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In your requests please include the following reference number 78EE117C99-115561937

Contents

- 1.1 alsa-lib 1.0.16 :3.fc9**
 - 1.1.1 Available under license
- 1.2 alsa-utils 1.0.16 :2.fc9**
 - 1.2.1 Available under license
- 1.3 apache-log4j 1.2.15 :DUPLICATE**
 - 1.3.1 Available under license
- 1.4 atk 1.22.0 :1.fc9**
 - 1.4.1 Available under license
- 1.5 bash 3.2**
 - 1.5.1 Available under license
- 1.6 bash 2.05b.1.0.2. :0703267**
 - 1.6.1 Available under license
- 1.7 BigIntegers and RSA in JavaScript 1.1**
 - 1.7.1 Available under license
- 1.8 Blob.js 1.0**
 - 1.8.1 Available under license
- 1.9 BMC/CIMC Device Drivers 1.0/1.1 :1.0**
 - 1.9.1 Available under license
- 1.10 boa 0.94.13**
 - 1.10.1 Available under license
- 1.11 busybox 1.9.0 :0**
 - 1.11.1 Available under license
- 1.12 BusyBox 1.8.2**
 - 1.12.1 Available under license
- 1.13 cairo 1.4.14 :1.fc8**
 - 1.13.1 Available under license

1.14 CheckboxTree 3.2

1.14.1 Available under license

1.15 coreutils 5.2.1 :3.0.2-0703267

1.15.1 Available under license

1.16 cpio 2.5. :1.0.1.0703267

1.16.1 Available under license

1.17 directfb 1.0.0 :4.fc9

1.17.1 Available under license

1.18 dmidecode 2.9

1.18.1 Available under license

1.19 dojo-1.8.3 1.8.3

1.19.1 Available under license

1.20 dropbear 0.51

1.20.1 Available under license

1.21 Dropbear 0.50

1.21.1 Available under license

1.22 eject 2.1.5 :5

1.22.1 Available under license

1.23 ethtool 3

1.23.1 Available under license

1.24 expat 2.0.1

1.24.1 Available under license

1.25 Expat Lib 2.0.1

1.25.1 Available under license

1.26 fbset 2.1 :25.fc9

1.26.1 Available under license

1.27 FileSaver.js 1.0

1.27.1 Available under license

1.28 Foxtrot 3.0

1.28.1 Available under license

1.29 gawk 3.1.3 :2.0.0.0703267

1.29.1 Available under license

1.30 GCC Compiler ,GCC C++ run-time library and GCC STL 3.2.1

1.30.1 Available under license

1.31 GCC Compiler ,GCC C++ run-time library and GCC STL - libs 3.2.1

1.31.1 Available under license

1.32 GDB 6.6

1.32.1 Available under license

1.33 glib 2.8.3-1.0.1 :0703267

- 1.33.1 Available under license
- 1.34 glib2 2.16.3 :5.fc9**
 - 1.34.1 Available under license
- 1.35 glibc 2.5 :24**
 - 1.35.1 Available under license
- 1.36 glibc gplapp 2.5.24**
 - 1.36.1 Available under license
- 1.37 glibc-ports 2.5**
 - 1.37.1 Available under license
- 1.38 gridx 1.2 1.2.1**
 - 1.38.1 Available under license
- 1.39 grub 0.97**
 - 1.39.1 Available under license
- 1.40 gtk-doc 1.9 :4.fc9**
 - 1.40.1 Available under license
- 1.41 gtk2 2.12.9 :5.fc9**
 - 1.41.1 Available under license
- 1.42 gzip 1.3.5-2.0 :0703267**
 - 1.42.1 Available under license
- 1.43 hotplug2 0.9 :2.0**
 - 1.43.1 Available under license
- 1.44 httpd 2.4.16**
 - 1.44.1 Available under license
- 1.45 httpd 2.2.25 :1**
 - 1.45.1 Available under license
- 1.46 httpd/modules/mappers/mod_imagemap.c 2.4.16**
 - 1.46.1 Available under license
- 1.47 httpd/rsa-dsi-md4-portions 2.4.16**
 - 1.47.1 Available under license
- 1.48 httpd/rsa-dsi-md5-portions 2.4.16**
 - 1.48.1 Available under license
- 1.49 httpd/src/lib/apr-util/test/testmd4.c 2.4.16**
 - 1.49.1 Available under license
- 1.50 httpd/util_md5 2.4.16**
 - 1.50.1 Available under license
- 1.51 httpd/zeusbench-portions 2.4.16**
 - 1.51.1 Available under license
- 1.52 jautocomp 20050128 :20050128**
 - 1.52.1 Available under license

- 1.53 javascript-ipv6 3.1.1**
 - 1.53.1 Available under license
- 1.54 jbusycomponent 1.0.1**
 - 1.54.1 Available under license
- 1.55 jcommon 1.0.12**
 - 1.55.1 Available under license
- 1.56 JFreeChart 1.0.9**
 - 1.56.1 Available under license
- 1.57 JGraph 5.0**
 - 1.57.1 Available under license
- 1.58 Jna 3.2.0**
 - 1.58.1 Available under license
- 1.59 jxlayer 3.0**
 - 1.59.1 Available under license
- 1.60 kernel 2.6.10 :ucs-cmc**
 - 1.60.1 Available under license
- 1.61 kernel-linux 2.6.27**
 - 1.61.1 Available under license
- 1.62 libcurl 7.25**
 - 1.62.1 Available under license
- 1.63 libcurl 7.43.0**
 - 1.63.1 Available under license
- 1.64 libedit 20090923-3.0**
 - 1.64.1 Available under license
- 1.65 libgcc 1-3.4.3-25.0.135 :0703267**
 - 1.65.1 Available under license
- 1.66 libpcap 1.4.0 :1.20130826git2dbcaa1.el6**
 - 1.66.1 Available under license
- 1.67 libpcap 0.9.4-2.0. :0703267**
 - 1.67.1 Available under license
- 1.68 libposixtime 3.1.1-1.0.3 :0703267**
 - 1.68.1 Notifications
 - 1.68.2 Available under license
- 1.69 libtecla 1.6.0 :0**
 - 1.69.1 Available under license
- 1.70 libusb 0.1.12 :15.fc9**
 - 1.70.1 Available under license
- 1.71 libxml2 2.9.2**
 - 1.71.1 Available under license

- 1.72 linux 2.6.16.12**
 - 1.72.1 Available under license
- 1.73 linux-live 5.5.0**
 - 1.73.1 Available under license
- 1.74 Isof 4.7.1-2.0 :0703267**
 - 1.74.1 Notifications
 - 1.74.2 Available under license
- 1.75 ltrace 0.5.1**
 - 1.75.1 Available under license
- 1.76 MAKEDEV 3.23 :1.2**
 - 1.76.1 Available under license
- 1.77 memstat 0.4**
 - 1.77.1 Available under license
- 1.78 Miglayout 3.6**
 - 1.78.1 Available under license
- 1.79 mod_auth_pam 1.1.1**
 - 1.79.1 Available under license
- 1.80 mod_security 2.9.0**
 - 1.80.1 Available under license
- 1.81 mod_security_crs 2.2.9**
 - 1.81.1 Available under license
- 1.82 module-init-tools 3.2.2**
 - 1.82.1 Available under license
- 1.83 MooTools 1.4.3**
 - 1.83.1 Available under license
- 1.84 mtd-utils 2.6.9-1.1 :0703267**
 - 1.84.1 Available under license
- 1.85 mtd-utils 1.2.0 1.2.0-1.fc10**
 - 1.85.1 Available under license
- 1.86 ncurses 5.4-1.0.2 :0703267**
 - 1.86.1 Available under license
- 1.87 ncurses 5.6 :6.20070303.fc7**
 - 1.87.1 Available under license
- 1.88 net-snmp 5.1**
 - 1.88.1 Available under license
- 1.89 netkit-rsh 0.17-6.0.3 :0703267**
 - 1.89.1 Available under license
- 1.90 NullSoft Install System (NSIS) 2.41**
 - 1.90.1 Available under license

1.91 Office LnF 2.7

1.91.1 Available under license

1.92 omcclp-0.5 0.5

1.92.1 Available under license

1.93 openldap 2.2.20

1.93.1 Available under license

1.94 openssh 6.2p2 :r0

1.94.1 Available under license

1.95 OpenSSL 0.9.8i

1.95.1 Notifications

1.95.2 Available under license

1.96 Openssl fips-1.2

1.96.1 Notifications

1.96.2 Available under license

1.97 OpenSSL 1.0.1

1.97.1 Notifications

1.97.2 Available under license

1.98 openssl 1.0.1l :1

1.98.1 Notifications

1.98.2 Available under license

1.99 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

1.99.1 Notifications

1.99.2 Available under license

1.100 openssl-fips-1.2.3 1.2.3

1.100.1 Notifications

1.100.2 Available under license

1.101 openwbem-3.2.2 3.2.2

1.101.1 Available under license

1.102 openwsman-core-1.5.9 1.5.9

1.102.1 Available under license

1.103 PAM 0.99.10.0

1.103.1 Available under license

1.104 pam 0.76-4.0.3 :0703267

1.104.1 Available under license

1.105 pango 1.20.1 :1.fc9

1.105.1 Available under license

1.106 pciutils 2.2.5 :6.0.0.0801182

1.106.1 Available under license

1.107 pcre 7.9

- 1.107.1 Available under license
- 1.108 perl 5.10.0 :47.fc10**
- 1.108.1 Available under license
- 1.109 pppd 2.4.1 :1.0**
- 1.109.1 Available under license
- 1.110 Prefuse beta :2007.10.21**
- 1.110.1 Available under license
- 1.111 procmail 3.22-1.0 :0703267**
- 1.111.1 Available under license
- 1.112 procps 3.2.5-6.0 :0703267**
- 1.112.1 Available under license
- 1.113 ptpd v1rc1**
- 1.113.1 Available under license
- 1.114 python 2.7.6**
- 1.114.1 Available under license
- 1.115 python 2.7.8**
- 1.115.1 Available under license
- 1.116 readline bash 3.2**
- 1.116.1 Available under license
- 1.117 readline bash 2.05b**
- 1.117.1 Available under license
- 1.118 readline-libs 4.3-2.0.1 :0703267**
- 1.118.1 Available under license
- 1.119 rpm 4.3.3-6.0.4 :0703267**
- 1.119.1 Available under license
- 1.120 rsync 2.6.3 :1**
- 1.120.1 Available under license
- 1.121 Rsyslog 3.17.5**
- 1.121.1 Available under license
- 1.122 Rsyslog 3.16.1 :nouva**
- 1.122.1 Available under license
- 1.123 sblim-sfcb-1.2.4 1.2.4**
- 1.123.1 Available under license
- 1.124 sblim-sfcb-1.3.3 1.3.3**
- 1.124.1 Available under license
- 1.125 sblim-sfcc-2.0.2 2.0.2**
- 1.125.1 Available under license
- 1.126 setmixer 27DEC94ds1**
- 1.126.1 Available under license

