Multiple permitopen options may be applied separated by commas. No pattern matching is performed on the specified hostnames, they must be literal domains or addresses. A port specification of \* matches any port.

#### port-forwarding

Enable port forwarding previously disabled by the restrict

#### principals="principals"

On a cert-authority line, specifies allowed principals for certificate authentication as a comma-separated list. At least one name from the list must appear in the certificate's list of principals for the certificate to be accepted. This option is ignored for keys that are not marked as trusted certificate signers using the cert-authority option.

pty Permits tty allocation previously disabled by the restrict option.

#### restrict

Enable all restrictions, i.e. disable port, agent and X11 forwarding, as well as disabling PTY allocation and execution of ~/.ssh/rc. If any future restriction capabilities are added to authorized\_keys files they will be included in this set.

#### tunnel="n"

Force a tun(4) device on the server. Without this option, the next available device will be used if the client requests a tunnel.

#### user-rc

Enables execution of ~/.ssh/rc previously disabled by the restrict option.

#### X11-forwarding

Permits X11 forwarding previously disabled by the restrict option.

An example authorized\_keys file:

```
# Comments allowed at start of line
ssh-rsa AAAAB3Nza...LiPk== user@example.net
from="*.sales.example.net,!pc.sales.example.net" ssh-rsa
AAAAB2...19Q== john@example.net
command="dump /home",no-pty,no-port-forwarding ssh-dss
AAAAC3...51R== example.net
permitopen="192.0.2.1:80",permitopen="192.0.2.2:25" ssh-dss
```

```

AAAAB5...21S==
tunnel="0",command="sh /etc/netstart tun0" ssh-rsa AAAA...==
jane@example.net
restrict,command="uptime" ssh-rsa AAAA1C8...32Tv==
user@example.net
restrict,pty,command="nethack" ssh-rsa AAAA1f8...IrrC5==
user@example.net

```

## SSH\_KNOWN\_HOSTS FILE FORMAT

The `/etc/ssh/ssh_known_hosts` and `~/.ssh/known_hosts` files contain host public keys for all known hosts. The global file should be prepared by the administrator (optional), and the per-user file is maintained automatically: whenever the user connects from an unknown host, its key is added to the per-user file.

Each line in these files contains the following fields: markers (optional), hostnames, bits, exponent, modulus, comment. The fields are separated by spaces.

The marker is optional, but if it is present then it must be one of `M-bM-^@M-^@cert-authorityM-bM-^@M-^]`, to indicate that the line contains a certification authority (CA) key, or `M-bM-^@M-^@revokedM-bM-^@M-^]`, to indicate that the key contained on the line is revoked and must not ever be accepted. Only one marker should be used on a key line.

Hostnames is a comma-separated list of patterns (`M-bM-^@M-^X*M-bM-^@M-^Y` and `M-bM-^@M-^X?M-bM-^@M-^Y` act as

wildcards); each pattern in turn is matched against the canonical host name (when authenticating a client) or against the user-supplied name (when authenticating a server). A pattern may also be preceded by `M-bM-^@M-^X!M-bM-^@M-^Y` to indicate negation: if the host name matches a negated pattern, it is not accepted (by that line) even if it matched another pattern on the line.

A hostname or address may optionally be enclosed within `M-bM-^@M-^X[M-bM-^@M-^Y` and `M-bM-^@M-^X]M-bM-^@M-^Y`

brackets then followed by `M-bM-^@M-^X:M-bM-^@M-^Y` and a non-standard port number.

Alternately, hostnames may be stored in a hashed form which hides host names and addresses should the file's contents be disclosed. Hashed hostnames start with a `M-bM-^@M-^X[M-bM-^@M-^Y` character. Only one hashed hostname may appear on a single line and none of the above negation or wildcard operators may be applied.

Bits, exponent, and modulus are taken directly from the RSA host key; they can be obtained, for example, from `/etc/ssh/ssh_host_key.pub`. The optional comment field continues to the end of the line, and is not used.

Lines starting with `M-bM-^@M-^X#M-bM-^@M-^Y` and empty lines are ignored as comments.

When performing host authentication, authentication is accepted if any matching line has the proper key; either one that matches exactly or, if the server has presented a certificate for authentication, the key of the certification authority that signed the certificate. For a key to be trusted as a certification authority, it must use the `M-bM-^@M-^@cert-authorityM-bM-^@M-^]` marker described above.

The known hosts file also provides a facility to mark keys as revoked, for example when it is known that the associated private key has been stolen. Revoked keys are specified by including the `M-bM-^@M-^@revokedM-bM-^@M-^]` marker at the beginning of the key line, and are never accepted for authentication or as certification authorities, but instead will produce a warning from `ssh(1)` when they are encountered.

It is permissible (but not recommended) to have several lines or different host keys for the same names. This will inevitably happen when short forms of host names from different domains are put in the file. It is possible that the files contain conflicting information; authentication is accepted if valid information can be found from either file.

Note that the lines in these files are typically hundreds of characters long, and you definitely don't want to type in the host keys by hand. Rather, generate them by a script, `ssh-keyscan(1)` or by taking `/etc/ssh/ssh_host_key.pub` and adding the host names at the front. `ssh-keygen(1)` also offers some basic automated editing for `~/.ssh/known_hosts` including removing hosts matching a host name and converting all host names to their hashed representations.

An example `ssh_known_hosts` file:

```
# Comments allowed at start of line
closenet,...,192.0.2.53 1024 37 159...93 closenet.example.net
cvs.example.net,192.0.2.10 ssh-rsa AAAA1234.....=
# A hashed hostname
|1|JfKTdBh7rNbXkVAQCRp4OQoPfmI=|USECr3SWf1JUPsms5AqfD5QfxkM= ssh-rsa
AAAA1234.....=
# A revoked key
@revoked * ssh-rsa AAAAB5W...
# A CA key, accepted for any host in *.mydomain.com or *.mydomain.org
@cert-authority *.mydomain.org,*.mydomain.com ssh-rsa AAAAB5W...
```

## FILES

`~/.hushlogin`

This file is used to suppress printing the last login time and `/etc/motd`, if `PrintLastLog` and `PrintMotd`, respectively, are enabled. It does not suppress printing of the banner specified by `Banner`.



#### ~/.rhosts

This file is used for host-based authentication (see `ssh(1)` for more information). On some machines this file may need to be world-readable if the user's home directory is on an NFS partition, because `sshd` reads it as root. Additionally, this file must be owned by the user, and must not have write permissions for anyone else. The recommended permission for most machines is read/write for the user, and not accessible by others.

#### ~/.shosts

This file is used in exactly the same way as `.rhosts`, but allows host-based authentication without permitting login with `rlogin/rsh`.

#### ~/.ssh/

This directory is the default location for all user-specific configuration and authentication information. There is no general requirement to keep the entire contents of this directory secret, but the recommended permissions are read/write/execute for the user, and not accessible by others.

#### ~/.ssh/authorized\_keys

Lists the public keys (DSA, ECDSA, Ed25519, RSA) that can be used for logging in as this user. The format of this file is described above. The content of the file is not highly sensitive, but the recommended permissions are read/write for the user, and not accessible by others.

If this file, the `~/.ssh` directory, or the user's home directory are writable by other users, then the file could be modified or replaced by unauthorized users. In this case, `sshd` will not allow it to be used unless the `StrictModes` option has been set to `M-bM-^@M-^\noM-bM-^@M-^]`.

#### ~/.ssh/environment

This file is read into the environment at login (if it exists). It can only contain empty lines, comment lines (that start with `M-bM-^@M-^X#M-bM-^@M-^Y`), and assignment lines of the form `name=value`. The file should be writable only by the user; it need not be readable by anyone else. Environment processing is disabled by default and is controlled via the `PermitUserEnvironment` option.

#### ~/.ssh/known\_hosts

Contains a list of host keys for all hosts the user has logged into that are not already in the systemwide list of known host keys. The format of this file is described above. This file

should be writable only by root/the owner and can, but need not be, world-readable.

~/.ssh/rc

Contains initialization routines to be run before the user's home directory becomes accessible. This file should be writable only by the user, and need not be readable by anyone else.

/etc/hosts.equiv

This file is for host-based authentication (see ssh(1)). It should only be writable by root.

/etc/moduli

Contains Diffie-Hellman groups used for the "Diffie-Hellman Group Exchange" key exchange method. The file format is described in moduli(5). If no usable groups are found in this file then fixed internal groups will be used.

/etc/motd

See motd(5).

/etc/nologin

If this file exists, sshd refuses to let anyone except root log in. The contents of the file are displayed to anyone trying to log in, and non-root connections are refused. The file should be world-readable.

/etc/shosts.equiv

This file is used in exactly the same way as hosts.equiv, but allows host-based authentication without permitting login with rlogin/rsh.

/etc/ssh/ssh\_host\_key

/etc/ssh/ssh\_host\_dsa\_key

/etc/ssh/ssh\_host\_ecdsa\_key

/etc/ssh/ssh\_host\_ed25519\_key

/etc/ssh/ssh\_host\_rsa\_key

These files contain the private parts of the host keys. These files should only be owned by root, readable only by root, and not accessible to others. Note that sshd does not start if these files are group/world-accessible.

/etc/ssh/ssh\_host\_key.pub

/etc/ssh/ssh\_host\_dsa\_key.pub

/etc/ssh/ssh\_host\_ecdsa\_key.pub

/etc/ssh/ssh\_host\_ed25519\_key.pub

/etc/ssh/ssh\_host\_rsa\_key.pub

These files contain the public parts of the host keys. These

files should be world-readable but writable only by root. Their contents should match the respective private parts. These files are not really used for anything; they are provided for the convenience of the user so their contents can be copied to known hosts files. These files are created using `ssh-keygen(1)`.

#### `/etc/ssh/ssh_known_hosts`

Systemwide list of known host keys. This file should be prepared by the system administrator to contain the public host keys of all machines in the organization. The format of this file is described above. This file should be writable only by root/the owner and should be world-readable.

#### `/etc/ssh/sshd_config`

Contains configuration data for `sshd`. The file format and configuration options are described in `sshd_config(5)`.

#### `/etc/ssh/sshrdrc`

Similar to `~/.ssh/rc`, it can be used to specify machine-specific login-time initializations globally. This file should be writable only by root, and should be world-readable.

#### `/var/empty`

`chroot(2)` directory used by `sshd` during privilege separation in the pre-authentication phase. The directory should not contain any files and must be owned by root and not group or world-writable.

#### `/var/run/sshd.pid`

Contains the process ID of the `sshd` listening for connections (if there are several daemons running concurrently for different ports, this contains the process ID of the one started last). The content of this file is not sensitive; it can be world-readable.

### SEE ALSO

`scp(1)`, `sftp(1)`, `ssh(1)`, `ssh-add(1)`, `ssh-agent(1)`, `ssh-keygen(1)`, `ssh-keyscan(1)`, `chroot(2)`, `login.conf(5)`, `moduli(5)`, `sshd_config(5)`, `inetd(8)`, `sftp-server(8)`

### AUTHORS

OpenSSH is a derivative of the original and free `ssh 1.2.12` release by Tatu Ylonen. Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos, Theo de Raadt and Dug Song removed many bugs, re-added newer features and created OpenSSH. Markus Friedl contributed the support for SSH protocol versions 1.5 and 2.0. Niels Provos and Markus Friedl contributed support for privilege separation.

```
.\"
.\" Author: Tatu Ylonen <ylo@cs.hut.fi>
.\" Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
.\"      All rights reserved
.\"
.\" As far as I am concerned, the code I have written for this software
.\" can be used freely for any purpose.  Any derived versions of this
.\" software must be clearly marked as such, and if the derived work is
.\" incompatible with the protocol description in the RFC file, it must be
.\" called by a name other than "ssh" or "Secure Shell".
.\"
.\" Copyright (c) 1999,2000 Markus Friedl.  All rights reserved.
.\" Copyright (c) 1999 Aaron Campbell.  All rights reserved.
.\" Copyright (c) 1999 Theo de Raadt.  All rights reserved.
.\"
.\" Redistribution and use in source and binary forms, with or without
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.\"
.\" THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
.\" IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
.\" OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
.\" IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
.\" INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
.\" NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
.\" DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
.\" THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
.\" (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
.\" THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
.\"
.\" $OpenBSD: sshd.8,v 1.284 2016/02/17 07:38:19 jmc Exp $
.Dd $Mdocdate: February 17 2016 $
.Dt SSHD 8
.Os
.Sh NAME
.Nm sshd
.Nd OpenSSH SSH daemon
.Sh SYNOPSIS
.Nm sshd
.Bk -words
.Op Fl 46DdeiqTt
.Op Fl b Ar bits
```

.Op Fl C Ar connection\_spec  
.Op Fl c Ar host\_certificate\_file  
.Op Fl E Ar log\_file  
.Op Fl f Ar config\_file  
.Op Fl g Ar login\_grace\_time  
.Op Fl h Ar host\_key\_file  
.Op Fl k Ar key\_gen\_time  
.Op Fl o Ar option  
.Op Fl p Ar port  
.Op Fl u Ar len

.Ek

.Sh DESCRIPTION

.Nm

(OpenSSH Daemon) is the daemon program for

.Xr ssh 1 .

Together these programs replace rlogin and rsh,  
and provide secure encrypted communications between two untrusted hosts  
over an insecure network.

.Pp

.Nm

listens for connections from clients.

It is normally started at boot from

.Pa /etc/rc .

It forks a new  
daemon for each incoming connection.

The forked daemons handle  
key exchange, encryption, authentication, command execution,  
and data exchange.

.Pp

.Nm

can be configured using command-line options or a configuration file  
(by default

.Xr sshd\_config 5 ) ;

command-line options override values specified in the  
configuration file.

.Nm

rereads its configuration file when it receives a hangup signal,

.Dv SIGHUP ,

by executing itself with the name and options it was started with, e.g. \&

.Pa /usr/sbin/sshd .

.Pp

The options are as follows:

.Bl -tag -width Ds

.It Fl 4

Forces

.Nm

to use IPv4 addresses only.

.It Fl 6

Forces

.Nm

to use IPv6 addresses only.

.It Fl b Ar bits

Specifies the number of bits in the ephemeral protocol version 1 server key (default 1024).

.It Fl C Ar connection\_spec

Specify the connection parameters to use for the

.Fl T

extended test mode.

If provided, any

.Cm Match

directives in the configuration file

that would apply to the specified user, host, and address will be set before the configuration is written to standard output.

The connection parameters are supplied as keyword=value pairs.

The keywords are

.Dq user ,

.Dq host ,

.Dq laddr ,

.Dq lport ,

and

.Dq addr .

All are required and may be supplied in any order, either with multiple

.Fl C

options or as a comma-separated list.

.It Fl c Ar host\_certificate\_file

Specifies a path to a certificate file to identify

.Nm

during key exchange.

The certificate file must match a host key file specified using the

.Fl h

option or the

.Cm HostKey

configuration directive.

.It Fl D

When this option is specified,

.Nm

will not detach and does not become a daemon.

This allows easy monitoring of

.Nm sshd .

.It Fl d

Debug mode.

The server sends verbose debug output to standard error, and does not put itself in the background.

The server also will not fork and will only process one connection.

This option is only intended for debugging for the server.

Multiple

.Fl d

options increase the debugging level.

Maximum is 3.

.It Fl E Ar log\_file

Append debug logs to

.Ar log\_file

instead of the system log.

.It Fl e

Write debug logs to standard error instead of the system log.

.It Fl f Ar config\_file

Specifies the name of the configuration file.

The default is

.Pa /etc/ssh/sshd\_config .

.Nm

refuses to start if there is no configuration file.

.It Fl g Ar login\_grace\_time

Gives the grace time for clients to authenticate themselves (default 120 seconds).

If the client fails to authenticate the user within this many seconds, the server disconnects and exits.

A value of zero indicates no limit.

.It Fl h Ar host\_key\_file

Specifies a file from which a host key is read.

This option must be given if

.Nm

is not run as root (as the normal host key files are normally not readable by anyone but root).

The default is

.Pa /etc/ssh/ssh\_host\_key

for protocol version 1, and

.Pa /etc/ssh/ssh\_host\_dsa\_key ,

.Pa /etc/ssh/ssh\_host\_ecdsa\_key .

.Pa /etc/ssh/ssh\_host\_ed25519\_key

and

.Pa /etc/ssh/ssh\_host\_rsa\_key

for protocol version 2.

It is possible to have multiple host key files for the different protocol versions and host key algorithms.

.It Fl i

Specifies that

.Nm

is being run from

.Xr inetd 8 .

If SSH protocol 1 is enabled,

.Nm

should not normally be run

from inetd because it needs to generate the server key before it can respond to the client, and this may take some time.

Clients may have to wait too long if the key was regenerated every time.

.It Fl k Ar key\_gen\_time

Specifies how often the ephemeral protocol version 1 server key is regenerated (default 3600 seconds, or one hour).

The motivation for regenerating the key fairly often is that the key is not stored anywhere, and after about an hour it becomes impossible to recover the key for decrypting intercepted communications even if the machine is cracked into or physically seized.

A value of zero indicates that the key will never be regenerated.

.It Fl o Ar option

Can be used to give options in the format used in the configuration file.

This is useful for specifying options for which there is no separate command-line flag.

For full details of the options, and their values, see

.Xr sshd\_config 5 .

.It Fl p Ar port

Specifies the port on which the server listens for connections (default 22).

Multiple port options are permitted.

Ports specified in the configuration file with the

.Cm Port

option are ignored when a command-line port is specified.

Ports specified using the

.Cm ListenAddress

option override command-line ports.

.It Fl q

Quiet mode.

Nothing is sent to the system log.

Normally the beginning, authentication, and termination of each connection is logged.

.It Fl T

Extended test mode.

Check the validity of the configuration file, output the effective configuration to stdout and then exit.

Optionally,

.Cm Match

rules may be applied by specifying the connection parameters using one or more

.Fl C

options.

.It Fl t

Test mode.

Only check the validity of the configuration file and sanity of the keys.

This is useful for updating

.Nm

reliably as configuration options may change.

.It Fl u Ar len

This option is used to specify the size of the field



in the  
.Li utmp  
structure that holds the remote host name.  
If the resolved host name is longer than  
.Ar len ,  
the dotted decimal value will be used instead.  
This allows hosts with very long host names that  
overflow this field to still be uniquely identified.  
Specifying  
.Fl u0  
indicates that only dotted decimal addresses  
should be put into the  
.Pa utmp  
file.  
.Fl u0  
may also be used to prevent  
.Nm  
from making DNS requests unless the authentication  
mechanism or configuration requires it.  
Authentication mechanisms that may require DNS include  
.Cm RhostsRSAAuthentication ,  
.Cm HostbasedAuthentication ,  
and using a  
.Cm from="pattern-list"  
option in a key file.  
Configuration options that require DNS include using a  
USER@HOST pattern in  
.Cm AllowUsers  
or  
.Cm DenyUsers .  
.El  
.Sh AUTHENTICATION  
The OpenSSH SSH daemon supports SSH protocols 1 and 2.  
The default is to use protocol 2 only,  
though this can be changed via the  
.Cm Protocol  
option in  
.Xr sshd\_config 5 .  
Protocol 1 should not be used  
and is only offered to support legacy devices.  
.Pp  
Each host has a host-specific key,  
used to identify the host.  
Partial forward security for protocol 1 is provided through  
an additional server key,  
normally 1024 bits,  
generated when the server starts.  
This key is normally regenerated every hour if it has been used, and

is never stored on disk.

Whenever a client connects, the daemon responds with its public host and server keys.

The client compares the

RSA host key against its own database to verify that it has not changed.

The client then generates a 256-bit random number.

It encrypts this

random number using both the host key and the server key, and sends the encrypted number to the server.

Both sides then use this

random number as a session key which is used to encrypt all further communications in the session.

The rest of the session is encrypted

using a conventional cipher, currently Blowfish or 3DES, with 3DES being used by default.

The client selects the encryption algorithm

to use from those offered by the server.

.Pp

For protocol 2,

forward security is provided through a Diffie-Hellman key agreement.

This key agreement results in a shared session key.

The rest of the session is encrypted using a symmetric cipher, currently

128-bit AES, Blowfish, 3DES, CAST128, Arcfour, 192-bit AES, or 256-bit AES.

The client selects the encryption algorithm

to use from those offered by the server.

Additionally, session integrity is provided

through a cryptographic message authentication code

(hmac-md5, hmac-sha1, umac-64, umac-128, hmac-ripemd160,

hmac-sha2-256 or hmac-sha2-512).

.Pp

Finally, the server and the client enter an authentication dialog.

The client tries to authenticate itself using

host-based authentication,

public key authentication,

challenge-response authentication,

or password authentication.

.Pp

Regardless of the authentication type, the account is checked to

ensure that it is accessible. An account is not accessible if it is

locked, listed in

.Cm DenyUsers

or its group is listed in

.Cm DenyGroups

\&. The definition of a locked account is system dependant. Some platforms

have their own account database (eg AIX) and some modify the passwd field (

.Ql \&\*LK\&\*

on Solaris and UnixWare,

.Ql \&\*

on HP-UX, containing

```
.Ql Nologin
```

on Tru64,

a leading

```
.Ql \&*LOCKED\&*
```

on FreeBSD and a leading

```
.Ql \&!
```

on most Linuxes).

If there is a requirement to disable password authentication for the account while allowing still public-key, then the passwd field should be set to something other than these values (eg

```
.Ql NP
```

or

```
.Ql \&*NP\&*
```

).

```
.Pp
```

If the client successfully authenticates itself, a dialog for preparing the session is entered.

At this time the client may request

things like allocating a pseudo-tty, forwarding X11 connections, forwarding TCP connections, or forwarding the authentication agent connection over the secure channel.

```
.Pp
```

After this, the client either requests a shell or execution of a command.

The sides then enter session mode.

In this mode, either side may send

data at any time, and such data is forwarded to/from the shell or command on the server side, and the user terminal in the client side.

```
.Pp
```

When the user program terminates and all forwarded X11 and other connections have been closed, the server sends command exit status to the client, and both sides exit.

```
.Sh LOGIN PROCESS
```

When a user successfully logs in,

```
.Nm
```

does the following:

```
.Bl -enum -offset indent
```

```
.It
```

If the login is on a tty, and no command has been specified, prints last login time and

```
.Pa /etc/motd
```

(unless prevented in the configuration file or by

```
.Pa ~/.hushlogin ;
```

see the

```
.Sx FILES
```

section).

```
.It
```

If the login is on a tty, records login time.

.It  
Checks  
.Pa /etc/nologin ;  
if it exists, prints contents and quits  
(unless root).  
.It  
Changes to run with normal user privileges.  
.It  
Sets up basic environment.  
.It  
Reads the file  
.Pa ~/.ssh/environment ,  
if it exists, and users are allowed to change their environment.  
See the  
.Cm PermitUserEnvironment  
option in  
.Xr sshd\_config 5 .  
.It  
Changes to user's home directory.  
.It  
If  
.Pa ~/.ssh/rc  
exists and the  
.Xr sshd\_config 5  
.Cm PermitUserRC  
option is set, runs it; else if  
.Pa /etc/ssh/sshrdrc  
exists, runs  
it; otherwise runs xauth.  
The  
.Dq rc  
files are given the X11  
authentication protocol and cookie in standard input.  
See  
.Sx SSHRC ,  
below.  
.It  
Runs user's shell or command.  
All commands are run under the user's login shell as specified in the  
system password database.  
.El  
.Sh SSHRC  
If the file  
.Pa ~/.ssh/rc  
exists,  
.Xr sh 1  
runs it after reading the  
environment files but before starting the user's shell or command.

It must not produce any output on stdout; stderr must be used instead.

If X11 forwarding is in use, it will receive the "proto cookie" pair in its standard input (and

```
.Ev DISPLAY
```

in its environment).

The script must call

```
.Xr xauth 1
```

because

```
.Nm
```

will not run xauth automatically to add X11 cookies.

```
.Pp
```

The primary purpose of this file is to run any initialization routines which may be needed before the user's home directory becomes accessible; AFS is a particular example of such an environment.

```
.Pp
```

This file will probably contain some initialization code followed by something similar to:

```
.Bd -literal -offset 3n
```

```
if read proto cookie && [ -n "$DISPLAY" ]; then
```

```
if [ `echo $DISPLAY | cut -c1-10` = 'localhost:' ]; then
```

```
  # X11UseLocalhost=yes
```

```
  echo add unix:`echo $DISPLAY |
```

```
    cut -c11-` $proto $cookie
```

```
else
```

```
  # X11UseLocalhost=no
```

```
  echo add $DISPLAY $proto $cookie
```

```
fi | xauth -q -
```

```
fi
```

```
.Ed
```

```
.Pp
```

If this file does not exist,

```
.Pa /etc/ssh/sshr
```

is run, and if that

does not exist either, xauth is used to add the cookie.

```
.Sh AUTHORIZED_KEYS FILE FORMAT
```

```
.Cm AuthorizedKeysFile
```

specifies the files containing public keys for public key authentication;

if this option is not specified, the default is

```
.Pa ~/.ssh/authorized_keys
```

and

```
.Pa ~/.ssh/authorized_keys2 .
```

Each line of the file contains one

key (empty lines and lines starting with a

```
.Ql #
```

are ignored as

comments).

Protocol 1 public keys consist of the following space-separated fields:

options, bits, exponent, modulus, comment.

Protocol 2 public key consist of:

options, keytype, base64-encoded key, comment.

The options field is optional;

its presence is determined by whether the line starts

with a number or not (the options field never starts with a number).

The bits, exponent, modulus, and comment fields give the RSA key for protocol version 1; the

comment field is not used for anything (but may be convenient for the user to identify the key).

For protocol version 2 the keytype is

.Dq ecdsa-sha2-nistp256 ,

.Dq ecdsa-sha2-nistp384 ,

.Dq ecdsa-sha2-nistp521 ,

.Dq ssh-ed25519 ,

.Dq ssh-dss

or

.Dq ssh-rsa .

.Pp

Note that lines in this file are usually several hundred bytes long (because of the size of the public key encoding) up to a limit of 8 kilobytes, which permits DSA keys up to 8 kilobits and RSA keys up to 16 kilobits.

You don't want to type them in; instead, copy the

.Pa identity.pub ,

.Pa id\_dsa.pub ,

.Pa id\_ecdsa.pub ,

.Pa id\_ed25519.pub ,

or the

.Pa id\_rsa.pub

file and edit it.

.Pp

.Nm

enforces a minimum RSA key modulus size for protocol 1 and protocol 2 keys of 768 bits.

.Pp

The options (if present) consist of comma-separated option specifications.

No spaces are permitted, except within double quotes.

The following option specifications are supported (note that option keywords are case-insensitive):

.Bl -tag -width Ds

.It Cm agent-forwarding

Enable authentication agent forwarding previously disabled by the

.Cm restrict

option.

.It Cm cert-authority

Specifies that the listed key is a certification authority (CA) that is trusted to validate signed certificates for user authentication.

.Pp

Certificates may encode access restrictions similar to these key options.

If both certificate restrictions and key options are present, the most restrictive union of the two is applied.

.It Cm command="command"

Specifies that the command is executed whenever this key is used for authentication.

The command supplied by the user (if any) is ignored.

The command is run on a pty if the client requests a pty; otherwise it is run without a tty.

If an 8-bit clean channel is required, one must not request a pty or should specify

.Cm no-pty .

A quote may be included in the command by quoting it with a backslash.

This option might be useful

to restrict certain public keys to perform just a specific operation.

An example might be a key that permits remote backups but nothing else.

Note that the client may specify TCP and/or X11

forwarding unless they are explicitly prohibited.

The command originally supplied by the client is available in the

.Ev SSH\_ORIGINAL\_COMMAND

environment variable.

Note that this option applies to shell, command or subsystem execution.

Also note that this command may be superseded by either a

.Xr sshd\_config 5

.Cm ForceCommand

directive or a command embedded in a certificate.

.It Cm environment="NAME=value"

Specifies that the string is to be added to the environment when logging in using this key.

Environment variables set this way

override other default environment values.

Multiple options of this type are permitted.

Environment processing is disabled by default and is controlled via the

.Cm PermitUserEnvironment

option.

This option is automatically disabled if

.Cm UseLogin

is enabled.

.It Cm from="pattern-list"

Specifies that in addition to public key authentication, either the canonical name of the remote host or its IP address must be present in the comma-separated list of patterns.

See PATTERNS in

.Xr ssh\_config 5

for more information on patterns.

.Pp

In addition to the wildcard matching that may be applied to hostnames or addresses, a

.Cm from

stanza may match IP addresses using CIDR address/masklen notation.

.Pp

The purpose of this option is to optionally increase security: public key authentication by itself does not trust the network or name servers or anything (but the key); however, if somebody somehow steals the key, the key permits an intruder to log in from anywhere in the world.

This additional option makes using a stolen key more difficult (name servers and/or routers would have to be compromised in addition to just the key).

.It Cm no-agent-forwarding

Forbids authentication agent forwarding when this key is used for authentication.

.It Cm no-port-forwarding

Forbids TCP forwarding when this key is used for authentication.

Any port forward requests by the client will return an error.

This might be used, e.g. in connection with the

.Cm command

option.

.It Cm no-pty

Prevents tty allocation (a request to allocate a pty will fail).

.It Cm no-user-rc

Disables execution of

.Pa ~/.ssh/rc .

.It Cm no-X11-forwarding

Forbids X11 forwarding when this key is used for authentication.

Any X11 forward requests by the client will return an error.

.It Cm permitopen="host:port"

Limit local port forwarding with

.Xr ssh 1

.Fl L

such that it may only connect to the specified host and port.

IPv6 addresses can be specified by enclosing the address in square brackets.

Multiple

.Cm permitopen

options may be applied separated by commas.

No pattern matching is performed on the specified hostnames, they must be literal domains or addresses.

A port specification of

.Cm \*

matches any port.

.It Cm port-forwarding

Enable port forwarding previously disabled by the

.Cm restrict



.It Cm principals="principals"

On a

.Cm cert-authority

line, specifies allowed principals for certificate authentication as a comma-separated list.

At least one name from the list must appear in the certificate's

list of principals for the certificate to be accepted.

This option is ignored for keys that are not marked as trusted certificate signers using the

.Cm cert-authority

option.

.It Cm pty

Permits tty allocation previously disabled by the

.Cm restrict

option.

.It Cm restrict

Enable all restrictions, i.e. disable port, agent and X11 forwarding,

as well as disabling PTY allocation

and execution of

.Pa ~/.ssh/rc .

If any future restriction capabilities are added to authorized\_keys files they will be included in this set.

.It Cm tunnel="n"

Force a

.Xr tun 4

device on the server.

Without this option, the next available device will be used if

the client requests a tunnel.

.It Cm user-rc

Enables execution of

.Pa ~/.ssh/rc

previously disabled by the

.Cm restrict

option.

.It Cm X11-forwarding

Permits X11 forwarding previously disabled by the

.Cm restrict

option.

.El

.Pp

An example authorized\_keys file:

.Bd -literal -offset 3n

# Comments allowed at start of line

ssh-rsa AAAAB3Nza...LiPk== user@example.net

from="\*.sales.example.net,!pc.sales.example.net" ssh-rsa

AAAAB2...19Q== john@example.net

command="dump /home",no-pty,no-port-forwarding ssh-dss

AAAAC3...51R== example.net

```

permitopen="192.0.2.1:80",permitopen="192.0.2.2:25" ssh-dss
AAAAB5...21S==
tunnel="0",command="sh /etc/netstart tun0" ssh-rsa AAAA...==
jane@example.net
restrict,command="uptime" ssh-rsa AAAA1C8...32Tv==
user@example.net
restrict,pty,command="nethack" ssh-rsa AAAA1f8...IrrC5==
user@example.net
.Ed
.Sh SSH_KNOWN_HOSTS FILE FORMAT
The
.Pa /etc/ssh/ssh_known_hosts
and
.Pa ~/.ssh/known_hosts
files contain host public keys for all known hosts.
The global file should
be prepared by the administrator (optional), and the per-user file is
maintained automatically: whenever the user connects from an unknown host,
its key is added to the per-user file.
.Pp
Each line in these files contains the following fields: markers (optional),
hostnames, bits, exponent, modulus, comment.
The fields are separated by spaces.
.Pp
The marker is optional, but if it is present then it must be one of
.Dq @cert-authority ,
to indicate that the line contains a certification authority (CA) key,
or
.Dq @revoked ,
to indicate that the key contained on the line is revoked and must not ever
be accepted.
Only one marker should be used on a key line.
.Pp
Hostnames is a comma-separated list of patterns
.Pf ( QI *
and
.QI \&?
act as
wildcards); each pattern in turn is matched against the canonical host
name (when authenticating a client) or against the user-supplied
name (when authenticating a server).
A pattern may also be preceded by
.QI \&!
to indicate negation: if the host name matches a negated
pattern, it is not accepted (by that line) even if it matched another
pattern on the line.
A hostname or address may optionally be enclosed within
.QI \&[

```

and

.Ql \&]

brackets then followed by

.Ql \&:

and a non-standard port number.

.Pp

Alternately, hostnames may be stored in a hashed form which hides host names and addresses should the file's contents be disclosed.

Hashed hostnames start with a

.Ql |

character.

Only one hashed hostname may appear on a single line and none of the above negation or wildcard operators may be applied.

.Pp

Bits, exponent, and modulus are taken directly from the RSA host key; they can be obtained, for example, from

.Pa /etc/ssh/ssh\_host\_key.pub .

The optional comment field continues to the end of the line, and is not used.

.Pp

Lines starting with

.Ql #

and empty lines are ignored as comments.

.Pp

When performing host authentication, authentication is accepted if any matching line has the proper key; either one that matches exactly or, if the server has presented a certificate for authentication, the key of the certification authority that signed the certificate.

For a key to be trusted as a certification authority, it must use the

.Dq @cert-authority

marker described above.

.Pp

The known hosts file also provides a facility to mark keys as revoked, for example when it is known that the associated private key has been stolen.

Revoked keys are specified by including the

.Dq @revoked

marker at the beginning of the key line, and are never accepted for authentication or as certification authorities, but instead will produce a warning from

.Xr ssh 1

when they are encountered.

.Pp

It is permissible (but not recommended) to have several lines or different host keys for the same names.

This will inevitably happen when short forms of host names from different domains are put in the file.

It is possible

that the files contain conflicting information; authentication is accepted if valid information can be found from either file.

.Pp

Note that the lines in these files are typically hundreds of characters long, and you definitely don't want to type in the host keys by hand.

Rather, generate them by a script,

.Xr ssh-keyscan 1

or by taking

.Pa /etc/ssh/ssh\_host\_key.pub

and adding the host names at the front.

.Xr ssh-keygen 1

also offers some basic automated editing for

.Pa ~/.ssh/known\_hosts

including removing hosts matching a host name and converting all host names to their hashed representations.

.Pp

An example ssh\_known\_hosts file:

.Bd -literal -offset 3n

# Comments allowed at start of line

closenet,...,192.0.2.53 1024 37 159...93 closenet.example.net

cvs.example.net,192.0.2.10 ssh-rsa AAAA1234.....=

# A hashed hostname

|1|JfKTdBh7rNbXkVAQCRp4OQoPfmI=|USECr3SWf1JUPsms5AqfD5QfxkM= ssh-rsa

AAAA1234.....=

# A revoked key

@revoked \* ssh-rsa AAAAB5W...

# A CA key, accepted for any host in \*.mydomain.com or \*.mydomain.org

@cert-authority \*.mydomain.org,\*.mydomain.com ssh-rsa AAAAB5W...

.Ed

.Sh FILES

.Bl -tag -width Ds -compact

.It Pa ~/.hushlogin

This file is used to suppress printing the last login time and

.Pa /etc/motd ,

if

.Cm PrintLastLog

and

.Cm PrintMotd ,

respectively,

are enabled.

It does not suppress printing of the banner specified by

.Cm Banner .

.Pp

.It Pa ~/.rhosts

This file is used for host-based authentication (see

.Xr ssh 1

for more information).

On some machines this file may need to be

world-readable if the user's home directory is on an NFS partition,  
because

.Nm

reads it as root.

Additionally, this file must be owned by the user,  
and must not have write permissions for anyone else.

The recommended

permission for most machines is read/write for the user, and not  
accessible by others.

.Pp

.It Pa ~/.shosts

This file is used in exactly the same way as

.Pa .rhosts ,

but allows host-based authentication without permitting login with  
rlogin/rsh.

.Pp

.It Pa ~/.ssh/

This directory is the default location for all user-specific configuration  
and authentication information.

There is no general requirement to keep the entire contents of this directory  
secret, but the recommended permissions are read/write/execute for the user,  
and not accessible by others.

.Pp

.It Pa ~/.ssh/authorized\_keys

Lists the public keys (DSA, ECDSA, Ed25519, RSA)  
that can be used for logging in as this user.

The format of this file is described above.

The content of the file is not highly sensitive, but the recommended  
permissions are read/write for the user, and not accessible by others.

.Pp

If this file, the

.Pa ~/.ssh

directory, or the user's home directory are writable

by other users, then the file could be modified or replaced by unauthorized  
users.

In this case,

.Nm

will not allow it to be used unless the

.Cm StrictModes

option has been set to

.Dq no .

.Pp

.It Pa ~/.ssh/environment

This file is read into the environment at login (if it exists).

It can only contain empty lines, comment lines (that start with

.Ql # ) ,

and assignment lines of the form name=value.

The file should be writable

only by the user; it need not be readable by anyone else.

Environment processing is disabled by default and is controlled via the

.Cm PermitUserEnvironment

option.

.Pp

.It Pa ~/.ssh/known\_hosts

Contains a list of host keys for all hosts the user has logged into that are not already in the systemwide list of known host keys.

The format of this file is described above.

This file should be writable only by root/the owner and can, but need not be, world-readable.

.Pp

.It Pa ~/.ssh/rc

Contains initialization routines to be run before the user's home directory becomes accessible.

This file should be writable only by the user, and need not be readable by anyone else.

.Pp

.It Pa /etc/hosts.equiv

This file is for host-based authentication (see

.Xr ssh 1 ) .

It should only be writable by root.

.Pp

.It Pa /etc/moduli

Contains Diffie-Hellman groups used for the "Diffie-Hellman Group Exchange" key exchange method.

The file format is described in

.Xr moduli 5 .

If no usable groups are found in this file then fixed internal groups will be used.

.Pp

.It Pa /etc/motd

See

.Xr motd 5 .

.Pp

.It Pa /etc/nologin

If this file exists,

.Nm

refuses to let anyone except root log in.

The contents of the file

are displayed to anyone trying to log in, and non-root connections are refused.

The file should be world-readable.

.Pp

.It Pa /etc/shosts.equiv

This file is used in exactly the same way as

.Pa hosts.equiv ,

but allows host-based authentication without permitting login with rlogin/rsh.

.Pp

.It Pa /etc/ssh/ssh\_host\_key

.It Pa /etc/ssh/ssh\_host\_dsa\_key

.It Pa /etc/ssh/ssh\_host\_ecdsa\_key

.It Pa /etc/ssh/ssh\_host\_ed25519\_key

.It Pa /etc/ssh/ssh\_host\_rsa\_key

These files contain the private parts of the host keys.

These files should only be owned by root, readable only by root, and not accessible to others.

Note that

.Nm

does not start if these files are group/world-accessible.

.Pp

.It Pa /etc/ssh/ssh\_host\_key.pub

.It Pa /etc/ssh/ssh\_host\_dsa\_key.pub

.It Pa /etc/ssh/ssh\_host\_ecdsa\_key.pub

.It Pa /etc/ssh/ssh\_host\_ed25519\_key.pub

.It Pa /etc/ssh/ssh\_host\_rsa\_key.pub

These files contain the public parts of the host keys.

These files should be world-readable but writable only by root.

Their contents should match the respective private parts.

These files are not

really used for anything; they are provided for the convenience of the user so their contents can be copied to known hosts files.

These files are created using

.Xr ssh-keygen 1 .

.Pp

.It Pa /etc/ssh/ssh\_known\_hosts

Systemwide list of known host keys.

This file should be prepared by the

system administrator to contain the public host keys of all machines in the organization.

The format of this file is described above.

This file should be writable only by root/the owner and should be world-readable.

.Pp

.It Pa /etc/ssh/sshd\_config

Contains configuration data for

.Nm sshd .

The file format and configuration options are described in

.Xr sshd\_config 5 .

.Pp

.It Pa /etc/ssh/sshrc

Similar to

.Pa ~/.ssh/rc ,

it can be used to specify machine-specific login-time initializations globally. This file should be writable only by root, and should be world-readable.

.Pp

.It Pa /var/empty

.Xr chroot 2

directory used by

.Nm

during privilege separation in the pre-authentication phase.

The directory should not contain any files and must be owned by root and not group or world-writable.

.Pp

.It Pa /var/run/sshd.pid

Contains the process ID of the

.Nm

listening for connections (if there are several daemons running concurrently for different ports, this contains the process ID of the one started last).

The content of this file is not sensitive; it can be world-readable.

.El

.Sh SEE ALSO

.Xr scp 1 ,

.Xr sftp 1 ,

.Xr ssh 1 ,

.Xr ssh-add 1 ,

.Xr ssh-agent 1 ,

.Xr ssh-keygen 1 ,

.Xr ssh-keyscan 1 ,

.Xr chroot 2 ,

.Xr login.conf 5 ,

.Xr moduli 5 ,

.Xr sshd\_config 5 ,

.Xr inetd 8 ,

.Xr sftp-server 8

.Sh AUTHORS

OpenSSH is a derivative of the original and free ssh 1.2.12 release by Tatu Ylonen.

Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos, Theo de Raadt and Dug Song removed many bugs, re-added newer features and created OpenSSH.

Markus Friedl contributed the support for SSH protocol versions 1.5 and 2.0.

Niels Provos and Markus Friedl contributed support for privilege separation.

/\* \$OpenBSD: sshd.c,v 1.465 2016/02/15 09:47:49 dtucker Exp \$ \*/

/\*

\* Author: Tatu Ylonen <ylo@cs.hut.fi>



```
* Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
*       All rights reserved
* This program is the ssh daemon. It listens for connections from clients,
* and performs authentication, executes use commands or shell, and forwards
* information to/from the application to the user client over an encrypted
* connection. This can also handle forwarding of X11, TCP/IP, and
* authentication agent connections.
*
* As far as I am concerned, the code I have written for this software
* can be used freely for any purpose. Any derived versions of this
* software must be clearly marked as such, and if the derived work is
* incompatible with the protocol description in the RFC file, it must be
* called by a name other than "ssh" or "Secure Shell".
*
* SSH2 implementation:
* Privilege Separation:
*
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* Copyright (c) 2002 Niels Provos. All rights reserved.
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* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

#include "includes.h"

#include <sys/types.h>
#include <sys/ioctl.h>
#include <sys/socket.h>
#ifdef HAVE_SYS_STAT_H
# include <sys/stat.h>
```

```
#endif
#ifdef HAVE_SYS_TIME_H
# include <sys/time.h>
#endif
#include "openbsd-compat/sys-tree.h"
#include "openbsd-compat/sys-queue.h"
#include <sys/wait.h>

#include <errno.h>
#include <fcntl.h>
#include <netdb.h>
#ifdef HAVE_PATHS_H
#include <paths.h>
#endif
#include <grp.h>
#include <pwd.h>
#include <signal.h>
#include <stdarg.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#include <limits.h>

#ifdef WITH_OPENSSL
#include <openssl/dh.h>
#include <openssl/bn.h>
#include <openssl/rand.h>
#include "openbsd-compat/openssl-compat.h"
#endif

#ifdef HAVE_SECUREWARE
#include <sys/security.h>
#include <prot.h>
#endif

#include "xmalloc.h"
#include "ssh.h"
#include "ssh1.h"
#include "ssh2.h"
#include "rsa.h"
#include "sshpty.h"
#include "packet.h"
#include "log.h"
#include "buffer.h"
#include "misc.h"
#include "match.h"
#include "servconf.h"
```

```

#include "uidswap.h"
#include "compat.h"
#include "cipher.h"
#include "digest.h"
#include "key.h"
#include "kex.h"
#include "myproposal.h"
#include "authfile.h"
#include "pathnames.h"
#include "atomicio.h"
#include "canohost.h"
#include "hostfile.h"
#include "auth.h"
#include "authfd.h"
#include "msg.h"
#include "dispatch.h"
#include "channels.h"
#include "session.h"
#include "monitor_mm.h"
#include "monitor.h"
#ifdef GSSAPI
#include "ssh-gss.h"
#endif
#include "monitor_wrap.h"
#include "ssh-sandbox.h"
#include "version.h"
#include "ssherr.h"

#ifdef O_NOCTTY
#define O_NOCTTY 0
#endif

/* Re-exec fds */
#define REEXEC_DEVCRYPTO_RESERVED_FD (STDERR_FILENO + 1)
#define REEXEC_STARTUP_PIPE_FD (STDERR_FILENO + 2)
#define REEXEC_CONFIG_PASS_FD (STDERR_FILENO + 3)
#define REEXEC_MIN_FREE_FD (STDERR_FILENO + 4)

extern char *__progname;

/* Server configuration options. */
ServerOptions options;

/* Name of the server configuration file. */
char *config_file_name = _PATH_SERVER_CONFIG_FILE;

/*
 * Debug mode flag. This can be set on the command line. If debug

```

```

* mode is enabled, extra debugging output will be sent to the system
* log, the daemon will not go to background, and will exit after processing
* the first connection.
*/
int debug_flag = 0;

/* Flag indicating that the daemon should only test the configuration and keys. */
int test_flag = 0;

/* Flag indicating that the daemon is being started from inetd. */
int inetd_flag = 0;

/* Flag indicating that sshd should not detach and become a daemon. */
int no_daemon_flag = 0;

/* debug goes to stderr unless inetd_flag is set */
int log_stderr = 0;

/* Saved arguments to main(). */
char **saved_argv;
int saved_argc;

/* re-exec */
int rexeced_flag = 0;
int rexec_flag = 1;
int rexec_argc = 0;
char **rexec_argv;

/*
* The sockets that the server is listening; this is used in the SIGHUP
* signal handler.
*/
#define MAX_LISTEN SOCKS 16
int listen_socks[MAX_LISTEN SOCKS];
int num_listen_socks = 0;

/*
* the client's version string, passed by sshd2 in compat mode. if != NULL,
* sshd will skip the version-number exchange
*/
char *client_version_string = NULL;
char *server_version_string = NULL;

/* Daemon's agent connection */
int auth_sock = -1;
int have_agent = 0;

*/

```

\* Any really sensitive data in the application is contained in this  
 \* structure. The idea is that this structure could be locked into memory so  
 \* that the pages do not get written into swap. However, there are some  
 \* problems. The private key contains BIGNUMs, and we do not (in principle)  
 \* have access to the internals of them, and locking just the structure is  
 \* not very useful. Currently, memory locking is not implemented.  
 \*/

```
struct {
  Key *server_key; /* ephemeral server key */
  Key *ssh1_host_key; /* ssh1 host key */
  Key **host_keys; /* all private host keys */
  Key **host_pubkeys; /* all public host keys */
  Key **host_certificates; /* all public host certificates */
  int have_ssh1_key;
  int have_ssh2_key;
  u_char ssh1_cookie[SSH_SESSION_KEY_LENGTH];
} sensitive_data;
```

```
/*
 * Flag indicating whether the RSA server key needs to be regenerated.
 * Is set in the SIGALRM handler and cleared when the key is regenerated.
 */
```

```
static volatile sig_atomic_t key_do_regen = 0;
```

```
/* This is set to true when a signal is received. */
static volatile sig_atomic_t received_sighup = 0;
static volatile sig_atomic_t received_sigterm = 0;
```

```
/* session identifier, used by RSA-auth */
u_char session_id[16];
```

```
/* same for ssh2 */
u_char *session_id2 = NULL;
u_int session_id2_len = 0;
```

```
/* record remote hostname or ip */
u_int utmp_len = HOST_NAME_MAX+1;
```

```
/* options.max_startup sized array of fd ints */
int *startup_pipes = NULL;
int startup_pipe; /* in child */
```

```
/* variables used for privilege separation */
int use_privsep = -1;
struct monitor *pmonitor = NULL;
int privsep_is_preauth = 1;
```

```
/* global authentication context */
```

```

Authctxt *the_authctxt = NULL;

/* sshd_config buffer */
Buffer cfg;

/* message to be displayed after login */
Buffer loginmsg;

/* Unprivileged user */
struct passwd *privsep_pw = NULL;

/* Prototypes for various functions defined later in this file. */
void destroy_sensitive_data(void);
void demote_sensitive_data(void);

#ifdef WITH_SSH1
static void do_ssh1_kex(void);
#endif
static void do_ssh2_kex(void);

/*
 * Close all listening sockets
 */
static void
close_listen_socks(void)
{
    int i;

    for (i = 0; i < num_listen_socks; i++)
        close(listen_socks[i]);
    num_listen_socks = -1;
}

static void
close_startup_pipes(void)
{
    int i;

    if (startup_pipes)
        for (i = 0; i < options.max_startups; i++)
            if (startup_pipes[i] != -1)
                close(startup_pipes[i]);
}

/*
 * Signal handler for SIGHUP. Sshd execs itself when it receives SIGHUP;
 * the effect is to reread the configuration file (and to regenerate
 * the server key).

