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1.3 libpsl 0.19.1-5build1

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Upstream-Name: libpsl

Source: <https://github.com/rockdaboot/libpsl>

Files: *

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Files: debian/*

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Files: src/psl-make-dafsa src/lookup_string_in_fixed_set.c

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1.4 lz4 0.0~r131 2ubuntu3

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Upstream-Name: liblz4

Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

Files: *

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1.5 x-crypto v0.0.0-20161028155119-f51c12702a4d

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1.6 rtmpdump 2.4+20151223.gitfa8646d.1 1

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1.7 sarama v1.24.1

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1.8 zlib 1.2.11

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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License Mixing

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

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

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

libcurl

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

OpenSSL

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

GnuTLS

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

WolfSSL

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BoringSSL

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

libressl

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c-ares

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

zlib

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

MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

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OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

1.10 udev 237 3ubuntu10.13

1.10.1 Available under license :

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1.12 libksba 1.3.5-2

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1.15 jsonpb 3.2.17+dfsg-1

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1.16 govnomi v0.20.3

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```

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*/

package license

```
import (  
    "context"  
  
    "github.com/vmware/govmomi/object"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/types"  
)  
  
type AssignmentManager struct {  
    object.Common  
}  
  
func (m AssignmentManager) QueryAssigned(ctx context.Context, id string)  
([]types.LicenseAssignmentManagerLicenseAssignment, error) {  
    req := types.QueryAssignedLicenses{  
        This:    m.Reference(),  
        EntityId: id,  
    }  
  
    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)  
    if err != nil {  
        return nil, err  
    }  
  
    return res.Returnval, nil  
}  
  
func (m AssignmentManager) Remove(ctx context.Context, id string) error {  
    req := types.RemoveAssignedLicense{  
        This:    m.Reference(),  
        EntityId: id,  
    }  
  
    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)  
  
    return err  
}
```

```

}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string)
(*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:      m.Reference(),
        Entity:    id,
        LicenseKey: key,
        EntityDisplayName: name,
    }

    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return &res.Returnval, nil
}
/*

```

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*/

```
package license
```

```

import (
    "context"
    "strconv"
    "strings"

    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/types"
)

```

```

type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }

    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:    m.Reference(),
        LicenseKey: key,
        Labels:  mapToKeyValueSlice(labels),
    }

    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{ }, err
    }

    return res.Returnval, nil
}

func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This:    m.Reference(),
        LicenseKey: key,
    }

    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{ }, err
    }

    return res.Returnval, nil
}

```

```

}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This:    m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string)
(types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This:    m.Reference(),
        LicenseKey: key,
        Labels:  mapToKeyValueSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{ }, err
    }

    return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }

    return InfoList(mlm.Licenses), nil
}

func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }

    if mlm.LicenseAssignmentManager == nil {

```



```

return nil, object.ErrNotSupported
}

am := AssignmentManager{
    object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
}

return &am, nil
}

type licenseFeature struct {
    name string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)

    f := strings.Split(feature, ":")

    lf.name = f[0]

    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }

    return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
    feature := parseLicenseFeature(key)

    for _, p := range license.Properties {
        if p.Key != "feature" {
            continue
        }

        kv, ok := p.Value.(types.KeyValue)

        if !ok {
            continue
        }

        lf := parseLicenseFeature(kv.Key)

```

```

if lf.name == feature.name && lf.level >= feature.level {
    return true
}
}

return false
}

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
}

```

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*/

```

package simulator

import (
    "context"
    "reflect"
    "testing"

    "github.com/vmware/govmomi"
    "github.com/vmware/govmomi/find"
    "github.com/vmware/govmomi/license"
)

func TestLicenseManagerVPX(t *testing.T) {
    ctx := context.Background()
    m := VPX()

    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    am, err := lm.AssignmentManager(ctx)
    if err != nil {
        t.Fatal(err)
    }

    la, err := am.QueryAssigned(ctx, "enoent")
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 0 {
        t.Errorf("unexpected license")
    }

    finder := find.NewFinder(c.Client, false)