- 1.127 sox 14.0.1**
 - 1.127.1 Available under license
- 1.128 strace 4.5.11-1.0.6 :.0703267**
 - 1.128.1 Available under license
- 1.129 Strace 4.5.18**
 - 1.129.1 Available under license
- 1.130 SwingX 1.0**
 - 1.130.1 Available under license
- 1.131 Sysstat 8.1.2**
 - 1.131.1 Available under license
- 1.132 tcp-wrappers 7.6-7.0.1 :0703267**
 - 1.132.1 Available under license
- 1.133 tftp-hpa 5.2**
 - 1.133.1 Available under license
- 1.134 TianoCore EDK 1.03**
 - 1.134.1 Available under license
- 1.135 TianoCore EFI-SHELL 1.00**
 - 1.135.1 Available under license
- 1.136 Timing Framework 1.0**
 - 1.136.1 Available under license
- 1.137 tslib 1.0 :1**
 - 1.137.1 Available under license
- 1.138 U-Boot 1.1.4**
 - 1.138.1 Available under license
- 1.139 U-Boot 1.1.3**
 - 1.139.1 Available under license
- 1.140 u-boot 1.1.3**
 - 1.140.1 Available under license
- 1.141 usbutils 0.73 :2.fc9**
 - 1.141.1 Available under license
- 1.142 vlan 1.8 :1.0.1.0501961**
 - 1.142.1 Available under license
- 1.143 wireshark 1.10.1**
 - 1.143.1 Available under license
- 1.144 wireshark 1.2.9**
 - 1.144.1 Available under license
- 1.145 wireshark/tools/pidl 1.10.1**
 - 1.145.1 Available under license
- 1.146 wrsv-ltt 1.0**

- 1.146.1 Available under license
- 1.147 x2js 1.0.8**
- 1.147.1 Available under license
- 1.148 yaffs2 2006-01-30**
- 1.148.1 Available under license
- 1.149 yui 2.6.0**
- 1.149.1 Available under license
- 1.150 zeromq 4.0.4**
- 1.150.1 Available under license
- 1.151 Zlib 1.2.3**
- 1.151.1 Available under license
- 1.152 zlib 1.2.1.1-2.0.2 :0703267**
- 1.152.1 Available under license

1.1 alsa-lib 1.0.16 :3.fc9

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Appendix: How to Apply These Terms to Your New Programs

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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  
it under the terms of the GNU General Public License as published by  
the Free Software Foundation; either version 2 of the License, or  
(at your option) any later version.
```

```
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GNU General Public License for more details.
```

```
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along with this program; if not, write to the Free Software  
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```

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```
Gnomovision version 69, Copyright (C) 19yy name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
```

Ty Coon, President of Vice

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1.3 apache-log4j 1.2.15 :DUPLICATE

1.3.1 Available under license :

Apache License

Version 2.0, January 2004

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1.4 atk 1.22.0 :1.fc9

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1.5 bash 3.2

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1.6 bash 2.05b.1.0.2. :0703267

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1.8 Blob.js 1.0

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 * A Blob implementation.
 * 2013-12-27
 *
 * By Eli Grey, http://eligrey.com
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```

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```

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```

```
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```

```
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```

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Julian Seward, Cambridge, UK.

jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.18 dmidecode 2.9

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1.19 dojo-1.8.3 1.8.3

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1.20 dropbear 0.51

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1.22 eject 2.1.5 :5

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```
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 * A saveAs() FileSaver implementation.
 * 2014-01-24
 *
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```

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1.29 gawk 3.1.3 :2.0.0.0703267

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1.30 GCC Compiler ,GCC C++ run-time library and GCC STL 3.2.1

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1.31 GCC Compiler ,GCC C++ run-time library and GCC STL - libs 3.2.1

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1.32 GDB 6.6

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1.33 glib 2.8.3-1.0.1 :0703267

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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.

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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.

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.

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.

d) 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 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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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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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1.34 glib2 2.16.3 :5.fc9

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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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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:

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- 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.)

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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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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.

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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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1.35 glibc 2.5 :24

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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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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.

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[This is the first released version of the library GPL. It is
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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

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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.

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1.36 glibc gplapp 2.5.24

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1.38 gridx 1.2 1.2.1

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```

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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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#

For the test\zb.c component:

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=====

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

*/

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1.45 httpd 2.2.25 :1

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```

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```

/*****
* NCSA HTTPd Server

```

```

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* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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install - install a program, script, or datafile

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=====
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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From test/CuTest.c, test/CuTest.h:

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End

1.46

httpd/modules/mappers/mod_imagemap.c

2.4.16

1.46.1 Available under license :

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
strict.dtd">
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X
    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org">Apache</a> > <a href="http://httpd.apache.org/">HTTP Server</a> > <a
href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
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<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
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class="warning"><strong>Notice:</strong><br />This is not a Q&A section. Comments placed here should be
pointed towards suggestions on improving the documentation or server, and may be removed again by our
moderators if they are either implemented or considered invalid/off-topic. Questions on how to manage the Apache
HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a
href="http://httpd.apache.org/lists.html">mailing lists</a></div>
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  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
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  }
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--><![></script></div><div id="footer">
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<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
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if (typeof(prettyPrint) !== 'undefined') {
  prettyPrint();
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```
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*
*/

```

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"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com

For the server\util_md5.c component:

```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
*****/
*
* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
*
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* Portions of Content-MD5 code Copyright (C) 1993, 1994 by Carnegie Mellon

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```
*/
/*
* The apr_md5_encode() routine uses much code obtained from the FreeBSD 3.0
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* -----
* "THE BEER-WARE LICENSE" (Revision 42):
* <phk@login.dknet.dk> wrote this file. As long as you retain this notice you
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* -----
*/
```

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For the srclib\apr-util\xml\expat\confutils\install-sh component:

```
#  
# install - install a program, script, or datafile  
# This comes from X11R5 (mit/util/scripts/install.sh).  
#  
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#
```

For the test\zb.c component:

```
/*          ZeusBench V1.01  
=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

*/

For the expat xml parser component:

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```
=====
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
```

```
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>
```

```
<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> > <a href="http://httpd.apache.org/">HTTP Server</a> > <a
href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;&nbsp;</a></p>
</div>
```

```
<p class="centered">Apache License<br />
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```

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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

class="section"><h2>Comments</h2><div

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```

href="http://httpd.apache.org/lists.html">mailing lists</a>.</div>
<script type="text/javascript"><!--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
  }
})(window, document);
//><![></script></div><div id="footer">
<p class="apache">Copyright 2015 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[//><!--
if (typeof(prettyPrint) !== 'undefined') {
  prettyPrint();
}
//><![></script>
</body></html>

```

1.47 httpd/rsa-dsi-md4-portions 2.4.16

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```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
```

```
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org">Apache</a> &gt; <a href="http://httpd.apache.org">HTTP Server</a> &gt; <a
href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;&nbsp;</a></p>
</div>

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</div>

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</div>
<div class="bottomlang">
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
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class="section"><h2><a id="comments_section" name="comments_section">Comments</a></h2><div
class="warning"><strong>Notice:</strong><br />This is not a Q&A section. Comments placed here should be
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href="http://httpd.apache.org/lists.html">mailing lists</a></div>
<script type="text/javascript"><!--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
  }
})(window, document);
//--><![></script></div><div id="footer">
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href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[//><!--
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  prettyPrint();
}
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```
/*
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 *
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 */
```


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```
/*
 * NCSA HTTPd Server
 * Software Development Group
 * National Center for Supercomputing Applications
 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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 *
 ****
 *
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```
#  
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# This comes from X11R5 (mit/util/scripts/install.sh).  
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For the test\zb.c component:

/* ZeusBench V1.01

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

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For the expat xml parser component:

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```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
```

This file is generated from xml source: DO NOT EDIT

```
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

X

```
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> &gt; <a href="http://httpd.apache.org/">HTTP Server</a> &gt; <a
href="http://httpd.apache.org/docs/">Documentation</a> &gt; <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
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class="section"><h2>Comments</h2><div


```

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pointed towards suggestions on improving the documentation or server, and may be removed again by our
moderators if they are either implemented or considered invalid/off-topic. Questions on how to manage the Apache
HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a
href="http://httpd.apache.org/lists.html">mailing lists</a>.</div>
<script type="text/javascript"><!--><![CDATA[//><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
  }
})(window, document);
//><![></script></div><div id="footer">
<p class="apache">Copyright 2015 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="/.mod/">Modules</a> | <a href="/.mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/.glossary.html">Glossary</a> | <a
href="/.sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[//><!--
if (typeof(prettyPrint) !== 'undefined') {
  prettyPrint();
}
//><![></script>
</body></html>

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```
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 */
```