```

```

*/

/*ARGSUSED*/
static void
sighup_handler(int sig)
{
    int save_errno = errno;

    received_sighup = 1;
    signal(SIGHUP, sighup_handler);
    errno = save_errno;
}

/*
 * Called from the main program after receiving SIGHUP.
 * Restarts the server.
 */
static void
sighup_restart(void)
{
    logit("Received SIGHUP; restarting.");
    platform_pre_restart();
    close_listen_socks();
    close_startup_pipes();
    alarm(0); /* alarm timer persists across exec */
    signal(SIGHUP, SIG_IGN); /* will be restored after exec */
    execv(saved_argv[0], saved_argv);
    logit("RESTART FAILED: av[0]='%.100s', error: %.100s.", saved_argv[0],
        strerror(errno));
    exit(1);
}

/*
 * Generic signal handler for terminating signals in the master daemon.
 */
/*ARGSUSED*/
static void
sigterm_handler(int sig)
{
    received_sigterm = sig;
}

/*
 * SIGCHLD handler. This is called whenever a child dies. This will then
 * reap any zombies left by exited children.
 */
/*ARGSUSED*/
static void

```

```

main_sigchld_handler(int sig)
{
    int save_errno = errno;
    pid_t pid;
    int status;

    while ((pid = waitpid(-1, &status, WNOHANG)) > 0 ||
        (pid < 0 && errno == EINTR))
        ;

    signal(SIGCHLD, main_sigchld_handler);
    errno = save_errno;
}

/*
 * Signal handler for the alarm after the login grace period has expired.
 */
/*ARGSUSED*/
static void
grace_alarm_handler(int sig)
{
    if (use_privsep && pmonitor != NULL && pmonitor->m_pid > 0)
        kill(pmonitor->m_pid, SIGALRM);

    /*
     * Try to kill any processes that we have spawned, E.g. authorized
     * keys command helpers.
     */
    if (getpgid(0) == getpid()) {
        signal(SIGTERM, SIG_IGN);
        kill(0, SIGTERM);
    }

    /* Log error and exit. */
    sigdie("Timeout before authentication for %s", get_remote_ipaddr());
}

/*
 * Signal handler for the key regeneration alarm. Note that this
 * alarm only occurs in the daemon waiting for connections, and it does not
 * do anything with the private key or random state before forking.
 * Thus there should be no concurrency control/asynchronous execution
 * problems.
 */
static void
generate_ephemeral_server_key(void)
{
    verbose("Generating %s%d bit RSA key.",

```



```

    sensitive_data.server_key ? "new " : "", options.server_key_bits);
if (sensitive_data.server_key != NULL)
    key_free(sensitive_data.server_key);
sensitive_data.server_key = key_generate(KEY_RSA1,
    options.server_key_bits);
verbose("RSA key generation complete.");

arc4random_buf(sensitive_data.ssh1_cookie, SSH_SESSION_KEY_LENGTH);
}

/* ARGSUSED */
static void
key_regeneration_alarm(int sig)
{
    int save_errno = errno;

    signal(SIGALRM, SIG_DFL);
    errno = save_errno;
    key_do_regen = 1;
}

static void
sshd_exchange_identification(int sock_in, int sock_out)
{
    u_int i;
    int mismatch;
    int remote_major, remote_minor;
    int major, minor;
    char *s, *newline = "\n";
    char buf[256]; /* Must not be larger than remote_version. */
    char remote_version[256]; /* Must be at least as big as buf. */

    if ((options.protocol & SSH_PROTO_1) &&
        (options.protocol & SSH_PROTO_2)) {
        major = PROTOCOL_MAJOR_1;
        minor = 99;
    } else if (options.protocol & SSH_PROTO_2) {
        major = PROTOCOL_MAJOR_2;
        minor = PROTOCOL_MINOR_2;
        newline = "\r\n";
    } else {
        major = PROTOCOL_MAJOR_1;
        minor = PROTOCOL_MINOR_1;
    }

    xasprintf(&server_version_string, "SSH-%d.%d-%.100s%%s%%s",
        major, minor, SSH_VERSION,
        *options.version_addendum == '\0' ? "" : " ",

```

```

options.version_addendum, newline);

/* Send our protocol version identification. */
if (atomicio(vwrite, sock_out, server_version_string,
    strlen(server_version_string)
    != strlen(server_version_string)) {
logit("Could not write ident string to %s", get_remote_ipaddr());
cleanup_exit(255);
}

/* Read other sides version identification. */
memset(buf, 0, sizeof(buf));
for (i = 0; i < sizeof(buf) - 1; i++) {
if (atomicio(read, sock_in, &buf[i], 1) != 1) {
logit("Did not receive identification string from %s",
    get_remote_ipaddr());
cleanup_exit(255);
}
if (buf[i] == '\r') {
buf[i] = 0;
/* Kludge for F-Secure Macintosh < 1.0.2 */
if (i == 12 &&
    strncmp(buf, "SSH-1.5-W1.0", 12) == 0)
break;
continue;
}
if (buf[i] == '\n') {
buf[i] = 0;
break;
}
}
buf[sizeof(buf) - 1] = 0;
client_version_string = xstrdup(buf);

/*
 * Check that the versions match. In future this might accept
 * several versions and set appropriate flags to handle them.
 */
if (sscanf(client_version_string, "SSH-%d.%d-%[^\n]\n",
    &remote_major, &remote_minor, remote_version) != 3) {
s = "Protocol mismatch.\n";
(void) atomicio(vwrite, sock_out, s, strlen(s));
logit("Bad protocol version identification '%.100s' "
    "from %s port %d", client_version_string,
    get_remote_ipaddr(), get_remote_port());
close(sock_in);
close(sock_out);
cleanup_exit(255);
}

```

```

}
debug("Client protocol version %d.%d; client software version %.100s",
    remote_major, remote_minor, remote_version);

active_state->compat = compat_datafellows(remote_version);

if ((datafellows & SSH_BUG_PROBE) != 0) {
    logit("probed from %s with %s. Don't panic.",
        get_remote_ipaddr(), client_version_string);
    cleanup_exit(255);
}
if ((datafellows & SSH_BUG_SCANNER) != 0) {
    logit("scanned from %s with %s. Don't panic.",
        get_remote_ipaddr(), client_version_string);
    cleanup_exit(255);
}
if ((datafellows & SSH_BUG_RSASIGMD5) != 0) {
    logit("Client version \"%.100s\" uses unsafe RSA signature "
        "scheme; disabling use of RSA keys", remote_version);
}
if ((datafellows & SSH_BUG_DERIVEKEY) != 0) {
    fatal("Client version \"%.100s\" uses unsafe key agreement; "
        "refusing connection", remote_version);
}

mismatch = 0;
switch (remote_major) {
case 1:
    if (remote_minor == 99) {
        if (options.protocol & SSH_PROTO_2)
            enable_compat20();
        else
            mismatch = 1;
        break;
    }
    if (!(options.protocol & SSH_PROTO_1)) {
        mismatch = 1;
        break;
    }
    if (remote_minor < 3) {
        packet_disconnect("Your ssh version is too old and "
            "is no longer supported. Please install a newer version.");
    } else if (remote_minor == 3) {
        /* note that this disables agent-forwarding */
        enable_compat13();
    }
    break;
case 2:

```

```

if (options.protocol & SSH_PROTO_2) {
    enable_compat20();
    break;
}
/* FALLTHROUGH */
default:
    mismatch = 1;
    break;
}
chop(server_version_string);
debug("Local version string %.200s", server_version_string);

if (mismatch) {
    s = "Protocol major versions differ.\n";
    (void) atomicio(vwrite, sock_out, s, strlen(s));
    close(sock_in);
    close(sock_out);
    logit("Protocol major versions differ for %s: %.200s vs. %.200s",
        get_remote_ipaddr(),
        server_version_string, client_version_string);
    cleanup_exit(255);
}
}

/* Destroy the host and server keys. They will no longer be needed. */
void
destroy_sensitive_data(void)
{
    int i;

    if (sensitive_data.server_key) {
        key_free(sensitive_data.server_key);
        sensitive_data.server_key = NULL;
    }
    for (i = 0; i < options.num_host_key_files; i++) {
        if (sensitive_data.host_keys[i]) {
            key_free(sensitive_data.host_keys[i]);
            sensitive_data.host_keys[i] = NULL;
        }
        if (sensitive_data.host_certificates[i]) {
            key_free(sensitive_data.host_certificates[i]);
            sensitive_data.host_certificates[i] = NULL;
        }
    }
    sensitive_data.ssh1_host_key = NULL;
    explicit_bzero(sensitive_data.ssh1_cookie, SSH_SESSION_KEY_LENGTH);
}

```

```

/* Demote private to public keys for network child */
void
demote_sensitive_data(void)
{
    Key *tmp;
    int i;

    if (sensitive_data.server_key) {
        tmp = key_demote(sensitive_data.server_key);
        key_free(sensitive_data.server_key);
        sensitive_data.server_key = tmp;
    }

    for (i = 0; i < options.num_host_key_files; i++) {
        if (sensitive_data.host_keys[i]) {
            tmp = key_demote(sensitive_data.host_keys[i]);
            key_free(sensitive_data.host_keys[i]);
            sensitive_data.host_keys[i] = tmp;
            if (tmp->type == KEY_RSA1)
                sensitive_data.ssh1_host_key = tmp;
        }
        /* Certs do not need demotion */
    }

    /* We do not clear ssh1_host key and cookie. XXX - Okay Niels? */
}

static void
privsep_preauth_child(void)
{
    u_int32_t rnd[256];
    gid_t gidset[1];

    /* Enable challenge-response authentication for privilege separation */
    privsep_challenge_enable();

#ifdef GSSAPI
    /* Cache supported mechanism OIDs for later use */
    if (options.gss_authentication)
        ssh_gssapi_prepare_supported_oids();
#endif

    arc4random_stir();
    arc4random_buf(rnd, sizeof(rnd));
#ifdef WITH_OPENSSL
    RAND_seed(rnd, sizeof(rnd));
    if ((RAND_bytes((u_char *)rnd, 1)) != 1)
        fatal("%s: RAND_bytes failed", __func__);
#endif
}

```

```

#endif
explicit_bzero(rnd, sizeof(rnd));

/* Demote the private keys to public keys. */
demote_sensitive_data();

/* Demote the child */
if (getuid() == 0 || geteuid() == 0) {
/* Change our root directory */
if (chroot(_PATH_PRIVSEP_CHROOT_DIR) == -1)
fatal("chroot(\"%s\"): %s", _PATH_PRIVSEP_CHROOT_DIR,
strerror(errno));
if (chdir("/") == -1)
fatal("chdir(\"/\"): %s", strerror(errno));

/* Drop our privileges */
debug3("privsep user:group %u:%u", (u_int)privsep_pw->pw_uid,
(u_int)privsep_pw->pw_gid);
gidset[0] = privsep_pw->pw_gid;
if (setgroups(1, gidset) < 0)
fatal("setgroups: %.100s", strerror(errno));
permanently_set_uid(privsep_pw);
}
}

static int
privsep_preauth(Authctxt *authctxt)
{
int status, r;
pid_t pid;
struct ssh_sandbox *box = NULL;

/* Set up unprivileged child process to deal with network data */
pmonitor = monitor_init();
/* Store a pointer to the kex for later rekeying */
pmonitor->m_pkex = &active_state->kex;

if (use_privsep == PRIVSEP_ON)
box = ssh_sandbox_init(pmonitor);
pid = fork();
if (pid == -1) {
fatal("fork of unprivileged child failed");
} else if (pid != 0) {
debug2("Network child is on pid %ld", (long)pid);

pmonitor->m_pid = pid;
if (have_agent) {
r = ssh_get_authentication_socket(&auth_sock);

```

```

if (r != 0) {
    error("Could not get agent socket: %s",
        ssh_err(r));
    have_agent = 0;
}
}
if (box != NULL)
    ssh_sandbox_parent_preauth(box, pid);
monitor_child_preauth(authctxt, pmonitor);

/* Sync memory */
monitor_sync(pmonitor);

/* Wait for the child's exit status */
while (waitpid(pid, &status, 0) < 0) {
    if (errno == EINTR)
        continue;
    pmonitor->m_pid = -1;
    fatal("%s: waitpid: %s", __func__, strerror(errno));
}
privsep_is_preauth = 0;
pmonitor->m_pid = -1;
if (WIFEXITED(status)) {
    if (WEXITSTATUS(status) != 0)
        fatal("%s: preauth child exited with status %d",
            __func__, WEXITSTATUS(status));
} else if (WIFSIGNALED(status))
    fatal("%s: preauth child terminated by signal %d",
        __func__, WTERMSIG(status));
if (box != NULL)
    ssh_sandbox_parent_finish(box);
return 1;
} else {
    /* child */
    close(pmonitor->m_sendfd);
    close(pmonitor->m_log_recvfd);

    /* Arrange for logging to be sent to the monitor */
    set_log_handler(mm_log_handler, pmonitor);

    privsep_preauth_child();
    setproctitle("%s", "[net]");
    if (box != NULL)
        ssh_sandbox_child(box);

    return 0;
}
}

```

```

static void
privsep_postauth(Authctxt *authctxt)
{
    u_int32_t rnd[256];

#ifdef DISABLE_FD_PASSING
    if (1) {
#else
    if (authctxt->pw->pw_uid == 0 || options.use_login) {
#endif
        /* File descriptor passing is broken or root login */
        use_privsep = 0;
        goto skip;
    }

    /* New socket pair */
    monitor_reinit(pmonitor);

    pmonitor->m_pid = fork();
    if (pmonitor->m_pid == -1)
        fatal("fork of unprivileged child failed");
    else if (pmonitor->m_pid != 0) {
        verbose("User child is on pid %ld", (long)pmonitor->m_pid);
        buffer_clear(&loginmsg);
        monitor_child_postauth(pmonitor);

        /* NEVERREACHED */
        exit(0);
    }

    /* child */

    close(pmonitor->m_sendfd);
    pmonitor->m_sendfd = -1;

    /* Demote the private keys to public keys. */
    demote_sensitive_data();

    arc4random_stir();
    arc4random_buf(rnd, sizeof(rnd));
#ifdef WITH_OPENSSL
    RAND_seed(rnd, sizeof(rnd));
    if ((RAND_bytes((u_char *)rnd, 1)) != 1)
        fatal("%s: RAND_bytes failed", __func__);
#endif
    explicit_bzero(rnd, sizeof(rnd));

```



```

/* Drop privileges */
do_setusercontext(authctxt->pw);

skip:
/* It is safe now to apply the key state */
monitor_apply_keystate(pmonitor);

/*
 * Tell the packet layer that authentication was successful, since
 * this information is not part of the key state.
 */
packet_set_authenticated();
}

static char *
list_hostkey_types(void)
{
    Buffer b;
    const char *p;
    char *ret;
    int i;
    Key *key;

    buffer_init(&b);
    for (i = 0; i < options.num_host_key_files; i++) {
        key = sensitive_data.host_keys[i];
        if (key == NULL)
            key = sensitive_data.host_pubkeys[i];
        if (key == NULL || key->type == KEY_RSA1)
            continue;
        /* Check that the key is accepted in HostkeyAlgorithms */
        if (match_pattern_list(sshkey_ssh_name(key),
            options.hostkeyalgorithms, 0) != 1) {
            debug3("%s: %s key not permitted by HostkeyAlgorithms",
                __func__, sshkey_ssh_name(key));
            continue;
        }
        switch (key->type) {
            case KEY_RSA:
            case KEY_DSA:
            case KEY_ECDSA:
            case KEY_ED25519:
                if (buffer_len(&b) > 0)
                    buffer_append(&b, ",", 1);
                p = key_ssh_name(key);
                buffer_append(&b, p, strlen(p));

                /* for RSA we also support SHA2 signatures */

```

```

if (key->type == KEY_RSA) {
    p = ",rsa-sha2-512,rsa-sha2-256";
    buffer_append(&b, p, strlen(p));
}
break;
}
/* If the private key has a cert peer, then list that too */
key = sensitive_data.host_certificates[i];
if (key == NULL)
    continue;
switch (key->type) {
case KEY_RSA_CERT:
case KEY_DSA_CERT:
case KEY_ECDSA_CERT:
case KEY_ED25519_CERT:
    if (buffer_len(&b) > 0)
        buffer_append(&b, ",", 1);
    p = key_ssh_name(key);
    buffer_append(&b, p, strlen(p));
    break;
}
}
buffer_append(&b, "\0", 1);
ret = xstrdup(buffer_ptr(&b));
buffer_free(&b);
debug("list_hostkey_types: %s", ret);
return ret;
}

static Key *
get_hostkey_by_type(int type, int nid, int need_private, struct ssh *ssh)
{
    int i;
    Key *key;

    for (i = 0; i < options.num_host_key_files; i++) {
        switch (type) {
            case KEY_RSA_CERT:
            case KEY_DSA_CERT:
            case KEY_ECDSA_CERT:
            case KEY_ED25519_CERT:
                key = sensitive_data.host_certificates[i];
                break;
            default:
                key = sensitive_data.host_keys[i];
                if (key == NULL && !need_private)
                    key = sensitive_data.host_pubkeys[i];
                break;
        }
    }
}

```

```

    }
    if (key != NULL && key->type == type &&
        (key->type != KEY_ECDSA || key->ecdsa_nid == nid))
        return need_private ?
            sensitive_data.host_keys[i] : key;
    }
    return NULL;
}

Key *
get_hostkey_public_by_type(int type, int nid, struct ssh *ssh)
{
    return get_hostkey_by_type(type, nid, 0, ssh);
}

Key *
get_hostkey_private_by_type(int type, int nid, struct ssh *ssh)
{
    return get_hostkey_by_type(type, nid, 1, ssh);
}

Key *
get_hostkey_by_index(int ind)
{
    if (ind < 0 || ind >= options.num_host_key_files)
        return (NULL);
    return (sensitive_data.host_keys[ind]);
}

Key *
get_hostkey_public_by_index(int ind, struct ssh *ssh)
{
    if (ind < 0 || ind >= options.num_host_key_files)
        return (NULL);
    return (sensitive_data.host_pubkeys[ind]);
}

int
get_hostkey_index(Key *key, int compare, struct ssh *ssh)
{
    int i;

    for (i = 0; i < options.num_host_key_files; i++) {
        if (key_is_cert(key)) {
            if (key == sensitive_data.host_certificates[i] ||
                (compare && sensitive_data.host_certificates[i] &&
                 sshkey_equal(key,
                     sensitive_data.host_certificates[i])))

```

```

    return (i);
} else {
if (key == sensitive_data.host_keys[i] ||
    (compare && sensitive_data.host_keys[i] &&
    sshkey_equal(key, sensitive_data.host_keys[i])))
    return (i);
if (key == sensitive_data.host_pubkeys[i] ||
    (compare && sensitive_data.host_pubkeys[i] &&
    sshkey_equal(key, sensitive_data.host_pubkeys[i])))
    return (i);
}
}
return (-1);
}

/* Inform the client of all hostkeys */
static void
notify_hostkeys(struct ssh *ssh)
{
    struct sshbuf *buf;
    struct sshkey *key;
    int i, nkeys, r;
    char *fp;

    /* Some clients cannot cope with the hostkeys message, skip those. */
    if (datafellows & SSH_BUG_HOSTKEYS)
        return;

    if ((buf = sshbuf_new()) == NULL)
        fatal("%s: sshbuf_new", __func__);
    for (i = nkeys = 0; i < options.num_host_key_files; i++) {
        key = get_hostkey_public_by_index(i, ssh);
        if (key == NULL || key->type == KEY_UNSPEC ||
            key->type == KEY_RSA1 || sshkey_is_cert(key))
            continue;
        fp = sshkey_fingerprint(key, options.fingerprint_hash,
            SSH_FP_DEFAULT);
        debug3("%s: key %d: %s %s", __func__, i,
            sshkey_ssh_name(key), fp);
        free(fp);
        if (nkeys == 0) {
            packet_start(SSH2_MSG_GLOBAL_REQUEST);
            packet_put_cstring("hostkeys-00@openssh.com");
            packet_put_char(0); /* want-reply */
        }
        sshbuf_reset(buf);
        if ((r = sshkey_putb(key, buf)) != 0)
            fatal("%s: couldn't put hostkey %d: %s",

```

```

    __func__, i, ssh_err(r));
packet_put_string(sshbuf_ptr(buf), sshbuf_len(buf));
nkeys++;
}
debug3("%s: sent %d hostkeys", __func__, nkeys);
if (nkeys == 0)
    fatal("%s: no hostkeys", __func__);
packet_send();
sshbuf_free(buf);
}

/*
 * returns 1 if connection should be dropped, 0 otherwise.
 * dropping starts at connection #max_startups_begin with a probability
 * of (max_startups_rate/100). the probability increases linearly until
 * all connections are dropped for startups > max_startups
 */
static int
drop_connection(int startups)
{
    int p, r;

    if (startups < options.max_startups_begin)
        return 0;
    if (startups >= options.max_startups)
        return 1;
    if (options.max_startups_rate == 100)
        return 1;

    p = 100 - options.max_startups_rate;
    p *= startups - options.max_startups_begin;
    p /= options.max_startups - options.max_startups_begin;
    p += options.max_startups_rate;
    r = arc4random_uniform(100);

    debug("drop_connection: p %d, r %d", p, r);
    return (r < p) ? 1 : 0;
}

static void
usage(void)
{
    fprintf(stderr, "%s, %s\n",
        SSH_RELEASE,
#ifdef WITH_OPENSSL
        SSLeay_version(SSLEAY_VERSION)
#else
        "without OpenSSL"
#endif
    );
}

```

```

#endif
);
fprintf(stderr,
"usage: sshd [-46DdeiqTt] [-b bits] [-C connection_spec] [-c host_cert_file]\n"
"      [-E log_file] [-f config_file] [-g login_grace_time]\n"
"      [-h host_key_file] [-k key_gen_time] [-o option] [-p port]\n"
"      [-u len]\n"
);
exit(1);
}

static void
send_rexec_state(int fd, Buffer *conf)
{
    Buffer m;

    debug3("%s: entering fd = %d config len %d", __func__, fd,
        buffer_len(conf));

    /*
     * Protocol from reexec master to child:
     * string configuration
     * u_int ephemeral_key_follows
     * bignum e (only if ephemeral_key_follows == 1)
     * bignum n "
     * bignum d "
     * bignum iqmp "
     * bignum p "
     * bignum q "
     * string rngseed (only if OpenSSL is not self-seeded)
     */
    buffer_init(&m);
    buffer_put_cstring(&m, buffer_ptr(conf));

#ifdef WITH_SSH1
    if (sensitive_data.server_key != NULL &&
        sensitive_data.server_key->type == KEY_RSA1) {
        buffer_put_int(&m, 1);
        buffer_put_bignum(&m, sensitive_data.server_key->rsa->e);
        buffer_put_bignum(&m, sensitive_data.server_key->rsa->n);
        buffer_put_bignum(&m, sensitive_data.server_key->rsa->d);
        buffer_put_bignum(&m, sensitive_data.server_key->rsa->iqmp);
        buffer_put_bignum(&m, sensitive_data.server_key->rsa->p);
        buffer_put_bignum(&m, sensitive_data.server_key->rsa->q);
    } else
#endif
        buffer_put_int(&m, 0);

```

```

#if defined(WITH_OPENSSL) && !defined(OPENSSL_PRNG_ONLY)
    rexec_send_rng_seed(&m);
#endif

if (ssh_msg_send(fd, 0, &m) == -1)
    fatal("%s: ssh_msg_send failed", __func__);

buffer_free(&m);

debug3("%s: done", __func__);
}

static void
recv_rexec_state(int fd, Buffer *conf)
{
    Buffer m;
    char *cp;
    u_int len;

    debug3("%s: entering fd = %d", __func__, fd);

    buffer_init(&m);

    if (ssh_msg_recv(fd, &m) == -1)
        fatal("%s: ssh_msg_recv failed", __func__);
    if (buffer_get_char(&m) != 0)
        fatal("%s: rexec version mismatch", __func__);

    cp = buffer_get_string(&m, &len);
    if (conf != NULL)
        buffer_append(conf, cp, len + 1);
    free(cp);

    if (buffer_get_int(&m)) {
#ifdef WITH_SSH1
        if (sensitive_data.server_key != NULL)
            key_free(sensitive_data.server_key);
        sensitive_data.server_key = key_new_private(KEY_RSA1);
        buffer_get_bignum(&m, sensitive_data.server_key->rsa->e);
        buffer_get_bignum(&m, sensitive_data.server_key->rsa->n);
        buffer_get_bignum(&m, sensitive_data.server_key->rsa->d);
        buffer_get_bignum(&m, sensitive_data.server_key->rsa->iqmp);
        buffer_get_bignum(&m, sensitive_data.server_key->rsa->p);
        buffer_get_bignum(&m, sensitive_data.server_key->rsa->q);
        if (rsa_generate_additional_parameters(
            sensitive_data.server_key->rsa) != 0)
            fatal("%s: rsa_generate_additional_parameters "
                "error", __func__);
#endif
    }
}

```

```

#endif
}

#if defined(WITH_OPENSSL) && !defined(OPENSSL_PRNG_ONLY)
  rexec_rcv_rng_seed(&m);
#endif

buffer_free(&m);

debug3("%s: done", __func__);
}

/* Accept a connection from inetd */
static void
server_accept_inetd(int *sock_in, int *sock_out)
{
  int fd;

  startup_pipe = -1;
  if (rexeced_flag) {
    close(REEXEC_CONFIG_PASS_FD);
    *sock_in = *sock_out = dup(STDIN_FILENO);
    if (!debug_flag) {
      startup_pipe = dup(REEXEC_STARTUP_PIPE_FD);
      close(REEXEC_STARTUP_PIPE_FD);
    }
  } else {
    *sock_in = dup(STDIN_FILENO);
    *sock_out = dup(STDOUT_FILENO);
  }
  /*
   * We intentionally do not close the descriptors 0, 1, and 2
   * as our code for setting the descriptors won't work if
   * ttyfd happens to be one of those.
   */
  if ((fd = open(_PATH_DEVNULL, O_RDWR, 0)) != -1) {
    dup2(fd, STDIN_FILENO);
    dup2(fd, STDOUT_FILENO);
    if (!log_stderr)
      dup2(fd, STDERR_FILENO);
    if (fd > (log_stderr ? STDERR_FILENO : STDOUT_FILENO))
      close(fd);
  }
  debug("inetd sockets after dupping: %d, %d", *sock_in, *sock_out);
}

/*
 * Listen for TCP connections

```



```

*/
static void
server_listen(void)
{
int ret, listen_sock, on = 1;
struct addrinfo *ai;
char ntop[NI_MAXHOST], strport[NI_MAXSERV];

for (ai = options.listen_addrs; ai; ai = ai->ai_next) {
if (ai->ai_family != AF_INET && ai->ai_family != AF_INET6)
continue;
if (num_listen_socks >= MAX_LISTEN_SOCKS)
fatal("Too many listen sockets. "
"Enlarge MAX_LISTEN_SOCKS");
if ((ret = getnameinfo(ai->ai_addr, ai->ai_addrlen,
ntop, sizeof(ntop), strport, sizeof(strport),
NI_NUMERICHOST|NI_NUMERICSERV)) != 0) {
error("getnameinfo failed: %.100s",
ssh_gai_strerror(ret));
continue;
}
/* Create socket for listening. */
listen_sock = socket(ai->ai_family, ai->ai_socktype,
ai->ai_protocol);
if (listen_sock < 0) {
/* kernel may not support ipv6 */
verbose("socket: %.100s", strerror(errno));
continue;
}
if (set_nonblock(listen_sock) == -1) {
close(listen_sock);
continue;
}
/*
* Set socket options.
* Allow local port reuse in TIME_WAIT.
*/
if (setsockopt(listen_sock, SOL_SOCKET, SO_REUSEADDR,
&on, sizeof(on)) == -1)
error("setsockopt SO_REUSEADDR: %s", strerror(errno));

/* Only communicate in IPv6 over AF_INET6 sockets. */
if (ai->ai_family == AF_INET6)
sock_set_v6only(listen_sock);

debug("Bind to port %s on %s.", strport, ntop);

/* Bind the socket to the desired port. */

```

```

if (bind(listen_sock, ai->ai_addr, ai->ai_addrlen) < 0) {
    error("Bind to port %s on %s failed: %.200s.",
        strport, ntop, strerror(errno));
    close(listen_sock);
    continue;
}
listen_socks[num_listen_socks] = listen_sock;
num_listen_socks++;

/* Start listening on the port. */
if (listen(listen_sock, SSH_LISTEN_BACKLOG) < 0)
    fatal("listen on [%s]:%s: %.100s",
        ntop, strport, strerror(errno));
logit("Server listening on %s port %s.", ntop, strport);
}
freeaddrinfo(options.listen_addrs);

if (!num_listen_socks)
    fatal("Cannot bind any address.");
}

/*
 * The main TCP accept loop. Note that, for the non-debug case, returns
 * from this function are in a forked subprocess.
 */
static void
server_accept_loop(int *sock_in, int *sock_out, int *newsock, int *config_s)
{
    fd_set *fdset;
    int i, j, ret, maxfd;
    int key_used = 0, startups = 0;
    int startup_p[2] = { -1, -1 };
    struct sockaddr_storage from;
    socklen_t fromlen;
    pid_t pid;
    u_char rnd[256];

    /* setup fd set for accept */
    fdset = NULL;
    maxfd = 0;
    for (i = 0; i < num_listen_socks; i++)
        if (listen_socks[i] > maxfd)
            maxfd = listen_socks[i];
    /* pipes connected to unauthenticated childs */
    startup_pipes = xcalloc(options.max_startups, sizeof(int));
    for (i = 0; i < options.max_startups; i++)
        startup_pipes[i] = -1;

```

```

/*
 * Stay listening for connections until the system crashes or
 * the daemon is killed with a signal.
 */
for (;;) {
    if (received_sighup)
        sighup_restart();
    free(fdset);
    fdset = xcalloc(howmany(maxfd + 1, NFDBITS),
        sizeof(fd_mask));

    for (i = 0; i < num_listen_socks; i++)
        FD_SET(listen_socks[i], fdset);
    for (i = 0; i < options.max_startups; i++)
        if (startup_pipes[i] != -1)
            FD_SET(startup_pipes[i], fdset);

    /* Wait in select until there is a connection. */
    ret = select(maxfd+1, fdset, NULL, NULL, NULL);
    if (ret < 0 && errno != EINTR)
        error("select: %.100s", strerror(errno));
    if (received_sigterm) {
        logit("Received signal %d; terminating.",
            (int) received_sigterm);
        close_listen_socks();
        if (options.pid_file != NULL)
            unlink(options.pid_file);
        exit(received_sigterm == SIGTERM ? 0 : 255);
    }
    if (key_used && key_do_regen) {
        generate_ephemeral_server_key();
        key_used = 0;
        key_do_regen = 0;
    }
    if (ret < 0)
        continue;

    for (i = 0; i < options.max_startups; i++)
        if (startup_pipes[i] != -1 &&
            FD_ISSET(startup_pipes[i], fdset)) {
            /*
             * the read end of the pipe is ready
             * if the child has closed the pipe
             * after successful authentication
             * or if the child has died
             */
            close(startup_pipes[i]);
            startup_pipes[i] = -1;
        }
}

```

```

startups--;
}
for (i = 0; i < num_listen_socks; i++) {
if (!FD_ISSET(listen_socks[i], fdset))
continue;
fromlen = sizeof(from);
*newsock = accept(listen_socks[i],
(struct sockaddr *)&from, &fromlen);
if (*newsock < 0) {
if (errno != EINTR && errno != EWOULDBLOCK &&
errno != ECONNABORTED && errno != EAGAIN)
error("accept: %.100s",
strerror(errno));
if (errno == EMFILE || errno == ENFILE)
usleep(100 * 1000);
continue;
}
if (unset_nonblock(*newsock) == -1) {
close(*newsock);
continue;
}
if (drop_connection(startups) == 1) {
debug("drop connection #%d", startups);
close(*newsock);
continue;
}
if (pipe(startup_p) == -1) {
close(*newsock);
continue;
}

if (rexec_flag && socketpair(AF_UNIX,
SOCK_STREAM, 0, config_s) == -1) {
error("reexec socketpair: %s",
strerror(errno));
close(*newsock);
close(startup_p[0]);
close(startup_p[1]);
continue;
}

for (j = 0; j < options.max_startups; j++)
if (startup_pipes[j] == -1) {
startup_pipes[j] = startup_p[0];
if (maxfd < startup_p[0])
maxfd = startup_p[0];
startups++;
break;
}

```

```

}

/*
 * Got connection. Fork a child to handle it, unless
 * we are in debugging mode.
 */
if (debug_flag) {
/*
 * In debugging mode. Close the listening
 * socket, and start processing the
 * connection without forking.
 */
debug("Server will not fork when running in debugging mode.");
close_listen_socks();
*sock_in = *newsock;
*sock_out = *newsock;
close(startup_p[0]);
close(startup_p[1]);
startup_pipe = -1;
pid = getpid();
if (rexec_flag) {
    send_rexec_state(config_s[0],
        &cfg);
    close(config_s[0]);
}
break;
}

/*
 * Normal production daemon. Fork, and have
 * the child process the connection. The
 * parent continues listening.
 */
platform_pre_fork();
if ((pid = fork()) == 0) {
/*
 * Child. Close the listening and
 * max_startup sockets. Start using
 * the accepted socket. Reinitialize
 * logging (since our pid has changed).
 * We break out of the loop to handle
 * the connection.
 */
platform_post_fork_child();
startup_pipe = startup_p[1];
close_startup_pipes();
close_listen_socks();
*sock_in = *newsock;

```

```

*sock_out = *newsock;
log_init(__programe,
        options.log_level,
        options.log_facility,
        log_stderr);
if (rexec_flag)
    close(config_s[0]);
break;
}

/* Parent. Stay in the loop. */
platform_post_fork_parent(pid);
if (pid < 0)
    error("fork: %.100s", strerror(errno));
else
    debug("Forked child %ld.", (long)pid);

close(startup_p[1]);

if (rexec_flag) {
    send_rexec_state(config_s[0], &cfg);
    close(config_s[0]);
    close(config_s[1]);
}

/*
 * Mark that the key has been used (it
 * was "given" to the child).
 */
if ((options.protocol & SSH_PROTO_1) &&
    key_used == 0) {
    /* Schedule server key regeneration alarm. */
    signal(SIGALRM, key_regeneration_alarm);
    alarm(options.key_regeneration_time);
    key_used = 1;
}

close(*newsock);

/*
 * Ensure that our random state differs
 * from that of the child
 */
arc4random_stir();
arc4random_buf(rnd, sizeof(rnd));
#ifdef WITH_OPENSSL
RAND_seed(rnd, sizeof(rnd));
if ((RAND_bytes((u_char *)rnd, 1)) != 1)

```

```

    fatal("%s: RAND_bytes failed", __func__);
#endif
    explicit_bzero(rnd, sizeof(rnd));
}

/* child process check (or debug mode) */
if (num_listen_socks < 0)
    break;
}
}

/*
 * Main program for the daemon.
 */
int
main(int ac, char **av)
{
    extern char *optarg;
    extern int optind;
    int r, opt, i, j, on = 1;
    int sock_in = -1, sock_out = -1, newsock = -1;
    const char *remote_ip;
    int remote_port;
    char *fp, *line, *laddr, *logfile = NULL;
    int config_s[2] = { -1, -1 };
    u_int n;
    u_int64_t ibytes, obytes;
    mode_t new_umask;
    Key *key;
    Key *pubkey;
    int keytype;
    Authctxt *authctxt;
    struct connection_info *connection_info = get_connection_info(0, 0);

    ssh_malloc_init(); /* must be called before any mallocs */

#ifdef HAVE_SECUREWARE
    (void)set_auth_parameters(ac, av);
#endif
    __progname = ssh_get_progname(av[0]);

    /* Save argv. Duplicate so setproctitle emulation doesn't clobber it */
    saved_argc = ac;
    rexec_argc = ac;
    saved_argv = xcalloc(ac + 1, sizeof(*saved_argv));
    for (i = 0; i < ac; i++)
        saved_argv[i] = xstrdup(av[i]);

```

```

saved_argv[i] = NULL;

#ifdef HAVE_SETPROCTITLE
/* Prepare for later setproctitle emulation */
compat_init_setproctitle(ac, av);
av = saved_argv;
#endif

if (geteuid() == 0 && setgroups(0, NULL) == -1)
    debug("setgroups(): %.200s", strerror(errno));

/* Ensure that fds 0, 1 and 2 are open or directed to /dev/null */
sanitise_stdio();

/* Initialize configuration options to their default values. */
initialize_server_options(&options);

/* Parse command-line arguments. */
while ((opt = getopt(ac, av,
    "C:E:b:c:f:g:h:k:o:p:u:46DQRTdeiqrt")) != -1) {
    switch (opt) {
        case '4':
            options.address_family = AF_INET;
            break;
        case '6':
            options.address_family = AF_INET6;
            break;
        case 'f':
            config_file_name = optarg;
            break;
        case 'c':
            if (options.num_host_cert_files >= MAX_HOSTCERTS) {
                fprintf(stderr, "too many host certificates.\n");
                exit(1);
            }
            options.host_cert_files[options.num_host_cert_files++] =
                derelativise_path(optarg);
            break;
        case 'd':
            if (debug_flag == 0) {
                debug_flag = 1;
                options.log_level = SYSLOG_LEVEL_DEBUG1;
            } else if (options.log_level < SYSLOG_LEVEL_DEBUG3)
                options.log_level++;
            break;
        case 'D':
            no_daemon_flag = 1;
            break;
    }
}

```



```

case 'E':
    logfile = optarg;
    /* FALLTHROUGH */
case 'e':
    log_stderr = 1;
    break;
case 'i':
    inetd_flag = 1;
    break;
case 'r':
    rexec_flag = 0;
    break;
case 'R':
    rexeced_flag = 1;
    inetd_flag = 1;
    break;
case 'Q':
    /* ignored */
    break;
case 'q':
    options.log_level = SYSLOG_LEVEL_QUIET;
    break;
case 'b':
    options.server_key_bits = (int)strtonum(optarg, 256,
        32768, NULL);
    break;
case 'p':
    options.ports_from_cmdline = 1;
    if (options.num_ports >= MAX_PORTS) {
        fprintf(stderr, "too many ports.\n");
        exit(1);
    }
    options.ports[options.num_ports++] = a2port(optarg);
    if (options.ports[options.num_ports-1] <= 0) {
        fprintf(stderr, "Bad port number.\n");
        exit(1);
    }
    break;
case 'g':
    if ((options.login_grace_time = convtime(optarg)) == -1) {
        fprintf(stderr, "Invalid login grace time.\n");
        exit(1);
    }
    break;
case 'k':
    if ((options.key_regeneration_time = convtime(optarg)) == -1) {
        fprintf(stderr, "Invalid key regeneration interval.\n");
        exit(1);
    }

```

```

}
break;
case 'h':
if (options.num_host_key_files >= MAX_HOSTKEYS) {
    fprintf(stderr, "too many host keys.\n");
    exit(1);
}
options.host_key_files[options.num_host_key_files++] =
    derelativise_path(optarg);
break;
case 't':
test_flag = 1;
break;
case 'T':
test_flag = 2;
break;
case 'C':
if (parse_server_match_testspec(connection_info,
    optarg) == -1)
    exit(1);
break;
case 'u':
utmp_len = (u_int)strtonum(optarg, 0, HOST_NAME_MAX+1+1, NULL);
if (utmp_len > HOST_NAME_MAX+1) {
    fprintf(stderr, "Invalid utmp length.\n");
    exit(1);
}
break;
case 'o':
line = xstrdup(optarg);
if (process_server_config_line(&options, line,
    "command-line", 0, NULL, NULL) != 0)
    exit(1);
free(line);
break;
case '?':
default:
usage();
break;
}
}
if (rexeced_flag || inetd_flag)
    rexec_flag = 0;
if (!test_flag && (rexec_flag && (av[0] == NULL || *av[0] != '/)))
    fatal("sshd re-exec requires execution with an absolute path");
if (rexeced_flag)
    closefrom(REEXEC_MIN_FREE_FD);
else

```

```

closefrom(REEEXEC_DEVCRYPTO_RESERVED_FD);

#ifdef WITH_OPENSSL
    OpenSSL_add_all_algorithms();
#endif

/* If requested, redirect the logs to the specified logfile. */
if (logfile != NULL)
    log_redirect_stderr_to(logfile);
/*
 * Force logging to stderr until we have loaded the private host
 * key (unless started from inetd)
 */
log_init(__progname,
    options.log_level == SYSLOG_LEVEL_NOT_SET ?
    SYSLOG_LEVEL_INFO : options.log_level,
    options.log_facility == SYSLOG_FACILITY_NOT_SET ?
    SYSLOG_FACILITY_AUTH : options.log_facility,
    log_stderr || !inetd_flag);

/*
 * Unset KRB5CCNAME, otherwise the user's session may inherit it from
 * root's environment
 */
if (getenv("KRB5CCNAME") != NULL)
    (void) unsetenv("KRB5CCNAME");

#ifdef _UNICOS
/* Cray can define user privs drop all privs now!
 * Not needed on PRIV_SU systems!
 */
drop_cray_privs();
#endif

sensitive_data.server_key = NULL;
sensitive_data.ssh1_host_key = NULL;
sensitive_data.have_ssh1_key = 0;
sensitive_data.have_ssh2_key = 0;

/*
 * If we're doing an extended config test, make sure we have all of
 * the parameters we need. If we're not doing an extended test,
 * do not silently ignore connection test params.
 */
if (test_flag >= 2 && server_match_spec_complete(connection_info) == 0)
    fatal("user, host and addr are all required when testing "
        "Match configs");
if (test_flag < 2 && server_match_spec_complete(connection_info) >= 0)

```

```

fatal("Config test connection parameter (-C) provided without "
      "test mode (-T)");

/* Fetch our configuration */
buffer_init(&cfg);
if (rexeced_flag)
    recv_rexec_state(REEEXEC_CONFIG_PASS_FD, &cfg);
else if (strcasecmp(config_file_name, "none") != 0)
    load_server_config(config_file_name, &cfg);

parse_server_config(&options, rexeced_flag ? "rexec" : config_file_name,
                  &cfg, NULL);

seed_rng();

/* Fill in default values for those options not explicitly set. */
fill_default_server_options(&options);

/* challenge-response is implemented via keyboard interactive */
if (options.challenge_response_authentication)
    options.kbd_interactive_authentication = 1;

/* Check that options are sensible */
if (options.authorized_keys_command_user == NULL &&
    (options.authorized_keys_command != NULL &&
     strcmp(options.authorized_keys_command, "none") != 0))
    fatal("AuthorizedKeysCommand set without "
          "AuthorizedKeysCommandUser");
if (options.authorized_principals_command_user == NULL &&
    (options.authorized_principals_command != NULL &&
     strcmp(options.authorized_principals_command, "none") != 0))
    fatal("AuthorizedPrincipalsCommand set without "
          "AuthorizedPrincipalsCommandUser");

/*
 * Check whether there is any path through configured auth methods.
 * Unfortunately it is not possible to verify this generally before
 * daemonisation in the presence of Match block, but this catches
 * and warns for trivial misconfigurations that could break login.
 */
if (options.num_auth_methods != 0) {
    if ((options.protocol & SSH_PROTO_1))
        fatal("AuthenticationMethods is not supported with "
              "SSH protocol 1");
    for (n = 0; n < options.num_auth_methods; n++) {
        if (auth2_methods_valid(options.auth_methods[n],
                                1) == 0)
            break;
    }
}

```

```

}
if (n >= options.num_auth_methods)
    fatal("AuthenticationMethods cannot be satisfied by "
        "enabled authentication methods");
}

/* set default channel AF */
channel_set_af(options.address_family);

/* Check that there are no remaining arguments. */
if (optind < ac) {
    fprintf(stderr, "Extra argument %s.\n", av[optind]);
    exit(1);
}

debug("sshd version %s, %s", SSH_VERSION,
#ifdef WITH_OPENSSL
    SSLeay_version(SSLEAY_VERSION)
#else
    "without OpenSSL"
#endif
);

/* Store privilege separation user for later use if required. */
if ((privsep_pw = getpwnam(SSH_PRIVSEP_USER)) == NULL) {
    if (use_privsep || options.kerberos_authentication)
        fatal("Privilege separation user %s does not exist",
            SSH_PRIVSEP_USER);
    } else {
        explicit_bzero(privsep_pw->pw_passwd,
            strlen(privsep_pw->pw_passwd));
        privsep_pw = pwcopyp(privsep_pw);
        free(privsep_pw->pw_passwd);
        privsep_pw->pw_passwd = xstrdup("");
    }
endpwent();

/* load host keys */
sensitive_data.host_keys = xcalloc(options.num_host_key_files,
    sizeof(Key *));
sensitive_data.host_pubkeys = xcalloc(options.num_host_key_files,
    sizeof(Key *));

if (options.host_key_agent) {
    if (strcmp(options.host_key_agent, SSH_AUTHSOCKET_ENV_NAME))
        setenv(SSH_AUTHSOCKET_ENV_NAME,
            options.host_key_agent, 1);
    if ((r = ssh_get_authentication_socket(NULL)) == 0)

```

```

    have_agent = 1;
else
    error("Could not connect to agent \"%s\": %s",
        options.host_key_agent, ssh_err(r));
}

for (i = 0; i < options.num_host_key_files; i++) {
    if (options.host_key_files[i] == NULL)
        continue;
    key = key_load_private(options.host_key_files[i], "", NULL);
    pubkey = key_load_public(options.host_key_files[i], NULL);
    if (pubkey == NULL && key != NULL)
        pubkey = key_demote(key);
    sensitive_data.host_keys[i] = key;
    sensitive_data.host_pubkeys[i] = pubkey;

    if (key == NULL && pubkey != NULL && pubkey->type != KEY_RSA1 &&
        have_agent) {
        debug("will rely on agent for hostkey %s",
            options.host_key_files[i]);
        keytype = pubkey->type;
    } else if (key != NULL) {
        keytype = key->type;
    } else {
        error("Could not load host key: %s",
            options.host_key_files[i]);
        sensitive_data.host_keys[i] = NULL;
        sensitive_data.host_pubkeys[i] = NULL;
        continue;
    }

    switch (keytype) {
    case KEY_RSA1:
        sensitive_data.ssh1_host_key = key;
        sensitive_data.have_ssh1_key = 1;
        break;
    case KEY_RSA:
    case KEY_DSA:
    case KEY_ECDSA:
    case KEY_ED25519:
        if (have_agent || key != NULL)
            sensitive_data.have_ssh2_key = 1;
        break;
    }
    if ((fp = sshkey_fingerprint(pubkey, options.fingerprint_hash,
        SSH_FP_DEFAULT)) == NULL)
        fatal("sshkey_fingerprint failed");
    debug("%s host key #d: %s %s",

```

```

    key ? "private" : "agent", i, keytype == KEY_RSA1 ?
    sshkey_type(pubkey) : sshkey_ssh_name(pubkey), fp);
free(fp);
}
if ((options.protocol & SSH_PROTO_1) && !sensitive_data.have_ssh1_key) {
    logit("Disabling protocol version 1. Could not load host key");
    options.protocol &= ~SSH_PROTO_1;
}
if ((options.protocol & SSH_PROTO_2) && !sensitive_data.have_ssh2_key) {
    logit("Disabling protocol version 2. Could not load host key");
    options.protocol &= ~SSH_PROTO_2;
}
if (!(options.protocol & (SSH_PROTO_1|SSH_PROTO_2))) {
    logit("sshd: no hostkeys available -- exiting.");
    exit(1);
}

/*
 * Load certificates. They are stored in an array at identical
 * indices to the public keys that they relate to.
 */
sensitive_data.host_certificates = xcalloc(options.num_host_key_files,
    sizeof(Key *));
for (i = 0; i < options.num_host_key_files; i++)
    sensitive_data.host_certificates[i] = NULL;

for (i = 0; i < options.num_host_cert_files; i++) {
    if (options.host_cert_files[i] == NULL)
        continue;
    key = key_load_public(options.host_cert_files[i], NULL);
    if (key == NULL) {
        error("Could not load host certificate: %s",
            options.host_cert_files[i]);
        continue;
    }
    if (!key_is_cert(key)) {
        error("Certificate file is not a certificate: %s",
            options.host_cert_files[i]);
        key_free(key);
        continue;
    }
    /* Find matching private key */
    for (j = 0; j < options.num_host_key_files; j++) {
        if (key_equal_public(key,
            sensitive_data.host_keys[j])) {
            sensitive_data.host_certificates[j] = key;
            break;
        }
    }
}

```

```

}
if (j >= options.num_host_key_files) {
    error("No matching private key for certificate: %s",
        options.host_cert_files[i]);
    key_free(key);
    continue;
}
sensitive_data.host_certificates[j] = key;
debug("host certificate: #%d type %d %s", j, key->type,
    key_type(key));
}

#ifdef WITH_SSH1
/* Check certain values for sanity. */
if (options.protocol & SSH_PROTO_1) {
    if (options.server_key_bits < SSH_RSA_MINIMUM_MODULUS_SIZE ||
        options.server_key_bits > OPENSSL_RSA_MAX_MODULUS_BITS) {
        fprintf(stderr, "Bad server key size.\n");
        exit(1);
    }
    /*
     * Check that server and host key lengths differ sufficiently. This
     * is necessary to make double encryption work with rsaref. Oh, I
     * hate software patents. I dont know if this can go? Niels
     */
    if (options.server_key_bits >
        BN_num_bits(sensitive_data.ssh1_host_key->rsa->n) -
        SSH_KEY_BITS_RESERVED && options.server_key_bits <
        BN_num_bits(sensitive_data.ssh1_host_key->rsa->n) +
        SSH_KEY_BITS_RESERVED) {
        options.server_key_bits =
            BN_num_bits(sensitive_data.ssh1_host_key->rsa->n) +
            SSH_KEY_BITS_RESERVED;
        debug("Forcing server key to %d bits to make it differ from host key.",
            options.server_key_bits);
    }
}
#endif

if (use_privsep) {
    struct stat st;

    if ((stat(_PATH_PRIVSEP_CHROOT_DIR, &st) == -1) ||
        (S_ISDIR(st.st_mode) == 0))
        fatal("Missing privilege separation directory: %s",
            _PATH_PRIVSEP_CHROOT_DIR);
}

#ifdef HAVE_CYGWIN

```



```

if (check_ntsec(_PATH_PRIVSEP_CHROOT_DIR) &&
    (st.st_uid != getuid () ||
     (st.st_mode & (S_IWGRP|S_IWOTH)) != 0))
#else
if (st.st_uid != 0 || (st.st_mode & (S_IWGRP|S_IWOTH)) != 0)
#endif
fatal("%s must be owned by root and not group or "
      "world-writable.", _PATH_PRIVSEP_CHROOT_DIR);
}

if (test_flag > 1) {
if (server_match_spec_complete(connection_info) == 1)
parse_server_match_config(&options, connection_info);
dump_config(&options);
}

/* Configuration looks good, so exit if in test mode. */
if (test_flag)
exit(0);

/*
 * Clear out any supplemental groups we may have inherited. This
 * prevents inadvertent creation of files with bad modes (in the
 * portable version at least, it's certainly possible for PAM
 * to create a file, and we can't control the code in every
 * module which might be used).
 */
if (setgroups(0, NULL) < 0)
debug("setgroups() failed: %.200s", strerror(errno));

if (rexec_flag) {
rexec_argv = xcalloc(rexec_argc + 2, sizeof(char *));
for (i = 0; i < rexec_argc; i++) {
debug("rexec_argv[%d]='%s'", i, saved_argv[i]);
rexec_argv[i] = saved_argv[i];
}
rexec_argv[rexec_argc] = "-R";
rexec_argv[rexec_argc + 1] = NULL;
}

/* Ensure that umask disallows at least group and world write */
new_umask = umask(0077) | 0022;
(void) umask(new_umask);

/* Initialize the log (it is reinitialized below in case we forked). */
if (debug_flag && (!inetd_flag || rexeced_flag))
log_stderr = 1;
log_init(__progname, options.log_level, options.log_facility, log_stderr);

```

```

/*
 * If not in debugging mode, and not started from inetd, disconnect
 * from the controlling terminal, and fork. The original process
 * exits.
 */
if (!(debug_flag || inetd_flag || no_daemon_flag)) {
#ifdef TIOCNOTTY
    int fd;
#endif /* TIOCNOTTY */
    if (daemon(0, 0) < 0)
        fatal("daemon() failed: %.200s", strerror(errno));

    /* Disconnect from the controlling tty. */
#ifdef TIOCNOTTY
    fd = open(_PATH_TTY, O_RDWR | O_NOCTTY);
    if (fd >= 0) {
        (void) ioctl(fd, TIOCNOTTY, NULL);
        close(fd);
    }
#endif /* TIOCNOTTY */
}
/* Reinitialize the log (because of the fork above). */
log_init(__progname, options.log_level, options.log_facility, log_stderr);

/* Chdir to the root directory so that the current disk can be
   unmounted if desired. */
if (chdir("/") == -1)
    error("chdir(\"/\"): %s", strerror(errno));

/* ignore SIGPIPE */
signal(SIGPIPE, SIG_IGN);

/* Get a connection, either from inetd or a listening TCP socket */
if (inetd_flag) {
    server_accept_inetd(&sock_in, &sock_out);
} else {
    platform_pre_listen();
    server_listen();

    if (options.protocol & SSH_PROTO_1)
        generate_ephemeral_server_key();

    signal(SIGHUP, sighup_handler);
    signal(SIGCHLD, main_sigchld_handler);
    signal(SIGTERM, sigterm_handler);
    signal(SIGQUIT, sigterm_handler);
}

```

```

/*
 * Write out the pid file after the sigterm handler
 * is setup and the listen sockets are bound
 */
if (options.pid_file != NULL && !debug_flag) {
    FILE *f = fopen(options.pid_file, "w");

    if (f == NULL) {
        error("Couldn't create pid file \"%s\": %s",
            options.pid_file, strerror(errno));
    } else {
        fprintf(f, "%ld\n", (long) getpid());
        fclose(f);
    }
}

/* Accept a connection and return in a forked child */
server_accept_loop(&sock_in, &sock_out,
    &newsock, config_s);
}

/* This is the child processing a new connection. */
setproctitle("%s", "[accepted]");

/*
 * Create a new session and process group since the 4.4BSD
 * setlogin() affects the entire process group. We don't
 * want the child to be able to affect the parent.
 */
#ifdef SSHD_ACQUIRES_CTTY
/*
 * If setsid is called, on some platforms sshd will later acquire a
 * controlling terminal which will result in "could not set
 * controlling tty" errors.
 */
if (!debug_flag && !inetd_flag && setsid() < 0)
    error("setsid: %.100s", strerror(errno));
#endif

if (rexec_flag) {
    int fd;

    debug("rexec start in %d out %d newsock %d pipe %d sock %d",
        sock_in, sock_out, newsock, startup_pipe, config_s[0]);
    dup2(newsock, STDIN_FILENO);
    dup2(STDIN_FILENO, STDOUT_FILENO);
    if (startup_pipe == -1)
        close(REEXEC_STARTUP_PIPE_FD);
}