```



```

hosts, err := finder.HostSystemList(ctx, "/...")
if err != nil {
    t.Fatal(err)
}

host := hosts[0].Reference().Value
vcid := c.Client.ServiceContent.About.InstanceUuid

for _, name := range []string{"", host, vcid} {
    la, err = am.QueryAssigned(ctx, name)
    if err != nil {
        t.Fatal(err)
    }

    if len(la) != 1 {
        t.Fatal("no licenses")
    }

    if !reflect.DeepEqual(la[0].AssignedLicense, EvalLicense) {
        t.Fatal("invalid license")
    }
}

func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
    m := ESX()

    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    _, err = lm.AssignmentManager(ctx)
    if err == nil {
        t.Fatal("expected error")
    }
}

```

```

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0], EvalLicense) {
    t.Fatal("invalid license")
}
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
    m := ESX()

    defer m.Remove()

    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }

    s := m.Service.NewServer()
    defer s.Close()

    c, err := govmmomi.NewClient(ctx, s.URL, true)
    if err != nil {
        t.Fatal(err)
    }

    lm := license.NewManager(c.Client)
    key := "00000-00000-00000-00000-11111"
    labels := map[string]string{"key": "value"}

    info, err := lm.Add(ctx, key, labels)
    if err != nil {
        t.Fatal(err)
    }

    if info.LicenseKey != key {
        t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
    }

    if len(info.Labels) != len(labels) {

```

```

t.Fatalf("expect len(info.Labels) equal to %d; got %d",
len(labels), len(info.Labels))
}

if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
t.Fatalf("expect label to be {key:value}; got {%s:%s}",
info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
t.Fatal(err)
}

if len(la) != 2 {
t.Fatal("no licenses")
}

if la[1].LicenseKey != key {
t.Fatalf("expect info.LicenseKey equal to %q; got %q",
key, la[1].LicenseKey)
}

if len(la[1].Labels) != len(labels) {
t.Fatalf("expect len(info.Labels) equal to %d; got %d",
len(labels), len(la[1].Labels))
}

if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
t.Fatalf("expect label to be {key:value}; got {%s:%s}",
la[1].Labels[0].Key, la[1].Labels[0].Value)
}

err = lm.Remove(ctx, key)
if err != nil {
t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
t.Fatal(err)
}

if len(la) != 1 {
t.Fatal("no licenses")
}
}

```

```

#!/usr/bin/env bats

load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
  if [ "$(govc license.ls -json | jq -r .[0].EditionKey)" != "eval" ]; then
    skip "requires evaluation license"
  fi
}

get_key() {
  jq ".[] | select(.LicenseKey == \"\$1\")"
}

get_property() {
  jq -r ".Properties[] | select(.Key == \"\$1\") | .Value"
}

get_label() {
  govc license.ls -json | jq -r ".[] | select(.LicenseKey == \"\$1\") | .Labels[] | select(.Key == \"\$2\") | .Value"
}

get_nlabel() {
  govc license.ls -json | jq ".[] | select(.LicenseKey == \"\$1\") | .Labels[].Key" | wc -l
}

@test "license.add" {
  esx_env

  verify_evaluation

  run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
  assert_success

  # Expect to see an entry for both the first and the second key
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00001 <<<${output} |
get_property diagnostic)"
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00002 <<<${output} |
get_property diagnostic)"
}

@test "license.remove" {
  esx_env

  verify_evaluation

  run govc license.remove -json 00000-00000-00000-00000-00001

```

```

assert_success
}

@test "license.ls" {
vcsim_env

verify_evaluation

run govc license.ls -json
assert_success

# Expect the test instance to run in evaluation mode
assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000 <<<<$output | jq -r ".Name")"
}

@test "license.decode" {
esx_env

verify_evaluation

key=00000-00000-00000-00000-00000
assert_equal "eval" "$(govc license.decode $key | grep $key | awk '{print $2}')"
}

@test "license.label.set" {
vcsim_env

key=00000-00000-00000-00000-00000

assert_equal 0 "$(get_nlabel $key)"
assert_equal "" "$(get_label $key foo)"

run govc license.label.set $key foo bar
assert_success

assert_equal 1 "$(get_nlabel $key)"
assert_equal bar "$(get_label $key foo)"

run govc license.label.set $key biz baz
assert_success
run govc license.label.set $key foo bar2
assert_success

assert_equal 2 "$(get_nlabel $key)"
assert_equal bar2 "$(get_label $key foo)"

run govc license.label.set $key foo ""
assert_success

```

```
assert_equal 1 "$(get_nlabel $key)"
assert_equal "" "$(get_label $key foo)"
}
/*
```