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```
/*
*****
* NCSA HTTPd Server
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* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*****
*
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*
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```
#  
# install - install a program, script, or datafile  
# This comes from X11R5 (mit/util/scripts/install.sh).  
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```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

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1.49 httpd/src/lib/apr-util/test/testmd4.c 2.4.16

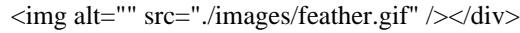
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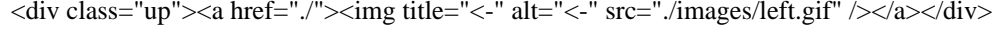
```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
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X
    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
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<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
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<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
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<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
```

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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

class="section"><h2>Comments</h2><div

class="warning">Notice:
This is not a Q&A section. Comments placed here should be pointed towards suggestions on improving the documentation or server, and may be removed again by our

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<script type="text/javascript"><!--><![CDATA[//><!--

var comments_shortcode = 'httpd';

var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() === "httpd.apache.org") {

d.write('<div id="comments_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

```

    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortcode + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
}
else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
}
})(window, document);
!--><![></script></div><div id="footer">
<p class="apache">Copyright 2015 The Apache Software Foundation.<br />Licensed under the <a
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--<!--><![CDATA[<!--<!--
if (typeof(prettyPrint) !== 'undefined') {
    prettyPrint();
}
--><![></script>
</body></html>

```

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*
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```
/*
 * NCSA HTTPd Server
 * Software Development Group
 * National Center for Supercomputing Applications
 * University of Illinois at Urbana-Champaign
 * 605 E. Springfield, Champaign, IL 61820
 * httpd@ncsa.uiuc.edu
 *
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 */
/*
 * md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
 *
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*/

/*

```

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

```

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```

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```

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```

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For the srclib\apr-util\xml\expat\confutils\install-sh component:

```
#  
# install - install a program, script, or datafile  
# This comes from X11R5 (mit/util/scripts/install.sh).  
#  
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#
```

For the test\zb.c component:

```
/*          ZeusBench V1.01
```

```
=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

```
*/
```

For the expat xml parser component:

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```
=====
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet" type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org/">Apache</a> > <a href="http://httpd.apache.org/">HTTP Server</a> > <a href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.4</a></div><div id="page-content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplang">
```

<p>Available Languages: en </p></div>

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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

class="section"><h2>Comments</h2><div

class="warning">Notice:
This is not a Q&A section. Comments placed here should be pointed towards suggestions on improving the documentation or server, and may be removed again by our

moderators if they are either implemented or considered invalid/off-topic. Questions on how to manage the Apache HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our mailing lists.</div>

```
<script type="text/javascript"><!--><![CDATA[//><!--
```

```
var comments_shortname = 'httpd';
```

```
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
```

```
(function(w, d) {
```

```
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
```

```
    d.write('<div id="comments_thread"></div>');
```

```
    var s = d.createElement('script');
```

```
    s.type = 'text/javascript';
```

```
    s.async = true;
```

```
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
```

```
comments_identifier;
```

```
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
```

```
  }
```

```
  else {
```

```
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
```

```
  }
```

```
})(window, document);
```

```
//><![></script></div><div id="footer">
```

```
<p class="apache">Copyright 2015 The Apache Software Foundation.<br />Licensed under the <a
```



```
href="http://www.apache.org/licenses/LICENSE-2.0">Apache License, Version 2.0</a>.</p>
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--><![CDATA[</><!--
if (typeof(prettyPrint) !== 'undefined') {
    prettyPrint();
}
--><![></script>
</body></html>
```

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 */
```

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For the server\util_md5.c component:

```
/*
*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*****
*
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```

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```
#
# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
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For the test\zb.c component:

```
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```

=====
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

*/

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```
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```

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</div>

</div>

<div class="bottomlang">

<p>Available Languages: en </p>

</div><div class="top"></div><div

class="section"><h2>Comments</h2><div

class="warning">Notice:
This is not a Q&A section. Comments placed here should be pointed towards suggestions on improving the documentation or server, and may be removed again by our moderators if they are either implemented or considered invalid/off-topic. Questions on how to manage the Apache HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our mailing lists.</div>

<script type="text/javascript"><!--<!--><![CDATA[</script></script>

var comments_shortcode = 'httpd';

var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';

(function(w, d) {

if (w.location.hostname.toLowerCase() == "httpd.apache.org") {

d.write('<div id="comments_thread"></div>');

var s = d.createElement('script');

s.type = 'text/javascript';

s.async = true;

s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortcode + '&page=' +

comments_identifier;

(d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);

}

else {

d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');

```

}
})(window, document);

```

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```
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```

```

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* -----
*
*/

```

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```
"macmartinized" polygon code copyright 1992 by Eric Haines, erich@eye.com
```

For the server\util_md5.c component:

```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
* Copyright (C) 1995, Board of Trustees of the University of Illinois
*
*****/
*
* md5.c: NCSA HTTPd code which uses the md5c.c RSA Code
*
* Original Code Copyright (C) 1994, Jeff Hostetler, Spyglass, Inc.
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```


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```
*/
```

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```
*/
/*
* The apr_md5_encode() routine uses much code obtained from the FreeBSD 3.0
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* -----
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* <phk@login.dknet.dk> wrote this file. As long as you retain this notice you
* can do whatever you want with this stuff. If we meet some day, and you think
* this stuff is worth it, you can buy me a beer in return. Poul-Henning Kamp
* -----
*/
```

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For the src\lib\apr-util\xml\expat\conf\tools\install-sh component:

```
#  
# install - install a program, script, or datafile  
# This comes from X11R5 (mit/util/scripts/install.sh).  
#  
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#
```

For the test\zb.c component:

```
/*           ZeusBench V1.01  
=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

*/

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1.51 httpd/zeusbench-portions 2.4.16

1.51.1 Available under license :

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
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href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.4</a></div><div id="page-
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<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
</div>

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pointed towards suggestions on improving the documentation or server, and may be removed again by our
moderators if they are either implemented or considered invalid/off-topic. Questions on how to manage the Apache
HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a
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comments_identifier;
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  }
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<p class="apache">Copyright 2015 The Apache Software Foundation.<br />Licensed under the <a
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```
/*  
* mod_mime_magic: MIME type lookup via file magic numbers  
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*
```

```

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For the server\util_md5.c component:

```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu

```

```

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*
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For the src\lib\apr-util\xml\expat\conf\tools\install-sh component:

```
#  
# install - install a program, script, or datafile  
# This comes from X11R5 (mit/util/scripts/install.sh).  
#  
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#
```

For the test\zb.c component:

```
/*          ZeusBench V1.01  
=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

*/

For the expat xml parser component:

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```
=====  
<?xml version="1.0" encoding="ISO-8859-1"?>  
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">  
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>  
<meta content="text/html; charset=ISO-8859-1" http-equiv="Content-Type" />
```

```
<!--
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    This file is generated from xml source: DO NOT EDIT
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
X
    -->
<title>The Apache License, Version 2.0 - Apache HTTP Server Version 2.4</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" /><link rel="stylesheet"
type="text/css" href="/style/css/prettify.css" />
<script src="/style/scripts/prettify.min.js" type="text/javascript">
</script>

<link href="/images/favicon.ico" rel="shortcut icon" /></head>
<body id="manual-page" class="no-sidebar"><div id="page-header">
<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.4</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org">Apache</a> > <a href="http://httpd.apache.org">HTTP Server</a> > <a
href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.4</a></div><div id="page-
content"><div id="preamble"><h1>The Apache License, Version 2.0</h1>
<div class="toplant">
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;&nbsp;</a></p>
</div>

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</div>
<div class="bottomlang">
<p><span>Available Languages: </span><a href="/en/license.html" title="English">&nbsp;en&nbsp;</a></p>
</div><div class="top"><a href="#page-header"></a></div><div
class="section"><h2><a id="comments_section" name="comments_section">Comments</a></h2><div
class="warning"><strong>Notice:</strong><br />This is not a Q&A section. Comments placed here should be
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HTTP Server should be directed at either our IRC channel, #httpd, on Freenode, or sent to our <a
href="http://httpd.apache.org/lists.html">mailing lists</a></div>
<script type="text/javascript"><!--<!--><![CDATA[</><!--
var comments_shortname = 'httpd';
var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write('<div id="comments_thread"></div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
    (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
  }
  else {
    d.write('<div id="comments_thread">Comments are disabled for this page at the moment.</div>');
  }
})(window, document);
--><![></script></div><div id="footer">
<p class="apache">Copyright 2015 The Apache Software Foundation.<br />Licensed under the <a
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<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="http://wiki.apache.org/httpd/FAQ">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a
href="/sitemap.html">Sitemap</a></p></div><script type="text/javascript"><!--<!--><![CDATA[</><!--
if (typeof(prettyPrint) !== 'undefined') {
  prettyPrint();
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*/

```

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For the server\util_md5.c component:

```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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```
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```
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#
```

For the test\zb.c component:

```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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

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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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(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.

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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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.

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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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1.53 javascript-ipv6 3.1.1

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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.

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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.

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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.

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.

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.