```

```

else if (startup_pipe != REEXEC_STARTUP_PIPE_FD) {
    dup2(startup_pipe, REEXEC_STARTUP_PIPE_FD);
    close(startup_pipe);
    startup_pipe = REEXEC_STARTUP_PIPE_FD;
}

dup2(config_s[1], REEXEC_CONFIG_PASS_FD);
close(config_s[1]);

execv(rexec_argv[0], rexec_argv);

/* Reexec has failed, fall back and continue */
error("reexec of %s failed: %s", rexec_argv[0], strerror(errno));
recv_rexec_state(REEXEC_CONFIG_PASS_FD, NULL);
log_init(__progname, options.log_level,
         options.log_facility, log_stderr);

/* Clean up fds */
close(REEXEC_CONFIG_PASS_FD);
newsock = sock_out = sock_in = dup(STDIN_FILENO);
if ((fd = open(_PATH_DEVNULL, O_RDWR, 0)) != -1) {
    dup2(fd, STDIN_FILENO);
    dup2(fd, STDOUT_FILENO);
    if (fd > STDERR_FILENO)
        close(fd);
}
debug("reexec cleanup in %d out %d newsock %d pipe %d sock %d",
      sock_in, sock_out, newsock, startup_pipe, config_s[0]);
}

/* Executed child processes don't need these. */
fcntl(sock_out, F_SETFD, FD_CLOEXEC);
fcntl(sock_in, F_SETFD, FD_CLOEXEC);

/*
 * Disable the key regeneration alarm. We will not regenerate the
 * key since we are no longer in a position to give it to anyone. We
 * will not restart on SIGHUP since it no longer makes sense.
 */
alarm(0);
signal(SIGALRM, SIG_DFL);
signal(SIGHUP, SIG_DFL);
signal(SIGTERM, SIG_DFL);
signal(SIGQUIT, SIG_DFL);
signal(SIGCHLD, SIG_DFL);
signal(SIGINT, SIG_DFL);

/*

```

```

* Register our connection. This turns encryption off because we do
* not have a key.
*/
packet_set_connection(sock_in, sock_out);
packet_set_server();

/* Set SO_KEEPALIVE if requested. */
if (options.tcp_keep_alive && packet_connection_is_on_socket() &&
    setsockopt(sock_in, SOL_SOCKET, SO_KEEPALIVE, &on, sizeof(on)) < 0)
    error("setsockopt SO_KEEPALIVE: %.100s", strerror(errno));

if ((remote_port = get_remote_port()) < 0) {
    debug("get_remote_port failed");
    cleanup_exit(255);
}

/*
* We use get_canonical_hostname with usedns = 0 instead of
* get_remote_ipaddr here so IP options will be checked.
*/
(void) get_canonical_hostname(0);
/*
* The rest of the code depends on the fact that
* get_remote_ipaddr() caches the remote ip, even if
* the socket goes away.
*/
remote_ip = get_remote_ipaddr();

#ifdef SSH_AUDIT_EVENTS
    audit_connection_from(remote_ip, remote_port);
#endif

/* Log the connection. */
laddr = get_local_ipaddr(sock_in);
verbose("Connection from %s port %d on %s port %d",
    remote_ip, remote_port, laddr, get_local_port());
free(laddr);

/*
* We don't want to listen forever unless the other side
* successfully authenticates itself. So we set up an alarm which is
* cleared after successful authentication. A limit of zero
* indicates no limit. Note that we don't set the alarm in debugging
* mode; it is just annoying to have the server exit just when you
* are about to discover the bug.
*/
signal(SIGALRM, grace_alarm_handler);
if (!debug_flag)

```

```

alarm(options.login_grace_time);

sshd_exchange_identification(sock_in, sock_out);

/* In inetd mode, generate ephemeral key only for proto 1 connections */
if (!compat20 && inetd_flag && sensitive_data.server_key == NULL)
    generate_ephemeral_server_key();

packet_set_nonblocking();

/* allocate authentication context */
authctxt = xcalloc(1, sizeof(*authctxt));

authctxt->loginmsg = &loginmsg;

/* XXX global for cleanup, access from other modules */
the_authctxt = authctxt;

/* prepare buffer to collect messages to display to user after login */
buffer_init(&loginmsg);
auth_debug_reset();

if (use_privsep) {
    if (privsep_preauth(authctxt) == 1)
        goto authenticated;
    } else if (compat20 && have_agent) {
    if ((r = ssh_get_authentication_socket(&auth_sock)) != 0) {
        error("Unable to get agent socket: %s", ssh_err(r));
        have_agent = 0;
    }
}

/* perform the key exchange */
/* authenticate user and start session */
if (compat20) {
    do_ssh2_kex();
    do_authentication2(authctxt);
} else {
#ifdef WITH_SSH1
    do_ssh1_kex();
    do_authentication(authctxt);
#else
    fatal("ssh1 not supported");
#endif
}
/*
 * If we use privilege separation, the unprivileged child transfers
 * the current keystream and exits

```

```

*/
if (use_privsep) {
    mm_send_keystate(pmonitor);
    exit(0);
}

authenticated:
/*
 * Cancel the alarm we set to limit the time taken for
 * authentication.
 */
alarm(0);
signal(SIGALRM, SIG_DFL);
authctxt->authenticated = 1;
if (startup_pipe != -1) {
    close(startup_pipe);
    startup_pipe = -1;
}

#ifdef SSH_AUDIT_EVENTS
    audit_event(SSH_AUTH_SUCCESS);
#endif

#ifdef GSSAPI
    if (options.gss_authentication) {
        temporarily_use_uid(authctxt->pw);
        ssh_gssapi_storecreds();
        restore_uid();
    }
#endif

#ifdef USE_PAM
    if (options.use_pam) {
        do_pam_setcred(1);
        do_pam_session();
    }
#endif

/*
 * In privilege separation, we fork another child and prepare
 * file descriptor passing.
 */
if (use_privsep) {
    privsep_postauth(authctxt);
    /* the monitor process [priv] will not return */
    if (!compat20)
        destroy_sensitive_data();
}

```

```

packet_set_timeout(options.client_alive_interval,
    options.client_alive_count_max);

/* Try to send all our hostkeys to the client */
if (compat20)
    notify_hostkeys(active_state);

/* Start session. */
do_authenticated(authctxt);

/* The connection has been terminated. */
packet_get_bytes(&ibytes, &obytes);
verbose("Transferred: sent %llu, received %llu bytes",
    (unsigned long long)obytes, (unsigned long long)ibytes);

verbose("Closing connection to %.500s port %d", remote_ip, remote_port);

#ifdef USE_PAM
    if (options.use_pam)
        finish_pam();
#endif /* USE_PAM */

#ifdef SSH_AUDIT_EVENTS
    PRIVSEP(audit_event(SSH_CONNECTION_CLOSE));
#endif

packet_close();

if (use_privsep)
    mm_terminate();

exit(0);
}

#ifdef WITH_SSH1
/*
 * Decrypt session_key_int using our private server key and private host key
 * (key with larger modulus first).
 */
int
ssh1_session_key(BIGNUM *session_key_int)
{
    int rsafail = 0;

    if (BN_cmp(sensitive_data.server_key->rsa->n,
        sensitive_data.ssh1_host_key->rsa->n) > 0) {
        /* Server key has bigger modulus. */
        if (BN_num_bits(sensitive_data.server_key->rsa->n) <

```



```

    BN_num_bits(sensitive_data.ssh1_host_key->rsa->n) +
    SSH_KEY_BITS_RESERVED) {
fatal("do_connection: %s: "
    "server_key %d < host_key %d + SSH_KEY_BITS_RESERVED %d",
    get_remote_ipaddr(),
    BN_num_bits(sensitive_data.server_key->rsa->n),
    BN_num_bits(sensitive_data.ssh1_host_key->rsa->n),
    SSH_KEY_BITS_RESERVED);
}
if (rsa_private_decrypt(session_key_int, session_key_int,
    sensitive_data.server_key->rsa) != 0)
    rsafail++;
if (rsa_private_decrypt(session_key_int, session_key_int,
    sensitive_data.ssh1_host_key->rsa) != 0)
    rsafail++;
} else {
/* Host key has bigger modulus (or they are equal). */
if (BN_num_bits(sensitive_data.ssh1_host_key->rsa->n) <
    BN_num_bits(sensitive_data.server_key->rsa->n) +
    SSH_KEY_BITS_RESERVED) {
fatal("do_connection: %s: "
    "host_key %d < server_key %d + SSH_KEY_BITS_RESERVED %d",
    get_remote_ipaddr(),
    BN_num_bits(sensitive_data.ssh1_host_key->rsa->n),
    BN_num_bits(sensitive_data.server_key->rsa->n),
    SSH_KEY_BITS_RESERVED);
}
if (rsa_private_decrypt(session_key_int, session_key_int,
    sensitive_data.ssh1_host_key->rsa) != 0)
    rsafail++;
if (rsa_private_decrypt(session_key_int, session_key_int,
    sensitive_data.server_key->rsa) != 0)
    rsafail++;
}
return (rsafail);
}

/*
 * SSH1 key exchange
 */
static void
do_ssh1_kex(void)
{
    int i, len;
    int rsafail = 0;
    BIGNUM *session_key_int, *fake_key_int, *real_key_int;
    u_char session_key[SSH_SESSION_KEY_LENGTH];
    u_char fake_key_bytes[4096 / 8];

```

```

size_t fake_key_len;
u_char cookie[8];
u_int cipher_type, auth_mask, protocol_flags;

/*
 * Generate check bytes that the client must send back in the user
 * packet in order for it to be accepted; this is used to defy ip
 * spoofing attacks. Note that this only works against somebody
 * doing IP spoofing from a remote machine; any machine on the local
 * network can still see outgoing packets and catch the random
 * cookie. This only affects rhosts authentication, and this is one
 * of the reasons why it is inherently insecure.
 */
arc4random_buf(cookie, sizeof(cookie));

/*
 * Send our public key. We include in the packet 64 bits of random
 * data that must be matched in the reply in order to prevent IP
 * spoofing.
 */
packet_start(SSH_MSG_PUBLIC_KEY);
for (i = 0; i < 8; i++)
    packet_put_char(cookie[i]);

/* Store our public server RSA key. */
packet_put_int(BN_num_bits(sensitive_data.server_key->rsa->n));
packet_put_bignum(sensitive_data.server_key->rsa->e);
packet_put_bignum(sensitive_data.server_key->rsa->n);

/* Store our public host RSA key. */
packet_put_int(BN_num_bits(sensitive_data.ssh1_host_key->rsa->n));
packet_put_bignum(sensitive_data.ssh1_host_key->rsa->e);
packet_put_bignum(sensitive_data.ssh1_host_key->rsa->n);

/* Put protocol flags. */
packet_put_int(SSH_PROTOFLAG_HOST_IN_FWD_OPEN);

/* Declare which ciphers we support. */
packet_put_int(cipher_mask_ssh1(0));

/* Declare supported authentication types. */
auth_mask = 0;
if (options.rhosts_rsa_authentication)
    auth_mask |= 1 << SSH_AUTH_RHOSTS_RSA;
if (options.rsa_authentication)
    auth_mask |= 1 << SSH_AUTH_RSA;
if (options.challenge_response_authentication == 1)
    auth_mask |= 1 << SSH_AUTH_TIS;

```

```

if (options.password_authentication)
    auth_mask |= 1 << SSH_AUTH_PASSWORD;
packet_put_int(auth_mask);

/* Send the packet and wait for it to be sent. */
packet_send();
packet_write_wait();

debug("Sent %d bit server key and %d bit host key.",
    BN_num_bits(sensitive_data.server_key->rsa->n),
    BN_num_bits(sensitive_data.ssh1_host_key->rsa->n));

/* Read clients reply (cipher type and session key). */
packet_read_expect(SSH_CMSG_SESSION_KEY);

/* Get cipher type and check whether we accept this. */
cipher_type = packet_get_char();

if (!(cipher_mask_ssh1(0) & (1 << cipher_type)))
    packet_disconnect("Warning: client selects unsupported cipher.");

/* Get check bytes from the packet. These must match those we
   sent earlier with the public key packet. */
for (i = 0; i < 8; i++)
    if (cookie[i] != packet_get_char())
        packet_disconnect("IP Spoofing check bytes do not match.");

debug("Encryption type: %.200s", cipher_name(cipher_type));

/* Get the encrypted integer. */
if ((real_key_int = BN_new()) == NULL)
    fatal("do_ssh1_kex: BN_new failed");
packet_get_bignum(real_key_int);

protocol_flags = packet_get_int();
packet_set_protocol_flags(protocol_flags);
packet_check_eom();

/* Setup a fake key in case RSA decryption fails */
if ((fake_key_int = BN_new()) == NULL)
    fatal("do_ssh1_kex: BN_new failed");
fake_key_len = BN_num_bytes(real_key_int);
if (fake_key_len > sizeof(fake_key_bytes))
    fake_key_len = sizeof(fake_key_bytes);
arc4random_buf(fake_key_bytes, fake_key_len);
if (BN_bin2bn(fake_key_bytes, fake_key_len, fake_key_int) == NULL)
    fatal("do_ssh1_kex: BN_bin2bn failed");

```

```

/* Decrypt real_key_int using host/server keys */
rsafail = PRIVSEP(ssh1_session_key(real_key_int));
/* If decryption failed, use the fake key. Else, the real key. */
if (rsafail)
    session_key_int = fake_key_int;
else
    session_key_int = real_key_int;

/*
 * Extract session key from the decrypted integer. The key is in the
 * least significant 256 bits of the integer; the first byte of the
 * key is in the highest bits.
 */
(void) BN_mask_bits(session_key_int, sizeof(session_key) * 8);
len = BN_num_bytes(session_key_int);
if (len < 0 || (u_int)len > sizeof(session_key)) {
    error("do_ssh1_kex: bad session key len from %s: "
        "session_key_int %d > sizeof(session_key) %lu",
        get_remote_ipaddr(), len, (u_long)sizeof(session_key));
    rsafail++;
} else {
    explicit_bzero(session_key, sizeof(session_key));
    BN_bn2bin(session_key_int,
        session_key + sizeof(session_key) - len);

    derive_ssh1_session_id(
        sensitive_data.ssh1_host_key->rsa->n,
        sensitive_data.server_key->rsa->n,
        cookie, session_id);
/*
 * Xor the first 16 bytes of the session key with the
 * session id.
 */
for (i = 0; i < 16; i++)
    session_key[i] ^= session_id[i];
}

/* Destroy the private and public keys. No longer. */
destroy_sensitive_data();

if (use_privsep)
    mm_ssh1_session_id(session_id);

/* Destroy the decrypted integer. It is no longer needed. */
BN_clear_free(real_key_int);
BN_clear_free(fake_key_int);

/* Set the session key. From this on all communications will be encrypted. */

```

```
packet_set_encryption_key(session_key, SSH_SESSION_KEY_LENGTH, cipher_type);
```

```
/* Destroy our copy of the session key. It is no longer needed. */
```

```
explicit_bzero(session_key, sizeof(session_key));
```

```
debug("Received session key; encryption turned on.");
```

```
/* Send an acknowledgment packet. Note that this packet is sent encrypted. */
```

```
packet_start(SSH_SMSG_SUCCESS);
```

```
packet_send();
```

```
packet_write_wait();
```

```
}
```

```
#endif
```

```
int
```

```
ssh_hostkey_sign(Key *privkey, Key *pubkey, u_char **signature, size_t *slen,  
    const u_char *data, size_t dlen, const char *alg, u_int flag)
```

```
{
```

```
    int r;
```

```
    u_int xxx_slen, xxx_dlen = dlen;
```

```
    if (privkey) {
```

```
        if (PRIVSEP(key_sign(privkey, signature, &xxx_slen, data, xxx_dlen,  
            alg) < 0))
```

```
            fatal("%s: key_sign failed", __func__);
```

```
        if (slen)
```

```
            *slen = xxx_slen;
```

```
    } else if (use_privsep) {
```

```
        if (mm_key_sign(pubkey, signature, &xxx_slen, data, xxx_dlen,  
            alg) < 0)
```

```
            fatal("%s: pubkey_sign failed", __func__);
```

```
        if (slen)
```

```
            *slen = xxx_slen;
```

```
    } else {
```

```
        if ((r = ssh_agent_sign(auth_sock, pubkey, signature, slen,  
            data, dlen, alg, datafellows)) != 0)
```

```
            fatal("%s: ssh_agent_sign failed: %s",  
                __func__, ssh_err(r));
```

```
    }
```

```
    return 0;
```

```
}
```

```
/* SSH2 key exchange */
```

```
static void
```

```
do_ssh2_kex(void)
```

```
{
```

```
    char *myproposal[PROPOSAL_MAX] = { KEX_SERVER };
```

```
    struct kex *kex;
```

```

int r;

myproposal[PROPOSAL_KEX_ALGS] = compat_kex_proposal(
    options.kex_algorithms);
myproposal[PROPOSAL_ENC_ALGS_CTOS] = compat_cipher_proposal(
    options.ciphers);
myproposal[PROPOSAL_ENC_ALGS_STOC] = compat_cipher_proposal(
    options.ciphers);
myproposal[PROPOSAL_MAC_ALGS_CTOS] =
    myproposal[PROPOSAL_MAC_ALGS_STOC] = options.macs;

if (options.compression == COMP_NONE) {
    myproposal[PROPOSAL_COMP_ALGS_CTOS] =
    myproposal[PROPOSAL_COMP_ALGS_STOC] = "none";
} else if (options.compression == COMP_DELAYED) {
    myproposal[PROPOSAL_COMP_ALGS_CTOS] =
    myproposal[PROPOSAL_COMP_ALGS_STOC] = "none,zlib@openssh.com";
}

if (options.rekey_limit || options.rekey_interval)
    packet_set_rekey_limits(options.rekey_limit,
        (time_t)options.rekey_interval);

myproposal[PROPOSAL_SERVER_HOST_KEY_ALGS] = compat_pkalg_proposal(
    list_hostkey_types());

/* start key exchange */
if ((r = kex_setup(active_state, myproposal)) != 0)
    fatal("kex_setup: %s", ssh_err(r));
kex = active_state->kex;
#ifdef WITH_OPENSSL
kex->kex[KEX_DH_GRP1_SHA1] = kexdh_server;
kex->kex[KEX_DH_GRP14_SHA1] = kexdh_server;
kex->kex[KEX_DH_GEX_SHA1] = kexgex_server;
kex->kex[KEX_DH_GEX_SHA256] = kexgex_server;
# ifdef OPENSSL_HAS_ECC
kex->kex[KEX_ECDH_SHA2] = kexecdh_server;
# endif
#endif
kex->kex[KEX_C25519_SHA256] = kexc25519_server;
kex->server = 1;
kex->client_version_string=client_version_string;
kex->server_version_string=server_version_string;
kex->load_host_public_key=&get_hostkey_public_by_type;
kex->load_host_private_key=&get_hostkey_private_by_type;
kex->host_key_index=&get_hostkey_index;
kex->sign = sshd_hostkey_sign;

```

```

dispatch_run(DISPATCH_BLOCK, &kex->done, active_state);

session_id2 = kex->session_id;
session_id2_len = kex->session_id_len;

#ifdef DEBUG_KEXDH
/* send 1st encrypted/maced/compressed message */
packet_start(SSH2_MSG_IGNORE);
packet_put_cstring("markus");
packet_send();
packet_write_wait();
#endif
debug("KEX done");
}

/* server specific fatal cleanup */
void
cleanup_exit(int i)
{
if (the_authctxt) {
do_cleanup(the_authctxt);
if (use_privsep && privsep_is_preauth &&
    pmonitor != NULL && pmonitor->m_pid > 1) {
debug("Killing privsep child %d", pmonitor->m_pid);
if (kill(pmonitor->m_pid, SIGKILL) != 0 &&
    errno != ESRCH)
error("%s: kill(%d): %s", __func__,
    pmonitor->m_pid, strerror(errno));
}
}
}
#ifdef SSH_AUDIT_EVENTS
/* done after do_cleanup so it can cancel the PAM auth 'thread' */
if (!use_privsep || mm_is_monitor())
audit_event(SSH_CONNECTION_ABANDON);
#endif
_exit(i);
}
# $OpenBSD: sshd_config,v 1.98 2016/02/17 05:29:04 djm Exp $

# This is the sshd server system-wide configuration file. See
# sshd_config(5) for more information.

# This sshd was compiled with PATH=/usr/bin:/bin:/usr/sbin:/sbin

# The strategy used for options in the default sshd_config shipped with
# OpenSSH is to specify options with their default value where
# possible, but leave them commented. Uncommented options override the
# default value.

```

```
#Port 22
#AddressFamily any
#ListenAddress 0.0.0.0
#ListenAddress ::

# The default requires explicit activation of protocol 1
#Protocol 2

# HostKey for protocol version 1
#HostKey /etc/ssh/ssh_host_key
# HostKeys for protocol version 2
#HostKey /etc/ssh/ssh_host_rsa_key
#HostKey /etc/ssh/ssh_host_dsa_key
#HostKey /etc/ssh/ssh_host_ecdsa_key
#HostKey /etc/ssh/ssh_host_ed25519_key

# Lifetime and size of ephemeral version 1 server key
#KeyRegenerationInterval 1h
#ServerKeyBits 1024

# Ciphers and keying
#RekeyLimit default none

# Logging
# obsoletes QuietMode and FascistLogging
#SyslogFacility AUTH
#LogLevel INFO

# Authentication:

#LoginGraceTime 2m
#PermitRootLogin prohibit-password
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10

#RSAAuthentication yes
#PubkeyAuthentication yes

# The default is to check both .ssh/authorized_keys and .ssh/authorized_keys2
# but this is overridden so installations will only check .ssh/authorized_keys
AuthorizedKeysFile .ssh/authorized_keys

#AuthorizedPrincipalsFile none

#AuthorizedKeysCommand none
#AuthorizedKeysCommandUser nobody
```



```
# For this to work you will also need host keys in /etc/ssh/ssh_known_hosts
#RhostsRSAAuthentication no
# similar for protocol version 2
#HostbasedAuthentication no
# Change to yes if you don't trust ~/.ssh/known_hosts for
# RhostsRSAAuthentication and HostbasedAuthentication
#IgnoreUserKnownHosts no
# Don't read the user's ~/.rhosts and ~/.shosts files
#IgnoreRhosts yes

# To disable tunneled clear text passwords, change to no here!
#PasswordAuthentication yes
#PermitEmptyPasswords no

# Change to no to disable s/key passwords
#ChallengeResponseAuthentication yes

# Kerberos options
#KerberosAuthentication no
#KerberosOrLocalPasswd yes
#KerberosTicketCleanup yes
#KerberosGetAFSToken no

# GSSAPI options
#GSSAPIAuthentication no
#GSSAPICleanupCredentials yes

# Set this to 'yes' to enable PAM authentication, account processing,
# and session processing. If this is enabled, PAM authentication will
# be allowed through the ChallengeResponseAuthentication and
# PasswordAuthentication. Depending on your PAM configuration,
# PAM authentication via ChallengeResponseAuthentication may bypass
# the setting of "PermitRootLogin without-password".
# If you just want the PAM account and session checks to run without
# PAM authentication, then enable this but set PasswordAuthentication
# and ChallengeResponseAuthentication to 'no'.
#UsePAM no

#AllowAgentForwarding yes
#AllowTcpForwarding yes
#GatewayPorts no
#X11Forwarding no
#X11DisplayOffset 10
#X11UseLocalhost yes
#PermitTTY yes
#PrintMotd yes
#PrintLastLog yes
```

```

#TCPKeepAlive yes
#UseLogin no
#UsePrivilegeSeparation sandbox
#PermitUserEnvironment no
#Compression delayed
#ClientAliveInterval 0
#ClientAliveCountMax 3
#UseDNS no
#PidFile /var/run/sshd.pid
#MaxStartups 10:30:100
#PermitTunnel no
#ChrootDirectory none
#VersionAddendum none

# no default banner path
#Banner none

# override default of no subsystems
Subsystem sftp /usr/libexec/sftp-server

# Example of overriding settings on a per-user basis
#Match User anoncvs
# X11Forwarding no
# AllowTcpForwarding no
# PermitTTY no
# ForceCommand cvs server
SSHD_CONFIG(5)          File Formats Manual          SSHD_CONFIG(5)

```

## NAME

sshd\_config M-bM-^@M-^S OpenSSH SSH daemon configuration file

## SYNOPSIS

/etc/ssh/sshd\_config

## DESCRIPTION

sshd(8) reads configuration data from /etc/ssh/sshd\_config (or the file specified with -f on the command line). The file contains keyword-argument pairs, one per line. Lines starting with M-bM-^@M-^X#M-bM-^@M-^Y and empty lines are interpreted as comments. Arguments may optionally be enclosed in double quotes (") in order to represent arguments containing spaces.

The possible keywords and their meanings are as follows (note that keywords are case-insensitive and arguments are case-sensitive):

### AcceptEnv

Specifies what environment variables sent by the client will be copied into the session's environ(7). See SendEnv in ssh\_config(5) for how to configure the client. The TERM

environment variable is always sent whenever the client requests a pseudo-terminal as it is required by the protocol. Variables are specified by name, which may contain the wildcard characters `M-bM-^@M-^X*M-bM-^@M-^Y` and `M-bM-^@M-^X?M-bM-^@M-^Y`. Multiple environment variables may be separated by whitespace or spread across multiple `AcceptEnv` directives. Be warned that some environment variables could be used to bypass restricted user environments. For this reason, care should be taken in the use of this directive. The default is not to accept any environment variables.

#### AddressFamily

Specifies which address family should be used by `sshd(8)`. Valid arguments are `M-bM-^@M-^anyM-bM-^@M-^]`, `M-bM-^@M-^inetM-bM-^@M-^]` (use IPv4 only), or `M-bM-^@M-^inet6M-bM-^@M-^]` (use IPv6 only). The default is `M-bM-^@M-^anyM-bM-^@M-^]`.

#### AllowAgentForwarding

Specifies whether `ssh-agent(1)` forwarding is permitted. The default is `M-bM-^@M-^yesM-bM-^@M-^]`. Note that disabling agent forwarding does not improve security unless users are also denied shell access, as they can always install their own forwarders.

#### AllowGroups

This keyword can be followed by a list of group name patterns, separated by spaces. If specified, login is allowed only for users whose primary group or supplementary group list matches one of the patterns. Only group names are valid; a numerical group ID is not recognized. By default, login is allowed for all groups. The `allow/deny` directives are processed in the following order: `DenyUsers`, `AllowUsers`, `DenyGroups`, and finally `AllowGroups`.

See PATTERNS in `ssh_config(5)` for more information on patterns.

#### AllowTcpForwarding

Specifies whether TCP forwarding is permitted. The available options are `M-bM-^@M-^yesM-bM-^@M-^]` or `M-bM-^@M-^allM-bM-^@M-^]` to allow TCP forwarding, `M-bM-^@M-^noM-bM-^@M-^]` to prevent all TCP forwarding, `M-bM-^@M-^localM-bM-^@M-^]` to allow local (from the perspective of `ssh(1)`) forwarding only or `M-bM-^@M-^remoteM-bM-^@M-^]` to allow remote forwarding only. The default is `M-bM-^@M-^yesM-bM-^@M-^]`. Note that disabling TCP forwarding does not improve security unless users are also denied shell access, as they can always install their own forwarders.

#### AllowStreamLocalForwarding

Specifies whether `StreamLocal` (Unix-domain socket) forwarding is

permitted. The available options are `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\allM-bM-^@M-^]` to allow

StreamLocal forwarding, `M-bM-^@M-^\noM-bM-^@M-^]` to prevent all StreamLocal forwarding, `M-bM-^@M-^\localM-bM-^@M-^]` to allow local (from the perspective of `ssh(1)`) forwarding only or `M-bM-^@M-^\remoteM-bM-^@M-^]` to allow remote forwarding only. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`. Note that disabling StreamLocal forwarding does not improve security unless users are also denied shell access, as they can always install their own forwarders.

#### AllowUsers

This keyword can be followed by a list of user name patterns, separated by spaces. If specified, login is allowed only for user names that match one of the patterns. Only user names are valid; a numerical user ID is not recognized. By default, login is allowed for all users. If the pattern takes the form `USER@HOST` then `USER` and `HOST` are separately checked, restricting logins to particular users from particular hosts. The allow/deny directives are processed in the following order: `DenyUsers`, `AllowUsers`, `DenyGroups`, and finally `AllowGroups`.

See PATTERNS in `ssh_config(5)` for more information on patterns.

#### AuthenticationMethods

Specifies the authentication methods that must be successfully completed for a user to be granted access. This option must be followed by one or more comma-separated lists of authentication method names. Successful authentication requires completion of every method in at least one of these lists.

For example, an argument of `M-bM-^@M-^\publickey,password publickey,keyboard-interactiveM-bM-^@M-^]` would require the user to complete public key authentication, followed by either password or keyboard interactive authentication. Only methods that are next in one or more lists are offered at each stage, so for this example, it would not be possible to attempt password or keyboard-interactive authentication before public key.

For keyboard interactive authentication it is also possible to restrict authentication to a specific device by appending a colon followed by the device identifier `M-bM-^@M-^\bsdauthM-bM-^@M-^]`, `M-bM-^@M-^\pamM-bM-^@M-^]`, or `M-bM-^@M-^\skkeyM-bM-^@M-^]`,

depending on the server configuration. For example, `M-bM-^@M-^\keyboard-interactive:bsdauthM-bM-^@M-^]` would restrict keyboard interactive authentication to the `M-bM-^@M-^\bsdauthM-bM-^@M-^]` device.

If the `M-bM-^@M-^\publickeyM-bM-^@M-^]` method is listed more than once, `sshd(8)` verifies that keys that have been used successfully are not reused for subsequent authentications. For example, an

AuthenticationMethods of M-bM-^@M-^[\publickey,publickeyM-bM-^@M-^] will require successful authentication using two different public keys.

This option will yield a fatal error if enabled if protocol 1 is also enabled. Note that each authentication method listed should also be explicitly enabled in the configuration. The default is not to require multiple authentication; successful completion of a single authentication method is sufficient.

#### AuthorizedKeysCommand

Specifies a program to be used to look up the user's public keys. The program must be owned by root, not writable by group or others and specified by an absolute path.

Arguments to AuthorizedKeysCommand may be provided using the following tokens, which will be expanded at runtime: %% is replaced by a literal '%', %u is replaced by the username being authenticated, %h is replaced by the home directory of the user being authenticated, %t is replaced with the key type offered for authentication, %f is replaced with the fingerprint of the key, and %k is replaced with the key being offered for authentication. If no arguments are specified then the username of the target user will be supplied.

The program should produce on standard output zero or more lines of authorized\_keys output (see AUTHORIZED\_KEYS in sshd(8)). If a key supplied by AuthorizedKeysCommand does not successfully authenticate and authorize the user then public key authentication continues using the usual AuthorizedKeysFile files. By default, no AuthorizedKeysCommand is run.

#### AuthorizedKeysCommandUser

Specifies the user under whose account the AuthorizedKeysCommand is run. It is recommended to use a dedicated user that has no other role on the host than running authorized keys commands. If AuthorizedKeysCommand is specified but AuthorizedKeysCommandUser is not, then sshd(8) will refuse to start.

#### AuthorizedKeysFile

Specifies the file that contains the public keys that can be used for user authentication. The format is described in the AUTHORIZED\_KEYS FILE FORMAT section of sshd(8). AuthorizedKeysFile may contain tokens of the form %T which are substituted during connection setup. The following tokens are defined: %% is replaced by a literal '%', %h is replaced by the home directory of the user being authenticated, and %u is replaced by the username of that user. After expansion, AuthorizedKeysFile is taken to be an absolute path or one

relative to the user's home directory. Multiple files may be listed, separated by whitespace. Alternately this option may be set to `M-bM-^@M-^\noneM-bM-^@M-^]` to skip checking for user keys in files. The default is `M-bM-^@M-^\.ssh/authorized_keys .ssh/authorized_keys2M-bM-^@M-^]`.

#### AuthorizedPrincipalsCommand

Specifies a program to be used to generate the list of allowed certificate principals as per `AuthorizedPrincipalsFile`. The program must be owned by root, not writable by group or others and specified by an absolute path.

Arguments to `AuthorizedPrincipalsCommand` may be provided using the following tokens, which will be expanded at runtime: `%%` is replaced by a literal `'%'`, `%u` is replaced by the username being authenticated and `%h` is replaced by the home directory of the user being authenticated.

The program should produce on standard output zero or more lines of `AuthorizedPrincipalsFile` output. If either `AuthorizedPrincipalsCommand` or `AuthorizedPrincipalsFile` is specified, then certificates offered by the client for authentication must contain a principal that is listed. By default, no `AuthorizedPrincipalsCommand` is run.

#### AuthorizedPrincipalsCommandUser

Specifies the user under whose account the `AuthorizedPrincipalsCommand` is run. It is recommended to use a dedicated user that has no other role on the host than running authorized principals commands. If `AuthorizedPrincipalsCommand` is specified but `AuthorizedPrincipalsCommandUser` is not, then `sshd(8)` will refuse to start.

#### AuthorizedPrincipalsFile

Specifies a file that lists principal names that are accepted for certificate authentication. When using certificates signed by a key listed in `TrustedUserCAKeys`, this file lists names, one of which must appear in the certificate for it to be accepted for authentication. Names are listed one per line preceded by key options (as described in `AUTHORIZED_KEYS FILE FORMAT` in `sshd(8)`). Empty lines and comments starting with `M-bM-^@M-^X#M-bM-^@M-^Y` are ignored.

`AuthorizedPrincipalsFile` may contain tokens of the form `%T` which are substituted during connection setup. The following tokens are defined: `%%` is replaced by a literal `'%'`, `%h` is replaced by the home directory of the user being authenticated, and `%u` is replaced by the username of that user. After expansion, `AuthorizedPrincipalsFile` is taken to be an absolute path or one relative to the user's home directory.

The default is `M-bM-^@M-^\noneM-bM-^@M-^]`, i.e. not to use a principals file `M-bM-^@M-^S` in this case, the username of the user must appear in a certificate's principals list for it to be accepted. Note that `AuthorizedPrincipalsFile` is only used when authentication proceeds using a CA listed in `TrustedUserCAKeys` and is not consulted for certification authorities trusted via `~/.ssh/authorized_keys`, though the `principals=` key option offers a similar facility (see `sshd(8)` for details).

**Banner** The contents of the specified file are sent to the remote user before authentication is allowed. If the argument is `M-bM-^@M-^\noneM-bM-^@M-^]` then no banner is displayed. By default, no banner is displayed.

#### ChallengeResponseAuthentication

Specifies whether challenge-response authentication is allowed (e.g. via PAM or through authentication styles supported in `login.conf(5)`) The default is `M-bM-^@M-^\yesM-bM-^@M-^]`.

#### ChrootDirectory

Specifies the pathname of a directory to `chroot(2)` to after authentication. At session startup `sshd(8)` checks that all components of the pathname are root-owned directories which are not writable by any other user or group. After the `chroot`, `sshd(8)` changes the working directory to the user's home directory.

The pathname may contain the following tokens that are expanded at runtime once the connecting user has been authenticated: `%%` is replaced by a literal `'%'`, `%h` is replaced by the home directory of the user being authenticated, and `%u` is replaced by the username of that user.

The `ChrootDirectory` must contain the necessary files and directories to support the user's session. For an interactive session this requires at least a shell, typically `sh(1)`, and basic `/dev` nodes such as `null(4)`, `zero(4)`, `stdin(4)`, `stdout(4)`, `stderr(4)`, and `tty(4)` devices. For file transfer sessions using `M-bM-^@M-^\sftpM-bM-^@M-^]`, no additional configuration of the environment is necessary if the in-process sftp server is used, though sessions which use logging may require `/dev/log` inside the `chroot` directory on some operating systems (see `sftp-server(8)` for details).

For safety, it is very important that the directory hierarchy be prevented from modification by other processes on the system (especially those outside the jail). Misconfiguration can lead to unsafe environments which `sshd(8)` cannot detect.

The default is `M-bM-^@M-^\noneM-bM-^@M-^]`, indicating not to chroot(2).

## Ciphers

Specifies the ciphers allowed. Multiple ciphers must be comma-separated. If the specified value begins with a `M-bM-^@M-^X+M-bM-^@M-^Y` character, then the specified ciphers will be appended to the default set instead of replacing them.

The supported ciphers are:

```
3des-cbc
aes128-cbc
aes192-cbc
aes256-cbc
aes128-ctr
aes192-ctr
aes256-ctr
aes128-gcm@openssh.com
aes256-gcm@openssh.com
arcfour
arcfour128
arcfour256
blowfish-cbc
cast128-cbc
chacha20-poly1305@openssh.com
```

The default is:

```
chacha20-poly1305@openssh.com,
aes128-ctr,aes192-ctr,aes256-ctr,
aes128-gcm@openssh.com,aes256-gcm@openssh.com
```

The list of available ciphers may also be obtained using the `-Q` option of `ssh(1)` with an argument of `M-bM-^@M-^\cipherM-bM-^@M-^]`.

## ClientAliveCountMax

Sets the number of client alive messages (see below) which may be sent without `sshd(8)` receiving any messages back from the client.

If this threshold is reached while client alive messages are being sent, `sshd` will disconnect the client, terminating the session. It is important to note that the use of client alive messages is very different from `TCPKeepAlive` (below). The client alive messages are sent through the encrypted channel and therefore will not be spoofable. The `TCP` keepalive option enabled by `TCPKeepAlive` is spoofable. The client alive mechanism is valuable when the client or server depend on knowing when a connection has become inactive.



The default value is 3. If ClientAliveInterval (see below) is set to 15, and ClientAliveCountMax is left at the default, unresponsive SSH clients will be disconnected after approximately 45 seconds.

#### ClientAliveInterval

Sets a timeout interval in seconds after which if no data has been received from the client, sshd(8) will send a message through the encrypted channel to request a response from the client. The default is 0, indicating that these messages will not be sent to the client.

#### Compression

Specifies whether compression is allowed, or delayed until the user has authenticated successfully. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]`, `M-bM-^@M-^\delayedM-bM-^@M-^]`, or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is `M-bM-^@M-^\delayedM-bM-^@M-^]`.

#### DenyGroups

This keyword can be followed by a list of group name patterns, separated by spaces. Login is disallowed for users whose primary group or supplementary group list matches one of the patterns. Only group names are valid; a numerical group ID is not recognized. By default, login is allowed for all groups. The allow/deny directives are processed in the following order: DenyUsers, AllowUsers, DenyGroups, and finally AllowGroups.

See PATTERNS in ssh\_config(5) for more information on patterns.

#### DenyUsers

This keyword can be followed by a list of user name patterns, separated by spaces. Login is disallowed for user names that match one of the patterns. Only user names are valid; a numerical user ID is not recognized. By default, login is allowed for all users. If the pattern takes the form USER@HOST then USER and HOST are separately checked, restricting logins to particular users from particular hosts. The allow/deny directives are processed in the following order: DenyUsers, AllowUsers, DenyGroups, and finally AllowGroups.

See PATTERNS in ssh\_config(5) for more information on patterns.

#### FingerprintHash

Specifies the hash algorithm used when logging key fingerprints.

Valid options are: `M-bM-^@M-^\md5M-bM-^@M-^]` and `M-bM-^@M-^\sha256M-bM-^@M-^]`. The default is `M-bM-^@M-^\sha256M-bM-^@M-^]`.

## ForceCommand

Forces the execution of the command specified by ForceCommand, ignoring any command supplied by the client and ~/.ssh/rc if present. The command is invoked by using the user's login shell with the -c option. This applies to shell, command, or subsystem execution. It is most useful inside a Match block. The command originally supplied by the client is available in the SSH\_ORIGINAL\_COMMAND environment variable. Specifying a command of M-bM-^@M-^\internal-sftpM-bM-^@M-^] will force the use of an in-process sftp server that requires no support files when used with ChrootDirectory. The default is M-bM-^@M-^\noneM-bM-^@M-^].

## GatewayPorts

Specifies whether remote hosts are allowed to connect to ports forwarded for the client. By default, sshd(8) binds remote port forwardings to the loopback address. This prevents other remote hosts from connecting to forwarded ports. GatewayPorts can be used to specify that sshd should allow remote port forwardings to bind to non-loopback addresses, thus allowing other hosts to connect. The argument may be M-bM-^@M-^\noM-bM-^@M-^] to force remote port forwardings to be available to the local host only, M-bM-^@M-^\yesM-bM-^@M-^] to force remote port forwardings to bind to the wildcard address, or M-bM-^@M-^\clientspecifiedM-bM-^@M-^] to allow the client to select the address to which the forwarding is bound. The default is M-bM-^@M-^\noM-bM-^@M-^].

## GSSAPIAuthentication

Specifies whether user authentication based on GSSAPI is allowed. The default is M-bM-^@M-^\noM-bM-^@M-^].

## GSSAPICleanupCredentials

Specifies whether to automatically destroy the user's credentials cache on logout. The default is M-bM-^@M-^\yesM-bM-^@M-^].

## GSSAPIStrictAcceptorCheck

Determines whether to be strict about the identity of the GSSAPI acceptor a client authenticates against. If set to M-bM-^@M-^\yesM-bM-^@M-^] then the client must authenticate against the host service on the current hostname. If set to M-bM-^@M-^\noM-bM-^@M-^] then the client may authenticate against any service key stored in the machine's default store. This facility is provided to assist with operation on multi homed machines. The default is M-bM-^@M-^\yesM-bM-^@M-^].

## HostbasedAcceptedKeyTypes

Specifies the key types that will be accepted for hostbased authentication as a comma-separated pattern list. Alternately if the specified value begins with a M-bM-^@M-^X+M-bM-^@M-^Y character, then the specified key types will be appended to the default set instead of replacing them. The default for this option is:

ecdsa-sha2-nistp256-cert-v01@openssh.com,  
ecdsa-sha2-nistp384-cert-v01@openssh.com,  
ecdsa-sha2-nistp521-cert-v01@openssh.com,  
ssh-ed25519-cert-v01@openssh.com,  
ssh-rsa-cert-v01@openssh.com,  
ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,  
ssh-ed25519,ssh-rsa

The -Q option of ssh(1) may be used to list supported key types.

#### HostbasedAuthentication

Specifies whether rhosts or /etc/hosts.equiv authentication together with successful public key client host authentication is allowed (host-based authentication). The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### HostbasedUsesNameFromPacketOnly

Specifies whether or not the server will attempt to perform a reverse name lookup when matching the name in the ~/.shosts, ~/.rhosts, and /etc/hosts.equiv files during HostbasedAuthentication. A setting of `M-bM-^@M-^\yesM-bM-^@M-^]` means that sshd(8) uses the name supplied by the client rather than attempting to resolve the name from the TCP connection itself. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### HostCertificate

Specifies a file containing a public host certificate. The certificate's public key must match a private host key already specified by HostKey. The default behaviour of sshd(8) is not to load any certificates.

#### HostKey

Specifies a file containing a private host key used by SSH. The default is /etc/ssh/ssh\_host\_key for protocol version 1, and /etc/ssh/ssh\_host\_dsa\_key, /etc/ssh/ssh\_host\_ecdsa\_key, /etc/ssh/ssh\_host\_ed25519\_key and /etc/ssh/ssh\_host\_rsa\_key for protocol version 2.

Note that sshd(8) will refuse to use a file if it is group/world-accessible and that the HostKeyAlgorithms option restricts which of the keys are actually used by sshd(8).

It is possible to have multiple host key files. `M-bM-^@M-^\rsa1M-bM-^@M-^]` keys are used for version 1 and `M-bM-^@M-^\dsaM-bM-^@M-^]`, `M-bM-^@M-^\ecdsaM-bM-^@M-^]`, `M-bM-^@M-^\ed25519M-bM-^@M-^]` or `M-bM-^@M-^\rsaM-bM-^@M-^]` are used for version 2 of the SSH protocol. It is also possible to specify public host key files instead. In this case operations on the private key will be delegated to an ssh-agent(1).

## HostKeyAgent

Identifies the UNIX-domain socket used to communicate with an agent that has access to the private host keys. If

`M-bM-^@M-^\SSH_AUTH_SOCKETM-bM-^@M-^]` is specified, the location of the socket will be read from the `SSH_AUTH_SOCKET` environment variable.

## HostKeyAlgorithms

Specifies the host key algorithms that the server offers. The default for this option is:

```
ecdsa-sha2-nistp256-cert-v01@openssh.com,  
ecdsa-sha2-nistp384-cert-v01@openssh.com,  
ecdsa-sha2-nistp521-cert-v01@openssh.com,  
ssh-ed25519-cert-v01@openssh.com,  
ssh-rsa-cert-v01@openssh.com,  
ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,  
ssh-ed25519,ssh-rsa
```

The list of available key types may also be obtained using the `-Q` option of `ssh(1)` with an argument of `M-bM-^@M-^\keyM-bM-^@M-^]`.

## IgnoreRhosts

Specifies that `.rhosts` and `.shosts` files will not be used in `RhostsRSAAuthentication` or `HostbasedAuthentication`.

`/etc/hosts.equiv` and `/etc/shosts.equiv` are still used. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`.

## IgnoreUserKnownHosts

Specifies whether `sshd(8)` should ignore the user's `~/.ssh/known_hosts` during `RhostsRSAAuthentication` or `HostbasedAuthentication`. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

**IPQoS** Specifies the IPv4 type-of-service or DSCP class for the connection. Accepted values are `M-bM-^@M-^\af11M-bM-^@M-^]`, `M-bM-^@M-^\af12M-bM-^@M-^]`, `M-bM-^@M-^\af13M-bM-^@M-^]`, `M-bM-^@M-^\af21M-bM-^@M-^]`, `M-bM-^@M-^\af22M-bM-^@M-^]`, `M-bM-^@M-^\af23M-bM-^@M-^]`, `M-bM-^@M-^\af31M-bM-^@M-^]`, `M-bM-^@M-^\af32M-bM-^@M-^]`, `M-bM-^@M-^\af33M-bM-^@M-^]`, `M-bM-^@M-^\af41M-bM-^@M-^]`, `M-bM-^@M-^\af42M-bM-^@M-^]`, `M-bM-^@M-^\af43M-bM-^@M-^]`, `M-bM-^@M-^\cs0M-bM-^@M-^]`, `M-bM-^@M-^\cs1M-bM-^@M-^]`, `M-bM-^@M-^\cs2M-bM-^@M-^]`, `M-bM-^@M-^\cs3M-bM-^@M-^]`, `M-bM-^@M-^\cs4M-bM-^@M-^]`, `M-bM-^@M-^\cs5M-bM-^@M-^]`, `M-bM-^@M-^\cs6M-bM-^@M-^]`, `M-bM-^@M-^\cs7M-bM-^@M-^]`, `M-bM-^@M-^\efM-bM-^@M-^]`, `M-bM-^@M-^\lowdelayM-bM-^@M-^]`, `M-bM-^@M-^\throughputM-bM-^@M-^]`, `M-bM-^@M-^\reliabilityM-bM-^@M-^]`, or a numeric value.

This option may take one or two arguments, separated by whitespace. If one argument is specified, it is used as the packet class unconditionally. If two values are specified, the

first is automatically selected for interactive sessions and the second for non-interactive sessions. The default is `M-bM-^@M-^\lowdelayM-bM-^@M-^]` for interactive sessions and `M-bM-^@M-^\throughputM-bM-^@M-^]` for non-interactive sessions.

#### KbdInteractiveAuthentication

Specifies whether to allow keyboard-interactive authentication.

The argument to this keyword must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. The default

is to use whatever value `ChallengeResponseAuthentication` is set to (by default `M-bM-^@M-^\yesM-bM-^@M-^]`).

#### KerberosAuthentication

Specifies whether the password provided by the user for `PasswordAuthentication` will be validated through the Kerberos KDC. To use this option, the server needs a Kerberos servtab which allows the verification of the KDC's identity. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### KerberosGetAFSToken

If AFS is active and the user has a Kerberos 5 TGT, attempt to acquire an AFS token before accessing the user's home directory. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### KerberosOrLocalPasswd

If password authentication through Kerberos fails then the password will be validated via any additional local mechanism such as `/etc/passwd`. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`.

#### KerberosTicketCleanup

Specifies whether to automatically destroy the user's ticket cache file on logout. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`.

#### KexAlgorithms

Specifies the available KEX (Key Exchange) algorithms. Multiple algorithms must be comma-separated. Alternately if the specified value begins with a `M-bM-^@M-^X+M-bM-^@M-^Y` character, then the specified methods will be appended to the default set instead of replacing them.

The supported algorithms are:

```
curve25519-sha256@libssh.org
diffie-hellman-group1-sha1
diffie-hellman-group14-sha1
diffie-hellman-group-exchange-sha1
diffie-hellman-group-exchange-sha256
ecdh-sha2-nistp256
ecdh-sha2-nistp384
ecdh-sha2-nistp521
```

The default is:

```
curve25519-sha256@libssh.org,  
ecdh-sha2-nistp256,ecdh-sha2-nistp384,ecdh-sha2-nistp521,  
diffie-hellman-group-exchange-sha256,  
diffie-hellman-group14-sha1
```

The list of available key exchange algorithms may also be obtained using the `-Q` option of `ssh(1)` with an argument of `M-bM-^@M-^kexM-bM-^@M-^`.

#### KeyRegenerationInterval

In protocol version 1, the ephemeral server key is automatically regenerated after this many seconds (if it has been used). The purpose of regeneration is to prevent decrypting captured sessions by later breaking into the machine and stealing the keys. The key is never stored anywhere. If the value is 0, the key is never regenerated. The default is 3600 (seconds).

#### ListenAddress

Specifies the local addresses `sshd(8)` should listen on. The following forms may be used:

```
ListenAddress host|IPv4_addr|IPv6_addr  
ListenAddress host|IPv4_addr:port  
ListenAddress [host|IPv6_addr]:port
```

If port is not specified, `sshd` will listen on the address and all Port options specified. The default is to listen on all local addresses. Multiple `ListenAddress` options are permitted.

#### LoginGraceTime

The server disconnects after this time if the user has not successfully logged in. If the value is 0, there is no time limit. The default is 120 seconds.

#### LogLevel

Gives the verbosity level that is used when logging messages from `sshd(8)`. The possible values are: QUIET, FATAL, ERROR, INFO, VERBOSE, DEBUG, DEBUG1, DEBUG2, and DEBUG3. The default is INFO. DEBUG and DEBUG1 are equivalent. DEBUG2 and DEBUG3 each specify higher levels of debugging output. Logging with a DEBUG level violates the privacy of users and is not recommended.

**MACs** Specifies the available MAC (message authentication code) algorithms. The MAC algorithm is used for data integrity protection. Multiple algorithms must be comma-separated. If the specified value begins with a `M-bM-^@M-^X+M-bM-^@M-^Y` character, then the specified

algorithms will be appended to the default set instead of replacing them.

The algorithms that contain M-bM-^@M-^\-etmM-bM-^@M-^] calculate the MAC after encryption (encrypt-then-mac). These are considered safer and their use recommended. The supported MACs are:

```
hmac-md5
hmac-md5-96
hmac-ripemd160
hmac-sha1
hmac-sha1-96
hmac-sha2-256
hmac-sha2-512
umac-64@openssh.com
umac-128@openssh.com
hmac-md5-etm@openssh.com
hmac-md5-96-etm@openssh.com
hmac-ripemd160-etm@openssh.com
hmac-sha1-etm@openssh.com
hmac-sha1-96-etm@openssh.com
hmac-sha2-256-etm@openssh.com
hmac-sha2-512-etm@openssh.com
umac-64-etm@openssh.com
umac-128-etm@openssh.com
```

The default is:

```
umac-64-etm@openssh.com,umac-128-etm@openssh.com,
hmac-sha2-256-etm@openssh.com,hmac-sha2-512-etm@openssh.com,
hmac-sha1-etm@openssh.com,
umac-64@openssh.com,umac-128@openssh.com,
hmac-sha2-256,hmac-sha2-512,hmac-sha1
```

The list of available MAC algorithms may also be obtained using the -Q option of ssh(1) with an argument of M-bM-^@M-^\macM-bM-^@M-^].

**Match** Introduces a conditional block. If all of the criteria on the Match line are satisfied, the keywords on the following lines override those set in the global section of the config file, until either another Match line or the end of the file. If a keyword appears in multiple Match blocks that are satisfied, only the first instance of the keyword is applied.

The arguments to Match are one or more criteria-pattern pairs or the single token All which matches all criteria. The available criteria are User, Group, Host, LocalAddress, LocalPort, and Address. The match patterns may consist of single entries or

comma-separated lists and may use the wildcard and negation operators described in the PATTERNS section of ssh\_config(5).