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```
*/
```

```
package license
```

```
import (
    "context"
    "flag"
    "fmt"
    "io"
    "os"
    "text/tabwriter"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type assigned struct {
    *flags.ClientFlag
    *flags.OutputFlag

    id string
}

func init() {
    cli.Register("license.assigned.ls", &assigned{ })
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
```

```

cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
cmd.ClientFlag.Register(ctx, f)

cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
cmd.OutputFlag.Register(ctx, f)

f.StringVar(&cmd.id, "id", "", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
if err := cmd.ClientFlag.Process(ctx); err != nil {
return err
}
if err := cmd.OutputFlag.Process(ctx); err != nil {
return err
}
return nil
}

func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
client, err := cmd.Client()
if err != nil {
return err
}

m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
return err
}

assigned, err := m.QueryAssigned(ctx, cmd.id)
if err != nil {
return err
}

return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
fmt.Fprintf(tw, "Id:\tScope:\tName:\tLicense:\n")
for _, v := range res {
fmt.Fprintf(tw, "%s\t", v.EntityId)
fmt.Fprintf(tw, "%s\t", v.Scope)
fmt.Fprintf(tw, "%s\t", v.EntityDisplayName)
fmt.Fprintf(tw, "%s\t", v.AssignedLicense.LicenseKey)
}
}

```

```
    fmt.Fprintf(tw, "\n")
}
return tw.Flush()
}
/*
```

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```
*/
```

```
package license
```

```
import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

type remove struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.remove", &remove{ })
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}
```



```

func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *remove) Usage() string {
    return "KEY..."
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }

    return nil
}
/*

```

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//

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```

```
package simulator
```

```
import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:      "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
}
```

```

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{}
    m.Self = ref
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }

    return body
}

```

```

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{}

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }

        body.Res = new(types.UpdateLicenseLabelResponse)

        for j := range license.Labels {
            label := &license.Labels[j]

            if label.Key == req.LabelKey {
                if req.LabelValue == "" {
                    license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                } else {
                    label.Value = req.LabelValue
                }
                return body
            }
        }

        license.Labels = append(license.Labels, types.KeyValue{
            Key: req.LabelKey,
            Value: req.LabelValue,
        })

        return body
    }

    body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
    return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault
{
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }
}

```

```

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
if req.EntityId != Map.content().About.InstanceUuid {
id := types.ManagedObjectReference{
Type: "HostSystem",
Value: req.EntityId,
}

if Map.Get(id) == nil {
return body
}
}
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
{
EntityId: req.EntityId,
AssignedLicense: EvalLicense,
},
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
info := EvalLicense

info.LicenseKey = key
info.Labels = labels

return info
}

```

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*/

package license

```
import (
```

```
    "context"
```

```
    "flag"
```

```
    "github.com/vmware/govmomi/govc/cli"
```

```
    "github.com/vmware/govmomi/govc/flags"
```

```
    "github.com/vmware/govmomi/license"
```

```
)
```

```
var featureUsage = "List licenses with given feature"
```

```
type ls struct {
```

```
    *flags.ClientFlag
```

```
    *flags.OutputFlag
```

```
    feature string
```

```
}
```

```
func init() {
```

```

cli.Register("license.ls", &ls{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
cmd.ClientFlag.Register(ctx, f)

cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
cmd.OutputFlag.Register(ctx, f)

f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
if err := cmd.ClientFlag.Process(ctx); err != nil {
return err
}
if err := cmd.OutputFlag.Process(ctx); err != nil {
return err
}
return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
client, err := cmd.Client()
if err != nil {
return err
}

m := license.NewManager(client)
result, err := m.List(ctx)
if err != nil {
return err
}

if cmd.feature != "" {
result = result.WithFeature(cmd.feature)
}

return cmd.WriteResult(licenseOutput(result))
}
/*