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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,

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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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(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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1.59 jxlayer 3.0

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1.60 kernel 2.6.10 :ucs-cmc

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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 \$Revision: 1.1 \$ \$Date: 1999/08/20 11:00:11 \$

*

* 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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*
* M. Welsh, 6 July 1996
*
*
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Index: linux-2.6.10/drivers/mmc/mmc.c

--- linux-2.6.10.orig/drivers/mmc/mmc.c

+++ linux-2.6.10/drivers/mmc/mmc.c

@@ -2,6 +2,8 @@

* linux/drivers/mmc/mmc.c

*

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*

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Index: linux-2.6.10/mvl_patches/pro-0761.c

--- /dev/null

+++ linux-2.6.10/mvl_patches/pro-0761.c

@@ -0,0 +1,16 @@

+/*

+ * Author: MontaVista Software, Inc. <source@mvista.com>

+ *

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+ */

1.61 kernel-linux 2.6.27

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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:

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!

```
/* 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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*/

```

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1.62 libcurl 7.25

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=====

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zlib 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

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MIT Kerberos <http://web.mit.edu/kerberos/www/dist/>

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Heimdal <http://www.pdc.kth.se/heimdal/>

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fbopenssl

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1.63 libcurl 7.43.0

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

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

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1.65 libgcc 1-3.4.3-25.0.135 :0703267

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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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Jan 21, 2002

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1.66 libpcap 1.4.0 :1.20130826git2dbcaa1.el6

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1.67 libpcap 0.9.4-2.0. :0703267

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*
* @(#) $Header: /tcpdump/master/libpcap/pcap.h,v 1.52.2.6 2006/02/09 22:26:49 guy Exp $ (LBL)
*/

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1.68 libposixtime 3.1.1-1.0.3 :0703267

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1.71 libxml2 2.9.2

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1.72 linux 2.6.16.12

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QLogic Linux Fibre Channel HBA Driver

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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.>  
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```

```
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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.
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```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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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.

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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.

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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.)

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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.

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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That's all there is to it!

/* 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 \$Revision: 1.1 \$ \$Date: 1999/08/20 11:00:11 \$
- *
- * 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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*
* M. Welsh, 6 July 1996
*
*
*/

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1.78 Miglayout 3.6

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 *
 * @version 1.0
 * @author Mikael Grev, MiG InfoCom AB
 *   Date: 2006-sep-08
 */
```

1.79 mod_auth_pam 1.1.1

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1.80 mod_security 2.9.0

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1.82 module-init-tools 3.2.2

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NSISdl 1.1 - HTTP downloading plugin for NSIS

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*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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```

```
* Modified by Attaullah Baig (abaig@paypal.com) to wrap/unwrap any  
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1.100 openssl-fips-1.2.3 1.2.3

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1.101 openwbem-3.2.2 3.2.2

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1.102 openwsman-core-1.5.9 1.5.9

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1.105 pango 1.20.1 :1.fc9

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Pango is a library for layout and rendering of text, with an emphasis on internationalization. Pango can be used anywhere that text layout is needed; however, most of the work on Pango so far has been done using the GTK+ widget toolkit as a test platform. Pango forms the core of text and font handling for GTK+-2.x.

Pango is designed to be modular; the core Pango layout can be used with different font backends. There are three basic backends, with multiple options for rendering with each.

- Client side fonts using the FreeType and fontconfig libraries. Rendering can be with with Cairo or Xft libraries, or directly to an in-memory buffer with no additional libraries.
- Native fonts on Microsoft Windows using Uniscribe if available for complex script handling. Rendering can be done via Cairo or directly using the native Win32 API.
- Native fonts on MacOS X, rendering via Cairo.

The integration of Pango with Cairo (<http://cairographics.org>) provides a complete solution with high quality text handling and graphics rendering.

Dynamically loaded modules then handle text layout for particular combinations of script and font backend.

As well as the low level layout rendering routines, Pango includes PangoLayout, a high level driver for laying out entire blocks of text, and routines to assist in editing internationalized text.

For more information about Pango, see:

<http://www.pango.org/>

Dependencies

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Pango depends on the GLib library; more information about GLib can be found at <http://www.gtk.org/>.

When using client side fonts, the fontconfig library (<http://www.fontconfig.org>) to look up fonts. At least version 2.0.9 of the FreeType font handling library (<http://www.freetype.org>) is also required.

Cairo support depends on the Cairo library (<http://cairographics.org>). The Cairo backend is the preferred backend to use Pango with and is subject of most of the development in the future. It has the advantage that the same code can be used for display and printing.

We suggest using Pango with Cairo as described above, but you can also do X-specific rendering using the Xft library. The Xft backend uses version 2 of the Xft library to manage client side fonts. Version 2 of Xft is available from <http://xlibs.freedesktop.org/release/>. You'll need the libXft package, and possibly the libXrender and renderext packages as well. You'll also need fontconfig (see below.)

Installation of Pango on Win32 is possible, but is not documented here. See <http://www.gimp.org/~tml/gimp/win32/downloads.html>

Notes

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- By default, Pango tries to build itself so that no explicit dependency on Xft or FreeType will be introduced in apps that link to Pango. This is to avoid compatibility problems with changes in the Xft or FreeType API's or ABI's. Specifying `--enable-explicit-deps` or `--enable-static` when configuring Pango will defeat this and should be avoided if possible.

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Owen Taylor
otaylor@redhat.com

Behdad Esfahbod
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1.106 pciutils 2.2.5 :6.0.0.0801182

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*/

1.107 pcre 7.9

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THE BASIC LIBRARY FUNCTIONS

Written by: Philip Hazel

Email local part: ph10

Email domain: cam.ac.uk

University of Cambridge Computing Service,
Cambridge, England.

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1.108 perl 5.10.0 :47.fc10

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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

That's all there is to it!

1.109 pppd 2.4.1 :1.0

1.109.1 Available under license :

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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```
/*
```

```
* Database functions
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*
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```

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*/

```
#include <stdlib.h>
#include <stdio.h>
#include <fcntl.h>
#include <unistd.h>
#include <string.h>
#include <fcntl.h>
#include <errno.h>
#include <sys/mman.h>
#include <sys/stat.h>
#include "tdb.h"

#define TDB_VERSION (0x26011967 + 1)
#define TDB_MAGIC (0x26011999U)
#define TDB_FREE_MAGIC (~TDB_MAGIC)
#define TDB_ALIGN 4
#define MIN_REC_SIZE (2*sizeof(struct list_struct) + TDB_ALIGN)
#define DEFAULT_HASH_SIZE 128
#define TDB_PAGE_SIZE 0x2000
#define TDB_LEN_MULTIPLIER 10
#define FREELIST_TOP (sizeof(struct tdb_header))

#define LOCK_SET 1
#define LOCK_CLEAR 0

/* lock offsets */
#define GLOBAL_LOCK 0
#define ACTIVE_LOCK 4
#define LIST_LOCK_BASE 1024

#define BUCKET(hash) ((hash) % tdb->header.hash_size)

#ifndef MAP_FILE
#define MAP_FILE 0
#endif

/* the body of the database is made of one list_struct for the free space
   plus a separate data list for each hash value */
struct list_struct {
    tdb_len rec_len; /* total byte length of record */
    tdb_off next; /* offset of the next record in the list */
    tdb_len key_len; /* byte length of key */
    tdb_len data_len; /* byte length of data */
    unsigned full_hash; /* the full 32 bit hash of the key */
    unsigned magic; /* try to catch errors */
};
```



```

/*
the following union is implied
union {
    char record[rec_len];
    struct {
        char key[key_len];
    }
}
char data[data_len];
*/
};

/* a null data record - useful for error returns */
static TDB_DATA null_data;

/* a byte range locking function - return 0 on success
this functions locks/unlocks 1 byte at the specified offset */
static int tdb_brlck(TDB_CONTEXT *tdb, tdb_off offset,
    int set, int rw_type, int lck_type)
{
#ifdef NOLOCK
return 0;
#else
struct flock fl;

    if (tdb->fd == -1) return 0; /* for in memory tdb */

    if (tdb->read_only) return -1;

    fl.l_type = set==LOCK_SET?rw_type:F_UNLCK;
    fl.l_whence = SEEK_SET;
    fl.l_start = offset;
    fl.l_len = 1;
    fl.l_pid = 0;

    if (fcntl(tdb->fd, lck_type, &fl) != 0) {
#ifdef TDB_DEBUG
        if (lck_type == F_SETLKW) {
            printf("lock %d failed at %d (%s)\n",
                set, offset, strerror(errno));
        }
#endif
        tdb->ecode = TDB_ERR_LOCK;
        return -1;
    }
    return 0;
#endif
}

```

```

/* lock a list in the database. list -1 is the alloc list */
static int tdb_lock(TDB_CONTEXT *tdb, int list)
{
    if (list < -1 || list >= (int)tdb->header.hash_size) {
#ifdef TDB_DEBUG
        printf("bad list %d\n", list);
#endif
        return -1;
    }
    if (tdb->locked[list+1] == 0) {
        if (tdb_brlock(tdb, LIST_LOCK_BASE + 4*list, LOCK_SET,
            F_WRLCK, F_SETLKW) != 0) {
            return -1;
        }
    }
    tdb->locked[list+1]++;
    return 0;
}

/* unlock the database. */
static int tdb_unlock(TDB_CONTEXT *tdb, int list)
{
    if (list < -1 || list >= (int)tdb->header.hash_size) {
#ifdef TDB_DEBUG
        printf("bad unlock list %d\n", list);
#endif
        return -1;
    }

    if (tdb->locked[list+1] == 0) {
#ifdef TDB_DEBUG
        printf("not locked %d\n", list);
#endif
        tdb->ecode = TDB_ERR_LOCK;
        return -1;
    }
    if (tdb->locked[list+1] == 1) {
        if (tdb_brlock(tdb, LIST_LOCK_BASE + 4*list, LOCK_CLEAR,
            F_WRLCK, F_SETLKW) != 0) {
            return -1;
        }
    }
    tdb->locked[list+1]--;
    return 0;
}

/* the hash algorithm - turn a key into an integer

```

```

    This is based on the hash algorithm from gdbm */
static unsigned tdb_hash(TDB_DATA *key)
{
    unsigned value; /* Used to compute the hash value. */
    unsigned i; /* Used to cycle through random values. */

    /* Set the initial value from the key size. */
    value = 0x238F13AF * key->dsiz;
    for (i=0; i < key->dsiz; i++) {
        value = (value + (key->dptr[i] << (i*5 % 24)));
    }

    value = (1103515243 * value + 12345);

    return value;
}

/* find the top of the hash chain for an open database */
static tdb_off tdb_hash_top(TDB_CONTEXT *tdb, unsigned hash)
{
    tdb_off ret;
    hash = BUCKET(hash);
    ret = FREELIST_TOP + (hash+1)*sizeof(tdb_off);
    return ret;
}