The patterns in an Address criteria may additionally contain addresses to match in CIDR address/masklen format, e.g.

M-bM-^@M-^\192.0.2.0/24M-bM-^@M-^] or M-bM-^@M-^\3ffe:ffff::/32M-bM-^@M-^]. Note that the mask length

provided must be consistent with the address - it is an error to specify a mask length that is too long for the address or one with bits set in this host portion of the address. For example, M-bM-^@M-^\192.0.2.0/33M-bM-^@M-^] and M-bM-^@M-^\192.0.2.0/8M-bM-^@M-^] respectively.

Only a subset of keywords may be used on the lines following a Match keyword. Available keywords are AcceptEnv, AllowAgentForwarding, AllowGroups, AllowStreamLocalForwarding, AllowTcpForwarding, AllowUsers, AuthenticationMethods, AuthorizedKeysCommand, AuthorizedKeysCommandUser, AuthorizedKeysFile, AuthorizedPrincipalsCommand, AuthorizedPrincipalsCommandUser, AuthorizedPrincipalsFile, Banner, ChrootDirectory, DenyGroups, DenyUsers, ForceCommand, GatewayPorts, GSSAPIAuthentication, HostbasedAcceptedKeyTypes, HostbasedAuthentication, HostbasedUsesNameFromPacketOnly, IPQoS, KbdInteractiveAuthentication, KerberosAuthentication, MaxAuthTries, MaxSessions, PasswordAuthentication, PermitEmptyPasswords, PermitOpen, PermitRootLogin, PermitTTY, PermitTunnel, PermitUserRC, PubkeyAcceptedKeyTypes, PubkeyAuthentication, RekeyLimit, RevokedKeys, RhostsRSAAuthentication, RSAAuthentication, StreamLocalBindMask, StreamLocalBindUnlink, TrustedUserCAKeys, X11DisplayOffset, X11Forwarding and X11UseLocalHost.

#### MaxAuthTries

Specifies the maximum number of authentication attempts permitted per connection. Once the number of failures reaches half this value, additional failures are logged. The default is 6.

#### MaxSessions

Specifies the maximum number of open shell, login or subsystem (e.g. sftp) sessions permitted per network connection. Multiple sessions may be established by clients that support connection multiplexing. Setting MaxSessions to 1 will effectively disable session multiplexing, whereas setting it to 0 will prevent all shell, login and subsystem sessions while still permitting forwarding. The default is 10.

#### MaxStartups

Specifies the maximum number of concurrent unauthenticated connections to the SSH daemon. Additional connections will be



dropped until authentication succeeds or the LoginGraceTime expires for a connection. The default is 10:30:100.

Alternatively, random early drop can be enabled by specifying the three colon separated values `M-bM-^@M-^\start:rate:fullM-bM-^@M-^]` (e.g. "10:30:60"). `sshd(8)` will refuse connection attempts with a probability of `M-bM-^@M-^\rate/100M-bM-^@M-^]` (30%) if there are currently `M-bM-^@M-^\startM-bM-^@M-^]` (10) unauthenticated connections. The probability increases linearly and all connection attempts are refused if the number of unauthenticated connections reaches `M-bM-^@M-^\fullM-bM-^@M-^]` (60).

#### PasswordAuthentication

Specifies whether password authentication is allowed. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`.

#### PermitEmptyPasswords

When password authentication is allowed, it specifies whether the server allows login to accounts with empty password strings. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### PermitOpen

Specifies the destinations to which TCP port forwarding is permitted. The forwarding specification must be one of the following forms:

```
PermitOpen host:port
PermitOpen IPv4_addr:port
PermitOpen [IPv6_addr]:port
```

Multiple forwards may be specified by separating them with whitespace. An argument of `M-bM-^@M-^\anyM-bM-^@M-^]` can be used to remove all restrictions and permit any forwarding requests. An argument of `M-bM-^@M-^\noneM-bM-^@M-^]` can be used to prohibit all forwarding requests. By default all port forwarding requests are permitted.

#### PermitRootLogin

Specifies whether root can log in using `ssh(1)`. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]`, `M-bM-^@M-^\prohibit-passwordM-bM-^@M-^]`, `M-bM-^@M-^\without-passwordM-bM-^@M-^]`, `M-bM-^@M-^\forced-commands-onlyM-bM-^@M-^]`, or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is `M-bM-^@M-^\prohibit-passwordM-bM-^@M-^]`.

If this option is set to `M-bM-^@M-^\prohibit-passwordM-bM-^@M-^]` or `M-bM-^@M-^\without-passwordM-bM-^@M-^]`, password and keyboard-interactive authentication are disabled for root.

If this option is set to `M-bM-^@M-^\forced-commands-onlyM-bM-^@M-^]`, root login with public key authentication will be allowed, but only if the

command option has been specified (which may be useful for taking remote backups even if root login is normally not allowed). All other authentication methods are disabled for root.

If this option is set to `M-bM-^@M-^\noM-bM-^@M-^]`, root is not allowed to log in.

#### PermitTunnel

Specifies whether tun(4) device forwarding is allowed. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]`, `M-bM-^@M-^\point-to-pointM-bM-^@M-^]` (layer 3), `M-bM-^@M-^\ethernetM-bM-^@M-^]` (layer 2), or `M-bM-^@M-^\noM-bM-^@M-^]`. Specifying `M-bM-^@M-^\yesM-bM-^@M-^]` permits both `M-bM-^@M-^\point-to-pointM-bM-^@M-^]` and `M-bM-^@M-^\ethernetM-bM-^@M-^]`. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

Independent of this setting, the permissions of the selected tun(4) device must allow access to the user.

#### PermitTTY

Specifies whether pty(4) allocation is permitted. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`.

#### PermitUserEnvironment

Specifies whether `~/ssh/environment` and `environment=` options in `~/ssh/authorized_keys` are processed by `sshd(8)`. The default is `M-bM-^@M-^\noM-bM-^@M-^]`. Enabling environment processing may enable users to bypass access restrictions in some configurations using mechanisms such as `LD_PRELOAD`.

#### PermitUserRC

Specifies whether any `~/ssh/rc` file is executed. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`.

#### PidFile

Specifies the file that contains the process ID of the SSH daemon, or `M-bM-^@M-^\noneM-bM-^@M-^]` to not write one. The default is `/var/run/sshd.pid`.

**Port** Specifies the port number that `sshd(8)` listens on. The default is 22. Multiple options of this type are permitted. See also `ListenAddress`.

#### PrintLastLog

Specifies whether `sshd(8)` should print the date and time of the last user login when a user logs in interactively. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`.

#### PrintMotd

Specifies whether `sshd(8)` should print `/etc/motd` when a user logs

in interactively. (On some systems it is also printed by the shell, /etc/profile, or equivalent.) The default is `M-bM-^@M-^\yesM-bM-^@M-^]`.

#### Protocol

Specifies the protocol versions `sshd(8)` supports. The possible values are `M-bM-^@M-^X1M-bM-^@M-^Y` and `M-bM-^@M-^X2M-bM-^@M-^Y`. Multiple versions must be comma-separated. The default is `M-bM-^@M-^X2M-bM-^@M-^Y`. Protocol 1 suffers from a number of cryptographic weaknesses and should not be used. It is only offered to support legacy devices.

Note that the order of the protocol list does not indicate preference, because the client selects among multiple protocol versions offered by the server. Specifying `M-bM-^@M-^\2,1M-bM-^@M-^]` is identical to `M-bM-^@M-^\1,2M-bM-^@M-^]`.

#### PubkeyAcceptedKeyTypes

Specifies the key types that will be accepted for public key authentication as a comma-separated pattern list. Alternately if the specified value begins with a `M-bM-^@M-^X+M-bM-^@M-^Y` character, then the specified key types will be appended to the default set instead of replacing them. The default for this option is:

```
ecdsa-sha2-nistp256-cert-v01@openssh.com,  
ecdsa-sha2-nistp384-cert-v01@openssh.com,  
ecdsa-sha2-nistp521-cert-v01@openssh.com,  
ssh-ed25519-cert-v01@openssh.com,  
ssh-rsa-cert-v01@openssh.com,  
ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,  
ssh-ed25519,ssh-rsa
```

The `-Q` option of `ssh(1)` may be used to list supported key types.

#### PubkeyAuthentication

Specifies whether public key authentication is allowed. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`.

#### RekeyLimit

Specifies the maximum amount of data that may be transmitted before the session key is renegotiated, optionally followed a maximum amount of time that may pass before the session key is renegotiated. The first argument is specified in bytes and may have a suffix of `M-bM-^@M-^XKM-bM-^@M-^Y`, `M-bM-^@M-^XMM-bM-^@M-^Y`, or `M-bM-^@M-^XGM-bM-^@M-^Y` to indicate Kilobytes, Megabytes, or Gigabytes, respectively. The default is between `M-bM-^@M-^X1GM-bM-^@M-^Y` and `M-bM-^@M-^X4GM-bM-^@M-^Y`, depending on the cipher. The optional second value is specified in seconds and may use any of the units

documented in the TIME FORMATS section. The default value for RekeyLimit is `M-bM-^@M-^\default noneM-bM-^@M-^]`, which means that rekeying is performed after the cipher's default amount of data has been sent or received and no time based rekeying is done.

#### RevokedKeys

Specifies revoked public keys file, or `M-bM-^@M-^\noneM-bM-^@M-^]` to not use one. Keys listed in this file will be refused for public key authentication. Note that if this file is not readable, then public key authentication will be refused for all users. Keys may be specified as a text file, listing one public key per line, or as an OpenSSH Key Revocation List (KRL) as generated by `ssh-keygen(1)`. For more information on KRLs, see the KEY REVOCATION LISTS section in `ssh-keygen(1)`.

#### RhostsRSAAuthentication

Specifies whether rhosts or `/etc/hosts.equiv` authentication together with successful RSA host authentication is allowed. The default is `M-bM-^@M-^\noM-bM-^@M-^]`. This option applies to protocol version 1 only.

#### RSAAuthentication

Specifies whether pure RSA authentication is allowed. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`. This option applies to protocol version 1 only.

#### ServerKeyBits

Defines the number of bits in the ephemeral protocol version 1 server key. The default and minimum value is 1024.

#### StreamLocalBindMask

Sets the octal file creation mode mask (umask) used when creating a Unix-domain socket file for local or remote port forwarding. This option is only used for port forwarding to a Unix-domain socket file.

The default value is 0177, which creates a Unix-domain socket file that is readable and writable only by the owner. Note that not all operating systems honor the file mode on Unix-domain socket files.

#### StreamLocalBindUnlink

Specifies whether to remove an existing Unix-domain socket file for local or remote port forwarding before creating a new one. If the socket file already exists and `StreamLocalBindUnlink` is not enabled, `sshd` will be unable to forward the port to the Unix-domain socket file. This option is only used for port forwarding to a Unix-domain socket file.

The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

#### StrictModes

Specifies whether `sshd(8)` should check file modes and ownership of the user's files and home directory before accepting login.

This is normally desirable because novices sometimes accidentally leave their directory or files world-writable. The default is

`M-bM-^@M-^\yesM-bM-^@M-^]`. Note that this does not apply to `ChrootDirectory`, whose permissions and ownership are checked unconditionally.

#### Subsystem

Configures an external subsystem (e.g. file transfer daemon).

Arguments should be a subsystem name and a command (with optional arguments) to execute upon subsystem request.

The command `sftp-server(8)` implements the `M-bM-^@M-^\sftpM-bM-^@M-^]` file transfer subsystem.

Alternately the name `M-bM-^@M-^\internal-sftpM-bM-^@M-^]` implements an in-process `M-bM-^@M-^\sftpM-bM-^@M-^]` server. This may simplify configurations using `ChrootDirectory` to force a different filesystem root on clients.

By default no subsystems are defined.

#### SyslogFacility

Gives the facility code that is used when logging messages from `sshd(8)`. The possible values are: `DAEMON`, `USER`, `AUTH`, `LOCAL0`, `LOCAL1`, `LOCAL2`, `LOCAL3`, `LOCAL4`, `LOCAL5`, `LOCAL6`, `LOCAL7`. The default is `AUTH`.

#### TCPKeepAlive

Specifies whether the system should send TCP keepalive messages to the other side. If they are sent, death of the connection or crash of one of the machines will be properly noticed. However, this means that connections will die if the route is down temporarily, and some people find it annoying. On the other hand, if TCP keepalives are not sent, sessions may hang indefinitely on the server, leaving `M-bM-^@M-^\ghostM-bM-^@M-^]` users and consuming server resources.

The default is `M-bM-^@M-^\yesM-bM-^@M-^]` (to send TCP keepalive messages), and the server will notice if the network goes down or the client host crashes. This avoids infinitely hanging sessions.

To disable TCP keepalive messages, the value should be set to `M-bM-^@M-^\noM-bM-^@M-^]`.

### TrustedUserCAKeys

Specifies a file containing public keys of certificate authorities that are trusted to sign user certificates for authentication, or `M-bM-^@M-^\noneM-bM-^@M-^]` to not use one. Keys are listed one per line; empty lines and comments starting with `M-bM-^@M-^X#M-bM-^@M-^Y` are allowed. If a certificate is presented for authentication and has its signing CA key listed in this file, then it may be used for authentication for any user listed in the certificate's principals list. Note that certificates that lack a list of principals will not be permitted for authentication using `TrustedUserCAKeys`. For more details on certificates, see the `CERTIFICATES` section in `ssh-keygen(1)`.

`UseDNS` Specifies whether `sshd(8)` should look up the remote host name, and to check that the resolved host name for the remote IP address maps back to the very same IP address.

If this option is set to `M-bM-^@M-^\noM-bM-^@M-^]` (the default) then only addresses and not host names may be used in `~/.ssh/known_hosts` from and `sshd_config Match Host` directives.

### UseLogin

Specifies whether `login(1)` is used for interactive login sessions. The default is `M-bM-^@M-^\noM-bM-^@M-^]`. Note that `login(1)` is never used for remote command execution. Note also, that if this is enabled, `X11Forwarding` will be disabled because `login(1)` does not know how to handle `xauth(1)` cookies. If `UsePrivilegeSeparation` is specified, it will be disabled after authentication.

`UsePAM` Enables the Pluggable Authentication Module interface. If set to `M-bM-^@M-^\yesM-bM-^@M-^]` this will enable PAM authentication using `ChallengeResponseAuthentication` and `PasswordAuthentication` in addition to PAM account and session module processing for all authentication types.

Because PAM challenge-response authentication usually serves an equivalent role to password authentication, you should disable either `PasswordAuthentication` or `ChallengeResponseAuthentication`.

If `UsePAM` is enabled, you will not be able to run `sshd(8)` as a non-root user. The default is `M-bM-^@M-^\noM-bM-^@M-^]`.

### UsePrivilegeSeparation

Specifies whether `sshd(8)` separates privileges by creating an unprivileged child process to deal with incoming network traffic. After successful authentication, another process will be created that has the privilege of the authenticated user. The goal of privilege separation is to prevent privilege escalation by

containing any corruption within the unprivileged processes. The argument must be `M-bM-^@M-^yesM-bM-^@M-^]`, `M-bM-^@M-^noM-bM-^@M-^]`, or `M-bM-^@M-^sandboxM-bM-^@M-^]`. If

`UsePrivilegeSeparation` is set to `M-bM-^@M-^sandboxM-bM-^@M-^]` then the pre-authentication unprivileged process is subject to additional restrictions. The default is `M-bM-^@M-^sandboxM-bM-^@M-^]`.

#### VersionAddendum

Optionally specifies additional text to append to the SSH protocol banner sent by the server upon connection. The default is `M-bM-^@M-^noneM-bM-^@M-^]`.

#### X11DisplayOffset

Specifies the first display number available for `sshd(8)`'s X11 forwarding. This prevents `sshd` from interfering with real X11 servers. The default is 10.

#### X11Forwarding

Specifies whether X11 forwarding is permitted. The argument must be `M-bM-^@M-^yesM-bM-^@M-^]` or `M-bM-^@M-^noM-bM-^@M-^]`. The default is `M-bM-^@M-^noM-bM-^@M-^]`.

When X11 forwarding is enabled, there may be additional exposure to the server and to client displays if the `sshd(8)` proxy display is configured to listen on the wildcard address (see `X11UseLocalhost` below), though this is not the default. Additionally, the authentication spoofing and authentication data verification and substitution occur on the client side. The security risk of using X11 forwarding is that the client's X11 display server may be exposed to attack when the SSH client requests forwarding (see the warnings for `ForwardX11` in `ssh_config(5)`). A system administrator may have a stance in which they want to protect clients that may expose themselves to attack by unwittingly requesting X11 forwarding, which can warrant a `M-bM-^@M-^noM-bM-^@M-^]` setting.

Note that disabling X11 forwarding does not prevent users from forwarding X11 traffic, as users can always install their own forwarders. X11 forwarding is automatically disabled if `UseLogin` is enabled.

#### X11UseLocalhost

Specifies whether `sshd(8)` should bind the X11 forwarding server to the loopback address or to the wildcard address. By default, `sshd` binds the forwarding server to the loopback address and sets the hostname part of the `DISPLAY` environment variable to `M-bM-^@M-^localhostM-bM-^@M-^]`. This prevents remote hosts from connecting to the proxy display. However, some older X11 clients may not function

with this configuration. `X11UseLocalhost` may be set to `M-bM-^@M-^\noM-bM-^@M-^]` to specify that the forwarding server should be bound to the wildcard address. The argument must be `M-bM-^@M-^\yesM-bM-^@M-^]` or `M-bM-^@M-^\noM-bM-^@M-^]`. The default is `M-bM-^@M-^\yesM-bM-^@M-^]`.

#### XAuthLocation

Specifies the full pathname of the `xauth(1)` program, or `M-bM-^@M-^\noneM-bM-^@M-^]` to not use one. The default is `/usr/X11R6/bin/xauth`.

#### TIME FORMATS

`sshd(8)` command-line arguments and configuration file options that specify time may be expressed using a sequence of the form: `time[qualifier]`, where `time` is a positive integer value and `qualifier` is one of the following:

`M-bM-^_M-(noneM-bM-^_M-)` seconds  
s | S seconds  
m | M minutes  
h | H hours  
d | D days  
w | W weeks

Each member of the sequence is added together to calculate the total time value.

Time format examples:

600 600 seconds (10 minutes)  
10m 10 minutes  
1h30m 1 hour 30 minutes (90 minutes)

#### FILES

`/etc/ssh/sshd_config`

Contains configuration data for `sshd(8)`. This file should be writable by root only, but it is recommended (though not necessary) that it be world-readable.

#### SEE ALSO

`sshd(8)`

#### AUTHORS

OpenSSH is a derivative of the original and free `ssh 1.2.12` release by Tatu Ylonen. Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos, Theo de Raadt and Dug Song removed many bugs, re-added newer features and created OpenSSH. Markus Friedl contributed the support for SSH protocol versions 1.5 and 2.0. Niels Provos and Markus Friedl contributed support for privilege separation.



```
.\"
.\" Author: Tatu Ylonen <ylo@cs.hut.fi>
.\" Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
.\" All rights reserved
.\"
.\" As far as I am concerned, the code I have written for this software
.\" can be used freely for any purpose. Any derived versions of this
.\" software must be clearly marked as such, and if the derived work is
.\" incompatible with the protocol description in the RFC file, it must be
.\" called by a name other than "ssh" or "Secure Shell".
.\"
.\" Copyright (c) 1999,2000 Markus Friedl. All rights reserved.
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.\"
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.\" DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
.\" THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
.\" (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
.\" THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
.\"
.\" $OpenBSD: sshd_config.5,v 1.220 2016/02/17 08:57:34 djm Exp $
.Dd $Mdocdate: February 17 2016 $
.Dt SSHD_CONFIG 5
.Os
.Sh NAME
.Nm sshd_config
.Nd OpenSSH SSH daemon configuration file
.Sh SYNOPSIS
.Nm /etc/ssh/sshd_config
.Sh DESCRIPTION
.Xr sshd 8
```

reads configuration data from

.Pa /etc/ssh/sshd\_config

(or the file specified with

.Ff

on the command line).

The file contains keyword-argument pairs, one per line.

Lines starting with

.Ql #

and empty lines are interpreted as comments.

Arguments may optionally be enclosed in double quotes

.Pq \&"

in order to represent arguments containing spaces.

.Pp

The possible

keywords and their meanings are as follows (note that

keywords are case-insensitive and arguments are case-sensitive):

.Bl -tag -width Ds

.It Cm AcceptEnv

Specifies what environment variables sent by the client will be copied into the session's

.Xr environ 7 .

See

.Cm SendEnv

in

.Xr ssh\_config 5

for how to configure the client.

The

.Ev TERM

environment variable is always sent whenever the client

requests a pseudo-terminal as it is required by the protocol.

Variables are specified by name, which may contain the wildcard characters

.Ql \*

and

.Ql \&? .

Multiple environment variables may be separated by whitespace or spread across multiple

.Cm AcceptEnv

directives.

Be warned that some environment variables could be used to bypass restricted user environments.

For this reason, care should be taken in the use of this directive.

The default is not to accept any environment variables.

.It Cm AddressFamily

Specifies which address family should be used by

.Xr sshd 8 .

Valid arguments are

.Dq any ,

.Dq inet

(use IPv4 only), or

.Dq inet6

(use IPv6 only).

The default is

.Dq any .

.It Cm AllowAgentForwarding

Specifies whether

.Xr ssh-agent 1

forwarding is permitted.

The default is

.Dq yes .

Note that disabling agent forwarding does not improve security unless users are also denied shell access, as they can always install their own forwarders.

.It Cm AllowGroups

This keyword can be followed by a list of group name patterns, separated by spaces.

If specified, login is allowed only for users whose primary group or supplementary group list matches one of the patterns.

Only group names are valid; a numerical group ID is not recognized.

By default, login is allowed for all groups.

The allow/deny directives are processed in the following order:

.Cm DenyUsers ,

.Cm AllowUsers ,

.Cm DenyGroups ,

and finally

.Cm AllowGroups .

.Pp

See PATTERNS in

.Xr ssh\_config 5

for more information on patterns.

.It Cm AllowTcpForwarding

Specifies whether TCP forwarding is permitted.

The available options are

.Dq yes

or

.Dq all

to allow TCP forwarding,

.Dq no

to prevent all TCP forwarding,

.Dq local

to allow local (from the perspective of

.Xr ssh 1 )

forwarding only or

.Dq remote

to allow remote forwarding only.

The default is

.Dq yes .

Note that disabling TCP forwarding does not improve security unless users are also denied shell access, as they can always install their own forwarders.

.It Cm AllowStreamLocalForwarding

Specifies whether StreamLocal (Unix-domain socket) forwarding is permitted.

The available options are

.Dq yes

or

.Dq all

to allow StreamLocal forwarding,

.Dq no

to prevent all StreamLocal forwarding,

.Dq local

to allow local (from the perspective of

.Xr ssh 1 )

forwarding only or

.Dq remote

to allow remote forwarding only.

The default is

.Dq yes .

Note that disabling StreamLocal forwarding does not improve security unless users are also denied shell access, as they can always install their own forwarders.

.It Cm AllowUsers

This keyword can be followed by a list of user name patterns, separated by spaces.

If specified, login is allowed only for user names that match one of the patterns.

Only user names are valid; a numerical user ID is not recognized.

By default, login is allowed for all users.

If the pattern takes the form USER@HOST then USER and HOST are separately checked, restricting logins to particular users from particular hosts.

The allow/deny directives are processed in the following order:

.Cm DenyUsers ,

.Cm AllowUsers ,

.Cm DenyGroups ,

and finally

.Cm AllowGroups .

.Pp

See PATTERNS in

.Xr ssh\_config 5

for more information on patterns.

.It Cm AuthenticationMethods

Specifies the authentication methods that must be successfully completed for a user to be granted access.

This option must be followed by one or more comma-separated lists of authentication method names.

Successful authentication requires completion of every method in at least one of these lists.

.Pp

For example, an argument of

.Dq publickey,password publickey,keyboard-interactive

would require the user to complete public key authentication, followed by either password or keyboard interactive authentication.

Only methods that are next in one or more lists are offered at each stage, so for this example, it would not be possible to attempt password or keyboard-interactive authentication before public key.

.Pp

For keyboard interactive authentication it is also possible to restrict authentication to a specific device by appending a colon followed by the device identifier

.Dq bsdauth ,

.Dq pam ,

or

.Dq skey ,

depending on the server configuration.

For example,

.Dq keyboard-interactive:bsdauth

would restrict keyboard interactive authentication to the

.Dq bsdauth

device.

.Pp

If the

.Dq publickey

method is listed more than once,

.Xr sshd 8

verifies that keys that have been used successfully are not reused for subsequent authentications.

For example, an

.Cm AuthenticationMethods

of

.Dq publickey,publickey

will require successful authentication using two different public keys.

.Pp

This option will yield a fatal

error if enabled if protocol 1 is also enabled.

Note that each authentication method listed should also be explicitly enabled in the configuration.

The default is not to require multiple authentication; successful completion of a single authentication method is sufficient.

.It Cm AuthorizedKeysCommand

Specifies a program to be used to look up the user's public keys.

The program must be owned by root, not writable by group or others and specified by an absolute path.

.Pp

Arguments to

.Cm AuthorizedKeysCommand

may be provided using the following tokens, which will be expanded at runtime: %% is replaced by a literal '%', %u is replaced by the username being authenticated, %h is replaced by the home directory of the user being authenticated, %t is replaced with the key type offered for authentication, %f is replaced with the fingerprint of the key, and %k is replaced with the key being offered for authentication.

If no arguments are specified then the username of the target user will be supplied.

.Pp

The program should produce on standard output zero or more lines of authorized\_keys output (see AUTHORIZED\_KEYS in

.Xr sshd 8 ) .

If a key supplied by AuthorizedKeysCommand does not successfully authenticate and authorize the user then public key authentication continues using the usual

.Cm AuthorizedKeysFile

files.

By default, no AuthorizedKeysCommand is run.

.It Cm AuthorizedKeysCommandUser

Specifies the user under whose account the AuthorizedKeysCommand is run.

It is recommended to use a dedicated user that has no other role on the host than running authorized keys commands.

If

.Cm AuthorizedKeysCommand

is specified but

.Cm AuthorizedKeysCommandUser

is not, then

.Xr sshd 8

will refuse to start.

.It Cm AuthorizedKeysFile

Specifies the file that contains the public keys that can be used for user authentication.

The format is described in the

AUTHORIZED\_KEYS FILE FORMAT

section of

.Xr sshd 8 .

.Cm AuthorizedKeysFile

may contain tokens of the form %T which are substituted during connection setup.

The following tokens are defined: %% is replaced by a literal '%', %h is replaced by the home directory of the user being authenticated, and %u is replaced by the username of that user.

After expansion,

.Cm AuthorizedKeysFile

is taken to be an absolute path or one relative to the user's home directory.

Multiple files may be listed, separated by whitespace.

Alternately this option may be set to

.Dq none

to skip checking for user keys in files.

The default is

.Dq .ssh/authorized\_keys .ssh/authorized\_keys2 .

.It Cm AuthorizedPrincipalsCommand

Specifies a program to be used to generate the list of allowed certificate principals as per

.Cm AuthorizedPrincipalsFile .

The program must be owned by root, not writable by group or others and specified by an absolute path.

.Pp

Arguments to

.Cm AuthorizedPrincipalsCommand

may be provided using the following tokens, which will be expanded at runtime: %% is replaced by a literal '%', %u is replaced by the username being authenticated and %h is replaced by the home directory of the user being authenticated.

.Pp

The program should produce on standard output zero or more lines of

.Cm AuthorizedPrincipalsFile

output.

If either

.Cm AuthorizedPrincipalsCommand

or

.Cm AuthorizedPrincipalsFile

is specified, then certificates offered by the client for authentication must contain a principal that is listed.

By default, no AuthorizedPrincipalsCommand is run.

.It Cm AuthorizedPrincipalsCommandUser

Specifies the user under whose account the AuthorizedPrincipalsCommand is run.

It is recommended to use a dedicated user that has no other role on the host than running authorized principals commands.

If

.Cm AuthorizedPrincipalsCommand

is specified but

.Cm AuthorizedPrincipalsCommandUser

is not, then

.Xr sshd 8

will refuse to start.

.It Cm AuthorizedPrincipalsFile

Specifies a file that lists principal names that are accepted for certificate authentication.

When using certificates signed by a key listed in

.Cm TrustedUserCAKeys ,

this file lists names, one of which must appear in the certificate for it to be accepted for authentication.

Names are listed one per line preceded by key options (as described in AUTHORIZED\_KEYS FILE FORMAT in

.Xr sshd 8 ) .

Empty lines and comments starting with

.Ql #

are ignored.

.Pp

.Cm AuthorizedPrincipalsFile

may contain tokens of the form %T which are substituted during connection setup.

The following tokens are defined: %% is replaced by a literal '%', %h is replaced by the home directory of the user being authenticated, and %u is replaced by the username of that user.

After expansion,

.Cm AuthorizedPrincipalsFile

is taken to be an absolute path or one relative to the user's home directory.

.Pp

The default is

.Dq none ,

i.e. not to use a principals file \ (en in this case, the username of the user must appear in a certificate's principals list for it to be accepted.

Note that

.Cm AuthorizedPrincipalsFile

is only used when authentication proceeds using a CA listed in

.Cm TrustedUserCAKeys

and is not consulted for certification authorities trusted via

.Pa ~/.ssh/authorized\_keys ,

though the

.Cm principals=

key option offers a similar facility (see

.Xr sshd 8

for details).

.It Cm Banner

The contents of the specified file are sent to the remote user before authentication is allowed.

If the argument is

.Dq none

then no banner is displayed.

By default, no banner is displayed.

.It Cm ChallengeResponseAuthentication

Specifies whether challenge-response authentication is allowed (e.g. via PAM or through authentication styles supported in

.Xr login.conf 5 )

The default is

.Dq yes .

.It Cm ChrootDirectory



Specifies the pathname of a directory to

.Xr chroot 2

to after authentication.

At session startup

.Xr sshd 8

checks that all components of the pathname are root-owned directories

which are not writable by any other user or group.

After the chroot,

.Xr sshd 8

changes the working directory to the user's home directory.

.Pp

The pathname may contain the following tokens that are expanded at runtime once

the connecting user has been authenticated: %% is replaced by a literal '%',

%h is replaced by the home directory of the user being authenticated, and

%u is replaced by the username of that user.

.Pp

The

.Cm ChrootDirectory

must contain the necessary files and directories to support the

user's session.

For an interactive session this requires at least a shell, typically

.Xr sh 1 ,

and basic

.Pa /dev

nodes such as

.Xr null 4 ,

.Xr zero 4 ,

.Xr stdin 4 ,

.Xr stdout 4 ,

.Xr stderr 4 ,

and

.Xr tty 4

devices.

For file transfer sessions using

.Dq sftp ,

no additional configuration of the environment is necessary if the

in-process sftp server is used,

though sessions which use logging may require

.Pa /dev/log

inside the chroot directory on some operating systems (see

.Xr sftp-server 8

for details).

.Pp

For safety, it is very important that the directory hierarchy be

prevented from modification by other processes on the system (especially

those outside the jail).

Misconfiguration can lead to unsafe environments which

.Xr sshd 8

cannot detect.

.Pp

The default is

.Dq none ,

indicating not to

.Xr chroot 2 .

.It Cm Ciphers

Specifies the ciphers allowed.

Multiple ciphers must be comma-separated.

If the specified value begins with a

.Sq +

character, then the specified ciphers will be appended to the default set instead of replacing them.

.Pp

The supported ciphers are:

.Pp

.Bl -item -compact -offset indent

.It

3des-cbc

.It

aes128-cbc

.It

aes192-cbc

.It

aes256-cbc

.It

aes128-ctr

.It

aes192-ctr

.It

aes256-ctr

.It

aes128-gcm@openssh.com

.It

aes256-gcm@openssh.com

.It

arcfour

.It

arcfour128

.It

arcfour256

.It

blowfish-cbc

.It

cast128-cbc

.It

chacha20-poly1305@openssh.com

.El

.Pp

The default is:

.Bd -literal -offset indent

chacha20-poly1305@openssh.com,

aes128-ctr,aes192-ctr,aes256-ctr,

aes128-gcm@openssh.com,aes256-gcm@openssh.com

.Ed

.Pp

The list of available ciphers may also be obtained using the

.F1 Q

option of

.Xr ssh 1

with an argument of

.Dq cipher .

.It Cm ClientAliveCountMax

Sets the number of client alive messages (see below) which may be sent without

.Xr sshd 8

receiving any messages back from the client.

If this threshold is reached while client alive messages are being sent, sshd will disconnect the client, terminating the session.

It is important to note that the use of client alive messages is very different from

.Cm TCPKeepAlive

(below).

The client alive messages are sent through the encrypted channel and therefore will not be spoofable.

The TCP keepalive option enabled by

.Cm TCPKeepAlive

is spoofable.

The client alive mechanism is valuable when the client or server depend on knowing when a connection has become inactive.

.Pp

The default value is 3.

If

.Cm ClientAliveInterval

(see below) is set to 15, and

.Cm ClientAliveCountMax

is left at the default, unresponsive SSH clients

will be disconnected after approximately 45 seconds.

.It Cm ClientAliveInterval

Sets a timeout interval in seconds after which if no data has been received from the client,

.Xr sshd 8

will send a message through the encrypted channel to request a response from the client.

The default

is 0, indicating that these messages will not be sent to the client.

#### .It Cm Compression

Specifies whether compression is allowed, or delayed until the user has authenticated successfully.

The argument must be

.Dq yes ,

.Dq delayed ,

or

.Dq no .

The default is

.Dq delayed .

#### .It Cm DenyGroups

This keyword can be followed by a list of group name patterns, separated by spaces.

Login is disallowed for users whose primary group or supplementary group list matches one of the patterns.

Only group names are valid; a numerical group ID is not recognized.

By default, login is allowed for all groups.

The allow/deny directives are processed in the following order:

.Cm DenyUsers ,

.Cm AllowUsers ,

.Cm DenyGroups ,

and finally

.Cm AllowGroups .

.Pp

See PATTERNS in

.Xr ssh\_config 5

for more information on patterns.

#### .It Cm DenyUsers

This keyword can be followed by a list of user name patterns, separated by spaces.

Login is disallowed for user names that match one of the patterns.

Only user names are valid; a numerical user ID is not recognized.

By default, login is allowed for all users.

If the pattern takes the form USER@HOST then USER and HOST are separately checked, restricting logins to particular users from particular hosts.

The allow/deny directives are processed in the following order:

.Cm DenyUsers ,

.Cm AllowUsers ,

.Cm DenyGroups ,

and finally

.Cm AllowGroups .

.Pp

See PATTERNS in

.Xr ssh\_config 5

for more information on patterns.

#### .It Cm FingerprintHash

Specifies the hash algorithm used when logging key fingerprints.

Valid options are:

.Dq md5

and

.Dq sha256 .

The default is

.Dq sha256 .

.It Cm ForceCommand

Forces the execution of the command specified by

.Cm ForceCommand ,

ignoring any command supplied by the client and

.Pa ~/.ssh/rc

if present.

The command is invoked by using the user's login shell with the -c option.

This applies to shell, command, or subsystem execution.

It is most useful inside a

.Cm Match

block.

The command originally supplied by the client is available in the

.Ev SSH\_ORIGINAL\_COMMAND

environment variable.

Specifying a command of

.Dq internal-sftp

will force the use of an in-process sftp server that requires no support

files when used with

.Cm ChrootDirectory .

The default is

.Dq none .

.It Cm GatewayPorts

Specifies whether remote hosts are allowed to connect to ports

forwarded for the client.

By default,

.Xr sshd 8

binds remote port forwardings to the loopback address.

This prevents other remote hosts from connecting to forwarded ports.

.Cm GatewayPorts

can be used to specify that sshd

should allow remote port forwardings to bind to non-loopback addresses, thus

allowing other hosts to connect.

The argument may be

.Dq no

to force remote port forwardings to be available to the local host only,

.Dq yes

to force remote port forwardings to bind to the wildcard address, or

.Dq clientspecified

to allow the client to select the address to which the forwarding is bound.

The default is

.Dq no .

.It Cm GSSAPIAuthentication

Specifies whether user authentication based on GSSAPI is allowed.

The default is

.Dq no .

.It Cm GSSAPICleanupCredentials

Specifies whether to automatically destroy the user's credentials cache on logout.

The default is

.Dq yes .

.It Cm GSSAPIStrictAcceptorCheck

Determines whether to be strict about the identity of the GSSAPI acceptor a client authenticates against.

If set to

.Dq yes

then the client must authenticate against the

.Pa host

service on the current hostname.

If set to

.Dq no

then the client may authenticate against any service key stored in the machine's default store.

This facility is provided to assist with operation on multi homed machines.

The default is

.Dq yes .

.It Cm HostbasedAcceptedKeyTypes

Specifies the key types that will be accepted for hostbased authentication as a comma-separated pattern list.

Alternately if the specified value begins with a

.Sq +

character, then the specified key types will be appended to the default set instead of replacing them.

The default for this option is:

.Bd -literal -offset 3n

ecdsa-sha2-nistp256-cert-v01@openssh.com,

ecdsa-sha2-nistp384-cert-v01@openssh.com,

ecdsa-sha2-nistp521-cert-v01@openssh.com,

ssh-ed25519-cert-v01@openssh.com,

ssh-rsa-cert-v01@openssh.com,

ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,

ssh-ed25519,ssh-rsa

.Ed

.Pp

The

.Fl Q

option of

.Xr ssh 1

may be used to list supported key types.

.It Cm HostbasedAuthentication

Specifies whether rhosts or /etc/hosts.equiv authentication together

with successful public key client host authentication is allowed (host-based authentication).

The default is

.Dq no .

.It Cm HostbasedUsesNameFromPacketOnly

Specifies whether or not the server will attempt to perform a reverse name lookup when matching the name in the

.Pa ~/.shosts ,

.Pa ~/.rhosts ,

and

.Pa /etc/hosts.equiv

files during

.Cm HostbasedAuthentication .

A setting of

.Dq yes

means that

.Xr sshd 8

uses the name supplied by the client rather than

attempting to resolve the name from the TCP connection itself.

The default is

.Dq no .

.It Cm HostCertificate

Specifies a file containing a public host certificate.

The certificate's public key must match a private host key already specified by

.Cm HostKey .

The default behaviour of

.Xr sshd 8

is not to load any certificates.

.It Cm HostKey

Specifies a file containing a private host key used by SSH.

The default is

.Pa /etc/ssh/ssh\_host\_key

for protocol version 1, and

.Pa /etc/ssh/ssh\_host\_dsa\_key ,

.Pa /etc/ssh/ssh\_host\_ecdsa\_key ,

.Pa /etc/ssh/ssh\_host\_ed25519\_key

and

.Pa /etc/ssh/ssh\_host\_rsa\_key

for protocol version 2.

.Pp

Note that

.Xr sshd 8

will refuse to use a file if it is group/world-accessible

and that the

.Cm HostKeyAlgorithms

option restricts which of the keys are actually used by

.Xr sshd 8 .

.Pp

It is possible to have multiple host key files.

.Dq rsa1

keys are used for version 1 and

.Dq dsa ,

.Dq ecdsa ,

.Dq ed25519

or

.Dq rsa

are used for version 2 of the SSH protocol.

It is also possible to specify public host key files instead.

In this case operations on the private key will be delegated to an

.Xr ssh-agent 1 .

.It Cm HostKeyAgent

Identifies the UNIX-domain socket used to communicate with an agent that has access to the private host keys.

If

.Dq SSH\_AUTH\_SOCK

is specified, the location of the socket will be read from the

.Ev SSH\_AUTH\_SOCK

environment variable.

.It Cm HostKeyAlgorithms

Specifies the host key algorithms that the server offers.

The default for this option is:

.Bd -literal -offset 3n

ecdsa-sha2-nistp256-cert-v01@openssh.com,

ecdsa-sha2-nistp384-cert-v01@openssh.com,

ecdsa-sha2-nistp521-cert-v01@openssh.com,

ssh-ed25519-cert-v01@openssh.com,

ssh-rsa-cert-v01@openssh.com,

ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,

ssh-ed25519,ssh-rsa

.Ed

.Pp

The list of available key types may also be obtained using the

.Fl Q

option of

.Xr ssh 1

with an argument of

.Dq key .

.It Cm IgnoreRhosts

Specifies that

.Pa .rhosts

and

.Pa .shosts



files will not be used in

.Cm RhostsRSAAuthentication

or

.Cm HostbasedAuthentication .

.Pp

.Pa /etc/hosts.equiv

and

.Pa /etc/shosts.equiv

are still used.

The default is

.Dq yes .

.It Cm IgnoreUserKnownHosts

Specifies whether

.Xr sshd 8

should ignore the user's

.Pa ~/.ssh/known\_hosts

during

.Cm RhostsRSAAuthentication

or

.Cm HostbasedAuthentication .

The default is

.Dq no .

.It Cm IPQoS

Specifies the IPv4 type-of-service or DSCP class for the connection.

Accepted values are

.Dq af11 ,

.Dq af12 ,

.Dq af13 ,

.Dq af21 ,

.Dq af22 ,

.Dq af23 ,

.Dq af31 ,

.Dq af32 ,

.Dq af33 ,

.Dq af41 ,

.Dq af42 ,

.Dq af43 ,

.Dq cs0 ,

.Dq cs1 ,

.Dq cs2 ,

.Dq cs3 ,

.Dq cs4 ,

.Dq cs5 ,

.Dq cs6 ,

.Dq cs7 ,

.Dq ef ,

.Dq lowdelay ,

.Dq throughput ,

.Dq reliability ,  
or a numeric value.

This option may take one or two arguments, separated by whitespace.

If one argument is specified, it is used as the packet class unconditionally.

If two values are specified, the first is automatically selected for interactive sessions and the second for non-interactive sessions.

The default is

.Dq lowdelay

for interactive sessions and

.Dq throughput

for non-interactive sessions.

.It Cm KbdInteractiveAuthentication

Specifies whether to allow keyboard-interactive authentication.

The argument to this keyword must be

.Dq yes

or

.Dq no .

The default is to use whatever value

.Cm ChallengeResponseAuthentication

is set to

(by default

.Dq yes ) .

.It Cm KerberosAuthentication

Specifies whether the password provided by the user for

.Cm PasswordAuthentication

will be validated through the Kerberos KDC.

To use this option, the server needs a

Kerberos servtab which allows the verification of the KDC's identity.

The default is

.Dq no .

.It Cm KerberosGetAFSToken

If AFS is active and the user has a Kerberos 5 TGT, attempt to acquire an AFS token before accessing the user's home directory.

The default is

.Dq no .

.It Cm KerberosOrLocalPasswd

If password authentication through Kerberos fails then

the password will be validated via any additional local mechanism

such as

.Pa /etc/passwd .

The default is

.Dq yes .

.It Cm KerberosTicketCleanup

Specifies whether to automatically destroy the user's ticket cache file on logout.

The default is

.Dq yes .

.It Cm KexAlgorithms

Specifies the available KEX (Key Exchange) algorithms.

Multiple algorithms must be comma-separated.

Alternately if the specified value begins with a

.Sq +

character, then the specified methods will be appended to the default set instead of replacing them.

The supported algorithms are:

.Pp

.Bl -item -compact -offset indent

.It

curve25519-sha256@libssh.org

.It

diffie-hellman-group1-sha1

.It

diffie-hellman-group14-sha1

.It

diffie-hellman-group-exchange-sha1

.It

diffie-hellman-group-exchange-sha256

.It

ecdh-sha2-nistp256

.It

ecdh-sha2-nistp384

.It

ecdh-sha2-nistp521

.El

.Pp

The default is:

.Bd -literal -offset indent

curve25519-sha256@libssh.org,

ecdh-sha2-nistp256,ecdh-sha2-nistp384,ecdh-sha2-nistp521,

diffie-hellman-group-exchange-sha256,

diffie-hellman-group14-sha1

.Ed

.Pp

The list of available key exchange algorithms may also be obtained using the

.Fl Q

option of

.Xr ssh 1

with an argument of

.Dq kex .

.It Cm KeyRegenerationInterval

In protocol version 1, the ephemeral server key is automatically regenerated after this many seconds (if it has been used).

The purpose of regeneration is to prevent

decrypting captured sessions by later breaking into the machine and stealing the keys.

The key is never stored anywhere.

If the value is 0, the key is never regenerated.

The default is 3600 (seconds).

.It Cm ListenAddress

Specifies the local addresses

.Xr sshd 8

should listen on.

The following forms may be used:

.Pp

.Bl -item -offset indent -compact

.It

.Cm ListenAddress

.Sm off

.Ar host | Ar IPv4\_addr | Ar IPv6\_addr

.Sm on

.It

.Cm ListenAddress

.Sm off

.Ar host | Ar IPv4\_addr : Ar port

.Sm on

.It

.Cm ListenAddress

.Sm off

.Oo

.Ar host | Ar IPv6\_addr Oc : Ar port

.Sm on

.El

.Pp

If

.Ar port

is not specified,

sshd will listen on the address and all

.Cm Port

options specified.

The default is to listen on all local addresses.

Multiple

.Cm ListenAddress

options are permitted.

.It Cm LoginGraceTime

The server disconnects after this time if the user has not successfully logged in.

If the value is 0, there is no time limit.

The default is 120 seconds.

.It Cm LogLevel

Gives the verbosity level that is used when logging messages from

.Xr sshd 8 .

The possible values are:

QUIET, FATAL, ERROR, INFO, VERBOSE, DEBUG, DEBUG1, DEBUG2, and DEBUG3.

The default is INFO.

DEBUG and DEBUG1 are equivalent.

DEBUG2 and DEBUG3 each specify higher levels of debugging output.

Logging with a DEBUG level violates the privacy of users and is not recommended.

.It Cm MACs

Specifies the available MAC (message authentication code) algorithms.

The MAC algorithm is used for data integrity protection.

Multiple algorithms must be comma-separated.

If the specified value begins with a

.Sq +

character, then the specified algorithms will be appended to the default set instead of replacing them.

.Pp

The algorithms that contain

.Dq -etm

calculate the MAC after encryption (encrypt-then-mac).

These are considered safer and their use recommended.

The supported MACs are:

.Pp

.Bl -item -compact -offset indent

.It

hmac-md5

.It

hmac-md5-96

.It

hmac-ripemd160

.It

hmac-sha1

.It

hmac-sha1-96

.It

hmac-sha2-256

.It

hmac-sha2-512

.It

umac-64@openssh.com

.It

umac-128@openssh.com

.It

hmac-md5-etm@openssh.com

.It

hmac-md5-96-etm@openssh.com

.It

hmac-ripemd160-etm@openssh.com

.It

hmac-sha1-etm@openssh.com

.It

hmac-sha1-96-etm@openssh.com

.It

hmac-sha2-256-etm@openssh.com

.It

hmac-sha2-512-etm@openssh.com

.It

umac-64-etm@openssh.com

.It

umac-128-etm@openssh.com

.El

.Pp

The default is:

.Bd -literal -offset indent

umac-64-etm@openssh.com,umac-128-etm@openssh.com,

hmac-sha2-256-etm@openssh.com,hmac-sha2-512-etm@openssh.com,

hmac-sha1-etm@openssh.com,

umac-64@openssh.com,umac-128@openssh.com,

hmac-sha2-256,hmac-sha2-512,hmac-sha1

.Ed

.Pp

The list of available MAC algorithms may also be obtained using the

.F1 Q

option of

.Xr ssh 1

with an argument of

.Dq mac .

.It Cm Match

Introduces a conditional block.

If all of the criteria on the

.Cm Match

line are satisfied, the keywords on the following lines override those

set in the global section of the config file, until either another

.Cm Match

line or the end of the file.

If a keyword appears in multiple

.Cm Match

blocks that are satisfied, only the first instance of the keyword is

applied.

.Pp

The arguments to

.Cm Match

are one or more criteria-pattern pairs or the single token

.Cm All

which matches all criteria.

The available criteria are

.Cm User ,

.Cm Group ,

.Cm Host ,

.Cm LocalAddress ,

.Cm LocalPort ,

and

.Cm Address .

The match patterns may consist of single entries or comma-separated lists and may use the wildcard and negation operators described in the PATTERNS section of

.Xr ssh\_config 5 .

.Pp

The patterns in an

.Cm Address

criteria may additionally contain addresses to match in CIDR address/masklen format, e.g.\&

.Dq 192.0.2.0/24

or

.Dq 3ffe:ffff::/32 .

Note that the mask length provided must be consistent with the address - it is an error to specify a mask length that is too long for the address or one with bits set in this host portion of the address.

For example,

.Dq 192.0.2.0/33

and

.Dq 192.0.2.0/8

respectively.

.Pp

Only a subset of keywords may be used on the lines following a

.Cm Match

keyword.

Available keywords are

.Cm AcceptEnv ,

.Cm AllowAgentForwarding ,

.Cm AllowGroups ,

.Cm AllowStreamLocalForwarding ,

.Cm AllowTcpForwarding ,

.Cm AllowUsers ,

.Cm AuthenticationMethods ,

.Cm AuthorizedKeysCommand ,

.Cm AuthorizedKeysCommandUser ,

.Cm AuthorizedKeysFile ,

.Cm AuthorizedPrincipalsCommand ,

.Cm AuthorizedPrincipalsCommandUser ,

.Cm AuthorizedPrincipalsFile ,

.Cm Banner ,

.Cm ChrootDirectory ,

.Cm DenyGroups ,

.Cm DenyUsers ,

.Cm ForceCommand ,

.Cm GatewayPorts ,

.Cm GSSAPIAuthentication ,

.Cm HostbasedAcceptedKeyTypes ,

.Cm HostbasedAuthentication ,  
.Cm HostbasedUsesNameFromPacketOnly ,  
.Cm IPQoS ,  
.Cm KbdInteractiveAuthentication ,  
.Cm KerberosAuthentication ,  
.Cm MaxAuthTries ,  
.Cm MaxSessions ,  
.Cm PasswordAuthentication ,  
.Cm PermitEmptyPasswords ,  
.Cm PermitOpen ,  
.Cm PermitRootLogin ,  
.Cm PermitTTY ,  
.Cm PermitTunnel ,  
.Cm PermitUserRC ,  
.Cm PubkeyAcceptedKeyTypes ,  
.Cm PubkeyAuthentication ,  
.Cm RekeyLimit ,  
.Cm RevokedKeys ,  
.Cm RhostsRSAAuthentication ,  
.Cm RSAAuthentication ,  
.Cm StreamLocalBindMask ,  
.Cm StreamLocalBindUnlink ,  
.Cm TrustedUserCAKeys ,  
.Cm X11DisplayOffset ,  
.Cm X11Forwarding  
and  
.Cm X11UseLocalHost .

.It Cm MaxAuthTries

Specifies the maximum number of authentication attempts permitted per connection.

Once the number of failures reaches half this value, additional failures are logged.

The default is 6.

.It Cm MaxSessions

Specifies the maximum number of open shell, login or subsystem (e.g. sftp) sessions permitted per network connection.

Multiple sessions may be established by clients that support connection multiplexing.

Setting

.Cm MaxSessions

to 1 will effectively disable session multiplexing, whereas setting it to 0 will prevent all shell, login and subsystem sessions while still permitting forwarding.

The default is 10.

.It Cm MaxStartups

Specifies the maximum number of concurrent unauthenticated connections to the SSH daemon.

Additional connections will be dropped until authentication succeeds or the



.Cm LoginGraceTime

expires for a connection.

The default is 10:30:100.

.Pp

Alternatively, random early drop can be enabled by specifying the three colon separated values

.Dq start:rate:full

(e.g. "10:30:60").

.Xr sshd 8

will refuse connection attempts with a probability of

.Dq rate/100

(30%)

if there are currently

.Dq start

(10)

unauthenticated connections.

The probability increases linearly and all connection attempts are refused if the number of unauthenticated connections reaches

.Dq full

(60).

.It Cm PasswordAuthentication

Specifies whether password authentication is allowed.

The default is

.Dq yes .

.It Cm PermitEmptyPasswords

When password authentication is allowed, it specifies whether the server allows login to accounts with empty password strings.

The default is

.Dq no .

.It Cm PermitOpen

Specifies the destinations to which TCP port forwarding is permitted.