```

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*/

package license

```
import (  
    "context"  
    "flag"  
  
    "github.com/vmware/govmomi/govc/cli"  
    "github.com/vmware/govmomi/govc/flags"  
    "github.com/vmware/govmomi/license"  
    "github.com/vmware/govmomi/vim25/types"  
)  
  
type assign struct {  
    *flags.ClientFlag  
    *flags.OutputFlag  
    *flags.HostSystemFlag  
    *flags.ClusterFlag  
  
    name string  
    remove bool  
}  
  
func init() {  
    cli.Register("license.assign", &assign{ })  
}  
  
func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {  
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)  
    cmd.ClientFlag.Register(ctx, f)  
  
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)  
    cmd.OutputFlag.Register(ctx, f)  
  
    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)  
    cmd.HostSystemFlag.Register(ctx, f)  
  
    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)  
    cmd.ClusterFlag.Register(ctx, f)
```



```
f.StringVar(&cmd.name, "name", "", "Display name")
f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}
```

```
func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}
```

```
func (cmd *assign) Usage() string {
    return "KEY"
}
```

```
func (cmd *assign) Description() string {
    return `Assign licenses to HOST or CLUSTER.`
}
```

Examples:

```
govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY`
}
```

```
func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
}
```

```
key := f.Arg(0)
```

```
client, err := cmd.Client()
if err != nil {
    return err
}
```

```
m, err := license.NewManager(client).AssignmentManager(ctx)
if err != nil {
    return err
}
```

```
host, err := cmd.HostSystemIfSpecified()
```

```

if err != nil {
    return err
}

var id string

if host == nil {
    cluster, cerr := cmd.ClusterIfSpecified()
    if cerr != nil {
        return cerr
    }
    if cluster == nil {
        // Default to vCenter UUID
        id = client.ServiceContent.About.InstanceUuid
    } else {
        id = cluster.Reference().Value
    }
} else {
    id = host.Reference().Value
}

if cmd.remove {
    return m.Remove(ctx, id)
}

info, err := m.Update(ctx, id, key, cmd.name)
if err != nil {
    return err
}

return cmd.WriteResult(licenseOutput([]types.LicenseManagerLicenseInfo{*info}))
}

```

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*/

package license

```
import (  
    "context"  
    "flag"  
    "fmt"  
  
    "github.com/vmware/govmomi/govc/cli"  
    "github.com/vmware/govmomi/govc/flags"  
    "github.com/vmware/govmomi/license"  
    "github.com/vmware/govmomi/vim25/types"  
)  
  
type add struct {  
    *flags.ClientFlag  
    *flags.OutputFlag  
}  
  
func init() {  
    cli.Register("license.add", &add{ })  
}  
  
func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {  
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)  
    cmd.ClientFlag.Register(ctx, f)  
  
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)  
    cmd.OutputFlag.Register(ctx, f)  
}  
  
func (cmd *add) Process(ctx context.Context) error {  
    if err := cmd.ClientFlag.Process(ctx); err != nil {  
        return err  
    }  
    if err := cmd.OutputFlag.Process(ctx); err != nil {  
        return err  
    }  
    return nil  
}
```

```

}

func (cmd *add) Usage() string {
    return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    // From the vSphere 5.5 documentation:
    //
    // To specify the edition type and any optional functions, use
    // updateLicense for ESX Server and addLicense follow by
    // LicenseAssingmentManager.updateAssignedLicense for VirtualCenter.
    //
    var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo,
    error)
    switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
        addFunc = m.Update
    case "VirtualCenter":
        addFunc = m.Add
    default:
        return fmt.Errorf("unsupported ApiType: %s", t)
    }

    result := make(licenseOutput, 0)
    for _, v := range f.Args() {
        license, err := addFunc(ctx, v, nil)
        if err != nil {
            return err
        }

        result = append(result, license)
    }

    return cmd.WriteResult(licenseOutput(result))
}

```

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```
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```

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```
*/
```

```
package license
```

```
import (
```

```
    "context"
```

```
    "flag"
```

```
    "github.com/vmware/govmomi/govc/cli"
```

```
    "github.com/vmware/govmomi/govc/flags"
```

```
    "github.com/vmware/govmomi/license"
```

```
)
```

```
type decode struct {
```

```
    *flags.ClientFlag
```

```
    *flags.OutputFlag
```

```
    feature string
```

```
}
```

```
func init() {
```

```
    cli.Register("license.decode", &decode{ })
```

```
}
```

```
func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
```

```
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
```

```
    cmd.ClientFlag.Register(ctx, f)
```

```
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
```

```
    cmd.OutputFlag.Register(ctx, f)
```

```
    f.StringVar(&cmd.feature, "feature", "", featureUsage)
```

```
}
```

```

func (cmd *decode) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    var result license.InfoList
    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {
            return err
        }

        result = append(result, license)
    }

    if cmd.feature != "" {
        result = result.WithFeature(cmd.feature)
    }

    return cmd.WriteResult(licenseOutput(result))
}

```

/*

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*/

package license