/* check for an out of bounds access - if it is out of bounds then
   see if the database has been expanded by someone else and expand
   if necessary */
static int tdb_oob(TDB_CONTEXT *tdb, tdb_off offset)
{
    struct stat st;
    if ((offset <= tdb->map_size) || (tdb->fd == -1)) return 0;

    fstat(tdb->fd, &st);
    if (st.st_size <= (ssize_t)offset) {
        tdb->ecode = TDB_ERR_IO;
        return -1;
    }
}

#ifdef HAVE_MMAP
if (tdb->map_ptr) {
    munmap(tdb->map_ptr, tdb->map_size);
    tdb->map_ptr = NULL;
}
#endif
#endif

```

```

tdb->map_size = st.st_size;
#ifdef HAVE_MMAP
tdb->map_ptr = (void *)mmap(NULL, tdb->map_size,
    tdb->read_only?PROT_READ:PROT_READ|PROT_WRITE,
    MAP_SHARED | MAP_FILE, tdb->fd, 0);
#endif
return 0;
}

/* write a lump of data at a specified offset */
static int tdb_write(TDB_CONTEXT *tdb, tdb_off offset, const char *buf, tdb_len len)
{
    if (tdb_oob(tdb, offset + len) != 0) {
        /* oops - trying to write beyond the end of the database! */
        return -1;
    }

    if (tdb->map_ptr) {
        memcpy(offset + (char *)tdb->map_ptr, buf, len);
    } else {
        if (lseek(tdb->fd, offset, SEEK_SET) != offset ||
            write(tdb->fd, buf, len) != (ssize_t)len) {
            tdb->ecode = TDB_ERR_IO;
            return -1;
        }
    }
    return 0;
}

/* read a lump of data at a specified offset */
static int tdb_read(TDB_CONTEXT *tdb, tdb_off offset, char *buf, tdb_len len)
{
    if (tdb_oob(tdb, offset + len) != 0) {
        /* oops - trying to read beyond the end of the database! */
        return -1;
    }

    if (tdb->map_ptr) {
        memcpy(buf, offset + (char *)tdb->map_ptr, len);
    } else {
        if (lseek(tdb->fd, offset, SEEK_SET) != offset ||
            read(tdb->fd, buf, len) != (ssize_t)len) {
            tdb->ecode = TDB_ERR_IO;
            return -1;
        }
    }
    return 0;
}

```

```

}

/* read a lump of data, allocating the space for it */
static char *tdb_alloc_read(TDB_CONTEXT *tdb, tdb_off offset, tdb_len len)
{
    char *buf;

    buf = (char *)malloc(len);

    if (!buf) {
        tdb->ecode = TDB_ERR_OOM;
        return NULL;
    }

    if (tdb_read(tdb, offset, buf, len) == -1) {
        free(buf);
        return NULL;
    }

    return buf;
}

/* convenience routine for writing a record */
static int rec_write(TDB_CONTEXT *tdb, tdb_off offset, struct list_struct *rec)
{
    return tdb_write(tdb, offset, (char *)rec, sizeof(*rec));
}

/* convenience routine for writing a tdb_off */
static int ofs_write(TDB_CONTEXT *tdb, tdb_off offset, tdb_off *d)
{
    return tdb_write(tdb, offset, (char *)d, sizeof(*d));
}

/* read a tdb_off from the store */
static int ofs_read(TDB_CONTEXT *tdb, tdb_off offset, tdb_off *d)
{
    return tdb_read(tdb, offset, (char *)d, sizeof(*d));
}

/* read a record and check for simple errors */
static int rec_read(TDB_CONTEXT *tdb, tdb_off offset, struct list_struct *rec)
{
    if (tdb_read(tdb, offset, (char *)rec, sizeof(*rec)) == -1) return -1;
    if (rec->magic != TDB_MAGIC) {
#ifdef TDB_DEBUG
        printf("bad magic 0x%08x at offset %d\n",

```

```

        rec->magic, offset);
#endif
    tdb->ecode = TDB_ERR_CORRUPT;
    return -1;
}
if (tdb_oob(tdb, rec->next) != 0) {
    return -1;
}
return 0;
}

/* expand the database at least length bytes by expanding the
   underlying file and doing the mmap again if necessary */
static int tdb_expand(TDB_CONTEXT *tdb, tdb_off length)
{
    struct list_struct rec;
    tdb_off offset, ptr;
    char b = 0;

    tdb_lock(tdb,-1);

    /* make sure we know about any previous expansions by another
       process */
    tdb_oob(tdb,tdb->map_size + 1);

    /* always make room for at least 10 more records */
    length *= TDB_LEN_MULTIPLIER;

    /* and round the database up to a multiple of TDB_PAGE_SIZE */
    length = ((tdb->map_size + length + TDB_PAGE_SIZE) & ~(TDB_PAGE_SIZE - 1)) - tdb->map_size;

    /* expand the file itself */
    if (tdb->fd != -1) {
        lseek(tdb->fd, tdb->map_size + length - 1, SEEK_SET);
        if (write(tdb->fd, &b, 1) != 1) goto fail;
    }

    /* form a new freelist record */
    offset = FREELIST_TOP;
    rec.rec_len = length - sizeof(rec);
    rec.magic = TDB_FREE_MAGIC;
    if (ofs_read(tdb, offset, &rec.next) == -1) {
        goto fail;
    }
}

#if HAVE_MMAP
if (tdb->fd != -1 && tdb->map_ptr) {
    munmap(tdb->map_ptr, tdb->map_size);
}
#endif

```

```

tdb->map_ptr = NULL;
}
#endif

tdb->map_size += length;

if (tdb->fd == -1) {
    tdb->map_ptr = realloc(tdb->map_ptr, tdb->map_size);
}

/* write it out */
if (rec_write(tdb, tdb->map_size - length, &rec) == -1) {
    goto fail;
}

/* link it into the free list */
ptr = tdb->map_size - length;
if (ofs_write(tdb, offset, &ptr) == -1) goto fail;

#if HAVE_MMAP
if (tdb->fd != -1) {
    tdb->map_ptr = (void *)mmap(NULL, tdb->map_size,
        PROT_READ|PROT_WRITE,
        MAP_SHARED | MAP_FILE, tdb->fd, 0);
}
#endif

tdb_unlock(tdb, -1);
return 0;

fail:
tdb_unlock(tdb,-1);
return -1;
}

/* allocate some space from the free list. The offset returned points
to a unconnected list_struct within the database with room for at
least length bytes of total data

0 is returned if the space could not be allocated
*/
static tdb_off tdb_allocate(TDB_CONTEXT *tdb, tdb_len length)
{
    tdb_off offset, rec_ptr, last_ptr;
    struct list_struct rec, lastrec, newrec;

    tdb_lock(tdb, -1);

```

```

again:
last_ptr = 0;
offset = FREELIST_TOP;

/* read in the freelist top */
if (ofs_read(tdb, offset, &rec_ptr) == -1) {
    goto fail;
}

/* keep looking until we find a freelist record that is big
   enough */
while (rec_ptr) {
    if (tdb_read(tdb, rec_ptr, (char *)&rec, sizeof(rec)) == -1) {
        goto fail;
    }

    if (rec.magic != TDB_FREE_MAGIC) {
#ifdef TDB_DEBUG
        printf("bad magic 0x%08x in free list\n", rec.magic);
#endif
        goto fail;
    }

    if (rec.rec_len >= length) {
        /* found it - now possibly split it up */
        if (rec.rec_len > length + MIN_REC_SIZE) {
            length = (length + TDB_ALIGN) & ~(TDB_ALIGN-1);

            newrec.rec_len = rec.rec_len - (sizeof(rec) + length);
            newrec.next = rec.next;
            newrec.magic = TDB_FREE_MAGIC;

            rec.rec_len = length;
            rec.next = rec_ptr + sizeof(rec) + rec.rec_len;

            if (rec_write(tdb, rec.next, &newrec) == -1) {
                goto fail;
            }

            if (rec_write(tdb, rec_ptr, &rec) == -1) {
                goto fail;
            }
        }

        /* remove it from the list */
        if (last_ptr == 0) {
            offset = FREELIST_TOP;

```



```

if (ofs_write(tdb, offset, &rec.next) == -1) {
    goto fail;
}
} else {
    lastrec.next = rec.next;
    if (rec_write(tdb, last_ptr, &lastrec) == -1) {
        goto fail;
    }
}

/* all done - return the new record offset */
tdb_unlock(tdb, -1);
return rec_ptr;
}

/* move to the next record */
lastrec = rec;
last_ptr = rec_ptr;
rec_ptr = rec.next;
}

/* we didn't find enough space. See if we can expand the
   database and if we can then try again */
if (tdb_expand(tdb, length + sizeof(rec)) == 0) goto again;

fail:
#ifdef TDB_DEBUG
    printf("tdb_allocate failed for size %u\n", length);
#endif
tdb_unlock(tdb, -1);
return 0;
}

/* initialise a new database with a specified hash size */
static int tdb_new_database(TDB_CONTEXT *tdb, int hash_size)
{
    struct tdb_header header;
    tdb_off offset;
    int i, size = 0;
    tdb_off buf[16];

    /* create the header */
    memset(&header, 0, sizeof(header));
    memcpy(header.magic_food, TDB_MAGIC_FOOD, strlen(TDB_MAGIC_FOOD)+1);
    header.version = TDB_VERSION;
    header.hash_size = hash_size;
    lseek(tdb->fd, 0, SEEK_SET);
    ftruncate(tdb->fd, 0);

```

```

if (tdb->fd != -1 && write(tdb->fd, &header, sizeof(header)) !=
    sizeof(header)) {
    tdb->ecode = TDB_ERR_IO;
    return -1;
} else size += sizeof(header);