The forwarding specification must be one of the following forms:

.Pp

.Bl -item -offset indent -compact

.It

.Cm PermitOpen

.Sm off

.Ar host : port

.Sm on

.It

.Cm PermitOpen

.Sm off

.Ar IPv4\_addr : port

.Sm on

.It

.Cm PermitOpen

.Sm off

.Ar \&[ IPv6\_addr \&] : port

.Sm on

.El

.Pp

Multiple forwards may be specified by separating them with whitespace.

An argument of

.Dq any

can be used to remove all restrictions and permit any forwarding requests.

An argument of

.Dq none

can be used to prohibit all forwarding requests.

By default all port forwarding requests are permitted.

.It Cm PermitRootLogin

Specifies whether root can log in using

.Xr ssh 1 .

The argument must be

.Dq yes ,

.Dq prohibit-password ,

.Dq without-password ,

.Dq forced-commands-only ,

or

.Dq no .

The default is

.Dq prohibit-password .

.Pp

If this option is set to

.Dq prohibit-password

or

.Dq without-password ,

password and keyboard-interactive authentication are disabled for root.

.Pp

If this option is set to

.Dq forced-commands-only ,

root login with public key authentication will be allowed,

but only if the

.Ar command

option has been specified

(which may be useful for taking remote backups even if root login is normally not allowed).

All other authentication methods are disabled for root.

.Pp

If this option is set to

.Dq no ,

root is not allowed to log in.

.It Cm PermitTunnel

Specifies whether

.Xr tun 4

device forwarding is allowed.

The argument must be

.Dq yes ,  
.Dq point-to-point  
(layer 3),  
.Dq ethernet  
(layer 2), or  
.Dq no .  
Specifying  
.Dq yes  
permits both  
.Dq point-to-point  
and  
.Dq ethernet .  
The default is  
.Dq no .  
.Pp  
Independent of this setting, the permissions of the selected  
.Xr tun 4  
device must allow access to the user.  
.It Cm PermitTTY  
Specifies whether  
.Xr pty 4  
allocation is permitted.  
The default is  
.Dq yes .  
.It Cm PermitUserEnvironment  
Specifies whether  
.Pa ~/.ssh/environment  
and  
.Cm environment=  
options in  
.Pa ~/.ssh/authorized\_keys  
are processed by  
.Xr sshd 8 .  
The default is  
.Dq no .  
Enabling environment processing may enable users to bypass access  
restrictions in some configurations using mechanisms such as  
.Ev LD\_PRELOAD .  
.It Cm PermitUserRC  
Specifies whether any  
.Pa ~/.ssh/rc  
file is executed.  
The default is  
.Dq yes .  
.It Cm PidFile  
Specifies the file that contains the process ID of the  
SSH daemon, or  
.Dq none

to not write one.

The default is

.Pa /var/run/sshd.pid .

.It Cm Port

Specifies the port number that

.Xr sshd 8

listens on.

The default is 22.

Multiple options of this type are permitted.

See also

.Cm ListenAddress .

.It Cm PrintLastLog

Specifies whether

.Xr sshd 8

should print the date and time of the last user login when a user logs

in interactively.

The default is

.Dq yes .

.It Cm PrintMotd

Specifies whether

.Xr sshd 8

should print

.Pa /etc/motd

when a user logs in interactively.

(On some systems it is also printed by the shell,

.Pa /etc/profile ,

or equivalent.)

The default is

.Dq yes .

.It Cm Protocol

Specifies the protocol versions

.Xr sshd 8

supports.

The possible values are

.Sq 1

and

.Sq 2 .

Multiple versions must be comma-separated.

The default is

.Sq 2 .

Protocol 1 suffers from a number of cryptographic weaknesses and should

not be used.

It is only offered to support legacy devices.

.Pp

Note that the order of the protocol list does not indicate preference,

because the client selects among multiple protocol versions offered

by the server.

Specifying

.Dq 2,1

is identical to

.Dq 1,2 .

.It Cm PubkeyAcceptedKeyTypes

Specifies the key types that will be accepted for public key authentication as a comma-separated pattern list.

Alternately if the specified value begins with a

.Sq +

character, then the specified key types will be appended to the default set instead of replacing them.

The default for this option is:

.Bd -literal -offset 3n

ecdsa-sha2-nistp256-cert-v01@openssh.com,

ecdsa-sha2-nistp384-cert-v01@openssh.com,

ecdsa-sha2-nistp521-cert-v01@openssh.com,

ssh-ed25519-cert-v01@openssh.com,

ssh-rsa-cert-v01@openssh.com,

ecdsa-sha2-nistp256,ecdsa-sha2-nistp384,ecdsa-sha2-nistp521,

ssh-ed25519,ssh-rsa

.Ed

.Pp

The

.Fl Q

option of

.Xr ssh 1

may be used to list supported key types.

.It Cm PubkeyAuthentication

Specifies whether public key authentication is allowed.

The default is

.Dq yes .

.It Cm RekeyLimit

Specifies the maximum amount of data that may be transmitted before the session key is renegotiated, optionally followed a maximum amount of time that may pass before the session key is renegotiated.

The first argument is specified in bytes and may have a suffix of

.Sq K ,

.Sq M ,

or

.Sq G

to indicate Kilobytes, Megabytes, or Gigabytes, respectively.

The default is between

.Sq 1G

and

.Sq 4G ,

depending on the cipher.

The optional second value is specified in seconds and may use any of the units documented in the

.Sx TIME FORMATS

section.

The default value for

.Cm RekeyLimit

is

.Dq default none ,

which means that rekeying is performed after the cipher's default amount of data has been sent or received and no time based rekeying is done.

.It Cm RevokedKeys

Specifies revoked public keys file, or

.Dq none

to not use one.

Keys listed in this file will be refused for public key authentication.

Note that if this file is not readable, then public key authentication will be refused for all users.

Keys may be specified as a text file, listing one public key per line, or as an OpenSSH Key Revocation List (KRL) as generated by

.Xr ssh-keygen 1 .

For more information on KRLs, see the KEY REVOCATION LISTS section in

.Xr ssh-keygen 1 .

.It Cm RhostsRSAAuthentication

Specifies whether rhosts or /etc/hosts.equiv authentication together with successful RSA host authentication is allowed.

The default is

.Dq no .

This option applies to protocol version 1 only.

.It Cm RSAAuthentication

Specifies whether pure RSA authentication is allowed.

The default is

.Dq yes .

This option applies to protocol version 1 only.

.It Cm ServerKeyBits

Defines the number of bits in the ephemeral protocol version 1 server key.

The default and minimum value is 1024.

.It Cm StreamLocalBindMask

Sets the octal file creation mode mask

.Pq umask

used when creating a Unix-domain socket file for local or remote port forwarding.

This option is only used for port forwarding to a Unix-domain socket file.

.Pp

The default value is 0177, which creates a Unix-domain socket file that is readable and writable only by the owner.

Note that not all operating systems honor the file mode on Unix-domain socket files.

.It Cm StreamLocalBindUnlink

Specifies whether to remove an existing Unix-domain socket file for local or remote port forwarding before creating a new one.

If the socket file already exists and

.Cm StreamLocalBindUnlink

is not enabled,

.Nm sshd

will be unable to forward the port to the Unix-domain socket file.

This option is only used for port forwarding to a Unix-domain socket file.

.Pp

The argument must be

.Dq yes

or

.Dq no .

The default is

.Dq no .

.It Cm StrictModes

Specifies whether

.Xr sshd 8

should check file modes and ownership of the

user's files and home directory before accepting login.

This is normally desirable because novices sometimes accidentally leave their directory or files world-writable.

The default is

.Dq yes .

Note that this does not apply to

.Cm ChrootDirectory ,

whose permissions and ownership are checked unconditionally.

.It Cm Subsystem

Configures an external subsystem (e.g. file transfer daemon).

Arguments should be a subsystem name and a command (with optional arguments) to execute upon subsystem request.

.Pp

The command

.Xr sftp-server 8

implements the

.Dq sftp

file transfer subsystem.

.Pp

Alternately the name

.Dq internal-sftp

implements an in-process

.Dq sftp

server.

This may simplify configurations using

.Cm ChrootDirectory

to force a different filesystem root on clients.

.Pp

By default no subsystems are defined.

.It Cm SyslogFacility

Gives the facility code that is used when logging messages from

.Xr sshd 8 .

The possible values are: DAEMON, USER, AUTH, LOCAL0, LOCAL1, LOCAL2, LOCAL3, LOCAL4, LOCAL5, LOCAL6, LOCAL7.

The default is AUTH.

.It Cm TCPKeepAlive

Specifies whether the system should send TCP keepalive messages to the other side.

If they are sent, death of the connection or crash of one of the machines will be properly noticed.

However, this means that

connections will die if the route is down temporarily, and some people find it annoying.

On the other hand, if TCP keepalives are not sent, sessions may hang indefinitely on the server, leaving

.Dq ghost

users and consuming server resources.

.Pp

The default is

.Dq yes

(to send TCP keepalive messages), and the server will notice if the network goes down or the client host crashes.

This avoids infinitely hanging sessions.

.Pp

To disable TCP keepalive messages, the value should be set to

.Dq no .

.It Cm TrustedUserCAKeys

Specifies a file containing public keys of certificate authorities that are trusted to sign user certificates for authentication, or

.Dq none

to not use one.

Keys are listed one per line; empty lines and comments starting with

.Ql #

are allowed.

If a certificate is presented for authentication and has its signing CA key listed in this file, then it may be used for authentication for any user listed in the certificate's principals list.

Note that certificates that lack a list of principals will not be permitted for authentication using

.Cm TrustedUserCAKeys .

For more details on certificates, see the CERTIFICATES section in

.Xr ssh-keygen 1 .

.It Cm UseDNS

Specifies whether

.Xr sshd 8

should look up the remote host name, and to check that the resolved host name for the remote IP address maps back to the very same IP address.

.Pp

If this option is set to



.Dq no  
(the default) then only addresses and not host names may be used in

.Pa ~/.ssh/known\_hosts

.Cm from  
and

.Nm

.Cm Match

.Cm Host  
directives.

.It Cm UseLogin  
Specifies whether

.Xr login 1  
is used for interactive login sessions.  
The default is

.Dq no .  
Note that

.Xr login 1  
is never used for remote command execution.  
Note also, that if this is enabled,

.Cm X11Forwarding  
will be disabled because

.Xr login 1  
does not know how to handle

.Xr xauth 1  
cookies.

If

.Cm UsePrivilegeSeparation  
is specified, it will be disabled after authentication.

.It Cm UsePAM  
Enables the Pluggable Authentication Module interface.  
If set to

.Dq yes  
this will enable PAM authentication using

.Cm ChallengeResponseAuthentication  
and

.Cm PasswordAuthentication  
in addition to PAM account and session module processing for all  
authentication types.

.Pp  
Because PAM challenge-response authentication usually serves an equivalent  
role to password authentication, you should disable either

.Cm PasswordAuthentication  
or

.Cm ChallengeResponseAuthentication.

.Pp

If

.Cm UsePAM  
is enabled, you will not be able to run

.Xr sshd 8

as a non-root user.

The default is

.Dq no .

.It Cm UsePrivilegeSeparation

Specifies whether

.Xr sshd 8

separates privileges by creating an unprivileged child process to deal with incoming network traffic.

After successful authentication, another process will be created that has the privilege of the authenticated user.

The goal of privilege separation is to prevent privilege escalation by containing any corruption within the unprivileged processes.

The argument must be

.Dq yes ,

.Dq no ,

or

.Dq sandbox .

If

.Cm UsePrivilegeSeparation

is set to

.Dq sandbox

then the pre-authentication unprivileged process is subject to additional restrictions.

The default is

.Dq sandbox .

.It Cm VersionAddendum

Optionally specifies additional text to append to the SSH protocol banner sent by the server upon connection.

The default is

.Dq none .

.It Cm X11DisplayOffset

Specifies the first display number available for

.Xr sshd 8 Ns 's

X11 forwarding.

This prevents sshd from interfering with real X11 servers.

The default is 10.

.It Cm X11Forwarding

Specifies whether X11 forwarding is permitted.

The argument must be

.Dq yes

or

.Dq no .

The default is

.Dq no .

.Pp

When X11 forwarding is enabled, there may be additional exposure to the server and to client displays if the

.Xr sshd 8

proxy display is configured to listen on the wildcard address (see

.Cm X11UseLocalhost

below), though this is not the default.

Additionally, the authentication spoofing and authentication data verification and substitution occur on the client side.

The security risk of using X11 forwarding is that the client's X11 display server may be exposed to attack when the SSH client requests forwarding (see the warnings for

.Cm ForwardX11

in

.Xr ssh\_config 5 ) .

A system administrator may have a stance in which they want to protect clients that may expose themselves to attack by unwittingly requesting X11 forwarding, which can warrant a

.Dq no

setting.

.Pp

Note that disabling X11 forwarding does not prevent users from forwarding X11 traffic, as users can always install their own forwarders.

X11 forwarding is automatically disabled if

.Cm UseLogin

is enabled.

.It Cm X11UseLocalhost

Specifies whether

.Xr sshd 8

should bind the X11 forwarding server to the loopback address or to the wildcard address.

By default,

sshd binds the forwarding server to the loopback address and sets the hostname part of the

.Ev DISPLAY

environment variable to

.Dq localhost .

This prevents remote hosts from connecting to the proxy display.

However, some older X11 clients may not function with this configuration.

.Cm X11UseLocalhost

may be set to

.Dq no

to specify that the forwarding server should be bound to the wildcard address.

The argument must be

.Dq yes

or

.Dq no .

The default is

.Dq yes .

.It Cm XAuthLocation

Specifies the full pathname of the

.Xr xauth 1

program, or

.Dq none

to not use one.

The default is

.Pa /usr/X11R6/bin/xauth .

.El

.Sh TIME FORMATS

.Xr sshd 8

command-line arguments and configuration file options that specify time may be expressed using a sequence of the form:

.Sm off

.Ar time Op Ar qualifier ,

.Sm on

where

.Ar time

is a positive integer value and

.Ar qualifier

is one of the following:

.Pp

.Bl -tag -width Ds -compact -offset indent

.It Aq Cm none

seconds

.It Cm s | Cm S

seconds

.It Cm m | Cm M

minutes

.It Cm h | Cm H

hours

.It Cm d | Cm D

days

.It Cm w | Cm W

weeks

.El

.Pp

Each member of the sequence is added together to calculate the total time value.

.Pp

Time format examples:

.Pp

.Bl -tag -width Ds -compact -offset indent

.It 600

600 seconds (10 minutes)

.It 10m

10 minutes

.It 1h30m

1 hour 30 minutes (90 minutes)

.El

.Sh FILES

.Bl -tag -width Ds

.It Pa /etc/ssh/sshd\_config

Contains configuration data for

.Xr sshd 8 .

This file should be writable by root only, but it is recommended (though not necessary) that it be world-readable.

.El

.Sh SEE ALSO

.Xr sshd 8

.Sh AUTHORS

OpenSSH is a derivative of the original and free ssh 1.2.12 release by Tatu Ylonen.

Aaron Campbell, Bob Beck, Markus Friedl, Niels Provos, Theo de Raadt and Dug Song removed many bugs, re-added newer features and created OpenSSH.

Markus Friedl contributed the support for SSH protocol versions 1.5 and 2.0.

Niels Provos and Markus Friedl contributed support for privilege separation.

/\* \$OpenBSD: ssherr.c,v 1.5 2015/09/13 14:39:16 tim Exp \$ \*/

/\*

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\*/

#include <errno.h>

#include <string.h>

#include "ssherr.h"

const char \*

ssh\_err(int n)

{

switch (n) {

```

case SSH_ERR_SUCCESS:
    return "success";
case SSH_ERR_INTERNAL_ERROR:
    return "unexpected internal error";
case SSH_ERR_ALLOC_FAIL:
    return "memory allocation failed";
case SSH_ERR_MESSAGE_INCOMPLETE:
    return "incomplete message";
case SSH_ERR_INVALID_FORMAT:
    return "invalid format";
case SSH_ERR_BIGNUM_IS_NEGATIVE:
    return "bignum is negative";
case SSH_ERR_STRING_TOO_LARGE:
    return "string is too large";
case SSH_ERR_BIGNUM_TOO_LARGE:
    return "bignum is too large";
case SSH_ERR_ECPOINT_TOO_LARGE:
    return "elliptic curve point is too large";
case SSH_ERR_NO_BUFFER_SPACE:
    return "insufficient buffer space";
case SSH_ERR_INVALID_ARGUMENT:
    return "invalid argument";
case SSH_ERR_KEY_BITS_MISMATCH:
    return "key bits do not match";
case SSH_ERR_EC_CURVE_INVALID:
    return "invalid elliptic curve";
case SSH_ERR_KEY_TYPE_MISMATCH:
    return "key type does not match";
case SSH_ERR_KEY_TYPE_UNKNOWN:
    return "unknown or unsupported key type";
case SSH_ERR_EC_CURVE_MISMATCH:
    return "elliptic curve does not match";
case SSH_ERR_EXPECTED_CERT:
    return "plain key provided where certificate required";
case SSH_ERR_KEY_LACKS_CERTBLOB:
    return "key lacks certificate data";
case SSH_ERR_KEY_CERT_UNKNOWN_TYPE:
    return "unknown/unsupported certificate type";
case SSH_ERR_KEY_CERT_INVALID_SIGN_KEY:
    return "invalid certificate signing key";
case SSH_ERR_KEY_INVALID_EC_VALUE:
    return "invalid elliptic curve value";
case SSH_ERR_SIGNATURE_INVALID:
    return "incorrect signature";
case SSH_ERR_LIBCRYPTO_ERROR:
    return "error in libcrypto"; /* XXX fetch and return */
case SSH_ERR_UNEXPECTED_TRAILING_DATA:
    return "unexpected bytes remain after decoding";

```

```

case SSH_ERR_SYSTEM_ERROR:
    return strerror(errno);
case SSH_ERR_KEY_CERT_INVALID:
    return "invalid certificate";
case SSH_ERR_AGENT_COMMUNICATION:
    return "communication with agent failed";
case SSH_ERR_AGENT_FAILURE:
    return "agent refused operation";
case SSH_ERR_DH_GEX_OUT_OF_RANGE:
    return "DH GEX group out of range";
case SSH_ERR_DISCONNECTED:
    return "disconnected";
case SSH_ERR_MAC_INVALID:
    return "message authentication code incorrect";
case SSH_ERR_NO_CIPHER_ALG_MATCH:
    return "no matching cipher found";
case SSH_ERR_NO_MAC_ALG_MATCH:
    return "no matching MAC found";
case SSH_ERR_NO_COMPRESS_ALG_MATCH:
    return "no matching compression method found";
case SSH_ERR_NO_KEX_ALG_MATCH:
    return "no matching key exchange method found";
case SSH_ERR_NO_HOSTKEY_ALG_MATCH:
    return "no matching host key type found";
case SSH_ERR_PROTOCOL_MISMATCH:
    return "protocol version mismatch";
case SSH_ERR_NO_PROTOCOL_VERSION:
    return "could not read protocol version";
case SSH_ERR_NO_HOSTKEY_LOADED:
    return "could not load host key";
case SSH_ERR_NEED_REKEY:
    return "rekeying not supported by peer";
case SSH_ERR_PASSPHRASE_TOO_SHORT:
    return "passphrase is too short (minimum five characters)";
case SSH_ERR_FILE_CHANGED:
    return "file changed while reading";
case SSH_ERR_KEY_UNKNOWN_CIPHER:
    return "key encrypted using unsupported cipher";
case SSH_ERR_KEY_WRONG_PASSPHRASE:
    return "incorrect passphrase supplied to decrypt private key";
case SSH_ERR_KEY_BAD_PERMISSIONS:
    return "bad permissions";
case SSH_ERR_KEY_CERT_MISMATCH:
    return "certificate does not match key";
case SSH_ERR_KEY_NOT_FOUND:
    return "key not found";
case SSH_ERR_AGENT_NOT_PRESENT:
    return "agent not present";

```

```

case SSH_ERR_AGENT_NO_IDENTITIES:
    return "agent contains no identities";
case SSH_ERR_BUFFER_READ_ONLY:
    return "internal error: buffer is read-only";
case SSH_ERR_KRL_BAD_MAGIC:
    return "KRL file has invalid magic number";
case SSH_ERR_KEY_REVOKED:
    return "Key is revoked";
case SSH_ERR_CONN_CLOSED:
    return "Connection closed";
case SSH_ERR_CONN_TIMEOUT:
    return "Connection timed out";
case SSH_ERR_CONN_CORRUPT:
    return "Connection corrupted";
case SSH_ERR_PROTOCOL_ERROR:
    return "Protocol error";
default:
    return "unknown error";
}
}
/* $OpenBSD: ssherr.h,v 1.3 2015/01/30 01:13:33 djm Exp $ */
/*
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 */

#ifndef _SSHERR_H
#define _SSHERR_H

/* XXX are these too granular? not granular enough? I can't decide - djm */

/* Error codes */
#define SSH_ERR_SUCCESS 0
#define SSH_ERR_INTERNAL_ERROR -1
#define SSH_ERR_ALLOC_FAIL -2
#define SSH_ERR_MESSAGE_INCOMPLETE -3
#define SSH_ERR_INVALID_FORMAT -4

```



```
#define SSH_ERR_BIGNUM_IS_NEGATIVE -5
#define SSH_ERR_STRING_TOO_LARGE -6
#define SSH_ERR_BIGNUM_TOO_LARGE -7
#define SSH_ERR_ECPOINT_TOO_LARGE -8
#define SSH_ERR_NO_BUFFER_SPACE -9
#define SSH_ERR_INVALID_ARGUMENT -10
#define SSH_ERR_KEY_BITS_MISMATCH -11
#define SSH_ERR_EC_CURVE_INVALID -12
#define SSH_ERR_KEY_TYPE_MISMATCH -13
#define SSH_ERR_KEY_TYPE_UNKNOWN -14 /* XXX UNSUPPORTED? */
#define SSH_ERR_EC_CURVE_MISMATCH -15
#define SSH_ERR_EXPECTED_CERT -16
#define SSH_ERR_KEY_LACKS_CERTBLOB -17
#define SSH_ERR_KEY_CERT_UNKNOWN_TYPE -18
#define SSH_ERR_KEY_CERT_INVALID_SIGN_KEY -19
#define SSH_ERR_KEY_INVALID_EC_VALUE -20
#define SSH_ERR_SIGNATURE_INVALID -21
#define SSH_ERR_LIBCRYPTO_ERROR -22
#define SSH_ERR_UNEXPECTED_TRAILING_DATA -23
#define SSH_ERR_SYSTEM_ERROR -24
#define SSH_ERR_KEY_CERT_INVALID -25
#define SSH_ERR_AGENT_COMMUNICATION -26
#define SSH_ERR_AGENT_FAILURE -27
#define SSH_ERR_DH_GEX_OUT_OF_RANGE -28
#define SSH_ERR_DISCONNECTED -29
#define SSH_ERR_MAC_INVALID -30
#define SSH_ERR_NO_CIPHER_ALG_MATCH -31
#define SSH_ERR_NO_MAC_ALG_MATCH -32
#define SSH_ERR_NO_COMPRESS_ALG_MATCH -33
#define SSH_ERR_NO_KEX_ALG_MATCH -34
#define SSH_ERR_NO_HOSTKEY_ALG_MATCH -35
#define SSH_ERR_NO_HOSTKEY_LOADED -36
#define SSH_ERR_PROTOCOL_MISMATCH -37
#define SSH_ERR_NO_PROTOCOL_VERSION -38
#define SSH_ERR_NEED_REKEY -39
#define SSH_ERR_PASSPHRASE_TOO_SHORT -40
#define SSH_ERR_FILE_CHANGED -41
#define SSH_ERR_KEY_UNKNOWN_CIPHER -42
#define SSH_ERR_KEY_WRONG_PASSPHRASE -43
#define SSH_ERR_KEY_BAD_PERMISSIONS -44
#define SSH_ERR_KEY_CERT_MISMATCH -45
#define SSH_ERR_KEY_NOT_FOUND -46
#define SSH_ERR_AGENT_NOT_PRESENT -47
#define SSH_ERR_AGENT_NO_IDENTITY -48
#define SSH_ERR_BUFFER_READ_ONLY -49
#define SSH_ERR_KRL_BAD_MAGIC -50
#define SSH_ERR_KEY_REVOKED -51
#define SSH_ERR_CONN_CLOSED -52
```

```

#define SSH_ERR_CONN_TIMEOUT -53
#define SSH_ERR_CONN_CORRUPT -54
#define SSH_ERR_PROTOCOL_ERROR -55

/* Translate a numeric error code to a human-readable error string */
const char *ssh_err(int n);

#endif /* _SSHERR_H */
/* $OpenBSD: sshkey.c,v 1.31 2015/12/11 04:21:12 mmcc Exp $ */
/*
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 */

#include "includes.h"

#include <sys/param.h> /* MIN MAX */
#include <sys/types.h>
#include <netinet/in.h>

#ifdef WITH_OPENSSL
#include <openssl/evp.h>
#include <openssl/err.h>
#include <openssl/pem.h>
#endif

#include "crypto_api.h"

```

```

#include <errno.h>
#include <limits.h>
#include <stdio.h>
#include <string.h>
#include <resolv.h>
#ifdef HAVE_UTIL_H
#include <util.h>
#endif /* HAVE_UTIL_H */

#include "ssh2.h"
#include "ssherr.h"
#include "misc.h"
#include "sshbuf.h"
#include "rsa.h"
#include "cipher.h"
#include "digest.h"
#define SSHKEY_INTERNAL
#include "sshkey.h"
#include "match.h"

/* openssh private key file format */
#define MARK_BEGIN "-----BEGIN OPENSSH PRIVATE KEY-----\n"
#define MARK_END "-----END OPENSSH PRIVATE KEY-----\n"
#define MARK_BEGIN_LEN (sizeof(MARK_BEGIN) - 1)
#define MARK_END_LEN (sizeof(MARK_END) - 1)
#define KDFNAME "bcrypt"
#define AUTH_MAGIC "openssh-key-v1"
#define SALT_LEN 16
#define DEFAULT_CIPHERNAME "aes256-cbc"
#define DEFAULT_ROUNDS 16

/* Version identification string for SSH v1 identity files. */
#define LEGACY_BEGIN "SSH PRIVATE KEY FILE FORMAT 1.1\n"

static int sshkey_from_blob_internal(struct sshbuf *buf,
    struct sshkey **keyp, int allow_cert);

/* Supported key types */
struct keytype {
    const char *name;
    const char *shortname;
    int type;
    int nid;
    int cert;
    int sigonly;
};
static const struct keytype keytypes[] = {

```

```

{ "ssh-ed25519", "ED25519", KEY_ED25519, 0, 0, 0 },
{ "ssh-ed25519-cert-v01@openssh.com", "ED25519-CERT",
  KEY_ED25519_CERT, 0, 1, 0 },
#ifdef WITH_OPENSSL
{ NULL, "RSA1", KEY_RSA1, 0, 0, 0 },
{ "ssh-rsa", "RSA", KEY_RSA, 0, 0, 0 },
{ "rsa-sha2-256", "RSA", KEY_RSA, 0, 0, 1 },
{ "rsa-sha2-512", "RSA", KEY_RSA, 0, 0, 1 },
{ "ssh-dss", "DSA", KEY_DSA, 0, 0, 0 },
# ifdef OPENSSSL_HAS_ECC
{ "ecdsa-sha2-nistp256", "ECDSA", KEY_ECDSA, NID_X9_62_prime256v1, 0, 0 },
{ "ecdsa-sha2-nistp384", "ECDSA", KEY_ECDSA, NID_secp384r1, 0, 0 },
# ifdef OPENSSSL_HAS_NISTP521
{ "ecdsa-sha2-nistp521", "ECDSA", KEY_ECDSA, NID_secp521r1, 0, 0 },
# endif /* OPENSSSL_HAS_NISTP521 */
# endif /* OPENSSSL_HAS_ECC */
{ "ssh-rsa-cert-v01@openssh.com", "RSA-CERT", KEY_RSA_CERT, 0, 1, 0 },
{ "ssh-dss-cert-v01@openssh.com", "DSA-CERT", KEY_DSA_CERT, 0, 1, 0 },
# ifdef OPENSSSL_HAS_ECC
{ "ecdsa-sha2-nistp256-cert-v01@openssh.com", "ECDSA-CERT",
  KEY_ECDSA_CERT, NID_X9_62_prime256v1, 1, 0 },
{ "ecdsa-sha2-nistp384-cert-v01@openssh.com", "ECDSA-CERT",
  KEY_ECDSA_CERT, NID_secp384r1, 1, 0 },
# ifdef OPENSSSL_HAS_NISTP521
{ "ecdsa-sha2-nistp521-cert-v01@openssh.com", "ECDSA-CERT",
  KEY_ECDSA_CERT, NID_secp521r1, 1, 0 },
# endif /* OPENSSSL_HAS_NISTP521 */
# endif /* OPENSSSL_HAS_ECC */
#endif /* WITH_OPENSSL */
{ NULL, NULL, -1, -1, 0, 0 }
};

```

```

const char *
sshkey_type(const struct sshkey *k)
{
  const struct keytype *kt;

  for (kt = keytypes; kt->type != -1; kt++) {
    if (kt->type == k->type)
      return kt->shortname;
  }
  return "unknown";
}

static const char *
sshkey_ssh_name_from_type_nid(int type, int nid)
{
  const struct keytype *kt;

```

```

for (kt = keytypes; kt->type != -1; kt++) {
    if (kt->type == type && (kt->nid == 0 || kt->nid == nid))
        return kt->name;
    }
return "ssh-unknown";
}

int
sshkey_type_is_cert(int type)
{
    const struct keytype *kt;

    for (kt = keytypes; kt->type != -1; kt++) {
        if (kt->type == type)
            return kt->cert;
        }
    return 0;
}

const char *
sshkey_ssh_name(const struct sshkey *k)
{
    return sshkey_ssh_name_from_type_nid(k->type, k->ecdsa_nid);
}

const char *
sshkey_ssh_name_plain(const struct sshkey *k)
{
    return sshkey_ssh_name_from_type_nid(sshkey_type_plain(k->type),
        k->ecdsa_nid);
}

int
sshkey_type_from_name(const char *name)
{
    const struct keytype *kt;

    for (kt = keytypes; kt->type != -1; kt++) {
        /* Only allow shortname matches for plain key types */
        if ((kt->name != NULL && strcmp(name, kt->name) == 0) ||
            (!kt->cert && strcasecmp(kt->shortname, name) == 0))
            return kt->type;
        }
    return KEY_UNSPEC;
}

int

```

```

sshkey_ecdsa_nid_from_name(const char *name)
{
    const struct keytype *kt;

    for (kt = keytypes; kt->type != -1; kt++) {
        if (kt->type != KEY_ECDSA && kt->type != KEY_ECDSA_CERT)
            continue;
        if (kt->name != NULL && strcmp(name, kt->name) == 0)
            return kt->nid;
        }
    return -1;
}

```

```

char *
key_alg_list(int certs_only, int plain_only)
{
    char *tmp, *ret = NULL;
    size_t nlen, rlen = 0;
    const struct keytype *kt;

    for (kt = keytypes; kt->type != -1; kt++) {
        if (kt->name == NULL || kt->sigonly)
            continue;
        if ((certs_only && !kt->cert) || (plain_only && kt->cert))
            continue;
        if (ret != NULL)
            ret[rlen++] = '\n';
        nlen = strlen(kt->name);
        if ((tmp = realloc(ret, rlen + nlen + 2)) == NULL) {
            free(ret);
            return NULL;
        }
        ret = tmp;
        memcpy(ret + rlen, kt->name, nlen + 1);
        rlen += nlen;
    }
    return ret;
}

```

```

int
sshkey_names_valid2(const char *names, int allow_wildcard)
{
    char *s, *cp, *p;
    const struct keytype *kt;
    int type;

    if (names == NULL || strcmp(names, "") == 0)
        return 0;
}

```

```

if ((s = cp = strdup(names)) == NULL)
    return 0;
for ((p = strsep(&cp, ",")); p && *p != '\0';
     (p = strsep(&cp, ","))) {
    type = sshkey_type_from_name(p);
    if (type == KEY_RSA1) {
        free(s);
        return 0;
    }
    if (type == KEY_UNSPEC) {
        if (allow_wildcard) {
            /*
             * Try matching key types against the string.
             * If any has a positive or negative match then
             * the component is accepted.
             */
            for (kt = keytypes; kt->type != -1; kt++) {
                if (kt->type == KEY_RSA1)
                    continue;
                if (match_pattern_list(kt->name,
                                       p, 0) != 0)
                    break;
            }
            if (kt->type != -1)
                continue;
        }
        free(s);
        return 0;
    }
}
free(s);
return 1;
}

```

```

u_int
sshkey_size(const struct sshkey *k)
{
    switch (k->type) {
#ifdef WITH_OPENSSL
    case KEY_RSA1:
    case KEY_RSA:
    case KEY_RSA_CERT:
        return BN_num_bits(k->rsa->n);
    case KEY_DSA:
    case KEY_DSA_CERT:
        return BN_num_bits(k->dsa->p);
    case KEY_ECDSA:
    case KEY_ECDSA_CERT:

```

```

    return sshkey_curve_nid_to_bits(k->ecdsa_nid);
#endif /* WITH_OPENSSL */
case KEY_ED25519:
case KEY_ED25519_CERT:
    return 256; /* XXX */
}
return 0;
}

static int
sshkey_type_is_valid_ca(int type)
{
    switch (type) {
    case KEY_RSA:
    case KEY_DSA:
    case KEY_ECDSA:
    case KEY_ED25519:
        return 1;
    default:
        return 0;
    }
}

int
sshkey_is_cert(const struct sshkey *k)
{
    if (k == NULL)
        return 0;
    return sshkey_type_is_cert(k->type);
}

/* Return the cert-less equivalent to a certified key type */
int
sshkey_type_plain(int type)
{
    switch (type) {
    case KEY_RSA_CERT:
        return KEY_RSA;
    case KEY_DSA_CERT:
        return KEY_DSA;
    case KEY_ECDSA_CERT:
        return KEY_ECDSA;
    case KEY_ED25519_CERT:
        return KEY_ED25519;
    default:
        return type;
    }
}

```



```

#ifdef WITH_OPENSSL
/* XXX: these are really begging for a table-driven approach */
int
sshkey_curve_name_to_nid(const char *name)
{
    if (strcmp(name, "nistp256") == 0)
        return NID_X9_62_prime256v1;
    else if (strcmp(name, "nistp384") == 0)
        return NID_secp384r1;
    # ifdef OPENSSSL_HAS_NISTP521
    else if (strcmp(name, "nistp521") == 0)
        return NID_secp521r1;
    # endif /* OPENSSSL_HAS_NISTP521 */
    else
        return -1;
}

u_int
sshkey_curve_nid_to_bits(int nid)
{
    switch (nid) {
    case NID_X9_62_prime256v1:
        return 256;
    case NID_secp384r1:
        return 384;
    # ifdef OPENSSSL_HAS_NISTP521
    case NID_secp521r1:
        return 521;
    # endif /* OPENSSSL_HAS_NISTP521 */
    default:
        return 0;
    }
}

int
sshkey_ecdsa_bits_to_nid(int bits)
{
    switch (bits) {
    case 256:
        return NID_X9_62_prime256v1;
    case 384:
        return NID_secp384r1;
    # ifdef OPENSSSL_HAS_NISTP521
    case 521:
        return NID_secp521r1;
    # endif /* OPENSSSL_HAS_NISTP521 */
    default:

```

```

    return -1;
}
}

const char *
sshkey_curve_nid_to_name(int nid)
{
    switch (nid) {
    case NID_X9_62_prime256v1:
        return "nistp256";
    case NID_secp384r1:
        return "nistp384";
    # ifdef OPENSSSL_HAS_NISTP521
    case NID_secp521r1:
        return "nistp521";
    # endif /* OPENSSSL_HAS_NISTP521 */
    default:
        return NULL;
    }
}

int
sshkey_ec_nid_to_hash_alg(int nid)
{
    int kbits = sshkey_curve_nid_to_bits(nid);

    if (kbits <= 0)
        return -1;

    /* RFC5656 section 6.2.1 */
    if (kbits <= 256)
        return SSH_DIGEST_SHA256;
    else if (kbits <= 384)
        return SSH_DIGEST_SHA384;
    else
        return SSH_DIGEST_SHA512;
}
#endif /* WITH_OPENSSSL */

static void
cert_free(struct sshkey_cert *cert)
{
    u_int i;

    if (cert == NULL)
        return;
    sshbuf_free(cert->certblob);
    sshbuf_free(cert->critical);
}

```

```

sshbuf_free(cert->extensions);
free(cert->key_id);
for (i = 0; i < cert->nprincipals; i++)
    free(cert->principals[i]);
free(cert->principals);
sshkey_free(cert->signature_key);
explicit_bzero(cert, sizeof(*cert));
free(cert);
}

static struct sshkey_cert *
cert_new(void)
{
    struct sshkey_cert *cert;

    if ((cert = calloc(1, sizeof(*cert))) == NULL)
        return NULL;
    if ((cert->certblob = sshbuf_new()) == NULL ||
        (cert->critical = sshbuf_new()) == NULL ||
        (cert->extensions = sshbuf_new()) == NULL) {
        cert_free(cert);
        return NULL;
    }
    cert->key_id = NULL;
    cert->principals = NULL;
    cert->signature_key = NULL;
    return cert;
}

struct sshkey *
sshkey_new(int type)
{
    struct sshkey *k;
#ifdef WITH_OPENSSL
    RSA *rsa;
    DSA *dsa;
#endif /* WITH_OPENSSL */

    if ((k = calloc(1, sizeof(*k))) == NULL)
        return NULL;
    k->type = type;
    k->ecdsa = NULL;
    k->ecdsa_nid = -1;
    k->dsa = NULL;
    k->rsa = NULL;
    k->cert = NULL;
    k->ed25519_sk = NULL;
    k->ed25519_pk = NULL;
}

```

```

switch (k->type) {
#ifdef WITH_OPENSSL
case KEY_RSA1:
case KEY_RSA:
case KEY_RSA_CERT:
if ((rsa = RSA_new()) == NULL ||
    (rsa->n = BN_new()) == NULL ||
    (rsa->e = BN_new()) == NULL) {
if (rsa != NULL)
    RSA_free(rsa);
free(k);
return NULL;
}
k->rsa = rsa;
break;
case KEY_DSA:
case KEY_DSA_CERT:
if ((dsa = DSA_new()) == NULL ||
    (dsa->p = BN_new()) == NULL ||
    (dsa->q = BN_new()) == NULL ||
    (dsa->g = BN_new()) == NULL ||
    (dsa->pub_key = BN_new()) == NULL) {
if (dsa != NULL)
    DSA_free(dsa);
free(k);
return NULL;
}
k->dsa = dsa;
break;
case KEY_ECDSA:
case KEY_ECDSA_CERT:
/* Cannot do anything until we know the group */
break;
#endif /* WITH_OPENSSL */
case KEY_ED25519:
case KEY_ED25519_CERT:
/* no need to prealloc */
break;
case KEY_UNSPEC:
break;
default:
free(k);
return NULL;
break;
}

if (sshkey_is_cert(k) {
if ((k->cert = cert_new()) == NULL) {

```

```

    sshkey_free(k);
    return NULL;
}
}

return k;
}

int
sshkey_add_private(struct sshkey *k)
{
    switch (k->type) {
#ifdef WITH_OPENSSL
    case KEY_RSA1:
    case KEY_RSA:
    case KEY_RSA_CERT:
#define bn_maybe_alloc_failed(p) (p == NULL && (p = BN_new()) == NULL)
        if (bn_maybe_alloc_failed(k->rsa->d) ||
            bn_maybe_alloc_failed(k->rsa->iqmp) ||
            bn_maybe_alloc_failed(k->rsa->q) ||
            bn_maybe_alloc_failed(k->rsa->p) ||
            bn_maybe_alloc_failed(k->rsa->dmq1) ||
            bn_maybe_alloc_failed(k->rsa->dmp1))
            return SSH_ERR_ALLOC_FAIL;
        break;
    case KEY_DSA:
    case KEY_DSA_CERT:
        if (bn_maybe_alloc_failed(k->dsa->priv_key))
            return SSH_ERR_ALLOC_FAIL;
        break;
#undef bn_maybe_alloc_failed
    case KEY_ECDSA:
    case KEY_ECDSA_CERT:
        /* Cannot do anything until we know the group */
        break;
#endif /* WITH_OPENSSL */
    case KEY_ED25519:
    case KEY_ED25519_CERT:
        /* no need to prealloc */
        break;
    case KEY_UNSPEC:
        break;
    default:
        return SSH_ERR_INVALID_ARGUMENT;
    }
    return 0;
}

```

```

struct sshkey *
sshkey_new_private(int type)
{
    struct sshkey *k = sshkey_new(type);

    if (k == NULL)
        return NULL;
    if (sshkey_add_private(k) != 0) {
        sshkey_free(k);
        return NULL;
    }
    return k;
}

void
sshkey_free(struct sshkey *k)
{
    if (k == NULL)
        return;
    switch (k->type) {
#ifdef WITH_OPENSSL
    case KEY_RSA1:
    case KEY_RSA:
    case KEY_RSA_CERT:
        if (k->rsa != NULL)
            RSA_free(k->rsa);
        k->rsa = NULL;
        break;
    case KEY_DSA:
    case KEY_DSA_CERT:
        if (k->dsa != NULL)
            DSA_free(k->dsa);
        k->dsa = NULL;
        break;
#ifdef OPENSSL_HAS_ECC
    case KEY_ECDSA:
    case KEY_ECDSA_CERT:
        if (k->ecdsa != NULL)
            EC_KEY_free(k->ecdsa);
        k->ecdsa = NULL;
        break;
#endif
#endif /* OPENSSL_HAS_ECC */
#ifdef WITH_OPENSSL
    case KEY_ED25519:
    case KEY_ED25519_CERT:
        if (k->ed25519_pk) {
            explicit_bzero(k->ed25519_pk, ED25519_PK_SZ);
            free(k->ed25519_pk);

```

```

    k->ed25519_pk = NULL;
}
if (k->ed25519_sk) {
    explicit_bzero(k->ed25519_sk, ED25519_SK_SZ);
    free(k->ed25519_sk);
    k->ed25519_sk = NULL;
}
break;
case KEY_UNSPEC:
    break;
default:
    break;
}
if (sshkey_is_cert(k))
    cert_free(k->cert);
explicit_bzero(k, sizeof(*k));
free(k);
}

static int
cert_compare(struct sshkey_cert *a, struct sshkey_cert *b)
{
    if (a == NULL && b == NULL)
        return 1;
    if (a == NULL || b == NULL)
        return 0;
    if (sshbuf_len(a->certblob) != sshbuf_len(b->certblob))
        return 0;
    if (timingsafe_bcmp(sshbuf_ptr(a->certblob), sshbuf_ptr(b->certblob),
        sshbuf_len(a->certblob)) != 0)
        return 0;
    return 1;
}

/*
 * Compare public portions of key only, allowing comparisons between
 * certificates and plain keys too.
 */
int
sshkey_equal_public(const struct sshkey *a, const struct sshkey *b)
{
    #if defined(WITH_OPENSSL) && defined(OPENSSL_HAS_ECC)
    BN_CTX *bctx;
    #endif /* WITH_OPENSSL && OPENSSL_HAS_ECC */

    if (a == NULL || b == NULL ||
        sshkey_type_plain(a->type) != sshkey_type_plain(b->type))
        return 0;

```

```

switch (a->type) {
#ifdef WITH_OPENSSL
case KEY_RSA1:
case KEY_RSA_CERT:
case KEY_RSA:
return a->rsa != NULL && b->rsa != NULL &&
    BN_cmp(a->rsa->e, b->rsa->e) == 0 &&
    BN_cmp(a->rsa->n, b->rsa->n) == 0;
case KEY_DSA_CERT:
case KEY_DSA:
return a->dsa != NULL && b->dsa != NULL &&
    BN_cmp(a->dsa->p, b->dsa->p) == 0 &&
    BN_cmp(a->dsa->q, b->dsa->q) == 0 &&
    BN_cmp(a->dsa->g, b->dsa->g) == 0 &&
    BN_cmp(a->dsa->pub_key, b->dsa->pub_key) == 0;
# ifdef OPENSSL_HAS_ECC
case KEY_ECDSA_CERT:
case KEY_ECDSA:
if (a->ecdsa == NULL || b->ecdsa == NULL ||
    EC_KEY_get0_public_key(a->ecdsa) == NULL ||
    EC_KEY_get0_public_key(b->ecdsa) == NULL)
return 0;
if ((bnctx = BN_CTX_new()) == NULL)
return 0;
if (EC_GROUP_cmp(EC_KEY_get0_group(a->ecdsa),
    EC_KEY_get0_group(b->ecdsa), bnctx) != 0 ||
    EC_POINT_cmp(EC_KEY_get0_group(a->ecdsa),
    EC_KEY_get0_public_key(a->ecdsa),
    EC_KEY_get0_public_key(b->ecdsa), bnctx) != 0) {
BN_CTX_free(bnctx);
return 0;
}
BN_CTX_free(bnctx);
return 1;
# endif /* OPENSSL_HAS_ECC */
#endif /* WITH_OPENSSL */
case KEY_ED25519:
case KEY_ED25519_CERT:
return a->ed25519_pk != NULL && b->ed25519_pk != NULL &&
    memcmp(a->ed25519_pk, b->ed25519_pk, ED25519_PK_SZ) == 0;
default:
return 0;
}
/* NOTREACHED */
}

int

```



```

sshkey_equal(const struct sshkey *a, const struct sshkey *b)
{
    if (a == NULL || b == NULL || a->type != b->type)
        return 0;
    if (sshkey_is_cert(a)) {
        if (!cert_compare(a->cert, b->cert))
            return 0;
    }
    return sshkey_equal_public(a, b);
}

static int
to_blob_buf(const struct sshkey *key, struct sshbuf *b, int force_plain)
{
    int type, ret = SSH_ERR_INTERNAL_ERROR;
    const char *typename;

    if (key == NULL)
        return SSH_ERR_INVALID_ARGUMENT;

    if (sshkey_is_cert(key)) {
        if (key->cert == NULL)
            return SSH_ERR_EXPECTED_CERT;
        if (sshbuf_len(key->cert->certblob) == 0)
            return SSH_ERR_KEY_LACKS_CERTBLOB;
    }
    type = force_plain ? sshkey_type_plain(key->type) : key->type;
    typename = sshkey_ssh_name_from_type_nid(type, key->ecdsa_nid);

    switch (type) {
#ifdef WITH_OPENSSL
    case KEY_DSA_CERT:
    case KEY_ECDSA_CERT:
    case KEY_RSA_CERT:
#endif /* WITH_OPENSSL */
    case KEY_ED25519_CERT:
        /* Use the existing blob */
        /* XXX modified flag? */
        if ((ret = sshbuf_putb(b, key->cert->certblob)) != 0)
            return ret;
        break;
#ifdef WITH_OPENSSL
    case KEY_DSA:
        if (key->dsa == NULL)
            return SSH_ERR_INVALID_ARGUMENT;
        if ((ret = sshbuf_put_cstring(b, typename)) != 0 ||
            (ret = sshbuf_put_bignum2(b, key->dsa->p)) != 0 ||
            (ret = sshbuf_put_bignum2(b, key->dsa->q)) != 0)

```

```

        (ret = sshbuf_put_bignum2(b, key->dsa->g)) != 0 ||
        (ret = sshbuf_put_bignum2(b, key->dsa->pub_key)) != 0)
    return ret;
    break;
# ifdef OPENSSSL_HAS_ECC
case KEY_ECDSA:
    if (key->ecdsa == NULL)
        return SSH_ERR_INVALID_ARGUMENT;
    if ((ret = sshbuf_put_cstring(b, typename)) != 0 ||
        (ret = sshbuf_put_cstring(b,
            sshkey_curve_nid_to_name(key->ecdsa_nid))) != 0 ||
        (ret = sshbuf_put_eckey(b, key->ecdsa)) != 0)
        return ret;
    break;
# endif
case KEY_RSA:
    if (key->rsa == NULL)
        return SSH_ERR_INVALID_ARGUMENT;
    if ((ret = sshbuf_put_cstring(b, typename)) != 0 ||
        (ret = sshbuf_put_bignum2(b, key->rsa->e)) != 0 ||
        (ret = sshbuf_put_bignum2(b, key->rsa->n)) != 0)
        return ret;
    break;
# endif /* WITH_OPENSSSL */
case KEY_ED25519:
    if (key->ed25519_pk == NULL)
        return SSH_ERR_INVALID_ARGUMENT;
    if ((ret = sshbuf_put_cstring(b, typename)) != 0 ||
        (ret = sshbuf_put_string(b,
            key->ed25519_pk, ED25519_PK_SZ)) != 0)
        return ret;
    break;
default:
    return SSH_ERR_KEY_TYPE_UNKNOWN;
}
return 0;
}

int
sshkey_putb(const struct sshkey *key, struct sshbuf *b)
{
    return to_blob_buf(key, b, 0);
}

int
sshkey_puts(const struct sshkey *key, struct sshbuf *b)
{
    struct sshbuf *tmp;

```

```

int r;

if ((tmp = sshbuf_new()) == NULL)
    return SSH_ERR_ALLOC_FAIL;
r = to_blob_buf(key, tmp, 0);
if (r == 0)
    r = sshbuf_put_stringb(b, tmp);
sshbuf_free(tmp);
return r;
}

int
sshkey_putb_plain(const struct sshkey *key, struct sshbuf *b)
{
    return to_blob_buf(key, b, 1);
}

static int
to_blob(const struct sshkey *key, u_char **blobp, size_t *lenp, int force_plain)
{
    int ret = SSH_ERR_INTERNAL_ERROR;
    size_t len;
    struct sshbuf *b = NULL;

    if (lenp != NULL)
        *lenp = 0;
    if (blobp != NULL)
        *blobp = NULL;
    if ((b = sshbuf_new()) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    if ((ret = to_blob_buf(key, b, force_plain)) != 0)
        goto out;
    len = sshbuf_len(b);
    if (lenp != NULL)
        *lenp = len;
    if (blobp != NULL) {
        if ((*blobp = malloc(len)) == NULL) {
            ret = SSH_ERR_ALLOC_FAIL;
            goto out;
        }
        memcpy(*blobp, sshbuf_ptr(b), len);
    }
    ret = 0;
out:
    sshbuf_free(b);
    return ret;
}

```

```

int
sshkey_to_blob(const struct sshkey *key, u_char **blobp, size_t *lenp)
{
    return to_blob(key, blobp, lenp, 0);
}

int
sshkey_plain_to_blob(const struct sshkey *key, u_char **blobp, size_t *lenp)
{
    return to_blob(key, blobp, lenp, 1);
}

int
sshkey_fingerprint_raw(const struct sshkey *k, int dgst_alg,
    u_char **retp, size_t *lenp)
{
    u_char *blob = NULL, *ret = NULL;
    size_t blob_len = 0;
    int r = SSH_ERR_INTERNAL_ERROR;

    if (retp != NULL)
        *retp = NULL;
    if (lenp != NULL)
        *lenp = 0;
    if (ssh_digest_bytes(dgst_alg) == 0) {
        r = SSH_ERR_INVALID_ARGUMENT;
        goto out;
    }

    if (k->type == KEY_RSA1) {
#ifdef WITH_OPENSSL
        int nlen = BN_num_bytes(k->rsa->n);
        int elen = BN_num_bytes(k->rsa->e);

        blob_len = nlen + elen;
        if (nlen >= INT_MAX - elen ||
            (blob = malloc(blob_len)) == NULL) {
            r = SSH_ERR_ALLOC_FAIL;
            goto out;
        }
        BN_bn2bin(k->rsa->n, blob);
        BN_bn2bin(k->rsa->e, blob + nlen);
#endif /* WITH_OPENSSL */
    } else if ((r = to_blob(k, &blob, &blob_len, 1)) != 0)
        goto out;
    if ((ret = calloc(1, SSH_DIGEST_MAX_LENGTH)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }

```

```

}
if ((r = ssh_digest_memory(dgst_alg, blob, blob_len,
    ret, SSH_DIGEST_MAX_LENGTH)) != 0)
    goto out;
/* success */
if (retp != NULL) {
    *retp = ret;
    ret = NULL;
}
if (lenp != NULL)
    *lenp = ssh_digest_bytes(dgst_alg);
r = 0;
out:
free(ret);
if (blob != NULL) {
    explicit_bzero(blob, blob_len);
    free(blob);
}
return r;
}

static char *
fingerprint_b64(const char *alg, u_char *dgst_raw, size_t dgst_raw_len)
{
    char *ret;
    size_t plen = strlen(alg) + 1;
    size_t rlen = ((dgst_raw_len + 2) / 3) * 4 + plen + 1;
    int r;

    if (dgst_raw_len > 65536 || (ret = calloc(1, rlen)) == NULL)
        return NULL;
    strncpy(ret, alg, rlen);
    strcat(ret, ":", rlen);
    if (dgst_raw_len == 0)
        return ret;
    if ((r = b64_ntop(dgst_raw, dgst_raw_len,
        ret + plen, rlen - plen)) == -1) {
        explicit_bzero(ret, rlen);
        free(ret);
        return NULL;
    }
    /* Trim padding characters from end */
    ret[strcspn(ret, "=")] = '\0';
    return ret;
}

static char *
fingerprint_hex(const char *alg, u_char *dgst_raw, size_t dgst_raw_len)

```

```

{
char *retval, hex[5];
size_t i, rlen = dgst_raw_len * 3 + strlen(alg) + 2;

if (dgst_raw_len > 65536 || (retval = calloc(1, rlen)) == NULL)
return NULL;
strncpy(retval, alg, rlen);
strlcat(retval, ":", rlen);
for (i = 0; i < dgst_raw_len; i++) {
snprintf(hex, sizeof(hex), "%s%02x",
i > 0 ? ":" : "", dgst_raw[i]);
strlcat(retval, hex, rlen);
}
return retval;
}

```

```

static char *
fingerprint_bubblebabble(u_char *dgst_raw, size_t dgst_raw_len)
{
char vowels[] = { 'a', 'e', 'i', 'o', 'u', 'y' };
char consonants[] = { 'b', 'c', 'd', 'f', 'g', 'h', 'k', 'l', 'm',
'n', 'p', 'r', 's', 't', 'v', 'z', 'x' };
u_int i, j = 0, rounds, seed = 1;
char *retval;

rounds = (dgst_raw_len / 2) + 1;
if ((retval = calloc(rounds, 6)) == NULL)
return NULL;
retval[j++] = 'x';
for (i = 0; i < rounds; i++) {
u_int idx0, idx1, idx2, idx3, idx4;
if ((i + 1 < rounds) || (dgst_raw_len % 2 != 0)) {
idx0 = (((u_int)(dgst_raw[2 * i])) >> 6) & 3) +
seed) % 6;
idx1 = (((u_int)(dgst_raw[2 * i])) >> 2) & 15;
idx2 = (((u_int)(dgst_raw[2 * i])) & 3) +
(seed / 6) % 6;
retval[j++] = vowels[idx0];
retval[j++] = consonants[idx1];
retval[j++] = vowels[idx2];
if ((i + 1) < rounds) {
idx3 = (((u_int)(dgst_raw[(2 * i) + 1])) >> 4) & 15;
idx4 = (((u_int)(dgst_raw[(2 * i) + 1])) & 15;
retval[j++] = consonants[idx3];
retval[j++] = '-';
retval[j++] = consonants[idx4];
seed = ((seed * 5) +
(((u_int)(dgst_raw[2 * i])) * 7) +

```

```

        ((u_int)(dgst_raw[(2 * i) + 1]))) % 36;
    }
} else {
    idx0 = seed % 6;
    idx1 = 16;
    idx2 = seed / 6;
    retval[j++] = vowels[idx0];
    retval[j++] = consonants[idx1];
    retval[j++] = vowels[idx2];
}
}
retval[j++] = 'x';
retval[j++] = '\0';
return retval;
}

/*
 * Draw an ASCII-Art representing the fingerprint so human brain can
 * profit from its built-in pattern recognition ability.
 * This technique is called "random art" and can be found in some
 * scientific publications like this original paper:
 *
 * "Hash Visualization: a New Technique to improve Real-World Security",
 * Perrig A. and Song D., 1999, International Workshop on Cryptographic
 * Techniques and E-Commerce (CrypTEC '99)
 * sparrow.ece.cmu.edu/~adrian/projects/validation/validation.pdf
 *
 * The subject came up in a talk by Dan Kaminsky, too.
 *
 * If you see the picture is different, the key is different.
 * If the picture looks the same, you still know nothing.
 *
 * The algorithm used here is a worm crawling over a discrete plane,
 * leaving a trace (augmenting the field) everywhere it goes.
 * Movement is taken from dgst_raw 2bit-wise. Bumping into walls
 * makes the respective movement vector be ignored for this turn.
 * Graphs are not unambiguous, because circles in graphs can be
 * walked in either direction.
 */

/*
 * Field sizes for the random art. Have to be odd, so the starting point
 * can be in the exact middle of the picture, and FLDBASE should be >=8 .
 * Else pictures would be too dense, and drawing the frame would
 * fail, too, because the key type would not fit in anymore.
 */
#define FLDBASE 8
#define FLDSIZE_Y (FLDBASE + 1)

```

```

#define FLDSIZE_X (FLDBASE * 2 + 1)
static char *
fingerprint_randomart(const char *alg, u_char *dgst_raw, size_t dgst_raw_len,
    const struct sshkey *k)
{
    /*
     * Chars to be used after each other every time the worm
     * intersects with itself. Matter of taste.
     */
    char *augmentation_string = ".o+=*BOX@%&#/^SE";
    char *retval, *p, title[FLDSIZE_X], hash[FLDSIZE_X];
    u_char field[FLDSIZE_X][FLDSIZE_Y];
    size_t i, tlen, hlen;
    u_int b;
    int x, y, r;
    size_t len = strlen(augmentation_string) - 1;

    if ((retval = calloc((FLDSIZE_X + 3), (FLDSIZE_Y + 2))) == NULL)
        return NULL;

    /* initialize field */
    memset(field, 0, FLDSIZE_X * FLDSIZE_Y * sizeof(char));
    x = FLDSIZE_X / 2;
    y = FLDSIZE_Y / 2;

    /* process raw key */
    for (i = 0; i < dgst_raw_len; i++) {
        int input;
        /* each byte conveys four 2-bit move commands */
        input = dgst_raw[i];
        for (b = 0; b < 4; b++) {
            /* evaluate 2 bit, rest is shifted later */
            x += (input & 0x1) ? 1 : -1;
            y += (input & 0x2) ? 1 : -1;

            /* assure we are still in bounds */
            x = MAX(x, 0);
            y = MAX(y, 0);
            x = MIN(x, FLDSIZE_X - 1);
            y = MIN(y, FLDSIZE_Y - 1);

            /* augment the field */
            if (field[x][y] < len - 2)
                field[x][y]++;
            input = input >> 2;
        }
    }
}

```



```

/* mark starting point and end point*/
field[FLDSIZE_X / 2][FLDSIZE_Y / 2] = len - 1;
field[x][y] = len;

/* assemble title */
r = snprintf(title, sizeof(title), "[%s %u]",
  sshkey_type(k), sshkey_size(k));
/* If [type size] won't fit, then try [type]; fits "[ED25519-CERT]" */
if (r < 0 || r > (int)sizeof(title))
  r = snprintf(title, sizeof(title), "[%s]", sshkey_type(k));
tlen = (r <= 0) ? 0 : strlen(title);

/* assemble hash ID. */
r = snprintf(hash, sizeof(hash), "[%s]", alg);
hlen = (r <= 0) ? 0 : strlen(hash);

/* output upper border */
p = retval;
*p++ = '+';
for (i = 0; i < (FLDSIZE_X - tlen) / 2; i++)
  *p++ = '-';
memcpy(p, title, tlen);
p += tlen;
for (i += tlen; i < FLDSIZE_X; i++)
  *p++ = '-';
*p++ = '+';
*p++ = '\n';

/* output content */
for (y = 0; y < FLDSIZE_Y; y++) {
  *p++ = '|';
  for (x = 0; x < FLDSIZE_X; x++)
    *p++ = augmentation_string[MIN(field[x][y], len)];
  *p++ = '|';
  *p++ = '\n';
}

/* output lower border */
*p++ = '+';
for (i = 0; i < (FLDSIZE_X - hlen) / 2; i++)
  *p++ = '-';
memcpy(p, hash, hlen);
p += hlen;
for (i += hlen; i < FLDSIZE_X; i++)
  *p++ = '-';
*p++ = '+';

return retval;

```

```

}

char *
sshkey_fingerprint(const struct sshkey *k, int dgst_alg,
    enum sshkey_fp_rep dgst_rep)
{
    char *retval = NULL;
    u_char *dgst_raw;
    size_t dgst_raw_len;

    if (sshkey_fingerprint_raw(k, dgst_alg, &dgst_raw, &dgst_raw_len) != 0)
        return NULL;
    switch (dgst_rep) {
    case SSH_FP_DEFAULT:
        if (dgst_alg == SSH_DIGEST_MD5) {
            retval = fingerprint_hex(ssh_digest_alg_name(dgst_alg),
                dgst_raw, dgst_raw_len);
        } else {
            retval = fingerprint_b64(ssh_digest_alg_name(dgst_alg),
                dgst_raw, dgst_raw_len);
        }
        break;
    case SSH_FP_HEX:
        retval = fingerprint_hex(ssh_digest_alg_name(dgst_alg),
            dgst_raw, dgst_raw_len);
        break;
    case SSH_FP_BASE64:
        retval = fingerprint_b64(ssh_digest_alg_name(dgst_alg),
            dgst_raw, dgst_raw_len);
        break;
    case SSH_FP_BUBBLEBABBLE:
        retval = fingerprint_bubblebabble(dgst_raw, dgst_raw_len);
        break;
    case SSH_FP_RANDOMART:
        retval = fingerprint_randomart(ssh_digest_alg_name(dgst_alg),
            dgst_raw, dgst_raw_len, k);
        break;
    default:
        explicit_bzero(dgst_raw, dgst_raw_len);
        free(dgst_raw);
        return NULL;
    }
    explicit_bzero(dgst_raw, dgst_raw_len);
    free(dgst_raw);
    return retval;
}

#ifdef WITH_SSH1

```

```

/*
 * Reads a multiple-precision integer in decimal from the buffer, and advances
 * the pointer. The integer must already be initialized. This function is
 * permitted to modify the buffer. This leaves *cpp to point just beyond the
 * last processed character.
 */
static int
read_decimal_bignum(char **cpp, BIGNUM *v)
{
    char *cp;
    size_t e;
    int skip = 1; /* skip white space */

    cp = *cpp;
    while (*cp == ' ' || *cp == '\t')
        cp++;
    e = strspn(cp, "0123456789");
    if (e == 0)
        return SSH_ERR_INVALID_FORMAT;
    if (e > SSHBUF_MAX_BIGNUM * 3)
        return SSH_ERR_BIGNUM_TOO_LARGE;
    if (cp[e] == '\0')
        skip = 0;
    else if (strchr("\t\r\n", cp[e]) == NULL)
        return SSH_ERR_INVALID_FORMAT;
    cp[e] = '\0';
    if (BN_dec2bn(&v, cp) <= 0)
        return SSH_ERR_INVALID_FORMAT;
    *cpp = cp + e + skip;
    return 0;
}
#endif /* WITH_SSH1 */

/* returns 0 ok, and < 0 error */
int
sshkey_read(struct sshkey *ret, char **cpp)
{
    struct sshkey *k;
    int retval = SSH_ERR_INVALID_FORMAT;
    char *ep, *cp, *space;
    int r, type, curve_nid = -1;
    struct sshbuf *blob;
#ifdef WITH_SSH1
    u_long bits;
#endif /* WITH_SSH1 */

    cp = *cpp;

```

```

switch (ret->type) {
case KEY_RSA1:
#ifdef WITH_SSH1
/* Get number of bits. */
bits = strtoul(cp, &ep, 10);
if (*cp == '\0' || strchr("\t\r\n", *ep) == NULL ||
    bits == 0 || bits > SSHBUF_MAX_BIGNUM * 8)
return SSH_ERR_INVALID_FORMAT; /* Bad bit count... */
/* Get public exponent, public modulus. */
if ((r = read_decimal_bignum(&ep, ret->rsa->e)) < 0)
return r;
if ((r = read_decimal_bignum(&ep, ret->rsa->n)) < 0)
return r;
/* validate the claimed number of bits */
if (BN_num_bits(ret->rsa->n) != (int)bits)
return SSH_ERR_KEY_BITS_MISMATCH;
*cpp = ep;
retval = 0;
#endif /* WITH_SSH1 */
break;
case KEY_UNSPEC:
case KEY_RSA:
case KEY_DSA:
case KEY_ECDSA:
case KEY_ED25519:
case KEY_DSA_CERT:
case KEY_ECDSA_CERT:
case KEY_RSA_CERT:
case KEY_ED25519_CERT:
space = strchr(cp, ' ');
if (space == NULL)
return SSH_ERR_INVALID_FORMAT;
*space = '\0';
type = sshkey_type_from_name(cp);
if (sshkey_type_plain(type) == KEY_ECDSA &&
    (curve_nid = sshkey_ecdsa_nid_from_name(cp)) == -1)
return SSH_ERR_EC_CURVE_INVALID;
*space = ' ';
if (type == KEY_UNSPEC)
return SSH_ERR_INVALID_FORMAT;
cp = space+1;
if (*cp == '\0')
return SSH_ERR_INVALID_FORMAT;
if (ret->type != KEY_UNSPEC && ret->type != type)
return SSH_ERR_KEY_TYPE_MISMATCH;
if ((blob = sshbuf_new()) == NULL)
return SSH_ERR_ALLOC_FAIL;
/* trim comment */

```

```

space = strchr(cp, ' ');
if (space) {
    /* advance 'space': skip whitespace */
    *space++ = '\0';
    while (*space == ' ' || *space == '\t')
        space++;
    ep = space;
} else
    ep = cp + strlen(cp);
if ((r = sshbuf_b64tod(blob, cp)) != 0) {
    sshbuf_free(blob);
    return r;
}
if ((r = sshkey_from_blob(sshbuf_ptr(blob),
    sshbuf_len(blob), &k)) != 0) {
    sshbuf_free(blob);
    return r;
}
sshbuf_free(blob);
if (k->type != type) {
    sshkey_free(k);
    return SSH_ERR_KEY_TYPE_MISMATCH;
}
if (sshkey_type_plain(type) == KEY_ECDSA &&
    curve_nid != k->ecdsa_nid) {
    sshkey_free(k);
    return SSH_ERR_EC_CURVE_MISMATCH;
}
ret->type = type;
if (sshkey_is_cert(ret)) {
    if (!sshkey_is_cert(k)) {
        sshkey_free(k);
        return SSH_ERR_EXPECTED_CERT;
    }
    if (ret->cert != NULL)
        cert_free(ret->cert);
    ret->cert = k->cert;
    k->cert = NULL;
}
switch (sshkey_type_plain(ret->type)) {
#ifdef WITH_OPENSSL
    case KEY_RSA:
        if (ret->rsa != NULL)
            RSA_free(ret->rsa);
        ret->rsa = k->rsa;
        k->rsa = NULL;
#ifdef DEBUG_PK
        RSA_print_fp(stderr, ret->rsa, 8);

```

```

#endif
    break;
    case KEY_DSA:
        if (ret->dsa != NULL)
            DSA_free(ret->dsa);
        ret->dsa = k->dsa;
        k->dsa = NULL;
#ifdef DEBUG_PK
        DSA_print_fp(stderr, ret->dsa, 8);
#endif
        break;
#ifdef OPENSSSL_HAS_ECC
    case KEY_ECDSA:
        if (ret->ecdsa != NULL)
            EC_KEY_free(ret->ecdsa);
        ret->ecdsa = k->ecdsa;
        ret->ecdsa_nid = k->ecdsa_nid;
        k->ecdsa = NULL;
        k->ecdsa_nid = -1;
#ifdef DEBUG_PK
        sshkey_dump_ec_key(ret->ecdsa);
#endif
        break;
#endif /* OPENSSSL_HAS_ECC */
#endif /* WITH_OPENSSSL */
    case KEY_ED25519:
        free(ret->ed25519_pk);
        ret->ed25519_pk = k->ed25519_pk;
        k->ed25519_pk = NULL;
#ifdef DEBUG_PK
        /* XXX */
#endif
        break;
    }
    *cpp = ep;
    retval = 0;
    /*XXXX*/
    sshkey_free(k);
    if (retval != 0)
        break;
    break;
default:
    return SSH_ERR_INVALID_ARGUMENT;
}
return retval;
}

int

```

```

sshkey_to_base64(const struct sshkey *key, char **b64p)
{
    int r = SSH_ERR_INTERNAL_ERROR;
    struct sshbuf *b = NULL;
    char *uu = NULL;

    if (b64p != NULL)
        *b64p = NULL;
    if ((b = sshbuf_new()) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    if ((r = sshkey_putb(key, b)) != 0)
        goto out;
    if ((uu = sshbuf_dtob64(b)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    /* Success */
    if (b64p != NULL) {
        *b64p = uu;
        uu = NULL;
    }
    r = 0;
out:
    sshbuf_free(b);
    free(uu);
    return r;
}

static int
sshkey_format_rsa1(const struct sshkey *key, struct sshbuf *b)
{
    int r = SSH_ERR_INTERNAL_ERROR;
#ifdef WITH_SSH1
    u_int bits = 0;
    char *dec_e = NULL, *dec_n = NULL;

    if (key->rsa == NULL || key->rsa->e == NULL ||
        key->rsa->n == NULL) {
        r = SSH_ERR_INVALID_ARGUMENT;
        goto out;
    }
    if ((dec_e = BN_bn2dec(key->rsa->e)) == NULL ||
        (dec_n = BN_bn2dec(key->rsa->n)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    /* size of modulus 'n' */
    if ((bits = BN_num_bits(key->rsa->n)) <= 0) {

```

```

r = SSH_ERR_INVALID_ARGUMENT;
goto out;
}
if ((r = sshbuf_putf(b, "%u %s %s", bits, dec_e, dec_n)) != 0)
goto out;

/* Success */
r = 0;
out:
if (dec_e != NULL)
OPENSSL_free(dec_e);
if (dec_n != NULL)
OPENSSL_free(dec_n);
#endif /* WITH_SSH1 */

return r;
}

static int
sshkey_format_text(const struct sshkey *key, struct sshbuf *b)
{
int r = SSH_ERR_INTERNAL_ERROR;
char *uu = NULL;

if (key->type == KEY_RSA1) {
if ((r = sshkey_format_rsa1(key, b)) != 0)
goto out;
} else {
/* Unsupported key types handled in sshkey_to_base64() */
if ((r = sshkey_to_base64(key, &uu)) != 0)
goto out;
if ((r = sshbuf_putf(b, "%s %s",
sshkey_ssh_name(key), uu)) != 0)
goto out;
}
r = 0;
out:
free(uu);
return r;
}

int
sshkey_write(const struct sshkey *key, FILE *f)
{
struct sshbuf *b = NULL;
int r = SSH_ERR_INTERNAL_ERROR;

if ((b = sshbuf_new()) == NULL)

```



```

return SSH_ERR_ALLOC_FAIL;
if ((r = sshkey_format_text(key, b)) != 0)
    goto out;
if (fwrite(sshbuf_ptr(b), sshbuf_len(b), 1, f) != 1) {
    if (feof(f))
        errno = EPIPE;
    r = SSH_ERR_SYSTEM_ERROR;
    goto out;
}
/* Success */
r = 0;
out:
sshbuf_free(b);
return r;
}

const char *
sshkey_cert_type(const struct sshkey *k)
{
    switch (k->cert->type) {
    case SSH2_CERT_TYPE_USER:
        return "user";
    case SSH2_CERT_TYPE_HOST:
        return "host";
    default:
        return "unknown";
    }
}

#ifdef WITH_OPENSSL
static int
rsa_generate_private_key(u_int bits, RSA **rsap)
{
    RSA *private = NULL;
    BIGNUM *f4 = NULL;
    int ret = SSH_ERR_INTERNAL_ERROR;

    if (rsap == NULL ||
        bits < SSH_RSA_MINIMUM_MODULUS_SIZE ||
        bits > SSHBUF_MAX_BIGNUM * 8)
        return SSH_ERR_INVALID_ARGUMENT;
    *rsap = NULL;
    if ((private = RSA_new()) == NULL || (f4 = BN_new()) == NULL) {
        ret = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    if (!BN_set_word(f4, RSA_F4) ||
        !RSA_generate_key_ex(private, bits, f4, NULL)) {

```

```

ret = SSH_ERR_LIBCRYPTO_ERROR;
goto out;
}
*rsap = private;
private = NULL;
ret = 0;
out:
if (private != NULL)
    RSA_free(private);
if (f4 != NULL)
    BN_free(f4);
return ret;
}

static int
dsa_generate_private_key(u_int bits, DSA **dsap)
{
    DSA *private;
    int ret = SSH_ERR_INTERNAL_ERROR;

    if (dsap == NULL || bits != 1024)
        return SSH_ERR_INVALID_ARGUMENT;
    if ((private = DSA_new()) == NULL) {
        ret = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    *dsap = NULL;
    if (!DSA_generate_parameters_ex(private, bits, NULL, 0, NULL,
        NULL, NULL) || !DSA_generate_key(private)) {
        ret = SSH_ERR_LIBCRYPTO_ERROR;
        goto out;
    }
    *dsap = private;
    private = NULL;
    ret = 0;
out:
if (private != NULL)
    DSA_free(private);
return ret;
}

#ifdef OPENSSSL_HAS_ECC
int
sshkey_ecdsa_key_to_nid(EC_KEY *k)
{
    EC_GROUP *eg;
    int nids[] = {
        NID_X9_62_prime256v1,

```

```

    NID_secp384r1,
# ifdef OPENSSSL_HAS_NISTP521
    NID_secp521r1,
# endif /* OPENSSSL_HAS_NISTP521 */
    -1
};
int nid;
u_int i;
BN_CTX *bnctx;
const EC_GROUP *g = EC_KEY_get0_group(k);

/*
 * The group may be stored in a ASN.1 encoded private key in one of two
 * ways: as a "named group", which is reconstituted by ASN.1 object ID
 * or explicit group parameters encoded into the key blob. Only the
 * "named group" case sets the group NID for us, but we can figure
 * it out for the other case by comparing against all the groups that
 * are supported.
 */
if ((nid = EC_GROUP_get_curve_name(g)) > 0)
    return nid;
if ((bnctx = BN_CTX_new()) == NULL)
    return -1;
for (i = 0; nids[i] != -1; i++) {
    if ((eg = EC_GROUP_new_by_curve_name(nids[i])) == NULL) {
        BN_CTX_free(bnctx);
        return -1;
    }
    if (EC_GROUP_cmp(g, eg, bnctx) == 0)
        break;
    EC_GROUP_free(eg);
}
BN_CTX_free(bnctx);
if (nids[i] != -1) {
    /* Use the group with the NID attached */
    EC_GROUP_set_asn1_flag(eg, OPENSSSL_EC_NAMED_CURVE);
    if (EC_KEY_set_group(k, eg) != 1) {
        EC_GROUP_free(eg);
        return -1;
    }
}
return nids[i];
}

static int
ecdsa_generate_private_key(u_int bits, int *nid, EC_KEY **ecdsap)
{
    EC_KEY *private;

```

```

int ret = SSH_ERR_INTERNAL_ERROR;

if (nid == NULL || ecdsap == NULL ||
    (*nid = sshkey_ecdsa_bits_to_nid(bits)) == -1)
    return SSH_ERR_INVALID_ARGUMENT;
*ecdsap = NULL;
if ((private = EC_KEY_new_by_curve_name(*nid)) == NULL) {
    ret = SSH_ERR_ALLOC_FAIL;
    goto out;
}
if (EC_KEY_generate_key(private) != 1) {
    ret = SSH_ERR_LIBCRYPTO_ERROR;
    goto out;
}
EC_KEY_set_asn1_flag(private, OPENSSL_EC_NAMED_CURVE);
*ecdsap = private;
private = NULL;
ret = 0;
out:
if (private != NULL)
    EC_KEY_free(private);
return ret;
}
#endif /* OPENSSL_HAS_ECC */
#endif /* WITH_OPENSSL */

```

```

int
sshkey_generate(int type, u_int bits, struct sshkey **keyp)
{
    struct sshkey *k;
    int ret = SSH_ERR_INTERNAL_ERROR;

    if (keyp == NULL)
        return SSH_ERR_INVALID_ARGUMENT;
    *keyp = NULL;
    if ((k = sshkey_new(KEY_UNSPEC)) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    switch (type) {
    case KEY_ED25519:
        if ((k->ed25519_pk = malloc(ED25519_PK_SZ)) == NULL ||
            (k->ed25519_sk = malloc(ED25519_SK_SZ)) == NULL) {
            ret = SSH_ERR_ALLOC_FAIL;
            break;
        }
        crypto_sign_ed25519_keypair(k->ed25519_pk, k->ed25519_sk);
        ret = 0;
        break;
    #ifdef WITH_OPENSSL

```

```

case KEY_DSA:
    ret = dsa_generate_private_key(bits, &k->dsa);
    break;
#ifdef OPENSSSL_HAS_ECC
case KEY_ECDSA:
    ret = ecdsa_generate_private_key(bits, &k->ecdsa_nid,
        &k->ecdsa);
    break;
#endif /* OPENSSSL_HAS_ECC */
case KEY_RSA:
case KEY_RSA1:
    ret = rsa_generate_private_key(bits, &k->rsa);
    break;
#endif /* WITH_OPENSSSL */
default:
    ret = SSH_ERR_INVALID_ARGUMENT;
}
if (ret == 0) {
    k->type = type;
    *keyp = k;
} else
    sshkey_free(k);
return ret;
}

int
sshkey_cert_copy(const struct sshkey *from_key, struct sshkey *to_key)
{
    u_int i;
    const struct sshkey_cert *from;
    struct sshkey_cert *to;
    int ret = SSH_ERR_INTERNAL_ERROR;

    if (to_key->cert != NULL) {
        cert_free(to_key->cert);
        to_key->cert = NULL;
    }

    if ((from = from_key->cert) == NULL)
        return SSH_ERR_INVALID_ARGUMENT;

    if ((to = to_key->cert = cert_new()) == NULL)
        return SSH_ERR_ALLOC_FAIL;

    if ((ret = sshbuf_putb(to->certblob, from->certblob)) != 0 ||
        (ret = sshbuf_putb(to->critical, from->critical)) != 0 ||
        (ret = sshbuf_putb(to->extensions, from->extensions)) != 0)
        return ret;
}

```

```

to->serial = from->serial;
to->type = from->type;
if (from->key_id == NULL)
    to->key_id = NULL;
else if ((to->key_id = strdup(from->key_id)) == NULL)
    return SSH_ERR_ALLOC_FAIL;
to->valid_after = from->valid_after;
to->valid_before = from->valid_before;
if (from->signature_key == NULL)
    to->signature_key = NULL;
else if ((ret = sshkey_from_private(from->signature_key,
    &to->signature_key)) != 0)
    return ret;

if (from->nprincipals > SSHKEY_CERT_MAX_PRINCIPALS)
    return SSH_ERR_INVALID_ARGUMENT;
if (from->nprincipals > 0) {
    if ((to->principals = calloc(from->nprincipals,
        sizeof(*to->principals))) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    for (i = 0; i < from->nprincipals; i++) {
        to->principals[i] = strdup(from->principals[i]);
        if (to->principals[i] == NULL) {
            to->nprincipals = i;
            return SSH_ERR_ALLOC_FAIL;
        }
    }
    to->nprincipals = from->nprincipals;
    return 0;
}

int
sshkey_from_private(const struct sshkey *k, struct sshkey **pkp)
{
    struct sshkey *n = NULL;
    int ret = SSH_ERR_INTERNAL_ERROR;

    *pkp = NULL;
    switch (k->type) {
#ifdef WITH_OPENSSL
    case KEY_DSA:
    case KEY_DSA_CERT:
        if ((n = sshkey_new(k->type)) == NULL)
            return SSH_ERR_ALLOC_FAIL;
        if ((BN_copy(n->dsa->p, k->dsa->p) == NULL) ||
            (BN_copy(n->dsa->q, k->dsa->q) == NULL) ||

```

```

        (BN_copy(n->dsa->g, k->dsa->g) == NULL) ||
        (BN_copy(n->dsa->pub_key, k->dsa->pub_key) == NULL)) {
    sshkey_free(n);
    return SSH_ERR_ALLOC_FAIL;
}
break;
#ifdef OPENSSSL_HAS_ECC
case KEY_ECDSA:
case KEY_ECDSA_CERT:
    if ((n = sshkey_new(k->type)) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    n->ecdsa_nid = k->ecdsa_nid;
    n->ecdsa = EC_KEY_new_by_curve_name(k->ecdsa_nid);
    if (n->ecdsa == NULL) {
        sshkey_free(n);
        return SSH_ERR_ALLOC_FAIL;
    }
    if (EC_KEY_set_public_key(n->ecdsa,
        EC_KEY_get0_public_key(k->ecdsa)) != 1) {
        sshkey_free(n);
        return SSH_ERR_LIBCRYPTO_ERROR;
    }
    break;
#endif /* OPENSSSL_HAS_ECC */
case KEY_RSA:
case KEY_RSA1:
case KEY_RSA_CERT:
    if ((n = sshkey_new(k->type)) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    if ((BN_copy(n->rsa->n, k->rsa->n) == NULL) ||
        (BN_copy(n->rsa->e, k->rsa->e) == NULL)) {
        sshkey_free(n);
        return SSH_ERR_ALLOC_FAIL;
    }
    break;
#endif /* WITH_OPENSSSL */
case KEY_ED25519:
case KEY_ED25519_CERT:
    if ((n = sshkey_new(k->type)) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    if (k->ed25519_pk != NULL) {
        if ((n->ed25519_pk = malloc(ED25519_PK_SZ)) == NULL) {
            sshkey_free(n);
            return SSH_ERR_ALLOC_FAIL;
        }
        memcpy(n->ed25519_pk, k->ed25519_pk, ED25519_PK_SZ);
    }
    break;

```

```

default:
return SSH_ERR_KEY_TYPE_UNKNOWN;
}
if (sshkey_is_cert(k)) {
if ((ret = sshkey_cert_copy(k, n)) != 0) {
sshkey_free(n);
return ret;
}
}
*pkp = n;
return 0;
}

static int
cert_parse(struct sshbuf *b, struct sshkey *key, struct sshbuf *certbuf)
{
struct sshbuf *principals = NULL, *crit = NULL;
struct sshbuf *exts = NULL, *ca = NULL;
u_char *sig = NULL;
size_t signed_len = 0, slen = 0, kidlen = 0;
int ret = SSH_ERR_INTERNAL_ERROR;

/* Copy the entire key blob for verification and later serialisation */
if ((ret = sshbuf_putb(key->cert->certblob, certbuf)) != 0)
return ret;

/* Parse body of certificate up to signature */
if ((ret = sshbuf_get_u64(b, &key->cert->serial)) != 0 ||
    (ret = sshbuf_get_u32(b, &key->cert->type)) != 0 ||
    (ret = sshbuf_get_cstring(b, &key->cert->key_id, &kidlen)) != 0 ||
    (ret = sshbuf_froms(b, &principals)) != 0 ||
    (ret = sshbuf_get_u64(b, &key->cert->valid_after)) != 0 ||
    (ret = sshbuf_get_u64(b, &key->cert->valid_before)) != 0 ||
    (ret = sshbuf_froms(b, &crit)) != 0 ||
    (ret = sshbuf_froms(b, &exts)) != 0 ||
    (ret = sshbuf_get_string_direct(b, NULL, NULL)) != 0 ||
    (ret = sshbuf_froms(b, &ca)) != 0) {
/* XXX debug print error for ret */
ret = SSH_ERR_INVALID_FORMAT;
goto out;
}

/* Signature is left in the buffer so we can calculate this length */
signed_len = sshbuf_len(key->cert->certblob) - sshbuf_len(b);

if ((ret = sshbuf_get_string(b, &sig, &slen)) != 0) {
ret = SSH_ERR_INVALID_FORMAT;
goto out;
}

```



```

}

if (key->cert->type != SSH2_CERT_TYPE_USER &&
    key->cert->type != SSH2_CERT_TYPE_HOST) {
    ret = SSH_ERR_KEY_CERT_UNKNOWN_TYPE;
    goto out;
}

/* Parse principals section */
while (sshbuf_len(principals) > 0) {
    char *principal = NULL;
    char **oprincipals = NULL;

    if (key->cert->nprincipals >= SSHKEY_CERT_MAX_PRINCIPALS) {
        ret = SSH_ERR_INVALID_FORMAT;
        goto out;
    }
    if ((ret = sshbuf_get_cstring(principals, &principal,
        NULL)) != 0) {
        ret = SSH_ERR_INVALID_FORMAT;
        goto out;
    }
    oprincipals = key->cert->principals;
    key->cert->principals = reallocarray(key->cert->principals,
        key->cert->nprincipals + 1, sizeof(*key->cert->principals));
    if (key->cert->principals == NULL) {
        free(principal);
        key->cert->principals = oprincipals;
        ret = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    key->cert->principals[key->cert->nprincipals++] = principal;
}

/*
 * Stash a copies of the critical options and extensions sections
 * for later use.
 */
if ((ret = sshbuf_putb(key->cert->critical, crit) != 0 ||
    (exts != NULL &&
    (ret = sshbuf_putb(key->cert->extensions, exts)) != 0))
    goto out;

/*
 * Validate critical options and extensions sections format.
 */
while (sshbuf_len(crit) != 0) {
    if ((ret = sshbuf_get_string_direct(crit, NULL, NULL)) != 0 ||

```

```

    (ret = sshbuf_get_string_direct(crit, NULL, NULL)) != 0) {
sshbuf_reset(key->cert->critical);
ret = SSH_ERR_INVALID_FORMAT;
goto out;
}
}
while (exts != NULL && sshbuf_len(exts) != 0) {
if ((ret = sshbuf_get_string_direct(exts, NULL, NULL)) != 0 ||
    (ret = sshbuf_get_string_direct(exts, NULL, NULL)) != 0) {
sshbuf_reset(key->cert->extensions);
ret = SSH_ERR_INVALID_FORMAT;
goto out;
}
}

/* Parse CA key and check signature */
if (sshkey_from_blob_internal(ca, &key->cert->signature_key, 0) != 0) {
ret = SSH_ERR_KEY_CERT_INVALID_SIGN_KEY;
goto out;
}
if (!sshkey_type_is_valid_ca(key->cert->signature_key->type)) {
ret = SSH_ERR_KEY_CERT_INVALID_SIGN_KEY;
goto out;
}
if ((ret = sshkey_verify(key->cert->signature_key, sig, slen,
    sshbuf_ptr(key->cert->certblob), signed_len, 0)) != 0)
goto out;

/* Success */
ret = 0;
out:
sshbuf_free(ca);
sshbuf_free(crit);
sshbuf_free(exts);
sshbuf_free(principals);
free(sig);
return ret;
}

static int
sshkey_from_blob_internal(struct sshbuf *b, struct sshkey **keyp,
    int allow_cert)
{
int type, ret = SSH_ERR_INTERNAL_ERROR;
char *ktype = NULL, *curve = NULL;
struct sshkey *key = NULL;
size_t len;
u_char *pk = NULL;

```

```

struct sshbuf *copy;
#if defined(WITH_OPENSSL) && defined(OPENSSL_HAS_ECC)
    EC_POINT *q = NULL;
#endif /* WITH_OPENSSL && OPENSSL_HAS_ECC */

#ifdef DEBUG_PK /* XXX */
    sshbuf_dump(b, stderr);
#endif

*keyp = NULL;
if ((copy = sshbuf_fromb(b)) == NULL) {
    ret = SSH_ERR_ALLOC_FAIL;
    goto out;
}
if (sshbuf_get_cstring(b, &ktype, NULL) != 0) {
    ret = SSH_ERR_INVALID_FORMAT;
    goto out;
}

type = sshkey_type_from_name(ktype);
if (!allow_cert && sshkey_type_is_cert(type)) {
    ret = SSH_ERR_KEY_CERT_INVALID_SIGN_KEY;
    goto out;
}
switch (type) {
#ifdef WITH_OPENSSL
    case KEY_RSA_CERT:
        /* Skip nonce */
        if (sshbuf_get_string_direct(b, NULL, NULL) != 0) {
            ret = SSH_ERR_INVALID_FORMAT;
            goto out;
        }
        /* FALLTHROUGH */
    case KEY_RSA:
        if ((key = sshkey_new(type)) == NULL) {
            ret = SSH_ERR_ALLOC_FAIL;
            goto out;
        }
        if (sshbuf_get_bignum2(b, key->rsa->e) != 0 ||
            sshbuf_get_bignum2(b, key->rsa->n) != 0) {
            ret = SSH_ERR_INVALID_FORMAT;
            goto out;
        }
#ifdef DEBUG_PK
        RSA_print_fp(stderr, key->rsa, 8);
#endif
        break;
    case KEY_DSA_CERT:
        /* Skip nonce */

```

```

if (sshbuf_get_string_direct(b, NULL, NULL) != 0) {
    ret = SSH_ERR_INVALID_FORMAT;
    goto out;
}
/* FALLTHROUGH */
case KEY_DSA:
if ((key = sshkey_new(type)) == NULL) {
    ret = SSH_ERR_ALLOC_FAIL;
    goto out;
}
if (sshbuf_get_bignum2(b, key->dsa->p) != 0 ||
    sshbuf_get_bignum2(b, key->dsa->q) != 0 ||
    sshbuf_get_bignum2(b, key->dsa->g) != 0 ||
    sshbuf_get_bignum2(b, key->dsa->pub_key) != 0) {
    ret = SSH_ERR_INVALID_FORMAT;
    goto out;
}
#ifdef DEBUG_PK
    DSA_print_fp(stderr, key->dsa, 8);
#endif
break;
case KEY_ECDSA_CERT:
/* Skip nonce */
if (sshbuf_get_string_direct(b, NULL, NULL) != 0) {
    ret = SSH_ERR_INVALID_FORMAT;
    goto out;
}
/* FALLTHROUGH */
# ifdef OPENSSSL_HAS_ECC
case KEY_ECDSA:
if ((key = sshkey_new(type)) == NULL) {
    ret = SSH_ERR_ALLOC_FAIL;
    goto out;
}
key->ecdsa_nid = sshkey_ecdsa_nid_from_name(ktype);
if (sshbuf_get_cstring(b, &curve, NULL) != 0) {
    ret = SSH_ERR_INVALID_FORMAT;
    goto out;
}
if (key->ecdsa_nid != sshkey_curve_name_to_nid(curve)) {
    ret = SSH_ERR_EC_CURVE_MISMATCH;
    goto out;
}
if (key->ecdsa != NULL)
    EC_KEY_free(key->ecdsa);
if ((key->ecdsa = EC_KEY_new_by_curve_name(key->ecdsa_nid))
    == NULL) {
    ret = SSH_ERR_EC_CURVE_INVALID;

```

```

goto out;
}
if ((q = EC_POINT_new(EC_KEY_get0_group(key->ecdsa))) == NULL) {
ret = SSH_ERR_ALLOC_FAIL;
goto out;
}
if (sshbuf_get_ec(b, q, EC_KEY_get0_group(key->ecdsa)) != 0) {
ret = SSH_ERR_INVALID_FORMAT;
goto out;
}
if (sshkey_ec_validate_public(EC_KEY_get0_group(key->ecdsa),
q) != 0) {
ret = SSH_ERR_KEY_INVALID_EC_VALUE;
goto out;
}
if (EC_KEY_set_public_key(key->ecdsa, q) != 1) {
/* XXX assume it is a allocation error */
ret = SSH_ERR_ALLOC_FAIL;
goto out;
}
#ifdef DEBUG_PK
sshkey_dump_ec_point(EC_KEY_get0_group(key->ecdsa), q);
#endif
break;
# endif /* OPENSSSL_HAS_ECC */
#endif /* WITH_OPENSSSL */
case KEY_ED25519_CERT:
/* Skip nonce */
if (sshbuf_get_string_direct(b, NULL, NULL) != 0) {
ret = SSH_ERR_INVALID_FORMAT;
goto out;
}
/* FALLTHROUGH */
case KEY_ED25519:
if ((ret = sshbuf_get_string(b, &pk, &len)) != 0)
goto out;
if (len != ED25519_PK_SZ) {
ret = SSH_ERR_INVALID_FORMAT;
goto out;
}
if ((key = sshkey_new(type)) == NULL) {
ret = SSH_ERR_ALLOC_FAIL;
goto out;
}
key->ed25519_pk = pk;
pk = NULL;
break;
case KEY_UNSPEC:

```

```

if ((key = sshkey_new(type)) == NULL) {
    ret = SSH_ERR_ALLOC_FAIL;
    goto out;
}
break;
default:
    ret = SSH_ERR_KEY_TYPE_UNKNOWN;
    goto out;
}

/* Parse certificate portion */
if (sshkey_is_cert(key) && (ret = cert_parse(b, key, copy)) != 0)
    goto out;

if (key != NULL && sshbuf_len(b) != 0) {
    ret = SSH_ERR_INVALID_FORMAT;
    goto out;
}
ret = 0;
*keyp = key;
key = NULL;
out:
sshbuf_free(copy);
sshkey_free(key);
free(ktype);
free(curve);
free(pk);
#ifdef WITH_OPENSSL && defined(OPENSSL_HAS_ECC)
    if (q != NULL)
        EC_POINT_free(q);
#endif /* WITH_OPENSSL && OPENSSL_HAS_ECC */
return ret;
}

int
sshkey_from_blob(const u_char *blob, size_t blen, struct sshkey **keyp)
{
    struct sshbuf *b;
    int r;

    if ((b = sshbuf_from(blob, blen)) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    r = sshkey_from_blob_internal(b, keyp, 1);
    sshbuf_free(b);
    return r;
}

int

```

```

sshkey_fromb(struct sshbuf *b, struct sshkey **keyp)
{
    return sshkey_from_blob_internal(b, keyp, 1);
}

int
sshkey_froms(struct sshbuf *buf, struct sshkey **keyp)
{
    struct sshbuf *b;
    int r;

    if ((r = sshbuf_froms(buf, &b)) != 0)
        return r;
    r = sshkey_from_blob_internal(b, keyp, 1);
    sshbuf_free(b);
    return r;
}

int
sshkey_sign(const struct sshkey *key,
            u_char **sigp, size_t *lenp,
            const u_char *data, size_t datalen, const char *alg, u_int compat)
{
    if (sigp != NULL)
        *sigp = NULL;
    if (lenp != NULL)
        *lenp = 0;
    if (datalen > SSH_KEY_MAX_SIGN_DATA_SIZE)
        return SSH_ERR_INVALID_ARGUMENT;
    switch (key->type) {
#ifdef WITH_OPENSSL
    case KEY_DSA_CERT:
    case KEY_DSA:
        return ssh_dss_sign(key, sigp, lenp, data, datalen, compat);
#ifdef OPENSSL_HAS_ECC
    case KEY_ECDSA_CERT:
    case KEY_ECDSA:
        return ssh_ecdsa_sign(key, sigp, lenp, data, datalen, compat);
#endif /* OPENSSL_HAS_ECC */
    case KEY_RSA_CERT:
    case KEY_RSA:
        return ssh_rsa_sign(key, sigp, lenp, data, datalen, alg);
#endif /* WITH_OPENSSL */
    case KEY_ED25519:
    case KEY_ED25519_CERT:
        return ssh_ed25519_sign(key, sigp, lenp, data, datalen, compat);
    default:
        return SSH_ERR_KEY_TYPE_UNKNOWN;
    }
}

```

```

}
}

/*
 * ssh_key_verify returns 0 for a correct signature and < 0 on error.
 */
int
sshkey_verify(const struct sshkey *key,
              const u_char *sig, size_t siglen,
              const u_char *data, size_t dlen, u_int compat)
{
    if (siglen == 0 || dlen > SSH_KEY_MAX_SIGN_DATA_SIZE)
        return SSH_ERR_INVALID_ARGUMENT;
    switch (key->type) {
#ifdef WITH_OPENSSL
    case KEY_DSA_CERT:
    case KEY_DSA:
        return ssh_dss_verify(key, sig, siglen, data, dlen, compat);
#ifdef OPENSSL_HAS_ECC
    case KEY_ECDSA_CERT:
    case KEY_ECDSA:
        return ssh_ecdsa_verify(key, sig, siglen, data, dlen, compat);
#endif /* OPENSSL_HAS_ECC */
    case KEY_RSA_CERT:
    case KEY_RSA:
        return ssh_rsa_verify(key, sig, siglen, data, dlen);
#endif /* WITH_OPENSSL */
    case KEY_ED25519:
    case KEY_ED25519_CERT:
        return ssh_ed25519_verify(key, sig, siglen, data, dlen, compat);
    default:
        return SSH_ERR_KEY_TYPE_UNKNOWN;
    }
}

/* Converts a private to a public key */
int
sshkey_demote(const struct sshkey *k, struct sshkey **dkp)
{
    struct sshkey *pk;
    int ret = SSH_ERR_INTERNAL_ERROR;

    *dkp = NULL;
    if ((pk = calloc(1, sizeof(*pk))) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    pk->type = k->type;
    pk->flags = k->flags;
    pk->ecdsa_nid = k->ecdsa_nid;

```



```

pk->dsa = NULL;
pk->ecdsa = NULL;
pk->rsa = NULL;
pk->ed25519_pk = NULL;
pk->ed25519_sk = NULL;

switch (k->type) {
#ifdef WITH_OPENSSL
case KEY_RSA_CERT:
if ((ret = sshkey_cert_copy(k, pk)) != 0)
goto fail;
/* FALLTHROUGH */
case KEY_RSA1:
case KEY_RSA:
if ((pk->rsa = RSA_new()) == NULL ||
(pk->rsa->e = BN_dup(k->rsa->e)) == NULL ||
(pk->rsa->n = BN_dup(k->rsa->n)) == NULL) {
ret = SSH_ERR_ALLOC_FAIL;
goto fail;
}
break;
case KEY_DSA_CERT:
if ((ret = sshkey_cert_copy(k, pk)) != 0)
goto fail;
/* FALLTHROUGH */
case KEY_DSA:
if ((pk->dsa = DSA_new()) == NULL ||
(pk->dsa->p = BN_dup(k->dsa->p)) == NULL ||
(pk->dsa->q = BN_dup(k->dsa->q)) == NULL ||
(pk->dsa->g = BN_dup(k->dsa->g)) == NULL ||
(pk->dsa->pub_key = BN_dup(k->dsa->pub_key)) == NULL) {
ret = SSH_ERR_ALLOC_FAIL;
goto fail;
}
break;
case KEY_ECDSA_CERT:
if ((ret = sshkey_cert_copy(k, pk)) != 0)
goto fail;
/* FALLTHROUGH */
#ifdef OPENSSL_HAS_ECC
case KEY_ECDSA:
pk->ecdsa = EC_KEY_new_by_curve_name(pk->ecdsa_nid);
if (pk->ecdsa == NULL) {
ret = SSH_ERR_ALLOC_FAIL;
goto fail;
}
if (EC_KEY_set_public_key(pk->ecdsa,
EC_KEY_get0_public_key(k->ecdsa)) != 1) {

```

```

    ret = SSH_ERR_LIBCRYPTO_ERROR;
    goto fail;
}
break;
#endif /* OPENSSSL_HAS_ECC */
#endif /* WITH_OPENSSSL */
case KEY_ED25519_CERT:
    if ((ret = sshkey_cert_copy(k, pk)) != 0)
        goto fail;
    /* FALLTHROUGH */
case KEY_ED25519:
    if (k->ed25519_pk != NULL) {
        if ((pk->ed25519_pk = malloc(ED25519_PK_SZ)) == NULL) {
            ret = SSH_ERR_ALLOC_FAIL;
            goto fail;
        }
        memcpy(pk->ed25519_pk, k->ed25519_pk, ED25519_PK_SZ);
    }
    break;
default:
    ret = SSH_ERR_KEY_TYPE_UNKNOWN;
fail:
    sshkey_free(pk);
    return ret;
}
*dkp = pk;
return 0;
}

/* Convert a plain key to their _CERT equivalent */
int
sshkey_to_certified(struct sshkey *k)
{
    int newtype;

    switch (k->type) {
#ifdef WITH_OPENSSSL
    case KEY_RSA:
        newtype = KEY_RSA_CERT;
        break;
    case KEY_DSA:
        newtype = KEY_DSA_CERT;
        break;
    case KEY_ECDSA:
        newtype = KEY_ECDSA_CERT;
        break;
#endif /* WITH_OPENSSSL */
    case KEY_ED25519:

```

```

newtype = KEY_ED25519_CERT;
break;
default:
return SSH_ERR_INVALID_ARGUMENT;
}
if ((k->cert = cert_new()) == NULL)
return SSH_ERR_ALLOC_FAIL;
k->type = newtype;
return 0;
}

/* Convert a certificate to its raw key equivalent */
int
sshkey_drop_cert(struct sshkey *k)
{
if (!sshkey_type_is_cert(k->type))
return SSH_ERR_KEY_TYPE_UNKNOWN;
cert_free(k->cert);
k->cert = NULL;
k->type = sshkey_type_plain(k->type);
return 0;
}

/* Sign a certified key, (re-)generating the signed certblob. */
int
sshkey_certify(struct sshkey *k, struct sshkey *ca)
{
struct sshbuf *principals = NULL;
u_char *ca_blob = NULL, *sig_blob = NULL, nonce[32];
size_t i, ca_len, sig_len;
int ret = SSH_ERR_INTERNAL_ERROR;
struct sshbuf *cert;

if (k == NULL || k->cert == NULL ||
    k->cert->certblob == NULL || ca == NULL)
return SSH_ERR_INVALID_ARGUMENT;
if (!sshkey_is_cert(k))
return SSH_ERR_KEY_TYPE_UNKNOWN;
if (!sshkey_type_is_valid_ca(ca->type))
return SSH_ERR_KEY_CERT_INVALID_SIGN_KEY;

if ((ret = sshkey_to_blob(ca, &ca_blob, &ca_len)) != 0)
return SSH_ERR_KEY_CERT_INVALID_SIGN_KEY;

cert = k->cert->certblob; /* for readability */
sshbuf_reset(cert);
if ((ret = sshbuf_put_cstring(cert, sshkey_ssh_name(k))) != 0)
goto out;

```

```

/* -v01 certs put nonce first */
arc4random_buf(&nonce, sizeof(nonce));
if ((ret = sshbuf_put_string(cert, nonce, sizeof(nonce))) != 0)
    goto out;

/* XXX this substantially duplicates to_blob(); refactor */
switch (k->type) {
#ifdef WITH_OPENSSL
case KEY_DSA_CERT:
    if ((ret = sshbuf_put_bignum2(cert, k->dsa->p) != 0 ||
        (ret = sshbuf_put_bignum2(cert, k->dsa->q) != 0 ||
        (ret = sshbuf_put_bignum2(cert, k->dsa->g) != 0 ||
        (ret = sshbuf_put_bignum2(cert, k->dsa->pub_key)) != 0)
        goto out;
    break;
# ifdef OPENSSL_HAS_ECC
case KEY_ECDSA_CERT:
    if ((ret = sshbuf_put_cstring(cert,
        sshkey_curve_nid_to_name(k->ecdsa_nid)) != 0 ||
        (ret = sshbuf_put_ec(cert,
        EC_KEY_get0_public_key(k->ecdsa),
        EC_KEY_get0_group(k->ecdsa)) != 0)
        goto out;
    break;
# endif /* OPENSSL_HAS_ECC */
case KEY_RSA_CERT:
    if ((ret = sshbuf_put_bignum2(cert, k->rsa->e) != 0 ||
        (ret = sshbuf_put_bignum2(cert, k->rsa->n) != 0)
        goto out;
    break;
#endif /* WITH_OPENSSL */
case KEY_ED25519_CERT:
    if ((ret = sshbuf_put_string(cert,
        k->ed25519_pk, ED25519_PK_SZ)) != 0)
        goto out;
    break;
default:
    ret = SSH_ERR_INVALID_ARGUMENT;
    goto out;
}

if ((ret = sshbuf_put_u64(cert, k->cert->serial) != 0 ||
    (ret = sshbuf_put_u32(cert, k->cert->type) != 0 ||
    (ret = sshbuf_put_cstring(cert, k->cert->key_id) != 0)
    goto out;

if ((principals = sshbuf_new()) == NULL) {