```
import (  
    "fmt"  
    "io"  
    "os"  
    "text/tabwriter"  
  
    "github.com/vmware/govmomi/vim25/types"  
)
```

```
type licenseOutput []types.LicenseManagerLicenseInfo
```

```
func (res licenseOutput) Write(w io.Writer) error {  
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)  
    fmt.Fprintf(tw, "Key:\tEdition:\tUsed:\tTotal:\n")  
    for _, v := range res {  
        fmt.Fprintf(tw, "%s\t", v.LicenseKey)  
        fmt.Fprintf(tw, "%s\t", v.EditionKey)  
        fmt.Fprintf(tw, "%d\t", v.Used)  
        fmt.Fprintf(tw, "%d\t", v.Total)  
        fmt.Fprintf(tw, "\n")  
    }  
    return tw.Flush()  
}  
  
# People who can (and typically have) contributed to this repository.  
#  
# This script is generated by contributors.sh  
#
```

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*/

package license

```
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    "flag"  
  
    "github.com/vmware/govmomi/govc/cli"  
    "github.com/vmware/govmomi/govc/flags"  
    "github.com/vmware/govmomi/license"  
    "github.com/vmware/govmomi/vim25/methods"  
    "github.com/vmware/govmomi/vim25/types"  
)  
  
type label struct {  
    *flags.ClientFlag  
}  
  
func init() {  
    cli.Register("license.label.set", &label{})  
}  
  
func (cmd *label) Register(ctx context.Context, f *flag.FlagSet) {  
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)  
    cmd.ClientFlag.Register(ctx, f)  
}  
  
func (cmd *label) Usage() string {  
    return "LICENSE KEY VAL"  
}  
  
func (cmd *label) Description() string {  
    return `Set license labels.`  
}  
  
Examples:  
govc license.label.set 00000-00000-00000-00000-00000 team cnx # add/set label  
govc license.label.set 00000-00000-00000-00000-00000 team "" # remove label  
govc license.ls -json | jq '.[] | select(.Labels[].Key == "team") | .LicenseKey`  
}
```

```

func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m := license.NewManager(client)

    if f.NArg() != 3 {
        return flag.ErrHelp
    }

    req := types.UpdateLicenseLabel{
        This:    m.Reference(),
        LicenseKey: f.Arg(0),
        LabelKey: f.Arg(1),
        LabelValue: f.Arg(2),
    }

    _, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
    return err
}

```

Paul Borman <borman@google.com>
 bmatsuo
 shawnps
 theory
 jboverfelt
 dsymonds
 cd1
 wallclockbuilder
 dansouza

1.17 util-linux 2.31.1-0.4ubuntu3.2

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RsTk!|r!Quo1OE|FfP+A }XBT9 \<
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g|BI'W|j>jf_{JpP}oMd3rfQ+}_3<%<6jx{)11D5eg;NtD+~R|w[xiue@F#Em0hu,,x{R7V2!Vq~AG{EX -
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OXY[aB*"/_U~fQHO(3[b%o )+lq#+_d<QdLd=$1p!h0h6nfN=I+GNRk gKOL3\N3"uGxfIC
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BS=)d ;*!;_>KfB }&ea)F~H#@|DExb
Fw=|
;}8SPT"_p;27 *,D-sS|11np#_(~*uM%S61opMG`B=gD7-`rFTvDY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXx+sS|11np#_(~*uM%S61opMG`YfRXvY[R+t[ BS=)d
;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[ BS=)d ;*!;_>KfBqxY(F|0.Ve%Q?f_{+T@Uo)2fgYZ
```

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;*!;_>KfBqxY(F|0.Ve%S61opMG`YfRXvY[R+t[BS=)d

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1.18 libnetfilter-conntrack 1.0.6 2

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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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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Upstream-Name: libnetfilter_contrack
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1.19 web-toolkit 2.8.2

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1.20 sqlite 3.22.0-1ubuntu0.2

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<link href="sqlite.css" rel="stylesheet">
<title>SQLite Copyright</title>
<!-- path= -->
</head>
<body>
<div class=nosearch>
<a href="index.html">