/* the freelist and hash pointers */
offset = 0;
memset(buf, 0, sizeof(buf));

for (i=0;(hash_size+1)-i >= 16; i += 16) {
    if (tdb->fd != -1 && write(tdb->fd, buf, sizeof(buf)) !=
        sizeof(buf)) {
        tdb->ecode = TDB_ERR_IO;
        return -1;
    } else size += sizeof(buf);
}

for (;i<hash_size+1; i++) {
    if (tdb->fd != -1 && write(tdb->fd, buf, sizeof(tdb_off)) !=
        sizeof(tdb_off)) {
        tdb->ecode = TDB_ERR_IO;
        return -1;
    } else size += sizeof(tdb_off);
}

if (tdb->fd == -1) {
    tdb->map_ptr = calloc(size, 1);
    tdb->map_size = size;
    if (tdb->map_ptr == NULL) {
        tdb->ecode = TDB_ERR_IO;
        return -1;
    }
    memcpy(&tdb->header, &header, sizeof(header));
}

#ifdef TDB_DEBUG
printf("initialised database of hash_size %u\n",
    hash_size);
#endif
return 0;
}

/* Returns 0 on fail. On success, return offset of record, and fills
in rec */
static tdb_off tdb_find(TDB_CONTEXT *tdb, TDB_DATA key, unsigned int hash,
    struct list_struct *rec)

```

```

{
tdb_off offset, rec_ptr;

/* find the top of the hash chain */
offset = tdb_hash_top(tdb, hash);

/* read in the hash top */
if (ofs_read(tdb, offset, &rec_ptr) == -1)
return 0;

/* keep looking until we find the right record */
while (rec_ptr) {
if (rec_read(tdb, rec_ptr, rec) == -1)
return 0;

if (hash == rec->full_hash && key.dsize == rec->key_len) {
char *k;
/* a very likely hit - read the key */
k = tdb_alloc_read(tdb, rec_ptr + sizeof(*rec),
rec->key_len);

if (!k)
return 0;

if (memcmp(key.dptr, k, key.dsize) == 0) {
free(k);
return rec_ptr;
}
free(k);
}

/* move to the next record */
rec_ptr = rec->next;
}
return 0;
}

/*
return an error string for the last tdb error
*/
char *tdb_error(TDB_CONTEXT *tdb)
{
int i;
static struct {
enum TDB_ERROR ecode;
char *estring;
} emap[] = {
{TDB_SUCCESS, "Success"},

```

```

    {TDB_ERR_CORRUPT, "Corrupt database"},
    {TDB_ERR_IO, "IO Error"},
    {TDB_ERR_LOCK, "Locking error"},
    {TDB_ERR_OOM, "Out of memory"},
    {TDB_ERR_EXISTS, "Record exists"},
    {-1, NULL}};
    if (tdb != NULL) {
        for (i=0;emap[i].estring;i++) {
    if (tdb->ecode == emap[i].ecode) return emap[i].estring;
        }
    } else {
        return "Invalid tdb context";
    }
    return "Invalid error code";
}

/* update an entry in place - this only works if the new data size
   is <= the old data size and the key exists.
   on failure return -1
*/
int tdb_update(TDB_CONTEXT *tdb, TDB_DATA key, TDB_DATA dbuf)
{
    unsigned hash;
    struct list_struct rec;
    tdb_off rec_ptr;
    int ret = -1;

    info("Enter: tdb_update.");
    if (tdb == NULL) {
#ifdef TDB_DEBUG
        printf("tdb_update() called with null context\n");
#endif
    }
    return -1;
}

/* find which hash bucket it is in */
hash = tdb_hash(&key);

tdb_lock(tdb, BUCKET(hash));
rec_ptr = tdb_find(tdb, key, hash, &rec);

if (!rec_ptr)
    goto out;

/* must be long enough */
if (rec.rec_len < key.dsize + dbuf.dsize)
    goto out;

```

```

if (tdb_write(tdb, rec_ptr + sizeof(rec) + rec.key_len,
             dbuf.dptr, dbuf.dsize) == -1)
    goto out;

if (dbuf.dsize != rec.data_len) {
    /* update size */
    rec.data_len = dbuf.dsize;
    ret = rec_write(tdb, rec_ptr, &rec);
} else
    ret = 0;

out:
tdb_unlock(tdb, BUCKET(hash));
return ret;
}

/* find an entry in the database given a key */
TDB_DATA tdb_fetch(TDB_CONTEXT *tdb, TDB_DATA key)
{
    unsigned hash;
    tdb_off rec_ptr;
    struct list_struct rec;
    TDB_DATA ret = null_data;

    if (tdb == NULL) {
#ifdef TDB_DEBUG
        printf("tdb_fetch() called with null context\n");
#endif
        return null_data;
    }

    /* find which hash bucket it is in */
    hash = tdb_hash(&key);

    tdb_lock(tdb, BUCKET(hash));
    rec_ptr = tdb_find(tdb, key, hash, &rec);

    if (rec_ptr) {
        ret.dptr = tdb_alloc_read(tdb,
                                rec_ptr + sizeof(rec) + rec.key_len,
                                rec.data_len);
        ret.dsize = rec.data_len;
    }

    tdb_unlock(tdb, BUCKET(hash));
    return ret;
}

```

```

/* check if an entry in the database exists

note that 1 is returned if the key is found and 0 is returned if not found
this doesn't match the conventions in the rest of this module, but is
compatible with gdbm
*/
int tdb_exists(TDB_CONTEXT *tdb, TDB_DATA key)
{
    unsigned hash;
    tdb_off rec_ptr;
    struct list_struct rec;

    if (tdb == NULL) {
#ifdef TDB_DEBUG
        printf("tdb_exists() called with null context\n");
#endif
        return 0;
    }

    /* find which hash bucket it is in */
    hash = tdb_hash(&key);

    tdb_lock(tdb, BUCKET(hash));
    rec_ptr = tdb_find(tdb, key, hash, &rec);
    tdb_unlock(tdb, BUCKET(hash));

    return rec_ptr != 0;
}

/* traverse the entire database - calling fn(tdb, key, data) on each element.
return -1 on error or the record count traversed
if fn is NULL then it is not called
a non-zero return value from fn() indicates that the traversal should stop
*/
int tdb_traverse(TDB_CONTEXT *tdb, int (*fn)(TDB_CONTEXT *tdb, TDB_DATA key, TDB_DATA dbuf,
void* state), void* state)
{
    int count = 0;
    unsigned h;
    tdb_off offset, rec_ptr;
    struct list_struct rec;
    char *data;
    TDB_DATA key, dbuf;

    if (tdb == NULL) {
#ifdef TDB_DEBUG
        printf("tdb_traverse() called with null context\n");
#endif

```

```

#endif
    return -1;
}

/* loop over all hash chains */
for (h = 0; h < tdb->header.hash_size; h++) {
    tdb_lock(tdb, BUCKET(h));

    /* read in the hash top */
    offset = tdb_hash_top(tdb, h);
    if (ofs_read(tdb, offset, &rec_ptr) == -1) {
        goto fail;
    }

    /* traverse all records for this hash */
    while (rec_ptr) {
        if (rec_read(tdb, rec_ptr, &rec) == -1) {
            goto fail;
        }

        /* now read the full record */
        data = tdb_alloc_read(tdb, rec_ptr + sizeof(rec),
            rec.key_len + rec.data_len);
        if (!data) {
            goto fail;
        }

        key.dptr = data;
        key.dsize = rec.key_len;
        dbuf.dptr = data + rec.key_len;
        dbuf.dsize = rec.data_len;
        count++;

        if (fn && fn(tdb, key, dbuf, state) != 0) {
            /* they want us to stop traversing */
            free(data);
            tdb_unlock(tdb, BUCKET(h));
            return count;
        }

        /* a miss - drat */
        free(data);

        /* move to the next record */
        rec_ptr = rec.next;
    }
    tdb_unlock(tdb, BUCKET(h));
}

```

```

/* return the number traversed */
return count;

fail:
tdb_unlock(tdb, BUCKET(h));
return -1;
}

/* find the first entry in the database and return its key */
TDB_DATA tdb_firstkey(TDB_CONTEXT *tdb)
{
tdb_off offset, rec_ptr;
struct list_struct rec;
unsigned hash;
TDB_DATA ret;

    if (tdb == NULL) {
#ifdef TDB_DEBUG
        printf("tdb_firstkey() called with null context\n");
#endif
        return null_data;
    }

/* look for a non-empty hash chain */
for (hash = 0, rec_ptr = 0;
    hash < tdb->header.hash_size;
    hash++) {
/* find the top of the hash chain */
offset = tdb_hash_top(tdb, hash);

tdb_lock(tdb, BUCKET(hash));

/* read in the hash top */
if (ofs_read(tdb, offset, &rec_ptr) == -1) {
    goto fail;
}

if (rec_ptr) break;

tdb_unlock(tdb, BUCKET(hash));
}

if (rec_ptr == 0) return null_data;

/* we've found a non-empty chain, now read the record */
if (rec_read(tdb, rec_ptr, &rec) == -1) {

```



```

goto fail;
}

/* allocate and read the key space */
ret.dptr = tdb_alloc_read(tdb, rec_ptr + sizeof(rec), rec.key_len);
ret.dsize = rec.key_len;
tdb_unlock(tdb, BUCKET(hash));
return ret;

fail:
tdb_unlock(tdb, BUCKET(hash));
return null_data;
}

/* find the next entry in the database, returning its key */
TDB_DATA tdb_nextkey(TDB_CONTEXT *tdb, TDB_DATA key)
{
    unsigned hash, hbucket;
    tdb_off rec_ptr, offset;
    struct list_struct rec;
    TDB_DATA ret;

    if (tdb == NULL) {
#ifdef TDB_DEBUG
        printf("tdb_nextkey() called with null context\n");
#endif
        return null_data;
    }