```

```

ret = SSH_ERR_ALLOC_FAIL;
goto out;
}
for (i = 0; i < k->cert->nprincipals; i++) {
if ((ret = sshbuf_put_cstring(principals,
    k->cert->principals[i])) != 0)
    goto out;
}
if ((ret = sshbuf_put_stringb(cert, principals)) != 0 ||
    (ret = sshbuf_put_u64(cert, k->cert->valid_after)) != 0 ||
    (ret = sshbuf_put_u64(cert, k->cert->valid_before)) != 0 ||
    (ret = sshbuf_put_stringb(cert, k->cert->critical)) != 0 ||
    (ret = sshbuf_put_stringb(cert, k->cert->extensions)) != 0 ||
    (ret = sshbuf_put_string(cert, NULL, 0)) != 0 /* Reserved */
    (ret = sshbuf_put_string(cert, ca_blob, ca_len)) != 0)
    goto out;

/* Sign the whole mess */
if ((ret = sshkey_sign(ca, &sig_blob, &sig_len, sshbuf_ptr(cert),
    sshbuf_len(cert), NULL, 0)) != 0)
    goto out;

/* Append signature and we are done */
if ((ret = sshbuf_put_string(cert, sig_blob, sig_len)) != 0)
    goto out;
ret = 0;
out:
if (ret != 0)
    sshbuf_reset(cert);
free(sig_blob);
free(ca_blob);
sshbuf_free(principals);
return ret;
}

int
sshkey_cert_check_authority(const struct sshkey *k,
    int want_host, int require_principal,
    const char *name, const char **reason)
{
    u_int i, principal_matches;
    time_t now = time(NULL);

    if (reason != NULL)
        *reason = NULL;

    if (want_host) {
        if (k->cert->type != SSH2_CERT_TYPE_HOST) {

```

```

    *reason = "Certificate invalid: not a host certificate";
    return SSH_ERR_KEY_CERT_INVALID;
}
} else {
if (k->cert->type != SSH2_CERT_TYPE_USER) {
    *reason = "Certificate invalid: not a user certificate";
    return SSH_ERR_KEY_CERT_INVALID;
}
}
if (now < 0) {
    /* yikes - system clock before epoch! */
    *reason = "Certificate invalid: not yet valid";
    return SSH_ERR_KEY_CERT_INVALID;
}
if ((u_int64_t)now < k->cert->valid_after) {
    *reason = "Certificate invalid: not yet valid";
    return SSH_ERR_KEY_CERT_INVALID;
}
if ((u_int64_t)now >= k->cert->valid_before) {
    *reason = "Certificate invalid: expired";
    return SSH_ERR_KEY_CERT_INVALID;
}
if (k->cert->nprincipals == 0) {
if (require_principal) {
    *reason = "Certificate lacks principal list";
    return SSH_ERR_KEY_CERT_INVALID;
}
} else if (name != NULL) {
    principal_matches = 0;
    for (i = 0; i < k->cert->nprincipals; i++) {
        if (strcmp(name, k->cert->principals[i]) == 0) {
            principal_matches = 1;
            break;
        }
    }
if (!principal_matches) {
    *reason = "Certificate invalid: name is not a listed "
        "principal";
    return SSH_ERR_KEY_CERT_INVALID;
}
}
return 0;
}

size_t
sshkey_format_cert_validity(const struct sshkey_cert *cert, char *s, size_t l)
{
    char from[32], to[32], ret[64];

```

```

time_t tt;
struct tm *tm;

*from = *to = '\0';
if (cert->valid_after == 0 &&
    cert->valid_before == 0xffffffffffffULL)
    return strlcpy(s, "forever", l);

if (cert->valid_after != 0) {
    /* XXX revisit INT_MAX in 2038 :) */
    tt = cert->valid_after > INT_MAX ?
        INT_MAX : cert->valid_after;
    tm = localtime(&tt);
    strftime(from, sizeof(from), "%Y-%m-%dT%H:%M:%S", tm);
}
if (cert->valid_before != 0xffffffffffffULL) {
    /* XXX revisit INT_MAX in 2038 :) */
    tt = cert->valid_before > INT_MAX ?
        INT_MAX : cert->valid_before;
    tm = localtime(&tt);
    strftime(to, sizeof(to), "%Y-%m-%dT%H:%M:%S", tm);
}

if (cert->valid_after == 0)
    snprintf(ret, sizeof(ret), "before %s", to);
else if (cert->valid_before == 0xffffffffffffULL)
    snprintf(ret, sizeof(ret), "after %s", from);
else
    snprintf(ret, sizeof(ret), "from %s to %s", from, to);

return strlcpy(s, ret, l);
}

int
sshkey_private_serialize(const struct sshkey *key, struct sshbuf *b)
{
    int r = SSH_ERR_INTERNAL_ERROR;

    if ((r = sshbuf_put_cstring(b, sshkey_ssh_name(key))) != 0)
        goto out;
    switch (key->type) {
#ifdef WITH_OPENSSL
    case KEY_RSA:
        if ((r = sshbuf_put_bignum2(b, key->rsa->n)) != 0 ||
            (r = sshbuf_put_bignum2(b, key->rsa->e)) != 0 ||
            (r = sshbuf_put_bignum2(b, key->rsa->d)) != 0 ||
            (r = sshbuf_put_bignum2(b, key->rsa->iqmp)) != 0 ||
            (r = sshbuf_put_bignum2(b, key->rsa->p)) != 0 ||

```

```

    (r = sshbuf_put_bignum2(b, key->rsa->q)) != 0)
goto out;
break;
case KEY_RSA_CERT:
if (key->cert == NULL || sshbuf_len(key->cert->certblob) == 0) {
    r = SSH_ERR_INVALID_ARGUMENT;
    goto out;
}
if ((r = sshbuf_put_stringb(b, key->cert->certblob)) != 0 ||
    (r = sshbuf_put_bignum2(b, key->rsa->d)) != 0 ||
    (r = sshbuf_put_bignum2(b, key->rsa->iqmp)) != 0 ||
    (r = sshbuf_put_bignum2(b, key->rsa->p)) != 0 ||
    (r = sshbuf_put_bignum2(b, key->rsa->q)) != 0)
    goto out;
break;
case KEY_DSA:
if ((r = sshbuf_put_bignum2(b, key->dsa->p)) != 0 ||
    (r = sshbuf_put_bignum2(b, key->dsa->q)) != 0 ||
    (r = sshbuf_put_bignum2(b, key->dsa->g)) != 0 ||
    (r = sshbuf_put_bignum2(b, key->dsa->pub_key)) != 0 ||
    (r = sshbuf_put_bignum2(b, key->dsa->priv_key)) != 0)
    goto out;
break;
case KEY_DSA_CERT:
if (key->cert == NULL || sshbuf_len(key->cert->certblob) == 0) {
    r = SSH_ERR_INVALID_ARGUMENT;
    goto out;
}
if ((r = sshbuf_put_stringb(b, key->cert->certblob)) != 0 ||
    (r = sshbuf_put_bignum2(b, key->dsa->priv_key)) != 0)
    goto out;
break;
#ifdef OPENSSSL_HAS_ECC
case KEY_ECDSA:
if ((r = sshbuf_put_cstring(b,
    sshkey_curve_nid_to_name(key->ecdsa_nid)) != 0 ||
    (r = sshbuf_put_eckey(b, key->ecdsa)) != 0 ||
    (r = sshbuf_put_bignum2(b,
    EC_KEY_get0_private_key(key->ecdsa)) != 0)
    goto out;
break;
case KEY_ECDSA_CERT:
if (key->cert == NULL || sshbuf_len(key->cert->certblob) == 0) {
    r = SSH_ERR_INVALID_ARGUMENT;
    goto out;
}
if ((r = sshbuf_put_stringb(b, key->cert->certblob)) != 0 ||
    (r = sshbuf_put_bignum2(b,

```



```

    EC_KEY_get0_private_key(key->ecdsa)) != 0)
    goto out;
    break;
# endif /* OPENSSSL_HAS_ECC */
#endif /* WITH_OPENSSSL */
case KEY_ED25519:
    if ((r = sshbuf_put_string(b, key->ed25519_pk,
        ED25519_PK_SZ)) != 0 ||
        (r = sshbuf_put_string(b, key->ed25519_sk,
        ED25519_SK_SZ)) != 0)
        goto out;
    break;
case KEY_ED25519_CERT:
    if (key->cert == NULL || sshbuf_len(key->cert->certblob) == 0) {
        r = SSH_ERR_INVALID_ARGUMENT;
        goto out;
    }
    if ((r = sshbuf_put_stringb(b, key->cert->certblob)) != 0 ||
        (r = sshbuf_put_string(b, key->ed25519_pk,
        ED25519_PK_SZ)) != 0 ||
        (r = sshbuf_put_string(b, key->ed25519_sk,
        ED25519_SK_SZ)) != 0)
        goto out;
    break;
default:
    r = SSH_ERR_INVALID_ARGUMENT;
    goto out;
}
/* success */
r = 0;
out:
return r;
}

```

```

int
sshkey_private_deserialize(struct sshbuf *buf, struct sshkey **kp)
{
    char *tname = NULL, *curve = NULL;
    struct sshkey *k = NULL;
    size_t pklen = 0, sklen = 0;
    int type, r = SSH_ERR_INTERNAL_ERROR;
    u_char *ed25519_pk = NULL, *ed25519_sk = NULL;
#ifdef WITH_OPENSSSL
    BIGNUM *exponent = NULL;
#endif /* WITH_OPENSSSL */

    if (kp != NULL)
        *kp = NULL;
}

```

```

if ((r = sshbuf_get_cstring(buf, &tname, NULL)) != 0)
    goto out;
type = sshkey_type_from_name(tname);
switch (type) {
#ifdef WITH_OPENSSL
case KEY_DSA:
    if ((k = sshkey_new_private(type)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    if ((r = sshbuf_get_bignum2(buf, k->dsa->p)) != 0 ||
        (r = sshbuf_get_bignum2(buf, k->dsa->q)) != 0 ||
        (r = sshbuf_get_bignum2(buf, k->dsa->g)) != 0 ||
        (r = sshbuf_get_bignum2(buf, k->dsa->pub_key)) != 0 ||
        (r = sshbuf_get_bignum2(buf, k->dsa->priv_key)) != 0)
        goto out;
    break;
case KEY_DSA_CERT:
    if ((r = sshkey_froms(buf, &k)) != 0 ||
        (r = sshkey_add_private(k)) != 0 ||
        (r = sshbuf_get_bignum2(buf, k->dsa->priv_key)) != 0)
        goto out;
    break;
#ifdef OPENSSL_HAS_ECC
case KEY_ECDSA:
    if ((k = sshkey_new_private(type)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    if ((k->ecdsa_nid = sshkey_ecdsa_nid_from_name(tname)) == -1) {
        r = SSH_ERR_INVALID_ARGUMENT;
        goto out;
    }
    if ((r = sshbuf_get_cstring(buf, &curve, NULL)) != 0)
        goto out;
    if (k->ecdsa_nid != sshkey_curve_name_to_nid(curve)) {
        r = SSH_ERR_EC_CURVE_MISMATCH;
        goto out;
    }
    k->ecdsa = EC_KEY_new_by_curve_name(k->ecdsa_nid);
    if (k->ecdsa == NULL || (exponent = BN_new()) == NULL) {
        r = SSH_ERR_LIBCRYPTO_ERROR;
        goto out;
    }
    if ((r = sshbuf_get_eckey(buf, k->ecdsa)) != 0 ||
        (r = sshbuf_get_bignum2(buf, exponent)))
        goto out;
    if (EC_KEY_set_private_key(k->ecdsa, exponent) != 1) {

```

```

r = SSH_ERR_LIBCRYPTO_ERROR;
goto out;
}
if ((r = sshkey_ec_validate_public(EC_KEY_get0_group(k->ecdsa),
    EC_KEY_get0_public_key(k->ecdsa))) != 0 ||
    (r = sshkey_ec_validate_private(k->ecdsa)) != 0)
    goto out;
break;
case KEY_ECDSA_CERT:
if ((exponent = BN_new()) == NULL) {
r = SSH_ERR_LIBCRYPTO_ERROR;
goto out;
}
if ((r = sshkey_froms(buf, &k)) != 0 ||
    (r = sshkey_add_private(k)) != 0 ||
    (r = sshbuf_get_bignum2(buf, exponent)) != 0)
    goto out;
if (EC_KEY_set_private_key(k->ecdsa, exponent) != 1) {
r = SSH_ERR_LIBCRYPTO_ERROR;
goto out;
}
if ((r = sshkey_ec_validate_public(EC_KEY_get0_group(k->ecdsa),
    EC_KEY_get0_public_key(k->ecdsa))) != 0 ||
    (r = sshkey_ec_validate_private(k->ecdsa)) != 0)
    goto out;
break;
# endif /* OPENSSSL_HAS_ECC */
case KEY_RSA:
if ((k = sshkey_new_private(type)) == NULL) {
r = SSH_ERR_ALLOC_FAIL;
goto out;
}
if ((r = sshbuf_get_bignum2(buf, k->rsa->n)) != 0 ||
    (r = sshbuf_get_bignum2(buf, k->rsa->e)) != 0 ||
    (r = sshbuf_get_bignum2(buf, k->rsa->d)) != 0 ||
    (r = sshbuf_get_bignum2(buf, k->rsa->iqmp)) != 0 ||
    (r = sshbuf_get_bignum2(buf, k->rsa->p)) != 0 ||
    (r = sshbuf_get_bignum2(buf, k->rsa->q)) != 0 ||
    (r = rsa_generate_additional_parameters(k->rsa)) != 0)
    goto out;
break;
case KEY_RSA_CERT:
if ((r = sshkey_froms(buf, &k)) != 0 ||
    (r = sshkey_add_private(k)) != 0 ||
    (r = sshbuf_get_bignum2(buf, k->rsa->d)) != 0 ||
    (r = sshbuf_get_bignum2(buf, k->rsa->iqmp)) != 0 ||
    (r = sshbuf_get_bignum2(buf, k->rsa->p)) != 0 ||
    (r = sshbuf_get_bignum2(buf, k->rsa->q)) != 0 ||

```

```

    (r = rsa_generate_additional_parameters(k->rsa)) != 0)
    goto out;
    break;
#endif /* WITH_OPENSSL */
case KEY_ED25519:
    if ((k = sshkey_new_private(type)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    if ((r = sshbuf_get_string(buf, &ed25519_pk, &pklen)) != 0 ||
        (r = sshbuf_get_string(buf, &ed25519_sk, &sklen)) != 0)
        goto out;
    if (pklen != ED25519_PK_SZ || sklen != ED25519_SK_SZ) {
        r = SSH_ERR_INVALID_FORMAT;
        goto out;
    }
    k->ed25519_pk = ed25519_pk;
    k->ed25519_sk = ed25519_sk;
    ed25519_pk = ed25519_sk = NULL;
    break;
case KEY_ED25519_CERT:
    if ((r = sshkey_froms(buf, &k)) != 0 ||
        (r = sshkey_add_private(k)) != 0 ||
        (r = sshbuf_get_string(buf, &ed25519_pk, &pklen)) != 0 ||
        (r = sshbuf_get_string(buf, &ed25519_sk, &sklen)) != 0)
        goto out;
    if (pklen != ED25519_PK_SZ || sklen != ED25519_SK_SZ) {
        r = SSH_ERR_INVALID_FORMAT;
        goto out;
    }
    k->ed25519_pk = ed25519_pk;
    k->ed25519_sk = ed25519_sk;
    ed25519_pk = ed25519_sk = NULL;
    break;
default:
    r = SSH_ERR_KEY_TYPE_UNKNOWN;
    goto out;
}
#ifdef WITH_OPENSSL
/* enable blinding */
switch (k->type) {
case KEY_RSA:
case KEY_RSA_CERT:
case KEY_RSA1:
    if (RSA_blinding_on(k->rsa, NULL) != 1) {
        r = SSH_ERR_LIBCRYPTO_ERROR;
        goto out;
    }
}

```

```

    break;
}
#endif /* WITH_OPENSSL */
/* success */
r = 0;
if (kp != NULL) {
    *kp = k;
    k = NULL;
}
out:
free(tname);
free(curve);
#ifdef WITH_OPENSSL
if (exponent != NULL)
    BN_clear_free(exponent);
#endif /* WITH_OPENSSL */
sshkey_free(k);
if (ed25519_pk != NULL) {
    explicit_bzero(ed25519_pk, pklen);
    free(ed25519_pk);
}
if (ed25519_sk != NULL) {
    explicit_bzero(ed25519_sk, sklen);
    free(ed25519_sk);
}
return r;
}

#ifdef WITH_OPENSSL && defined(OPENSSL_HAS_ECC)
int
sshkey_ec_validate_public(const EC_GROUP *group, const EC_POINT *public)
{
    BN_CTX *bctx;
    EC_POINT *nq = NULL;
    BIGNUM *order, *x, *y, *tmp;
    int ret = SSH_ERR_KEY_INVALID_EC_VALUE;

    if ((bctx = BN_CTX_new()) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    BN_CTX_start(bctx);

    /*
     * We shouldn't ever hit this case because bignum_get_ecpoint()
     * refuses to load GF2m points.
     */
    if (EC_METHOD_get_field_type(EC_GROUP_method_of(group)) !=
        NID_X9_62_prime_field)
        goto out;

```

```

/* Q != infinity */
if (EC_POINT_is_at_infinity(group, public))
    goto out;

if ((x = BN_CTX_get(bnctx)) == NULL ||
    (y = BN_CTX_get(bnctx)) == NULL ||
    (order = BN_CTX_get(bnctx)) == NULL ||
    (tmp = BN_CTX_get(bnctx)) == NULL) {
    ret = SSH_ERR_ALLOC_FAIL;
    goto out;
}

/* log2(x) > log2(order)/2, log2(y) > log2(order)/2 */
if (EC_GROUP_get_order(group, order, bnctx) != 1 ||
    EC_POINT_get_affine_coordinates_GFp(group, public,
    x, y, bnctx) != 1) {
    ret = SSH_ERR_LIBCRYPTO_ERROR;
    goto out;
}
if (BN_num_bits(x) <= BN_num_bits(order) / 2 ||
    BN_num_bits(y) <= BN_num_bits(order) / 2)
    goto out;

/* nQ == infinity (n == order of subgroup) */
if ((nq = EC_POINT_new(group)) == NULL) {
    ret = SSH_ERR_ALLOC_FAIL;
    goto out;
}
if (EC_POINT_mul(group, nq, NULL, public, order, bnctx) != 1) {
    ret = SSH_ERR_LIBCRYPTO_ERROR;
    goto out;
}
if (EC_POINT_is_at_infinity(group, nq) != 1)
    goto out;

/* x < order - 1, y < order - 1 */
if (!BN_sub(tmp, order, BN_value_one())) {
    ret = SSH_ERR_LIBCRYPTO_ERROR;
    goto out;
}
if (BN_cmp(x, tmp) >= 0 || BN_cmp(y, tmp) >= 0)
    goto out;
ret = 0;
out:
BN_CTX_free(bnctx);
if (nq != NULL)
    EC_POINT_free(nq);

```

```

return ret;
}

int
sshkey_ec_validate_private(const EC_KEY *key)
{
    BN_CTX *bnctx;
    BIGNUM *order, *tmp;
    int ret = SSH_ERR_KEY_INVALID_EC_VALUE;

    if ((bnctx = BN_CTX_new()) == NULL)
        return SSH_ERR_ALLOC_FAIL;
    BN_CTX_start(bnctx);

    if ((order = BN_CTX_get(bnctx)) == NULL ||
        (tmp = BN_CTX_get(bnctx)) == NULL) {
        ret = SSH_ERR_ALLOC_FAIL;
        goto out;
    }

    /* log2(private) > log2(order)/2 */
    if (EC_GROUP_get_order(EC_KEY_get0_group(key), order, bnctx) != 1) {
        ret = SSH_ERR_LIBCRYPTO_ERROR;
        goto out;
    }
    if (BN_num_bits(EC_KEY_get0_private_key(key)) <=
        BN_num_bits(order) / 2)
        goto out;

    /* private < order - 1 */
    if (!BN_sub(tmp, order, BN_value_one())) {
        ret = SSH_ERR_LIBCRYPTO_ERROR;
        goto out;
    }
    if (BN_cmp(EC_KEY_get0_private_key(key), tmp) >= 0)
        goto out;
    ret = 0;
out:
    BN_CTX_free(bnctx);
    return ret;
}

void
sshkey_dump_ec_point(const EC_GROUP *group, const EC_POINT *point)
{
    BIGNUM *x, *y;
    BN_CTX *bnctx;

```

```

if (point == NULL) {
    fputs("point=(NULL)\n", stderr);
    return;
}
if ((bnctx = BN_CTX_new()) == NULL) {
    fprintf(stderr, "%s: BN_CTX_new failed\n", __func__);
    return;
}
BN_CTX_start(bnctx);
if ((x = BN_CTX_get(bnctx)) == NULL ||
    (y = BN_CTX_get(bnctx)) == NULL) {
    fprintf(stderr, "%s: BN_CTX_get failed\n", __func__);
    return;
}
if (EC_METHOD_get_field_type(EC_GROUP_method_of(group)) !=
    NID_X9_62_prime_field) {
    fprintf(stderr, "%s: group is not a prime field\n", __func__);
    return;
}
if (EC_POINT_get_affine_coordinates_GFp(group, point, x, y,
    bnctx) != 1) {
    fprintf(stderr, "%s: EC_POINT_get_affine_coordinates_GFp\n",
        __func__);
    return;
}
fputs("x=", stderr);
BN_print_fp(stderr, x);
fputs("\ny=", stderr);
BN_print_fp(stderr, y);
fputs("\n", stderr);
BN_CTX_free(bnctx);
}

void
sshkey_dump_ec_key(const EC_KEY *key)
{
    const BIGNUM *exponent;

    sshkey_dump_ec_point(EC_KEY_get0_group(key),
        EC_KEY_get0_public_key(key));
    fputs("exponent=", stderr);
    if ((exponent = EC_KEY_get0_private_key(key)) == NULL)
        fputs("(NULL)", stderr);
    else
        BN_print_fp(stderr, EC_KEY_get0_private_key(key));
    fputs("\n", stderr);
}
#endif /* WITH_OPENSSL && OPENSSL_HAS_ECC */

```



```

static int
sshkey_private_to_blob2(const struct sshkey *prv, struct sshbuf *blob,
    const char *passphrase, const char *comment, const char *ciphername,
    int rounds)
{
    u_char *cp, *key = NULL, *pubkeyblob = NULL;
    u_char salt[SALT_LEN];
    char *b64 = NULL;
    size_t i, pubkeylen, keylen, ivlen, blocksize, authlen;
    u_int check;
    int r = SSH_ERR_INTERNAL_ERROR;
    struct sshcipher_ctx ciphercontext;
    const struct sshcipher *cipher;
    const char *kdfname = KDFNAME;
    struct sshbuf *encoded = NULL, *encrypted = NULL, *kdf = NULL;

    memset(&ciphercontext, 0, sizeof(ciphercontext));

    if (rounds <= 0)
        rounds = DEFAULT_ROUNDS;
    if (passphrase == NULL || !strlen(passphrase)) {
        ciphername = "none";
        kdfname = "none";
    } else if (ciphername == NULL)
        ciphername = DEFAULT_CIPHERNAME;
    else if (cipher_number(ciphername) != SSH_CIPHER_SSH2) {
        r = SSH_ERR_INVALID_ARGUMENT;
        goto out;
    }
    if ((cipher = cipher_by_name(ciphername)) == NULL) {
        r = SSH_ERR_INTERNAL_ERROR;
        goto out;
    }

    if ((kdf = sshbuf_new()) == NULL ||
        (encoded = sshbuf_new()) == NULL ||
        (encrypted = sshbuf_new()) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    blocksize = cipher_blocksize(cipher);
    keylen = cipher_keylen(cipher);
    ivlen = cipher_ivlen(cipher);
    authlen = cipher_authlen(cipher);
    if ((key = calloc(1, keylen + ivlen)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }

```

```

}
if (strcmp(kdfname, "bcrypt") == 0) {
    arc4random_buf(salt, SALT_LEN);
    if (bcrypt_pbkdf(passphrase, strlen(passphrase),
        salt, SALT_LEN, key, keylen + ivlen, rounds) < 0) {
        r = SSH_ERR_INVALID_ARGUMENT;
        goto out;
    }
    if ((r = sshbuf_put_string(kdf, salt, SALT_LEN)) != 0 ||
        (r = sshbuf_put_u32(kdf, rounds)) != 0)
        goto out;
} else if (strcmp(kdfname, "none") != 0) {
    /* Unsupported KDF type */
    r = SSH_ERR_KEY_UNKNOWN_CIPHER;
    goto out;
}
if ((r = cipher_init(&ciphercontext, cipher, key, keylen,
    key + keylen, ivlen, 1)) != 0)
    goto out;

if ((r = sshbuf_put(encoded, AUTH_MAGIC, sizeof(AUTH_MAGIC))) != 0 ||
    (r = sshbuf_put_cstring(encoded, ciphername)) != 0 ||
    (r = sshbuf_put_cstring(encoded, kdfname)) != 0 ||
    (r = sshbuf_put_stringb(encoded, kdf)) != 0 ||
    (r = sshbuf_put_u32(encoded, 1)) != 0 || /* number of keys */
    (r = sshkey_to_blob(prv, &pubkeyblob, &pubkeylen)) != 0 ||
    (r = sshbuf_put_string(encoded, pubkeyblob, pubkeylen)) != 0)
    goto out;

/* set up the buffer that will be encrypted */

/* Random check bytes */
check = arc4random();
if ((r = sshbuf_put_u32(encrypted, check)) != 0 ||
    (r = sshbuf_put_u32(encrypted, check)) != 0)
    goto out;

/* append private key and comment*/
if ((r = sshkey_private_serialize(prv, encrypted)) != 0 ||
    (r = sshbuf_put_cstring(encrypted, comment)) != 0)
    goto out;

/* padding */
i = 0;
while (sshbuf_len(encrypted) % blocksize) {
    if ((r = sshbuf_put_u8(encrypted, ++i & 0xff)) != 0)
        goto out;
}

```

```

/* length in destination buffer */
if ((r = sshbuf_put_u32(encoded, sshbuf_len(encrypted))) != 0)
    goto out;

/* encrypt */
if ((r = sshbuf_reserve(encoded,
    sshbuf_len(encrypted) + authlen, &cp)) != 0)
    goto out;
if ((r = cipher_crypt(&ciphercontext, 0, cp,
    sshbuf_ptr(encrypted), sshbuf_len(encrypted), 0, authlen)) != 0)
    goto out;

/* uuencode */
if ((b64 = sshbuf_dtob64(encoded)) == NULL) {
    r = SSH_ERR_ALLOC_FAIL;
    goto out;
}

sshbuf_reset(blob);
if ((r = sshbuf_put(blob, MARK_BEGIN, MARK_BEGIN_LEN)) != 0)
    goto out;
for (i = 0; i < strlen(b64); i++) {
    if ((r = sshbuf_put_u8(blob, b64[i])) != 0)
        goto out;
    /* insert line breaks */
    if (i % 70 == 69 && (r = sshbuf_put_u8(blob, '\n')) != 0)
        goto out;
}
if (i % 70 != 69 && (r = sshbuf_put_u8(blob, '\n')) != 0)
    goto out;
if ((r = sshbuf_put(blob, MARK_END, MARK_END_LEN)) != 0)
    goto out;

/* success */
r = 0;

out:
sshbuf_free(kdf);
sshbuf_free(encoded);
sshbuf_free(encrypted);
cipher_cleanup(&ciphercontext);
explicit_bzero(salt, sizeof(salt));
if (key != NULL) {
    explicit_bzero(key, keylen + ivlen);
    free(key);
}
if (pubkeyblob != NULL) {

```

```

explicit_bzero(pubkeyblob, pubkeylen);
free(pubkeyblob);
}
if (b64 != NULL) {
explicit_bzero(b64, strlen(b64));
free(b64);
}
return r;
}

static int
sshkey_parse_private2(struct sshbuf *blob, int type, const char *passphrase,
    struct sshkey **keyp, char **commentp)
{
char *comment = NULL, *ciphername = NULL, *kdfname = NULL;
const struct sshcipher *cipher = NULL;
const u_char *cp;
int r = SSH_ERR_INTERNAL_ERROR;
size_t encoded_len;
size_t i, keylen = 0, ivlen = 0, authlen = 0, slen = 0;
struct sshbuf *encoded = NULL, *decoded = NULL;
struct sshbuf *kdf = NULL, *decrypted = NULL;
struct sshcipher_ctx ciphercontext;
struct sshkey *k = NULL;
u_char *key = NULL, *salt = NULL, *dp, pad, last;
u_int blocksize, rounds, nkeys, encrypted_len, check1, check2;

memset(&ciphercontext, 0, sizeof(ciphercontext));
if (keyp != NULL)
    *keyp = NULL;
if (commentp != NULL)
    *commentp = NULL;

if ((encoded = sshbuf_new()) == NULL ||
    (decoded = sshbuf_new()) == NULL ||
    (decrypted = sshbuf_new()) == NULL) {
r = SSH_ERR_ALLOC_FAIL;
goto out;
}

/* check preamble */
cp = sshbuf_ptr(blob);
encoded_len = sshbuf_len(blob);
if (encoded_len < (MARK_BEGIN_LEN + MARK_END_LEN) ||
    memcmp(cp, MARK_BEGIN, MARK_BEGIN_LEN) != 0) {
r = SSH_ERR_INVALID_FORMAT;
goto out;
}

```

```

cp += MARK_BEGIN_LEN;
encoded_len -= MARK_BEGIN_LEN;

/* Look for end marker, removing whitespace as we go */
while (encoded_len > 0) {
    if (*cp != '\n' && *cp != '\r') {
        if ((r = sshbuf_put_u8(encoded, *cp)) != 0)
            goto out;
    }
    last = *cp;
    encoded_len--;
    cp++;
    if (last == '\n') {
        if (encoded_len >= MARK_END_LEN &&
            memcmp(cp, MARK_END, MARK_END_LEN) == 0) {
            /* \0 terminate */
            if ((r = sshbuf_put_u8(encoded, 0)) != 0)
                goto out;
            break;
        }
    }
}
if (encoded_len == 0) {
    r = SSH_ERR_INVALID_FORMAT;
    goto out;
}

/* decode base64 */
if ((r = sshbuf_b64tod(decoded, (char *)sshbuf_ptr(encoded))) != 0)
    goto out;

/* check magic */
if (sshbuf_len(decoded) < sizeof(AUTH_MAGIC) ||
    memcmp(sshbuf_ptr(decoded), AUTH_MAGIC, sizeof(AUTH_MAGIC))) {
    r = SSH_ERR_INVALID_FORMAT;
    goto out;
}
/* parse public portion of key */
if ((r = sshbuf_consume(decoded, sizeof(AUTH_MAGIC))) != 0 ||
    (r = sshbuf_get_cstring(decoded, &ciphername, NULL)) != 0 ||
    (r = sshbuf_get_cstring(decoded, &kdfname, NULL)) != 0 ||
    (r = sshbuf_froms(decoded, &kdf)) != 0 ||
    (r = sshbuf_get_u32(decoded, &nkeys)) != 0 ||
    (r = sshbuf_skip_string(decoded)) != 0 || /* pubkey */
    (r = sshbuf_get_u32(decoded, &encrypted_len)) != 0)
    goto out;

if ((cipher = cipher_by_name(ciphername)) == NULL) {

```

```

r = SSH_ERR_KEY_UNKNOWN_CIPHER;
goto out;
}
if ((passphrase == NULL || strlen(passphrase) == 0) &&
    strcmp(ciphername, "none") != 0) {
    /* passphrase required */
    r = SSH_ERR_KEY_WRONG_PASSPHRASE;
    goto out;
}
if (strcmp(kdfname, "none") != 0 && strcmp(kdfname, "bcrypt") != 0) {
    r = SSH_ERR_KEY_UNKNOWN_CIPHER;
    goto out;
}
if (!strcmp(kdfname, "none") && strcmp(ciphername, "none") != 0) {
    r = SSH_ERR_INVALID_FORMAT;
    goto out;
}
if (nkeys != 1) {
    /* XXX only one key supported */
    r = SSH_ERR_INVALID_FORMAT;
    goto out;
}

/* check size of encrypted key blob */
blocksize = cipher_blocksize(cipher);
if (encrypted_len < blocksize || (encrypted_len % blocksize) != 0) {
    r = SSH_ERR_INVALID_FORMAT;
    goto out;
}

/* setup key */
keylen = cipher_keylen(cipher);
ivlen = cipher_ivlen(cipher);
authlen = cipher_authlen(cipher);
if ((key = calloc(1, keylen + ivlen)) == NULL) {
    r = SSH_ERR_ALLOC_FAIL;
    goto out;
}
if (strcmp(kdfname, "bcrypt") == 0) {
    if ((r = sshbuf_get_string(kdf, &salt, &slen)) != 0 ||
        (r = sshbuf_get_u32(kdf, &rounds)) != 0)
        goto out;
    if (bcrypt_pbkdf(passphrase, strlen(passphrase), salt, slen,
        key, keylen + ivlen, rounds) < 0) {
        r = SSH_ERR_INVALID_FORMAT;
        goto out;
    }
}
}

```

```

/* check that an appropriate amount of auth data is present */
if (sshbuf_len(decoded) < encrypted_len + authlen) {
    r = SSH_ERR_INVALID_FORMAT;
    goto out;
}

/* decrypt private portion of key */
if ((r = sshbuf_reserve(decrypted, encrypted_len, &dp)) != 0 ||
    (r = cipher_init(&ciphercontext, cipher, key, keylen,
        key + keylen, ivlen, 0)) != 0)
    goto out;
if ((r = cipher_crypt(&ciphercontext, 0, dp, sshbuf_ptr(decoded),
    encrypted_len, 0, authlen)) != 0) {
    /* an integrity error here indicates an incorrect passphrase */
    if (r == SSH_ERR_MAC_INVALID)
        r = SSH_ERR_KEY_WRONG_PASSPHRASE;
    goto out;
}
if ((r = sshbuf_consume(decoded, encrypted_len + authlen)) != 0)
    goto out;
/* there should be no trailing data */
if (sshbuf_len(decoded) != 0) {
    r = SSH_ERR_INVALID_FORMAT;
    goto out;
}

/* check check bytes */
if ((r = sshbuf_get_u32(decrypted, &check1)) != 0 ||
    (r = sshbuf_get_u32(decrypted, &check2)) != 0)
    goto out;
if (check1 != check2) {
    r = SSH_ERR_KEY_WRONG_PASSPHRASE;
    goto out;
}

/* Load the private key and comment */
if ((r = sshkey_private_deserialize(decrypted, &k)) != 0 ||
    (r = sshbuf_get_cstring(decrypted, &comment, NULL)) != 0)
    goto out;

/* Check deterministic padding */
i = 0;
while (sshbuf_len(decrypted)) {
    if ((r = sshbuf_get_u8(decrypted, &pad)) != 0)
        goto out;
    if (pad != (++i & 0xff)) {
        r = SSH_ERR_INVALID_FORMAT;
    }
}

```

```

    goto out;
}
}

/* XXX decode pubkey and check against private */

/* success */
r = 0;
if (keyp != NULL) {
    *keyp = k;
    k = NULL;
}
if (commentp != NULL) {
    *commentp = comment;
    comment = NULL;
}
out:
pad = 0;
cipher_cleanup(&ciphercontext);
free(ciphername);
free(kdfname);
free(comment);
if (salt != NULL) {
    explicit_bzero(salt, slen);
    free(salt);
}
if (key != NULL) {
    explicit_bzero(key, keylen + ivlen);
    free(key);
}
sshbuf_free(encoded);
sshbuf_free(decoded);
sshbuf_free(kdf);
sshbuf_free(decrypted);
sshkey_free(k);
return r;
}

#ifdef WITH_SSH1
/*
 * Serialises the authentication (private) key to a blob, encrypting it with
 * passphrase. The identification of the blob (lowest 64 bits of n) will
 * precede the key to provide identification of the key without needing a
 * passphrase.
 */
static int
sshkey_private_rsa1_to_blob(struct sshkey *key, struct sshbuf *blob,
    const char *passphrase, const char *comment)

```



```

{
struct sshbuf *buffer = NULL, *encrypted = NULL;
u_char buf[8];
int r, cipher_num;
struct sshcipher_ctx ciphercontext;
const struct sshcipher *cipher;
u_char *cp;

/*
 * If the passphrase is empty, use SSH_CIPHER_NONE to ease converting
 * to another cipher; otherwise use SSH_AUTHFILE_CIPHER.
 */
cipher_num = (strcmp(passphrase, "") == 0) ?
    SSH_CIPHER_NONE : SSH_CIPHER_3DES;
if ((cipher = cipher_by_number(cipher_num)) == NULL)
    return SSH_ERR_INTERNAL_ERROR;

/* This buffer is used to build the secret part of the private key. */
if ((buffer = sshbuf_new()) == NULL)
    return SSH_ERR_ALLOC_FAIL;

/* Put checkbytes for checking passphrase validity. */
if ((r = sshbuf_reserve(buffer, 4, &cp)) != 0)
    goto out;
arc4random_buf(cp, 2);
memcpy(cp + 2, cp, 2);

/*
 * Store the private key (n and e will not be stored because they
 * will be stored in plain text, and storing them also in encrypted
 * format would just give known plaintext).
 * Note: q and p are stored in reverse order to SSL.
 */
if ((r = sshbuf_put_bignum1(buffer, key->rsa->d)) != 0 ||
    (r = sshbuf_put_bignum1(buffer, key->rsa->iqmp)) != 0 ||
    (r = sshbuf_put_bignum1(buffer, key->rsa->q)) != 0 ||
    (r = sshbuf_put_bignum1(buffer, key->rsa->p)) != 0)
    goto out;

/* Pad the part to be encrypted to a size that is a multiple of 8. */
explicit_bzero(buf, 8);
if ((r = sshbuf_put(buffer, buf, 8 - (sshbuf_len(buffer) % 8))) != 0)
    goto out;

/* This buffer will be used to contain the data in the file. */
if ((encrypted = sshbuf_new()) == NULL) {
    r = SSH_ERR_ALLOC_FAIL;
    goto out;
}

```

```

}

/* First store keyfile id string. */
if ((r = sshbuf_put(encrypted, LEGACY_BEGIN,
    sizeof(LEGACY_BEGIN)) != 0)
    goto out;

/* Store cipher type and "reserved" field. */
if ((r = sshbuf_put_u8(encrypted, cipher_num)) != 0 ||
    (r = sshbuf_put_u32(encrypted, 0)) != 0)
    goto out;

/* Store public key. This will be in plain text. */
if ((r = sshbuf_put_u32(encrypted, BN_num_bits(key->rsa->n))) != 0 ||
    (r = sshbuf_put_bignum1(encrypted, key->rsa->n)) != 0 ||
    (r = sshbuf_put_bignum1(encrypted, key->rsa->e)) != 0 ||
    (r = sshbuf_put_cstring(encrypted, comment)) != 0)
    goto out;

/* Allocate space for the private part of the key in the buffer. */
if ((r = sshbuf_reserve(encrypted, sshbuf_len(buffer), &cp)) != 0)
    goto out;

if ((r = cipher_set_key_string(&ciphercontext, cipher, passphrase,
    CIPHER_ENCRYPT)) != 0)
    goto out;
if ((r = cipher_crypt(&ciphercontext, 0, cp,
    sshbuf_ptr(buffer), sshbuf_len(buffer), 0, 0)) != 0)
    goto out;
if ((r = cipher_cleanup(&ciphercontext)) != 0)
    goto out;

r = sshbuf_putb(blob, encrypted);

out:
explicit_bzero(&ciphercontext, sizeof(ciphercontext));
explicit_bzero(buf, sizeof(buf));
sshbuf_free(buffer);
sshbuf_free(encrypted);

return r;
}
#endif /* WITH_SSH1 */

#ifdef WITH_OPENSSL
/* convert SSH v2 key in OpenSSL PEM format */
static int
sshkey_private_pem_to_blob(struct sshkey *key, struct sshbuf *blob,

```

```

    const char *_passphrase, const char *comment)
{
    int success, r;
    int blen, len = strlen(_passphrase);
    u_char *passphrase = (len > 0) ? (u_char *)_passphrase : NULL;
    #if (OPENSSL_VERSION_NUMBER < 0x00907000L)
    const EVP_CIPHER *cipher = (len > 0) ? EVP_des_ede3_cbc() : NULL;
    #else
    const EVP_CIPHER *cipher = (len > 0) ? EVP_aes_128_cbc() : NULL;
    #endif
    const u_char *bptr;
    BIO *bio = NULL;

    if (len > 0 && len <= 4)
        return SSH_ERR_PASSPHRASE_TOO_SHORT;
    if ((bio = BIO_new(BIO_s_mem())) == NULL)
        return SSH_ERR_ALLOC_FAIL;

    switch (key->type) {
    case KEY_DSA:
        success = PEM_write_bio_DSAPrivateKey(bio, key->dsa,
            cipher, passphrase, len, NULL, NULL);
        break;
    #ifdef OPENSSL_HAS_ECC
    case KEY_ECDSA:
        success = PEM_write_bio_ECPrivateKey(bio, key->ecdsa,
            cipher, passphrase, len, NULL, NULL);
        break;
    #endif
    case KEY_RSA:
        success = PEM_write_bio_RSAPrivateKey(bio, key->rsa,
            cipher, passphrase, len, NULL, NULL);
        break;
    default:
        success = 0;
        break;
    }
    if (success == 0) {
        r = SSH_ERR_LIBCRYPTO_ERROR;
        goto out;
    }
    if ((blen = BIO_get_mem_data(bio, &bptr)) <= 0) {
        r = SSH_ERR_INTERNAL_ERROR;
        goto out;
    }
    if ((r = sshbuf_put(blob, bptr, blen)) != 0)
        goto out;
    r = 0;
}

```

```

out:
    BIO_free(bio);
    return r;
}
#endif /* WITH_OPENSSL */

/* Serialise "key" to buffer "blob" */
int
sshkey_private_to_fileblob(struct sshkey *key, struct sshbuf *blob,
    const char *passphrase, const char *comment,
    int force_new_format, const char *new_format_cipher, int new_format_rounds)
{
    switch (key->type) {
#ifdef WITH_SSH1
    case KEY_RSA1:
        return sshkey_private_rsa1_to_blob(key, blob,
            passphrase, comment);
#endif /* WITH_SSH1 */
#ifdef WITH_OPENSSL
    case KEY_DSA:
    case KEY_ECDSA:
    case KEY_RSA:
        if (force_new_format) {
            return sshkey_private_to_blob2(key, blob, passphrase,
                comment, new_format_cipher, new_format_rounds);
        }
        return sshkey_private_pem_to_blob(key, blob,
            passphrase, comment);
#endif /* WITH_OPENSSL */
    case KEY_ED25519:
        return sshkey_private_to_blob2(key, blob, passphrase,
            comment, new_format_cipher, new_format_rounds);
    default:
        return SSH_ERR_KEY_TYPE_UNKNOWN;
    }
}

#ifdef WITH_SSH1
/*
 * Parse the public, unencrypted portion of a RSA1 key.
 */
int
sshkey_parse_public_rsa1_fileblob(struct sshbuf *blob,
    struct sshkey **keyp, char **commentp)
{
    int r;
    struct sshkey *pub = NULL;
    struct sshbuf *copy = NULL;

```

```

if (keyp != NULL)
    *keyp = NULL;
if (commentp != NULL)
    *commentp = NULL;

/* Check that it is at least big enough to contain the ID string. */
if (sshbuf_len(blob) < sizeof(LEGACY_BEGIN))
    return SSH_ERR_INVALID_FORMAT;

/*
 * Make sure it begins with the id string. Consume the id string
 * from the buffer.
 */
if (memcmp(sshbuf_ptr(blob), LEGACY_BEGIN, sizeof(LEGACY_BEGIN)) != 0)
    return SSH_ERR_INVALID_FORMAT;
/* Make a working copy of the keyblob and skip past the magic */
if ((copy = sshbuf_fromb(blob)) == NULL)
    return SSH_ERR_ALLOC_FAIL;
if ((r = sshbuf_consume(copy, sizeof(LEGACY_BEGIN))) != 0)
    goto out;

/* Skip cipher type, reserved data and key bits. */
if ((r = sshbuf_get_u8(copy, NULL)) != 0 || /* cipher type */
    (r = sshbuf_get_u32(copy, NULL)) != 0 || /* reserved */
    (r = sshbuf_get_u32(copy, NULL)) != 0) /* key bits */
    goto out;

/* Read the public key from the buffer. */
if ((pub = sshkey_new(KEY_RSA1)) == NULL ||
    (r = sshbuf_get_bignum1(copy, pub->rsa->n)) != 0 ||
    (r = sshbuf_get_bignum1(copy, pub->rsa->e)) != 0)
    goto out;

/* Finally, the comment */
if ((r = sshbuf_get_string(copy, (u_char**)commentp, NULL)) != 0)
    goto out;

/* The encrypted private part is not parsed by this function. */

r = 0;
if (keyp != NULL)
    *keyp = pub;
else
    sshkey_free(pub);
pub = NULL;

out:

```

```

sshbuf_free(copy);
sshkey_free(pub);
return r;
}

static int
sshkey_parse_private_rsa1(struct sshbuf *blob, const char *passphrase,
    struct sshkey **keyp, char **commentp)
{
    int r;
    u_int16_t check1, check2;
    u_int8_t cipher_type;
    struct sshbuf *decrypted = NULL, *copy = NULL;
    u_char *cp;
    char *comment = NULL;
    struct sshcipher_ctx ciphercontext;
    const struct sshcipher *cipher;
    struct sshkey *prv = NULL;

    *keyp = NULL;
    if (commentp != NULL)
        *commentp = NULL;

    /* Check that it is at least big enough to contain the ID string. */
    if (sshbuf_len(blob) < sizeof(LEGACY_BEGIN))
        return SSH_ERR_INVALID_FORMAT;

    /*
     * Make sure it begins with the id string. Consume the id string
     * from the buffer.
     */
    if (memcmp(sshbuf_ptr(blob), LEGACY_BEGIN, sizeof(LEGACY_BEGIN)) != 0)
        return SSH_ERR_INVALID_FORMAT;

    if ((prv = sshkey_new_private(KEY_RSA1)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    if ((copy = sshbuf_fromb(blob)) == NULL ||
        (decrypted = sshbuf_new()) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    if ((r = sshbuf_consume(copy, sizeof(LEGACY_BEGIN))) != 0)
        goto out;

    /* Read cipher type. */
    if ((r = sshbuf_get_u8(copy, &cipher_type)) != 0 ||

```

```

    (r = sshbuf_get_u32(copy, NULL)) != 0) /* reserved */
goto out;

/* Read the public key and comment from the buffer. */
if ((r = sshbuf_get_u32(copy, NULL)) != 0 || /* key bits */
    (r = sshbuf_get_bignum1(copy, prv->rsa->n)) != 0 ||
    (r = sshbuf_get_bignum1(copy, prv->rsa->e)) != 0 ||
    (r = sshbuf_get_cstring(copy, &comment, NULL)) != 0)
goto out;

/* Check that it is a supported cipher. */
cipher = cipher_by_number(cipher_type);
if (cipher == NULL) {
    r = SSH_ERR_KEY_UNKNOWN_CIPHER;
    goto out;
}
/* Initialize space for decrypted data. */
if ((r = sshbuf_reserve(decrypted, sshbuf_len(copy), &cp)) != 0)
goto out;

/* Rest of the buffer is encrypted. Decrypt it using the passphrase. */
if ((r = cipher_set_key_string(&ciphercontext, cipher, passphrase,
    CIPHER_DECRYPT)) != 0)
goto out;
if ((r = cipher_crypt(&ciphercontext, 0, cp,
    sshbuf_ptr(copy), sshbuf_len(copy), 0, 0)) != 0) {
    cipher_cleanup(&ciphercontext);
    goto out;
}
if ((r = cipher_cleanup(&ciphercontext)) != 0)
goto out;

if ((r = sshbuf_get_u16(decrypted, &check1)) != 0 ||
    (r = sshbuf_get_u16(decrypted, &check2)) != 0)
goto out;
if (check1 != check2) {
    r = SSH_ERR_KEY_WRONG_PASSPHRASE;
    goto out;
}

/* Read the rest of the private key. */
if ((r = sshbuf_get_bignum1(decrypted, prv->rsa->d)) != 0 ||
    (r = sshbuf_get_bignum1(decrypted, prv->rsa->iqmp)) != 0 ||
    (r = sshbuf_get_bignum1(decrypted, prv->rsa->q)) != 0 ||
    (r = sshbuf_get_bignum1(decrypted, prv->rsa->p)) != 0)
goto out;

/* calculate p-1 and q-1 */

```

```

if ((r = rsa_generate_additional_parameters(prv->rsa)) != 0)
    goto out;

/* enable blinding */
if (RSA_blinding_on(prv->rsa, NULL) != 1) {
    r = SSH_ERR_LIBCRYPTO_ERROR;
    goto out;
}
r = 0;
*keyp = prv;
prv = NULL;
if (commentp != NULL) {
    *commentp = comment;
    comment = NULL;
}
out:
explicit_bzero(&ciphercontext, sizeof(ciphercontext));
free(comment);
sshkey_free(prv);
sshbuf_free(copy);
sshbuf_free(decrypted);
return r;
}
#endif /* WITH_SSH1 */

#ifdef WITH_OPENSSL
static int
sshkey_parse_private_pem_fileblob(struct sshbuf *blob, int type,
    const char *passphrase, struct sshkey **keyp)
{
    EVP_PKEY *pk = NULL;
    struct sshkey *prv = NULL;
    BIO *bio = NULL;
    int r;

    *keyp = NULL;

    if ((bio = BIO_new(BIO_s_mem())) == NULL || sshbuf_len(blob) > INT_MAX)
        return SSH_ERR_ALLOC_FAIL;
    if (BIO_write(bio, sshbuf_ptr(blob), sshbuf_len(blob)) !=
        (int)sshbuf_len(blob)) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }

    if ((pk = PEM_read_bio_PrivateKey(bio, NULL, NULL,
        (char *)passphrase)) == NULL) {
        r = SSH_ERR_KEY_WRONG_PASSPHRASE;
    }
}

```



```

goto out;
}
if (pk->type == EVP_PKEY_RSA &&
    (type == KEY_UNSPEC || type == KEY_RSA)) {
    if ((prv = sshkey_new(KEY_UNSPEC)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    prv->rsa = EVP_PKEY_get1_RSA(pk);
    prv->type = KEY_RSA;
#ifdef DEBUG_PK
    RSA_print_fp(stderr, prv->rsa, 8);
#endif
    if (RSA_blinding_on(prv->rsa, NULL) != 1) {
        r = SSH_ERR_LIBCRYPTO_ERROR;
        goto out;
    }
} else if (pk->type == EVP_PKEY_DSA &&
    (type == KEY_UNSPEC || type == KEY_DSA)) {
    if ((prv = sshkey_new(KEY_UNSPEC)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    prv->dsa = EVP_PKEY_get1_DSA(pk);
    prv->type = KEY_DSA;
#ifdef DEBUG_PK
    DSA_print_fp(stderr, prv->dsa, 8);
#endif
#ifdef OPENSSSL_HAS_ECC
} else if (pk->type == EVP_PKEY_EC &&
    (type == KEY_UNSPEC || type == KEY_ECDSA)) {
    if ((prv = sshkey_new(KEY_UNSPEC)) == NULL) {
        r = SSH_ERR_ALLOC_FAIL;
        goto out;
    }
    prv->ecdsa = EVP_PKEY_get1_EC_KEY(pk);
    prv->type = KEY_ECDSA;
    prv->ecdsa_nid = sshkey_ecdsa_key_to_nid(prv->ecdsa);
    if (prv->ecdsa_nid == -1 ||
        sshkey_curve_nid_to_name(prv->ecdsa_nid) == NULL ||
        sshkey_ec_validate_public(EC_KEY_get0_group(prv->ecdsa),
            EC_KEY_get0_public_key(prv->ecdsa)) != 0 ||
        sshkey_ec_validate_private(prv->ecdsa) != 0) {
        r = SSH_ERR_INVALID_FORMAT;
        goto out;
    }
}
#endif
#ifdef DEBUG_PK
    if (prv != NULL && prv->ecdsa != NULL)