    /* find which hash bucket it is in */
    hash = tdb_hash(&key);
    hbucket = BUCKET(hash);

    tdb_lock(tdb, hbucket);
    rec_ptr = tdb_find(tdb, key, hash, &rec);
    if (rec_ptr) {
        /* we want the next record after this one */
        rec_ptr = rec.next;
    }

    /* not found or last in hash: look for next non-empty hash chain */
    while (rec_ptr == 0) {
        tdb_unlock(tdb, hbucket);

        if (++hbucket >= tdb->header.hash_size - 1)
            return null_data;

        offset = tdb_hash_top(tdb, hbucket);

```

```

tdb_lock(tdb, hbucket);
/* read in the hash top */
if (ofs_read(tdb, offset, &rec_ptr) == -1) {
    tdb_unlock(tdb, hbucket);
    return null_data;
}
}

/* Read the record. */
if (rec_read(tdb, rec_ptr, &rec) == -1) {
    tdb_unlock(tdb, hbucket);
    return null_data;
}
/* allocate and read the key */
ret.dptr = tdb_alloc_read(tdb, rec_ptr + sizeof(rec), rec.key_len);
ret.dsize = rec.key_len;
tdb_unlock(tdb, hbucket);

return ret;
}

/* delete an entry in the database given a key */
int tdb_delete(TDB_CONTEXT *tdb, TDB_DATA key)
{
    unsigned hash;
    tdb_off offset, rec_ptr, last_ptr;
    struct list_struct rec, lastrec;
    char *data = NULL;

    if (tdb == NULL) {
#ifdef TDB_DEBUG
        printf("tdb_delete() called with null context\n");
#endif
        return -1;
    }

    /* find which hash bucket it is in */
    hash = tdb_hash(&key);

    tdb_lock(tdb, BUCKET(hash));

    /* find the top of the hash chain */
    offset = tdb_hash_top(tdb, hash);

    /* read in the hash top */
    if (ofs_read(tdb, offset, &rec_ptr) == -1) {
        goto fail;
    }
}

```

```

last_ptr = 0;

/* keep looking until we find the right record */
while (rec_ptr) {
    if (rec_read(tdb, rec_ptr, &rec) == -1) {
        goto fail;
    }

    if (hash == rec.full_hash && key.dsize == rec.key_len) {
        /* a very likely hit - read the record and full key */
        data = tdb_alloc_read(tdb, rec_ptr + sizeof(rec),
            rec.key_len);
        if (!data) {
            goto fail;
        }

        if (memcmp(key.dptr, data, key.dsize) == 0) {
            /* a definite match - delete it */
            if (last_ptr == 0) {
                offset = tdb_hash_top(tdb, hash);
                if (ofs_write(tdb, offset, &rec.next) == -1) {
                    goto fail;
                }
            } else {
                lastrec.next = rec.next;
                if (rec_write(tdb, last_ptr, &lastrec) == -1) {
                    goto fail;
                }
            }
            tdb_unlock(tdb, BUCKET(hash));
            tdb_lock(tdb, -1);
            /* and recover the space */
            offset = FREELIST_TOP;
            if (ofs_read(tdb, offset, &rec.next) == -1) {
                goto fail2;
            }
            rec.magic = TDB_FREE_MAGIC;
            if (rec_write(tdb, rec_ptr, &rec) == -1) {
                goto fail2;
            }
            if (ofs_write(tdb, offset, &rec_ptr) == -1) {
                goto fail2;
            }
        }

        /* yipee - all done */
        free(data);
        tdb_unlock(tdb, -1);

```

```

    return 0;
}

/* a miss - drat */
free(data);
data = NULL;
}

/* move to the next record */
last_ptr = rec_ptr;
lastrec = rec;
rec_ptr = rec.next;
}

fail:
if (data) free(data);
tdb_unlock(tdb, BUCKET(hash));
return -1;

fail2:
if (data) free(data);
tdb_unlock(tdb, -1);
return -1;
}

/* store an element in the database, replacing any existing element
with the same key

return 0 on success, -1 on failure
*/
int tdb_store(TDB_CONTEXT *tdb, TDB_DATA key, TDB_DATA dbuf, int flag)
{
    struct list_struct rec;
    unsigned hash;
    tdb_off rec_ptr, offset;
    char *p = NULL;

    info("Enter: tdb_store.");
    if (tdb == NULL) {
#ifdef TDB_DEBUG
        printf("tdb_store() called with null context\n");
#endif
        return -1;
    }

    /* find which hash bucket it is in */
    hash = tdb_hash(&key);

```

```

/* check for it existing */
if (flag == TDB_INSERT && tdb_exists(tdb, key)) {
    tdb->ecode = TDB_ERR_EXISTS;
    return -1;
}

info("tdb_store: calling tdb_update.");
/* first try in-place update */
if (flag != TDB_INSERT && tdb_update(tdb, key, dbuf) == 0) {
    return 0;
}

rec_ptr = tdb_allocate(tdb, key.dsize + dbuf.dsize);
if (rec_ptr == 0) {
    return -1;
}

tdb_lock(tdb, BUCKET(hash));

/* delete any existing record - if it doesn't exist we don't care */
if (flag != TDB_INSERT) {
    tdb_delete(tdb, key);
}

/* read the newly created record */
if (tdb_read(tdb, rec_ptr, (char *)&rec, sizeof(rec)) == -1) {
    goto fail;
}

if (rec.magic != TDB_FREE_MAGIC) goto fail;

/* find the top of the hash chain */
offset = tdb_hash_top(tdb, hash);

/* read in the hash top directly into our next pointer */
if (ofs_read(tdb, offset, &rec.next) == -1) {
    goto fail;
}

rec.key_len = key.dsize;
rec.data_len = dbuf.dsize;
rec.full_hash = hash;
rec.magic = TDB_MAGIC;

p = (char *)malloc(sizeof(rec) + key.dsize + dbuf.dsize);
if (!p) {
    tdb->ecode = TDB_ERR_OOM;
}

```

```

goto fail;
}

memcpy(p, &rec, sizeof(rec));
memcpy(p+sizeof(rec), key.dptr, key.dsize);
memcpy(p+sizeof(rec)+key.dsize, dbuf.dptr, dbuf.dsize);

if (tdb_write(tdb, rec_ptr, p, sizeof(rec)+key.dsize+dbuf.dsize) == -1)
goto fail;

free(p);
p = NULL;

/* and point the top of the hash chain at it */
if (ofs_write(tdb, offset, &rec_ptr) == -1) goto fail;

tdb_unlock(tdb, BUCKET(hash));
return 0;

fail:
#ifdef TDB_DEBUG
printf("store failed for hash 0x%08x in bucket %u\n", hash, BUCKET(hash));
#endif
if (p) free(p);
tdb_unlock(tdb, BUCKET(hash));
return -1;
}

/* open the database, creating it if necessary

```

The open_flags and mode are passed straight to the open call on the database file. A flags value of O_WRONLY is invalid

The hash size is advisory, use zero for a default value.

return is NULL on error

```

*/
TDB_CONTEXT *tdb_open(char *name, int hash_size, int tdb_flags,
    int open_flags, mode_t mode)
{
TDB_CONTEXT tdb, *ret;
struct stat st;

memset(&tdb, 0, sizeof(tdb));

tdb.fd = -1;
tdb.name = NULL;

```

```

tdb.map_ptr = NULL;

if ((open_flags & O_ACCMODE) == O_WRONLY) {
    goto fail;
}

if (hash_size == 0) hash_size = DEFAULT_HASH_SIZE;

tdb.read_only = ((open_flags & O_ACCMODE) == O_RDONLY);

    if (name != NULL) {
        tdb.fd = open(name, open_flags, mode);
        if (tdb.fd == -1) {
goto fail;
        }
    }

/* ensure there is only one process initialising at once */
tdb_brlock(&tdb, GLOBAL_LOCK, LOCK_SET, F_WRLCK, F_SETLKW);

if (tdb_flags & TDB_CLEAR_IF_FIRST) {
    /* we need to zero the database if we are the only
       one with it open */
    if (tdb_brlock(&tdb, ACTIVE_LOCK, LOCK_SET, F_WRLCK, F_SETLK) == 0) {
        ftruncate(tdb.fd, 0);
        tdb_brlock(&tdb, ACTIVE_LOCK, LOCK_CLEAR, F_WRLCK, F_SETLK);
    }
}

/* leave this lock in place */
tdb_brlock(&tdb, ACTIVE_LOCK, LOCK_SET, F_RDLCK, F_SETLKW);

if (read(tdb.fd, &tdb.header, sizeof(tdb.header)) != sizeof(tdb.header) ||
    strcmp(tdb.header.magic_food, TDB_MAGIC_FOOD) != 0 ||
    tdb.header.version != TDB_VERSION) {
    /* its not a valid database - possibly initialise it */
    if (!(open_flags & O_CREAT)) {
        goto fail;
    }
    if (tdb_new_database(&tdb, hash_size) == -1) goto fail;

    lseek(tdb.fd, 0, SEEK_SET);
    if (tdb.fd != -1 && read(tdb.fd, &tdb.header,
        sizeof(tdb.header)) !=
        sizeof(tdb.header))
        goto fail;
}

```

```

if (tdb.fd != -1) {
    fstat(tdb.fd, &st);

    /* map the database and fill in the return structure */
    tdb.name = (char *)strdup(name);
    tdb.map_size = st.st_size;
}

tdb.locked = (int *)calloc(tdb.header.hash_size+1,
                           sizeof(tdb.locked[0]));
if (!tdb.locked) {
    goto fail;
}

#if HAVE_MMAP
if (tdb.fd != -1) {
    tdb.map_ptr = (void *)mmap(NULL, st.st_size,
                               tdb.read_only? PROT_READ : PROT_READ|PROT_WRITE,
                               MAP_SHARED | MAP_FILE, tdb.fd, 0);
}
#endif

ret = (TDB_CONTEXT *)malloc(sizeof(tdb));
if (!ret) goto fail;