```

```

    sshkey_dump_ec_key(prv->ecdsa);
# endif
#endif /* OPENSSSL_HAS_ECC */
} else {
    r = SSH_ERR_INVALID_FORMAT;
    goto out;
}
r = 0;
*keyp = prv;
prv = NULL;
out:
BIO_free(bio);
if (pk != NULL)
    EVP_PKEY_free(pk);
sshkey_free(prv);
return r;
}
#endif /* WITH_OPENSSSL */

int
sshkey_parse_private_fileblob_type(struct sshbuf *blob, int type,
    const char *passphrase, struct sshkey **keyp, char **commentp)
{
    *keyp = NULL;
    if (commentp != NULL)
        *commentp = NULL;

    switch (type) {
#ifdef WITH_SSH1
    case KEY_RSA1:
        return sshkey_parse_private_rsa1(blob, passphrase,
            keyp, commentp);
#endif /* WITH_SSH1 */
#ifdef WITH_OPENSSSL
    case KEY_DSA:
    case KEY_ECDSA:
    case KEY_RSA:
        return sshkey_parse_private_pem_fileblob(blob, type,
            passphrase, keyp);
#endif /* WITH_OPENSSSL */
    case KEY_ED25519:
        return sshkey_parse_private2(blob, type, passphrase,
            keyp, commentp);
    case KEY_UNSPEC:
        if (sshkey_parse_private2(blob, type, passphrase, keyp,
            commentp) == 0)
            return 0;
#ifdef WITH_OPENSSSL

```

```

return sshkey_parse_private_pem_fileblob(blob, type,
    passphrase, keyp);
#else
return SSH_ERR_INVALID_FORMAT;
#endif /* WITH_OPENSSL */
default:
return SSH_ERR_KEY_TYPE_UNKNOWN;
}
}

int
sshkey_parse_private_fileblob(struct sshbuf *buffer, const char *passphrase,
    struct sshkey **keyp, char **commentp)
{
if (keyp != NULL)
    *keyp = NULL;
if (commentp != NULL)
    *commentp = NULL;

#ifdef WITH_SSH1
/* it's a SSH v1 key if the public key part is readable */
if (sshkey_parse_public_rsa1_fileblob(buffer, NULL, NULL) == 0) {
return sshkey_parse_private_fileblob_type(buffer, KEY_RSA1,
    passphrase, keyp, commentp);
}
#endif /* WITH_SSH1 */
return sshkey_parse_private_fileblob_type(buffer, KEY_UNSPEC,
    passphrase, keyp, commentp);
}
/* $OpenBSD: sshkey.h,v 1.12 2015/12/04 16:41:28 markus Exp $ */

/*
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```

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\* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*/

```
#ifndef SSHKEY_H
```

```
#define SSHKEY_H
```

```
#include <sys/types.h>
```

```
#ifdef WITH_OPENSSL
```

```
#include <openssl/rsa.h>
```

```
#include <openssl/dsa.h>
```

```
# ifdef OPENSSSL_HAS_ECC
```

```
# include <openssl/ec.h>
```

```
# else /* OPENSSSL_HAS_ECC */
```

```
# define EC_KEY void
```

```
# define EC_GROUP void
```

```
# define EC_POINT void
```

```
# endif /* OPENSSSL_HAS_ECC */
```

```
#else /* WITH_OPENSSL */
```

```
# define RSA void
```

```
# define DSA void
```

```
# define EC_KEY void
```

```
# define EC_GROUP void
```

```
# define EC_POINT void
```

```
#endif /* WITH_OPENSSL */
```

```
#define SSH_RSA_MINIMUM_MODULUS_SIZE 768
```

```
#define SSH_KEY_MAX_SIGN_DATA_SIZE (1 << 20)
```

```
struct sshbuf;
```

```
/* Key types */
```

```
enum sshkey_types {
```

```
KEY_RSA1,
```

```
KEY_RSA,
```

```
KEY_DSA,
```

```
KEY_ECDSA,
```

```
KEY_ED25519,
```

```
KEY_RSA_CERT,
```

```
KEY_DSA_CERT,
```

```
KEY_ECDSA_CERT,
```

```
KEY_ED25519_CERT,
```

```
KEY_UNSPEC
```

```
};
```

```

/* Default fingerprint hash */
#define SSH_FP_HASH_DEFAULT SSH_DIGEST_SHA256

/* Fingerprint representation formats */
enum sshkey_fp_rep {
    SSH_FP_DEFAULT = 0,
    SSH_FP_HEX,
    SSH_FP_BASE64,
    SSH_FP_BUBBLEBABBLE,
    SSH_FP_RANDOMART
};

/* key is stored in external hardware */
#define SSHKEY_FLAG_EXT 0x0001

#define SSHKEY_CERT_MAX_PRINCIPALS 256
/* XXX opaquify? */
struct sshkey_cert {
    struct sshbuf *certblob; /* Kept around for use on wire */
    u_int type; /* SSH2_CERT_TYPE_USER or SSH2_CERT_TYPE_HOST */
    u_int64_t serial;
    char *key_id;
    u_int nprincipals;
    char **principals;
    u_int64_t valid_after, valid_before;
    struct sshbuf *critical;
    struct sshbuf *extensions;
    struct sshkey *signature_key;
};

/* XXX opaquify? */
struct sshkey {
    int type;
    int flags;
    RSA *rsa;
    DSA *dsa;
    int ecdsa_nid; /* NID of curve */
    EC_KEY *ecdsa;
    u_char *ed25519_sk;
    u_char *ed25519_pk;
    struct sshkey_cert *cert;
};

#define ED25519_SK_SZ crypto_sign_ed25519_SECRETKEYBYTES
#define ED25519_PK_SZ crypto_sign_ed25519_PUBLICKEYBYTES

struct sshkey *sshkey_new(int);
int sshkey_add_private(struct sshkey *);

```

```

struct sshkey *sshkey_new_private(int);
void sshkey_free(struct sshkey *);
int sshkey_demote(const struct sshkey *, struct sshkey **);
int sshkey_equal_public(const struct sshkey *,
    const struct sshkey *);
int sshkey_equal(const struct sshkey *, const struct sshkey *);
char *sshkey_fingerprint(const struct sshkey *,
    int, enum sshkey_fp_rep);
int sshkey_fingerprint_raw(const struct sshkey *k,
    int, u_char **retp, size_t *lenp);
const char *sshkey_type(const struct sshkey *);
const char *sshkey_cert_type(const struct sshkey *);
int sshkey_write(const struct sshkey *, FILE *);
int sshkey_read(struct sshkey *, char **);
u_int sshkey_size(const struct sshkey *);

int sshkey_generate(int type, u_int bits, struct sshkey **keyp);
int sshkey_from_private(const struct sshkey *, struct sshkey **);
int sshkey_type_from_name(const char *);
int sshkey_is_cert(const struct sshkey *);
int sshkey_type_is_cert(int);
int sshkey_type_plain(int);
int sshkey_to_certified(struct sshkey *);
int sshkey_drop_cert(struct sshkey *);
int sshkey_certify(struct sshkey *, struct sshkey *);
int sshkey_cert_copy(const struct sshkey *, struct sshkey *);
int sshkey_cert_check_authority(const struct sshkey *, int, int,
    const char *, const char **);
size_t sshkey_format_cert_validity(const struct sshkey_cert *,
    char *, size_t) __attribute__((__bounded__(__string__, 2, 3)));

int sshkey_ecdsa_nid_from_name(const char *);
int sshkey_curve_name_to_nid(const char *);
const char * sshkey_curve_nid_to_name(int);
u_int sshkey_curve_nid_to_bits(int);
int sshkey_ecdsa_bits_to_nid(int);
int sshkey_ecdsa_key_to_nid(EC_KEY *);
int sshkey_ec_nid_to_hash_alg(int nid);
int sshkey_ec_validate_public(const EC_GROUP *, const EC_POINT *);
int sshkey_ec_validate_private(const EC_KEY *);
const char *sshkey_ssh_name(const struct sshkey *);
const char *sshkey_ssh_name_plain(const struct sshkey *);
int sshkey_names_valid2(const char *, int);
char *key_alg_list(int, int);

int sshkey_from_blob(const u_char *, size_t, struct sshkey **);
int sshkey_fromb(struct sshbuf *, struct sshkey **);
int sshkey_froms(struct sshbuf *, struct sshkey **);

```

```

int sshkey_to_blob(const struct sshkey *, u_char **, size_t *);
int sshkey_to_base64(const struct sshkey *, char **);
int sshkey_putb(const struct sshkey *, struct sshbuf *);
int sshkey_puts(const struct sshkey *, struct sshbuf *);
int sshkey_plain_to_blob(const struct sshkey *, u_char **, size_t *);
int sshkey_putb_plain(const struct sshkey *, struct sshbuf *);

int sshkey_sign(const struct sshkey *, u_char **, size_t *,
    const u_char *, size_t, const char *, u_int);
int sshkey_verify(const struct sshkey *, const u_char *, size_t,
    const u_char *, size_t, u_int);

/* for debug */
void sshkey_dump_ec_point(const EC_GROUP *, const EC_POINT *);
void sshkey_dump_ec_key(const EC_KEY *);

/* private key parsing and serialisation */
int sshkey_private_serialize(const struct sshkey *key, struct sshbuf *buf);
int sshkey_private_deserialize(struct sshbuf *buf, struct sshkey **keyp);

/* private key file format parsing and serialisation */
int sshkey_private_to_fileblob(struct sshkey *key, struct sshbuf *blob,
    const char *passphrase, const char *comment,
    int force_new_format, const char *new_format_cipher, int new_format_rounds);
int sshkey_parse_public_rsa1_fileblob(struct sshbuf *blob,
    struct sshkey **keyp, char **commentp);
int sshkey_parse_private_fileblob(struct sshbuf *buffer,
    const char *passphrase, struct sshkey **keyp, char **commentp);
int sshkey_parse_private_fileblob_type(struct sshbuf *blob, int type,
    const char *passphrase, struct sshkey **keyp, char **commentp);

#ifdef SSHKEY_INTERNAL
int ssh_rsa_sign(const struct sshkey *key,
    u_char **sigp, size_t *lenp, const u_char *data, size_t datalen,
    const char *ident);
int ssh_rsa_verify(const struct sshkey *key,
    const u_char *sig, size_t siglen, const u_char *data, size_t datalen);
int ssh_dss_sign(const struct sshkey *key, u_char **sigp, size_t *lenp,
    const u_char *data, size_t datalen, u_int compat);
int ssh_dss_verify(const struct sshkey *key,
    const u_char *signature, size_t signaturelen,
    const u_char *data, size_t datalen, u_int compat);
int ssh_ecdsa_sign(const struct sshkey *key, u_char **sigp, size_t *lenp,
    const u_char *data, size_t datalen, u_int compat);
int ssh_ecdsa_verify(const struct sshkey *key,
    const u_char *signature, size_t signaturelen,
    const u_char *data, size_t datalen, u_int compat);
int ssh_ed25519_sign(const struct sshkey *key, u_char **sigp, size_t *lenp,

```

```

    const u_char *data, size_t datalen, u_int compat);
int ssh_ed25519_verify(const struct sshkey *key,
    const u_char *signature, size_t signaturelen,
    const u_char *data, size_t datalen, u_int compat);
#endif

#if !defined(WITH_OPENSSL)
# undef RSA
# undef DSA
# undef EC_KEY
# undef EC_GROUP
# undef EC_POINT
#elif !defined(OPENSSL_HAS_ECC)
# undef EC_KEY
# undef EC_GROUP
# undef EC_POINT
#endif

#endif /* SSHKEY_H */
/* $OpenBSD: sshlogin.c,v 1.32 2015/12/26 20:51:35 guenther Exp $ */
/*
 * Author: Tatu Ylonen <ylo@cs.hut.fi>
 * Copyright (c) 1995 Tatu Ylonen <ylo@cs.hut.fi>, Espoo, Finland
 *     All rights reserved
 * This file performs some of the things login(1) normally does. We cannot
 * easily use something like login -p -h host -f user, because there are
 * several different logins around, and it is hard to determined what kind of
 * login the current system has. Also, we want to be able to execute commands
 * on a tty.
 *
 * As far as I am concerned, the code I have written for this software
 * can be used freely for any purpose. Any derived versions of this
 * software must be clearly marked as such, and if the derived work is
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```



```

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* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

```

```
#include "includes.h"
```

```
#include <sys/types.h>
#include <sys/socket.h>
```

```
#include <netinet/in.h>
```

```
#include <errno.h>
#include <fcntl.h>
#include <stdarg.h>
#include <stdio.h>
#include <string.h>
#include <time.h>
#include <unistd.h>
#include <limits.h>
```

```
#include "loginrec.h"
#include "log.h"
#include "buffer.h"
#include "misc.h"
#include "servconf.h"
```

```
extern Buffer loginmsg;
extern ServerOptions options;
```

```
/*
* Returns the time when the user last logged in. Returns 0 if the
* information is not available. This must be called before record_login.
* The host the user logged in from will be returned in buf.
*/
```

```
time_t
get_last_login_time(uid_t uid, const char *logname,
    char *buf, size_t bufsize)
{
    struct logininfo li;
```

```

login_get_lastlog(&li, uid);
strcpy(buf, li.hostname, bufsize);
return (time_t)li.tv_sec;
}

/*
 * Generate and store last login message. This must be done before
 * login_login() is called and lastlog is updated.
 */
static void
store_lastlog_message(const char *user, uid_t uid)
{
#ifdef NO_SSH_LASTLOG
char *time_string, hostname[HOST_NAME_MAX+1] = "", buf[512];
time_t last_login_time;

if (!options.print_lastlog)
return;

#ifdef CUSTOM_SYS_AUTH_GET_LASTLOGIN_MSG
time_string = sys_auth_get_lastlogin_msg(user, uid);
if (time_string != NULL) {
buffer_append(&loginmsg, time_string, strlen(time_string));
free(time_string);
}
#else
last_login_time = get_last_login_time(uid, user, hostname,
sizeof(hostname));

if (last_login_time != 0) {
time_string = ctime(&last_login_time);
time_string[strcspn(time_string, "\n")] = '\0';
if (strcmp(hostname, "") == 0)
snprintf(buf, sizeof(buf), "Last login: %s\r\n",
time_string);
else
snprintf(buf, sizeof(buf), "Last login: %s from %s\r\n",
time_string, hostname);
buffer_append(&loginmsg, buf, strlen(buf));
}
#endif /* CUSTOM_SYS_AUTH_GET_LASTLOGIN_MSG */
#endif /* NO_SSH_LASTLOG */
}

/*
 * Records that the user has logged in. I wish these parts of operating
 * systems were more standardized.
 */

```

```

void
record_login(pid_t pid, const char *tty, const char *user, uid_t uid,
             const char *host, struct sockaddr *addr, socklen_t addrlen)
{
    struct logininfo *li;

    /* save previous login details before writing new */
    store_lastlog_message(user, uid);

    li = login_alloc_entry(pid, user, host, tty);
    login_set_addr(li, addr, addrlen);
    login_login(li);
    login_free_entry(li);
}

#ifdef LOGIN_NEEDS_UTMPX
void
record_utmp_only(pid_t pid, const char *ttyname, const char *user,
                 const char *host, struct sockaddr *addr, socklen_t addrlen)
{
    struct logininfo *li;

    li = login_alloc_entry(pid, user, host, ttyname);
    login_set_addr(li, addr, addrlen);
    login_utmp_only(li);
    login_free_entry(li);
}
#endif

/* Records that the user has logged out. */
void
record_logout(pid_t pid, const char *tty, const char *user)
{
    struct logininfo *li;

    li = login_alloc_entry(pid, user, NULL, tty);
    login_logout(li);
    login_free_entry(li);
}
/* $OpenBSD: sshlogin.h,v 1.8 2006/08/03 03:34:42 deraadt Exp $ */

/*
 * Author: Tatu Ylonen <ylo@cs.hut.fi>
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```

```
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* called by a name other than "ssh" or "Secure Shell".
*/
```

```
void record_login(pid_t, const char *, const char *, uid_t,
    const char *, struct sockaddr *, socklen_t);
void record_logout(pid_t, const char *, const char *);
time_t get_last_login_time(uid_t, const char *, char *, size_t);
```

```
#ifdef LOGIN_NEEDS_UTMPX
```

```
void record_utmp_only(pid_t, const char *, const char *, const char *,
    struct sockaddr *, socklen_t);
```

```
#endif
```

```
/* $OpenBSD: sshpty.c,v 1.30 2015/07/30 23:09:15 djm Exp $ */
```

```
/*
```

```
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```

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```
* Allocating a pseudo-terminal, and making it the controlling tty.
```

```
*
```

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```

```
* called by a name other than "ssh" or "Secure Shell".
```

```
*/
```

```
#include "includes.h"
```

```
#include <sys/types.h>
```

```
#include <sys/ioctl.h>
```

```
#include <sys/stat.h>
```

```
#include <signal.h>
```

```
#include <errno.h>
```

```
#include <fcntl.h>
```

```
#include <grp.h>
```

```
#ifdef HAVE_PATHS_H
```

```
# include <paths.h>
```

```
#endif
```

```
#include <pwd.h>
```

```
#include <stdarg.h>
```

```
#include <string.h>
```

```
#include <termios.h>
```

```
#ifdef HAVE_UTIL_H
```

```
# include <util.h>
```

```
#endif
```

```

#include <unistd.h>

#include "sshpty.h"
#include "log.h"
#include "misc.h"

#ifdef HAVE_PTY_H
# include <pty.h>
#endif

#ifndef O_NOCTTY
#define O_NOCTTY 0
#endif

#ifdef __APPLE__
# include <AvailabilityMacros.h>
# if (MAC_OS_X_VERSION_MAX_ALLOWED >= MAC_OS_X_VERSION_10_5)
# define __APPLE_PRIVPTY__
# endif
#endif

/*
 * Allocates and opens a pty. Returns 0 if no pty could be allocated, or
 * nonzero if a pty was successfully allocated. On success, open file
 * descriptors for the pty and tty sides and the name of the tty side are
 * returned (the buffer must be able to hold at least 64 characters).
 */

int
pty_allocate(int *ptyfd, int *ttyfd, char *namebuf, size_t namebuflen)
{
    /* openpty(3) exists in OSF/1 and some other os'es */
    char *name;
    int i;

    i = openpty(ptyfd, ttyfd, NULL, NULL, NULL);
    if (i < 0) {
        error("openpty: %.100s", strerror(errno));
        return 0;
    }
    name = ttyname(*ttyfd);
    if (!name)
        fatal("openpty returns device for which ttyname fails.");

    strncpy(namebuf, name, namebuflen); /* possible truncation */
    return 1;
}

```

```
/* Releases the tty. Its ownership is returned to root, and permissions to 0666. */
```

```
void  
pty_release(const char *tty)  
{  
#if !defined(__APPLE_PRIVPTY__) && !defined(HAVE_OPENPTY)  
if (chown(tty, (uid_t) 0, (gid_t) 0) < 0)  
    error("chown %.100s 0 0 failed: %.100s", tty, strerror(errno));  
if (chmod(tty, (mode_t) 0666) < 0)  
    error("chmod %.100s 0666 failed: %.100s", tty, strerror(errno));  
#endif /* !__APPLE_PRIVPTY__ && !HAVE_OPENPTY */  
}
```

```
/* Makes the tty the process's controlling tty and sets it to sane modes. */
```

```
void  
pty_make_controlling_tty(int *ttyfd, const char *tty)  
{  
    int fd;  
  
#ifdef _UNICOS  
    if (setsid() < 0)  
        error("setsid: %.100s", strerror(errno));  
  
    fd = open(tty, O_RDWR|O_NOCTTY);  
    if (fd != -1) {  
        signal(SIGHUP, SIG_IGN);  
        ioctl(fd, TCVHUP, (char *)NULL);  
        signal(SIGHUP, SIG_DFL);  
        setpgid(0, 0);  
        close(fd);  
    } else {  
        error("Failed to disconnect from controlling tty.");  
    }  
  
    debug("Setting controlling tty using TCSETCTTY.");  
    ioctl(*ttyfd, TCSETCTTY, NULL);  
    fd = open("/dev/tty", O_RDWR);  
    if (fd < 0)  
        error("%.100s: %.100s", tty, strerror(errno));  
    close(*ttyfd);  
    *ttyfd = fd;  
#else /* _UNICOS */  
  
    /* First disconnect from the old controlling tty. */  
#ifdef TIOCNOTTY  
    fd = open(_PATH_TTY, O_RDWR | O_NOCTTY);  
    if (fd >= 0) {
```

```

(void) ioctl(fd, TIOCNOTTY, NULL);
close(fd);
}
#endif /* TIOCNOTTY */
if (setsid() < 0)
error("setsid: %.100s", strerror(errno));

/*
 * Verify that we are successfully disconnected from the controlling
 * tty.
 */
fd = open(_PATH_TTY, O_RDWR | O_NOCTTY);
if (fd >= 0) {
error("Failed to disconnect from controlling tty.");
close(fd);
}
/* Make it our controlling tty. */
#ifdef TIOCSCTTY
debug("Setting controlling tty using TIOCSCTTY.");
if (ioctl(*ttyfd, TIOCSCTTY, NULL) < 0)
error("ioctl(TIOCSCTTY): %.100s", strerror(errno));
#endif /* TIOCSCTTY */
#ifdef NEED_SETPGRP
if (setpgrp(0,0) < 0)
error("SETPGRP %s",strerror(errno));
#endif /* NEED_SETPGRP */
fd = open(tty, O_RDWR);
if (fd < 0) {
error("%.100s: %.100s", tty, strerror(errno));
} else {
close(fd);
}
/* Verify that we now have a controlling tty. */
fd = open(_PATH_TTY, O_WRONLY);
if (fd < 0)
error("open /dev/tty failed - could not set controlling tty: %.100s",
strerror(errno));
else
close(fd);
#endif /* _UNICOS */
}

/* Changes the window size associated with the pty. */

void
pty_change_window_size(int ptyfd, u_int row, u_int col,
u_int xpixel, u_int ypixel)
{

```

```

struct winsize w;

/* may truncate u_int -> u_short */
w.ws_row = row;
w.ws_col = col;
w.ws_xpixel = xpixel;
w.ws_ypixel = ypixel;
(void) ioctl(ptyfd, TIOCSWINSZ, &w);
}

void
pty_setowner(struct passwd *pw, const char *tty)
{
    struct group *grp;
    gid_t gid;
    mode_t mode;
    struct stat st;

    /* Determine the group to make the owner of the tty. */
    grp = getgrnam("tty");
    gid = (grp != NULL) ? grp->gr_gid : pw->pw_gid;
    mode = (grp != NULL) ? 0620 : 0600;

    /*
     * Change owner and mode of the tty as required.
     * Warn but continue if filesystem is read-only and the uids match/
     * tty is owned by root.
     */
    if (stat(tty, &st))
        fatal("stat(%s) failed: %s", tty,
            strerror(errno));

#ifdef WITH_SELINUX
    ssh_selinux_setup_pty(pw->pw_name, tty);
#endif

    if (st.st_uid != pw->pw_uid || st.st_gid != gid) {
        if (chown(tty, pw->pw_uid, gid) < 0) {
            if (errno == EROFS &&
                (st.st_uid == pw->pw_uid || st.st_uid == 0))
                debug("chown(%s, %u, %u) failed: %s",
                    tty, (u_int)pw->pw_uid, (u_int)gid,
                    strerror(errno));
            else
                fatal("chown(%s, %u, %u) failed: %s",
                    tty, (u_int)pw->pw_uid, (u_int)gid,
                    strerror(errno));
        }
    }
}

```



```

}

if ((st.st_mode & (S_IRWXU|S_IRWXG|S_IRWXO)) != mode) {
if (chmod(tty, mode) < 0) {
if (errno == EROFS &&
    (st.st_mode & (S_IRGRP | S_IROTH)) == 0)
debug("chmod(%.100s, 0%o) failed: %.100s",
    tty, (u_int)mode, strerror(errno));
else
fatal("chmod(%.100s, 0%o) failed: %.100s",
    tty, (u_int)mode, strerror(errno));
}
}
}

/* $OpenBSD: sshpty.h,v 1.12 2010/01/09 05:04:24 djm Exp $ */

/*
 * Author: Tatu Ylonen <ylo@cs.hut.fi>
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 * Functions for allocating a pseudo-terminal and making it the controlling
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 *
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 */

#include <termios.h>

struct termios *get_saved_tio(void);
void leave_raw_mode(int);
void enter_raw_mode(int);

int pty_allocate(int *, int *, char *, size_t);
void pty_release(const char *);
void pty_make_controlling_tty(int *, const char *);
void pty_change_window_size(int, u_int, u_int, u_int, u_int);
void pty_setowner(struct passwd *, const char *);
/* $OpenBSD: sshpty.c,v 1.14 2010/01/09 05:04:24 djm Exp $ */
/*
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```

```
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*/
```

```
#include "includes.h"
```

```
#include <sys/types.h>
```

```
#include <stdio.h>
```

```
#include <termios.h>
```

```
#include <pwd.h>
```

```
#include "sshpty.h"
```

```
static struct termios _saved_tio;
```

```
static int _in_raw_mode = 0;
```

```
struct termios *
```

```
get_saved_tio(void)
```

```
{
```

```
    return _in_raw_mode ? &_saved_tio : NULL;
```

```
}
```

```

void
leave_raw_mode(int quiet)
{
    if (!_in_raw_mode)
        return;
    if (tcsetattr(fileno(stdin), TCSADRAIN, &_saved_tio) == -1) {
        if (!quiet)
            perror("tcsetattr");
    } else
        _in_raw_mode = 0;
}

void
enter_raw_mode(int quiet)
{
    struct termios tio;

    if (tcgetattr(fileno(stdin), &tio) == -1) {
        if (!quiet)
            perror("tcgetattr");
        return;
    }
    _saved_tio = tio;
    tio.c_iflag |= IGNPAR;
    tio.c_iflag &= ~(ISTRIP | INLCR | IGNCR | ICRNL | IXON | IXANY | IXOFF);
#ifdef IUCLC
    tio.c_iflag &= ~IUCLC;
#endif
    tio.c_lflag &= ~(ISIG | ICANON | ECHO | ECHOE | ECHOK | ECHONL);
#ifdef IEXTEN
    tio.c_lflag &= ~IEXTEN;
#endif
    tio.c_oflag &= ~OPOST;
    tio.c_cc[VMIN] = 1;
    tio.c_cc[VTIME] = 0;
    if (tcsetattr(fileno(stdin), TCSADRAIN, &tio) == -1) {
        if (!quiet)
            perror("tcsetattr");
    } else
        _in_raw_mode = 1;
}

```

## 1.702 openssl 0.9.8r

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```
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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
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 * Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any
 * size keys (Implemented RFC5649)
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# 1.711 org.springframework.aop

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## 1.731 org.springframework.transaction

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# 1.732 org.springframework.web

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# 1.735 org.springframework.web.servlet

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# 1.738 p11-kit 0.23.2 :r0

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## 1.740 p11-kit-trust 0.18.5 :2.el6\_5.2

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Version 3, 29 June 2007

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THE BASIC LIBRARY FUNCTIONS

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Written by: Philip Hazel  
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# 1.746 popt 1.15 :1

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# Originally written by Per Bothner <per@bothner.com>.
```

```
# Please send patches to <config-patches@gnu.org>. Submit a context
# diff and a properly formatted ChangeLog entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
# don't specify an explicit build system type.
# This originates from X11R5 (mit/util/scripts/install.sh), which was
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/\*

Popt Library Test Program Number Too

--> "a real world test of popt bugs" <--

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## 1.747 popt 1.16 :r6

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Popt Library Test Program Number Too

--> "a real world test of popt bugs" <--

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# 1.756 powermock-module-junit4 1.4.6

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# 1.757 powermock-module-junit4-common

## 1.4.6

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## 1.759 powermock-reflect 1.4.11

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## 1.761 py-pip 8.1.2 :r0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
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| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
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| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |
| 2.6.5          | 2.6.4        | 2010      | PSF        | yes                 |
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Metadata-Version: 1.1

Name: setuptools

Version: 0.9.7

Summary: Easily download, build, install, upgrade, and uninstall Python packages

Home-page: <https://pypi.python.org/pypi/setuptools>

Author: Python Packaging Authority

Author-email: [distutils-sig@python.org](mailto:distutils-sig@python.org)

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Description: =====

Installing and Using Setuptools

=====

.. contents:: **Table of Contents**

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Download-URL: <http://argparse.googlecode.com/files/argparse-1.2.1.tar.gz>

Description: The argparse module makes it easy to write user friendly command line interfaces.

The program defines what arguments it requires, and argparse will figure out how to parse those out of sys.argv. The argparse module also automatically generates help and usage messages and issues errors when users give the program invalid arguments.

As of Python  $\geq 2.7$  and  $\geq 3.2$ , the argparse module is maintained within the Python standard library. For users who still need to support Python  $< 2.7$  or  $< 3.2$ , it is also provided as a separate package, which tries to stay compatible with the module in the standard library, but also supports older Python versions.

argparse is licensed under the Python license, for details see LICENSE.txt.

## 1.762 py-setuptools 20.8.0 :0

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# 1.763 python 2.7.12 :r0

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#### A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 | 1.2          | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |
| 2.6.4          | 2.6.3        | 2009      | PSF        | yes                 |
| 2.6.5          | 2.6.4        | 2010      | PSF        | yes                 |
| 2.7            | 2.6          | 2010      | PSF        | yes                 |

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Upstream-Name: rabbitmq-server

Upstream-Contact: Jean-Sbastien Pdron <[jean-sebastien@rabbitmq.com](mailto:jean-sebastien@rabbitmq.com)>

Source: <https://github.com/rabbitmq/rabbitmq-server>

Files: \*

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```
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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# 1.772 Redis 2.4.8

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#

#

#####

#

# Interactive service installer for redis server

# this generates a redis config file and an /etc/init.d script, and installs them

# this scripts should be run as root

#

\*

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Version 3, 29 June 2007

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## 1.788 rxjava 1.1.5

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14. <http://uel.java.net/>
15. <http://jstl.java.net/>
16. <http://javaserverfaces.java.net/>
17. <http://jsftemplating.java.net/>
18. <http://woodstock.java.net/>
19. <http://jersey.java.net/>
20. <http://phobos.java.net/>
21. <http://wadl.java.net/>
22. <http://lrwpinjava.java.net/>
23. <http://metro.java.net/>
24. <http://jersey.java.net/>
25. <http://metro.java.net/>
26. <http://jax-ws.java.net/>
27. <http://wsit.java.net/>
28. <http://jaxb.java.net/>
29. <http://jaxp.java.net/>
30. <http://wiseman.java.net/>
31. <http://glassfish.java.net/>
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34. <http://openinstaller.java.net/>
35. <http://glassfishplugins.java.net/>
36. <http://wsmonitor.java.net/>
37. <http://license-tool.java.net/>
38. <http://www.java.net/>
39. <https://java.net/people/login>
40. <https://java.net/people/new>

41. <http://java.net/projects/grizzly/watch>
42. <http://java.net/projects/help/pages/Home>
43. <http://java.net/people/logout>
44. <http://java.net/projects/grizzly/watch>
45. <http://java.net/projects/help/pages/Home>
46. <http://glassfish.java.net/>
47. <http://glassfish.java.net/public/downloadsindex.html>
48. <http://www.java.net/forums/glassfish/glassfish>
49. <http://glassfish.java.net/public/mailling-lists.html>
50. <http://glassfish.java.net/public/CDDLv1.0.html>
51. [http://glassfish.java.net/public/CDDL+GPL\\_1\\_1.html](http://glassfish.java.net/public/CDDL+GPL_1_1.html)
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53. <https://wikis.oracle.com/display/GlassFish>
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56. <mailto:users@glassfish.java.net>
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58. <http://glassfish.java.net/public/CDDLv1.0.html>
59. <http://blueprints.java.net/>
60. <http://glassfish-samples.java.net/>
61. <http://glassfish.java.net/public/CDDLv1.0.html>
62. <http://java.net/projects/glassfish/watch>
63. <https://wikis.oracle.com/display/GlassFish/FullBuildInstructions>
64. <http://hudson.glassfish.org/job/gf-trunk-build-continuous/>
65. <http://java.net/projects/glassfish/sources/svn/show>
66. <https://fisheye4.atlassian.com/browse/~br=trunk/glassfish-svn>
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68. <http://glassfish.java.net/docs/project.html>
69. <http://java.net/jira/browse/GLASSFISH>
70. <http://glassfish.java.net/ja/>
71. <http://glassfish.java.net/zh/>
72. <http://glassfish.java.net/public/CDDLv1.0.html>
73. <http://glassfish.java.net/de/>
74. <http://glassfish.java.net/es/>
75. <http://glassfish.java.net/fr/>
76. <http://glassfish.java.net/ko/>
77. [http://glassfish.java.net/zh\\_TW/](http://glassfish.java.net/zh_TW/)
78. <http://glassfish.java.net/public/downloadsindex.html>
79. <http://java.net/projects/glassfish/lists/announce/archive>
80. <http://glassfish.java.net/public/mailling-lists.html>
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85. <http://glassfish.java.net/javaee5/docs/DocsIndex.html>
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87. <http://glassfish.java.net/nonav/javaee5/api/index.html>
88. <mailto:users@glassfish.java.net>

89. <http://glassfish.java.net/public/CDDLv1.0.html>
90. <http://blueprints.java.net/>
91. <http://glassfish-samples.java.net/>
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93. <https://wikis.oracle.com/display/GlassFish/FullBuildInstructions>
94. <http://hudson.glassfish.org/job/gf-trunk-build-continuous/>
95. <http://java.net/projects/glassfish/sources/svn/show>
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98. <http://glassfish.java.net/zh/>
99. <http://glassfish.java.net/index.html>
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# Please send patches to <config-patches@gnu.org>. Submit a context
# diff and a properly formatted ChangeLog entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
# don't specify an explicit build system type.
```

## 1.798 select2 4.0.0

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## 1.816 slf4j-api 1.7.5

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## 1.819 slf4j-ext 1.5.6

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# 1.865 spring-aop 4.2.6.RELEASE

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# 1.866 spring-asm 3.0.0.RELEASE

## 1.866.1 Available under license :

ASM: a very small and fast Java bytecode manipulation framework

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# 1.867 spring-asm 3.0.0.RELEASE

## 1.867.1 Available under license :

Link to license in SpringSource repository broken. Opened a case with SpringSource support:

Linda Shonk (lshonk)  
From: Yathiraj Udupi (yudupi)  
Sent: Friday, August 06, 2010 7:14 AM  
To: Yathiraj Udupi (yudupi); Linda Shonk (lshonk)  
Subject: RE: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

Also Linda,

Just to clarify, what they mean by Spring projects is that - all `?org.springframework.XXXX?` modules, such as `org.springframework.beans`, `org.springframework.asm`, etc.

All the other third party jars distributed by springsource in the enterprise repository are named with a prefix `?org.springsource.XXXX?` for e.g. `org.springsource.org antlr ?` and they have their own separate licenses.

Thanks,

Yathi.

From: Yathiraj Udupi (yudupi)  
Sent: Friday, August 06, 2010 7:00 AM  
To: Linda Shonk (lshonk)  
Subject: RE: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource

Enterprise Repository

Hi Linda,

It should be the same Apache license for all Spring framework modules for all versions. So you should be fine. But in

the shipping XMP platform, we don't have any 3.0.1.RELEASE versions for any spring components. message from springsource ?

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Let me know if you have further questions.

Regards,

Lou-ann

?

2

Thanks,

Yathi.

From: Linda Shonk (lshonk)  
Sent: Thursday, August 05, 2010 12:37 PM  
To: Yathiraj Udupi (yudupi)  
Subject: FW: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource

Enterprise Repository

Got it okay for the 3.0.0 release. The 3.0.1 Release is also missing license information in the repository.

Linda

From: SpringSource Support [mailto:support@springsource.com]  
Sent: Thursday, August 05, 2010 8:03 AM  
To: Yathiraj Udupi (yudupi)  
Cc: Linda Shonk (lshonk); Andrew Ballantyne (aballant)  
Subject: Incident (case 9815) - URGENT: License files missing for Springframework modules in Springsource Enterprise Repository  
Repository  
Please do not reply to this email, login to [http://support.springsource.com/spring\\_account](http://support.springsource.com/spring_account) and update your incident at [http://support.springsource.com/spring\\_support\\_client\\_getIncidentById/9815](http://support.springsource.com/spring_support_client_getIncidentById/9815)  
Reference # 9815  
Subject: URGENT: License files missing for Springframework modules in Springsource Enterprise Repository

-----  
Product: Spring Modules  
Sub product: Other  
Severity: Development  
Date Created: 2010-08-03 21:19:19  
Last Updated: 2010-08-05 03:27:03  
Status: Pending Customer FB  
Version: 3.0.0.RELE  
Platform: Other  
CC: lshonk@cisco.com, aballant@cisco.com  
Discussion Thread

-----  
Yathiraj Udupi on 2010-08-05 15:03:27:

Thanks Lou-ann for your response.

on 2010-08-05 05:36:54:

Hi Yathiraj,

Were you able check the link to the Apache license? I am coordinating with repository admin to fix the licenses 3

on the SpringSource repository. For the mean time, you may use the link that I sent in my last response to get the license for Spring 3.0.x

Let me know if you have further questions.

Regards,

Lou-ann

on 2010-08-04 12:00:17:

Hi Yathiraj,

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<http://www.apache.org/licenses/>

Let me know if you have further questions.

Regards,

Lou-ann

on 2010-08-04 00:14:46:

Hi Yathiraj,

I will look into this and will get back to you.

Regards,

Lou-ann

Yathiraj Udipi on 2010-08-03 21:19:19:

Hi,

We need to update the license information in our company License portal, for the Spring bundles that are shipped in Springsource dm Server 2.0, in the repository/ext folder.

This is required URGENTLY, so that we can ship our release.

When we look for the license file link from the Springsource enterprise repository, we get an error.

For example,

<http://www.springsource.com/repository/app/bundle/version/detail?name=org.springframework.asm&version=3.0.0.RELEASE>

.0.0.RELEASE

In the above link, the License hyperlink gives an error. Similarly we need the licence for all 3.0.0.RELEASE versioned Springframework module jars such as ASM, Beans, Context, Expression, JDBC, Test, Web, and others included in the repository/ext folder. All the "License" links for all of these modules throw an error like this -

```
<Error>
```

```
<Code>NoSuchKey</Code>
```

```
<Message>The specified key does not exist.</Message>
```

```
?
```

```
<Key>
```

```
ivy/bundles/release/org.springframework/org.springframework.asm/3.0.0.RELEASE/license-3.0.0.RELEASE.txt
```

```
</Key>
```

```
<RequestId>C36AA496B452C999</RequestId>
```

```
?
```

```
<HostId>
```

```
fdPz4L7hLvTnc8Do+aiWkb2Ck1Y6yu5ela3EueZ5p1ySr5w6Gcp0FgutiZxERJSp
```

```
</HostId>
```

```
</Error>
```

Can you please provide the license files for all of the Springframework modules in the repository/ext ?

Thanks,

Yathi.

Incident update link:

login to [http://support.springsource.com/spring\\_account](http://support.springsource.com/spring_account) and update your incident at

[http://support.springsource.com/spring\\_support\\_client\\_getIncidentById/9815](http://support.springsource.com/spring_support_client_getIncidentById/9815)

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# 1.875 spring-boot-autoconfigure

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# 1.883 spring-boot-starter-validation

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# 1.887 spring-cloud-netflix-core

## 1.1.4.RELEASE

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# 1.890 spring-cloud-starter-feign

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# 1.891 spring-cloud-starter-ribbon

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# 1.913 spring-plugin-metadata 1.2.0.RELEASE

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## 1.914 spring-rabbit 1.5.1.RELEASE

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# 1.923 spring-security-web 4.0.4.RELEASE

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## 1.948 springfox-swagger2 2.5.0

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Wed, 2010-03-31 14:02 administrator

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# 1.967 struts-taglib 1.3.10

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# 1.968 struts-tiles 1.3.10

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# 1.970 struts2-sitemesh-plugin 2.3.16.3

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Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry  
Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
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Bezina, Pavel  
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Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas

Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
ek, Vtzslav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, YOSHIFUJI  
Hieb, Dave  
Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
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Jorge, Joel Pele  
Pele Jorge, Joel  
Juhani, Timo  
KIKUCHI, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey

Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
Lakin, Eric  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas  
Mller, Dworkin  
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Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
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Richards, Matt  
Rossum, Guido van

Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
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Ryabinkin, Eygene  
SATO, Yuichi  
Snchez, Wilfredo  
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Wetzel, Timm  
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Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario  
Bogusz, Jakub  
Casagrande, Milo  
Castro, Felipe  
Chornoivan, Yuri  
Diguez, Francisco  
Ferreira, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
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Hantrais, Frdric  
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Regueiro, Leandro  
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Sendn, Abel  
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# 1.985 Tomcat 6.0.32

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## 1.990 tomcat-embed-core 8.0.23

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## 1.991 tomcat-embed-core 7.0.42

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- web-common\_3\_0.xsd
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# 1.997 tomcat-embed-logging-juli 8.0.23

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README -- trio

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Trio is intended to be an integral part of another application, so we have not done anything to create a proper installation.

Compile with 'make' (edit the Makefile if you want a release build)

Test the package with 'make test'

Install by copying trio.h, triop.h, and libtrio.a (and man/man?/\* if you want documentation) to the appropriate directories.

Catch some usage examples in example.c

Send feedback and patches to the mailing list, subscription and other information is found here:

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Enjoy!

Trio web page

<http://daniel.haxx.se/trio/>

# 1.1014 Twitter Bootstrap 3.1.0

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## 1.1019 uglify-js 2.6.4

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---

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed.

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```
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*
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# 1.1024 User Type for Joda Time with Hibernate 2.0.1

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# 1.1025 User Type SPI Classes for Hibernate

## 2.0.1

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## 1.1029 validation-api-1.1.0.Final.jar 1.1.0.Final

### 1.1030 validator 4.0.5

#### 1.1030.1 Available under license :

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## 1.1031 Vim 7.4.1831 :r1

### 1.1031.1 Available under license :

/\*

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Arnaud LE HORS    BULL Research FRANCE -- Koala Project

(XPM - X PixMap format version 2 & 3)

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2004, route des Lucioles, 06565 Valbonne Cedex -- FRANCE  
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\*uganda.txt\* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

\*uganda\* \*Uganda\* \*copying\* \*copyright\* \*license\*

## SUMMARY

\*iccf\* \*ICCF\*

Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see `|kcc|` below or visit the ICCF web site, available at these URLs:

<http://iccf-holland.org/>

<http://www.vim.org/iccf/>

<http://www.iccf.nl/>

You can also sponsor the development of Vim. Vim sponsors can vote for features. See `|sponsor|`. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see `|manual-copyright|`.

=== begin of license ===

## VIM LICENSE

D) There are no restrictions on distributing unmodified copies of Vim except that they must include this license text. You can also distribute unmodified parts of Vim, likewise unrestricted except that they must include this license text. You are also allowed to include executables that you made from the unmodified Vim sources, plus your own usage examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim, including executables and/or source code, when the following four conditions are met:

- 1) This license text must be included unmodified.
- 2) The modified Vim must be distributed in one of the following five ways:
  - a) If you make changes to Vim yourself, you must clearly describe in the distribution how to contact you. When the maintainer asks you (in any way) for a copy of the modified Vim you distributed, you must make your changes, including source code, available to the

maintainer without fee. The maintainer reserves the right to include your changes in the official version of Vim. What the maintainer will do with your changes and under what license they will be distributed is negotiable. If there has been no negotiation then this license, or a later version, also applies to your changes. The current maintainer is Bram Moolenaar <Bram@vim.org>. If this changes it will be announced in appropriate places (most likely vim.sf.net, www.vim.org and/or comp.editors). When it is completely impossible to contact the maintainer, the obligation to send him your changes ceases. Once the maintainer has confirmed that he has received your changes they will not have to be sent again.

b) If you have received a modified Vim that was distributed as mentioned under a) you are allowed to further distribute it unmodified, as mentioned at I). If you make additional changes the text under a) applies to those changes.

c) Provide all the changes, including source code, with every copy of the modified Vim you distribute. This may be done in the form of a context diff. You can choose what license to use for new code you add. The changes and their license must not restrict others from making their own changes to the official version of Vim.

d) When you have a modified Vim which includes changes as mentioned under c), you can distribute it without the source code for the changes if the following three conditions are met:

- The license that applies to the changes permits you to distribute the changes to the Vim maintainer without fee or restriction, and permits the Vim maintainer to include the changes in the official version of Vim without fee or restriction.
- You keep the changes for at least three years after last distributing the corresponding modified Vim. When the maintainer or someone who you distributed the modified Vim to asks you (in any way) for the changes within this period, you must make them available to him.
- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

e) When the GNU General Public License (GPL) applies to the changes, you can distribute the modified Vim under the GNU GPL version 2 or any later version.

3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding the message is only required for as far as this does not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make corrections.



III) If you distribute a modified version of Vim, you are encouraged to use the Vim license for your changes and make them available to the maintainer, including the source code. The preferred way to do this is by e-mail or by uploading the files to a server and e-mailing the URL. If the number of changes is small (e.g., a modified Makefile) e-mailing a context diff will do. The e-mail address to be used is <maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim sources, parts of it or from a modified version. You may use this license for previous Vim releases instead of the license that they came with, at your option.

==== end of license ====

Note:

- If you are happy with Vim, please express that by reading the rest of this file and consider helping needy children in Uganda.
- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.
- According to Richard Stallman the Vim license is GNU GPL compatible. A few minor changes have been made since he checked it, but that should not make a difference.
- If you link Vim with a library that goes under the GNU GPL, this limits further distribution to the GNU GPL. Also when you didn't actually change anything in Vim.
- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
- If you distribute a modified version of Vim, you can include your name and contact information with the "--with-modified-by" configure argument or the MODIFIED\_BY define.

=====  
Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both

parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [|iccf|](#) for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.

Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy  
10238-168 Street  
Surrey, B.C. V4N 1Z4  
Canada  
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your

tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.

This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774

IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:

<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

[Bram@iccf-holland.org](mailto:Bram@iccf-holland.org)

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:

# 1.1032 vim 7.4.1831 :r1

## 1.1032.1 Available under license :

/\*

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Arnaud LE HORS BULL Research FRANCE -- Koala Project

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Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

\*uganda.txt\* For Vim version 7.4. Last change: 2013 Jul 06

VIM REFERENCE MANUAL by Bram Moolenaar

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## SUMMARY

\*iccf\* \*ICCF\*

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<http://iccf-holland.org/>

<http://www.vim.org/iccf/>

<http://www.iccf.nl/>

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see [manual-copyright].

=== begin of license ===

## VIM LICENSE

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- Once a change is included that goes under the GNU GPL, this forces all further changes to also be made under the GNU GPL or a compatible license.
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=====  
Kibaale Children's Centre \*kcc\* \*Kibaale\* \*charity\*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is



also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

\*donate\*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

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2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is

visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:

Kibaale Children's Centre  
p.o. box 1658  
Masaka, Uganda, East Africa

Sending money: \*iccf-donations\*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.

Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.

For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy  
10238-168 Street  
Surrey, B.C. V4N 1Z4  
Canada  
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.

This will allow for tax deduction if you live in Holland.  
Postbank, nr. 4548774  
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.

Check the ICCF web site for the latest information:  
<http://iccf-holland.org/germany.html>

World: Use a postal money order. That should be possible from any

country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.

Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

[https://www.paypal.com/en\\_US/mrb/pal=XAC62PML3GF8Q](https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q)

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro (\$500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A

IBAN: NL95 INGB 0004 5487 74

under the name "stichting ICCF Holland", Lisse

If that doesn't work:

Rabobank Lisse, account 3765.05.117

Swift code: RABO NL 2U

under the name "Bram Moolenaar", Lisse

Otherwise, send a check in euro or US dollars to the address below. Minimal amount: \$70 (my bank does not accept smaller amounts for foreign check, sorry)

Address to send checks to:

Bram Moolenaar

Finsterruetihof 1

8134 Adliswil

Switzerland

This address is expected to be valid for a long time.

```
vim:tw=78:ts=8:ft=help:norl:
```

```
/* vi:set ts=8 sts=4 sw=4:
```

```
*
```

```
* VIM - Vi IMproved by Bram Moolenaar
```

```
*
```

```
* Do ":help uganda" in Vim to read copying and usage conditions.
```

```
* Do ":help credits" in Vim to see a list of people who contributed.
```

```
* See README.txt for an overview of the Vim source code.
```

```

*/
/*
* The stuff in this file mostly comes from the "screen" program.
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```

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# 1.1035 wsd14j 1.5.1

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## 1.1036 WSDL4j 1.6.2

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# 1.1058 XmlSchema 1.4.5

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- \* How to Contribute
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# 1.1068 xwork-core 2.3.16.3

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# 1.1071 yui 2.5.1

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yui/examples/treeview/assets/js/json.js:

/\*

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\*/

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yui/examples/profilerviewer/assets/dpSyntaxHighlighter.js

yui/examples/treeview/assets/js/dpSyntaxHighlighter.js

/\*\*

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\*/

yui/build/charts/charts-experimental-debug.js

yui/build/charts/charts-experimental-min.js

yui/build/charts/charts-experimental.js

yui/build/uploader/uploader-experimental-debug.js

yui/build/uploader/uploader-experimental-min.js

yui/build/uploader/uploader-experimental.js

yui/docs/swfobject.js.html

/\*!

\* SWFObject v1.5: Flash Player detection and embed - <http://blog.deconcept.com/swfobject/>

\*

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## 1.1072 yui 2.6.0

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- \* [Logger](#)

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- \* Paginator
- \* Profiler
- \* ProfilerViewer
- \* Resize
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- \* Slider
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- \* YUI Loader
- \* YUI Test
- \* Reset CSS
- \* Base CSS
- \* Fonts CSS
- \* Grids CSS
- \* YUI Tools
- \* YUI Compressor
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- \* Home
- \* About Us
- \* Developer Network Blog
- \* YDN FAQ
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- \* Working Examples

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yui/examples/treeview/assets/js/json.js:

/\*

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\*/

yui/assets/dpSyntaxHighlighter.js

yui/examples/profilerviewer/assets/dpSyntaxHighlighter.js

yui/examples/treeview/assets/js/dpSyntaxHighlighter.js

/\*\*

\* Code Syntax Highlighter.

\* Version 1.3.0

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\* <http://www.dreamprojections.com/syntaxhighlighter/>

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\*/

yui/build/animation/animation-debug.js

yui/build/animation/animation-min.js

yui/build/animation/animation.js

yui/build/utilities/utilities.js

yui/docs/Easing.js.html

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yui/build/charts/charts-experimental-debug.js

yui/build/charts/charts-experimental-min.js

yui/build/charts/charts-experimental.js

yui/build/uploader/uploader-experimental-debug.js

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yui/build/uploader/uploader-experimental.js

yui/docs/swfobject.js.html

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yui-2.6.0/yui/as-src/charts/com/adobe/serialization/json/JSON.as

yui-2.6.0/yui/as-src/charts/com/adobe/serialization/json/JSONDecoder.as

yui-2.6.0/yui/as-src/charts/com/adobe/serialization/json/JSONEncoder.as

yui-2.6.0/yui/as-src/charts/com/adobe/serialization/json/JSONParseError.as

yui-2.6.0/yui/as-src/charts/com/adobe/serialization/json/JSONToken.as

yui-2.6.0/yui/as-src/charts/com/adobe/serialization/json/JSONTokenType.as

yui-2.6.0/yui/as-src/charts/com/adobe/serialization/json/JSONTokenizer.as

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\*/

==> yui-2.6.0/yui/assets/dpSyntaxHighlighter.js <==

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\* Version 1.3.0

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yui/assets/dpSyntaxHighlighter.js

yui/examples/profilerviewer/assets/dpSyntaxHighlighter.js

yui/examples/treeview/assets/js/dpSyntaxHighlighter.js

/\*\*

\* Code Syntax Highlighter.

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## 1.1074 zlib 1.2.8 :r2

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# 1.1075 zlib 1.2.8 :(28 Apr 2013)

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.8, April 28th, 2013
```

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

```
*/
```

```
-----
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```

# 1.1076 zlib 1.2.2

## 1.1076.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.2, October 3rd, 2004
```

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](#) (deflate format) and [rfc1952.txt](#) (gzip format).

# 1.1077 zone.js 0.6.12

## 1.1077.1 Available under license :

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