*ret = tdb;

#if TDB_DEBUG
printf("mapped database of hash_size %u map_size=%u\n",
       hash_size, tdb.map_size);
#endif

tdb_brlock(&tdb, GLOBAL_LOCK, LOCK_CLEAR, F_WRLCK, F_SETLKW);
return ret;

fail:
    if (tdb.name) free(tdb.name);
    if (tdb.fd != -1) close(tdb.fd);
    if (tdb.map_ptr) munmap(tdb.map_ptr, tdb.map_size);

return NULL;
}

/* close a database */
int tdb_close(TDB_CONTEXT *tdb)
{
    if (!tdb) return -1;

```



```

if (tdb->name) free(tdb->name);
if (tdb->fd != -1) close(tdb->fd);
if (tdb->locked) free(tdb->locked);

if (tdb->map_ptr) {
    if (tdb->fd != -1) {
        munmap(tdb->map_ptr, tdb->map_size);
    } else {
        free(tdb->map_ptr);
    }
}

memset(tdb, 0, sizeof(*tdb));
free(tdb);

return 0;
}

/* lock the database. If we already have it locked then don't do anything */
int tdb_writelock(TDB_CONTEXT *tdb)
{
    if (tdb == NULL) {
#ifdef TDB_DEBUG
        printf("tdb_writelock() called with null context\n");
#endif
        return -1;
    }

    return tdb_lock(tdb, -1);
}

/* unlock the database. */
int tdb_writeunlock(TDB_CONTEXT *tdb)
{
    if (tdb == NULL) {
#ifdef TDB_DEBUG
        printf("tdb_writeunlock() called with null context\n");
#endif
        return -1;
    }

    return tdb_unlock(tdb, -1);
}

/* lock one hash chain. This is meant to be used to reduce locking
contention - it cannot guarantee how many records will be locked */
int tdb_lockchain(TDB_CONTEXT *tdb, TDB_DATA key)
{

```

```

        if (tdb == NULL) {
#ifdef TDB_DEBUG
            printf("tdb_lockchain() called with null context\n");
#endif
            return -1;
        }

return tdb_lock(tdb, BUCKET(tdb_hash(&key)));
}

/* unlock one hash chain */
int tdb_unlockchain(TDB_CONTEXT *tdb, TDB_DATA key)
{
    if (tdb == NULL) {
#ifdef TDB_DEBUG
        printf("tdb_unlockchain() called with null context\n");
#endif
        return -1;
    }

return tdb_unlock(tdb, BUCKET(tdb_hash(&key)));
}
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.0.4, Jul 24th, 1996.

```

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Jean-loup Gailly Mark Adler
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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 ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/

/* From: if_pppvar.h,v 1.2 1995/06/12 11:36:51 paulus Exp */

/*

* if_pppvar.h - private structures and declarations for PPP.

*

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*/

/*

* Definitions for tcp compression routines.

*
 * \$Id: slcompress.h,v 1.4 1994/09/21 06:50:08 paulus Exp \$
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 *
 * Van Jacobson (van@helios.ee.lbl.gov), Dec 31, 1989:
 * - Initial distribution.
 */
 /*
 * ppp_ahdlc.c - STREAMS module for doing PPP asynchronous HDLC.
 *
 * Re-written by Adi Masputra <adi.masputra@sun.com>, based on
 * the original ppp_ahdlc.c
 *
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* \$Id: ppp_ahdlc.c,v 1.16 2000/03/06 19:38:12 masputra Exp \$
*/
/*
* passprompt.c - pppd plugin to invoke an external PAP password prompter
*
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*/
/*
* chap.c - Challenge Handshake Authentication Protocol.
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/*

* chap_ms.c - Microsoft MS-CHAP compatible implementation.

*

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/*

eui64.c - EUI64 routines for IPv6CP.

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\$Id: eui64.c,v 1.5 2000/08/05 06:46:47 paulus Exp \$

*/

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1.113 ptpd v1rc1

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1.114 python 2.7.6

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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.

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1.6	1.5.2	2000	CNRI	no
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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

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1.115 python 2.7.8

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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
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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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1.118 readline-libs 4.3-2.0.1 :0703267

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```

```
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1.119 rpm 4.3.3-6.0.4 :0703267

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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```
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source common.tcl
header {SQLite Copyright}
puts {
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```

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```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.121 Rsyslog 3.17.5

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1.124 sblim-sfcb-1.3.3 1.3.3

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1.125 sblim-sfcc-2.0.2 2.0.2

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1.126 setmixer 27DEC94ds1

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The program and its manual page are released under terms of GPL.

Enjoy,
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michal@ellpspace.math.ualberta.ca
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```

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```

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1.127 sox 14.0.1

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```

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/*

* \$Id: Star2D.java,v 1.3 2009/02/01 20:35:49 rah003 Exp \$

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1.131 Sysstat 8.1.2

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<one line to give the program'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.

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```
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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 parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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1.132 tcp-wrappers 7.6-7.0.1 :0703267

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Charset: noconv

iQCVAwUBOxo3X9yA8qbVMny5AQHT8wP9FZOtWxEM4SMj4Sj9QezMERz31n5fd0pC
 jUDnyzmosOudM/iFlv6YfyR820aNvNNI+AdtgWYRPVHocVNOOrZcmu7IADO8hIU//
 v8BeBE0bdjeVmOQYRQfXgt3J2q0b8x8Q5a/LCLVLh8k6DFGg8AfEbLDQWhi1JiXC
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1.133 tftp-hpa 5.2

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1.137 tslib 1.0 :1

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/* <filename>.c

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*

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/* Skeleton implementation for Bison's Yacc-like parsers in C

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1.145 wireshark/tools/pidl 1.10.1

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*

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* This is the file system front-end to YAFFS that hooks it up to

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*

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* devextras.h

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1.149 yui 2.6.0

1.149.1 Available under license :

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- * Graded Browser Support
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- * YUI Roadmap
- * YUI Components
- * Animation
- * AutoComplete
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- * Calendar
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- * DataTable
- * Dom
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- * Resize
- * Rich Text Editor
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- * TreeView
- * Uploader (experimental)
- * Yahoo Global Object
- * YUI Loader
- * YUI Test
- * Reset CSS
- * Base CSS
- * Fonts CSS
- * Grids CSS
- * YUI Tools
- * YUI Compressor
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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

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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*/

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 <==
```

```
/**
```

```
* Code Syntax Highlighter.
```

```
* Version 1.3.0
```

```
* Copyright (C) 2004 Alex Gorbachev.
```

```
* http://www.dreamprojections.com/syntaxhighlighter/
```

```
*
```

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```
==> yui-2.6.0/yui/examples/treeview/assets/js/dpSyntaxHighlighter.js <==
```

```
/**
```

```
* Code Syntax Highlighter.
```

```
* Version 1.2.0
```

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type 'show w'.  
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under certain conditions; type 'show c' for details.
```

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Version 3, 29 June 2007

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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,

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<signature of Ty Coon>, 1 April 1990
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1.151 Zlib 1.2.3

1.151.1 Available under license :

ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.3 is a general purpose data compression library. All the code is thread safe. 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](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format). These documents are also available in other formats from <ftp://ftp.uu.net/graphics/png/documents/zlib/zdoc-index.html>

All functions of the compression library are documented in the file `zlib.h` (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file `example.c` which also tests that the library is working correctly. Another example is given in the file `minigzip.c`. The compression library itself is composed of all source files except `example.c` and `minigzip.c`.

To compile all files and run the test program, follow the instructions given at the top of `Makefile`. In short "make test; make install" should work for most machines. For Unix: `./configure; make test; make install`. For MSDOS, use one of the special makefiles such as `Makefile.msc`. For VMS, use `make_vms.com`.

Questions about zlib should be sent to [<zlib@gzip.org>](mailto:zlib@gzip.org), or to Gilles Vollant [<info@winimage.com>](mailto:info@winimage.com) for the Windows DLL version. The zlib home page is <http://www.zlib.org> or <http://www.gzip.org/zlib/> Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://www.gzip.org/zlib/zlib_faq.html before asking for help.

Mark Nelson [<markn@ieee.org>](mailto:markn@ieee.org) wrote an article about zlib for the Jan. 1997 issue of Dr. Dobbs's Journal; a copy of the article is available in <http://dogma.net/markn/articles/zlibtool/zlibtool.htm>

The changes made in version 1.2.3 are documented in the file `ChangeLog`.

Unsupported third party contributions are provided in directory "contrib".

A Java implementation of zlib is available in the Java Development Kit <http://java.sun.com/j2se/1.4.2/docs/api/java/util/zip/package-summary.html>
See the zlib home page <http://www.zlib.org> for details.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is in the CPAN (Comprehensive Perl Archive Network) sites
<http://www.cpan.org/modules/by-module/Compress/>

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see
<http://www.python.org/doc/lib/module-zlib.html>

A zlib binding for TCL written by Andreas Kupries <a.kupries@westend.com> is available at http://www.oche.de/~akupries/soft/trf/trf_zip.html

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt
- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.
- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.
- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.
- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.
- gzdopen is not supported on RISCOS, BEOS and by some Mac compilers.
- For PalmOs, see <http://palmzlib.sourceforge.net/>
- When building a shared, i.e. dynamic library on Mac OS X, the library must be installed before testing (do "make install" before "make test"), since the library location is specified in the library.

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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If you use the zlib library in a product, we would appreciate *not* receiving lengthy legal documents to sign. The sources are provided for free but without warranty of any kind. The library has been entirely written by Jean-loup Gailly and Mark Adler; it does not include third-party code.

If you redistribute modified sources, we would appreciate that you include in the file ChangeLog history information documenting your changes. Please read the FAQ for more information on the distribution of modified source versions.

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1.152 zlib 1.2.1.1-2.0.2 :0703267

1.152.1 Available under license :

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.1.1, January 9th, 2004

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