</a>
<div><!-- IE hack to prevent disappearing logo --></div>
<div class="tagline desktoponly">
Small. Fast. Reliable.<br>Choose any three.
</div>
<div class="menu mainmenu">
<ul>
<li><a href="index.html">Home</a>
<li class='mobileonly'><a href="javascript:void(0)" onclick='toggle_div("submenu")'>Menu</a>
<li class='wideonly'><a href='about.html'>About</a>
<li class='desktoponly'><a href="docs.html">Documentation</a>
<li class='desktoponly'><a href="download.html">Download</a>
<li class='wideonly'><a href='copyright.html'>License</a>
<li class='desktoponly'><a href="support.html">Support</a>
<li class='desktoponly'><a href="prosupport.html">Purchase</a>
<li class='search' id='search_menubutton'>
<a href="javascript:void(0)" onclick='toggle_search()'>Search</a>
</ul>
</div>
<div class="menu submenu" id="submenu">
<ul>
<li><a href='about.html'>About</a>
<li><a href='docs.html'>Documentation</a>
```



```

<li><a href='download.html'>Download</a>
<li><a href='support.html'>Support</a>
<li><a href='prosupport.html'>Purchase</a>
</ul>
</div>
<div class="searchmenu" id="searchmenu">
<form method="GET" action="search">
<select name="s" id="searchtype">
<option value="d">Search Documentation</option>
<option value="c">Search Changelog</option>
</select>
<input type="text" name="q" id="searchbox" value="">
<input type="submit" value="Go">
</form>
</div>
</div>
<script>
function toggle_div(nm) {
var w = document.getElementById(nm);
if( w.style.display=="block" ){
w.style.display = "none";
}else{
w.style.display = "block";
}
}
function toggle_search() {
var w = document.getElementById("searchmenu");
if( w.style.display=="block" ){
w.style.display = "none";
} else {
w.style.display = "block";
setTimeout(function(){
document.getElementById("searchbox").focus()
}, 30);
}
}
function div_off(nm){ document.getElementById(nm).style.display="none";}
window.onbeforeunload = function(e){ div_off("submenu");}
/* Disable the Search feature if we are not operating from CGI, since */
/* Search is accomplished using CGI and will not work without it. */
if( !location.origin.match( /http/ ) ){
document.getElementById("search_menubutton").style.display = "none";
}
/* Used by the Hide/Show button beside syntax diagrams, to toggle the */
function hideorshow(btn,obj){
var x = document.getElementById(obj);
var b = document.getElementById(btn);
if( x.style.display!='none' ){

```

```
x.style.display = 'none';
b.innerHTML='show';
}else{
x.style.display = "";
b.innerHTML='hide';
}
return false;
}
</script>
</div>
```

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```
<div class="rightsidebar desktoponly">
<center>
<br>
SQLite is in the<br>
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</center>
</div>
```

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</p>

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</p>

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<input type="submit" value="Buy An SQLite License">

</form>

</div>

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<p>

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</p>

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<p>

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</p>

<html>

<title>SQLite Copyright Release Template</title>

<body bgcolor="white">

<h1 align="center">

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Contributions To SQLite

</h1>

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</p>

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</tr>

</table>

</body>

</html>

1.21 libxau 1.0.8 1

1.21.1 Available under license :

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```

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+++++

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

The Motorola 88k machine description was contributed by Devon Bowen of

Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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1.24 logfmt v0.4.0

1.24.1 Available under license :

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1.25 free-type 2.4.11

1.25.1 Available under license :

```
# Files that don't get a copyright, or which are taken from elsewhere.
#
# All lines in this file are patterns, including the comment lines; this
# means that e.g. `FTL.TXT' matches all files that have this string in
# the file name (including the path relative to the current directory,
# always starting with `./').
#
# Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdfplib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
```

```
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
# EOF
```

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2006-Jan-27

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=====

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o freetype-devel@nongnu.org

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Our home page can be found at

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--- end of FTL.TXT ---

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Version 2, June 1991

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1.26 hostname 3.20

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1.27 go-runtime 1.10.1-r0

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1.36 perl 5.26.1 6ubuntu0.3

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<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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```
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```

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The End

```
#!/perl
```

```
=head1 NAME
```

```
copyright.t
```

```
=head1 DESCRIPTION
```

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

```
=cut
```

```
use strict;
```

```
use Config;
```

```
BEGIN { require './test.pl' }
```

```
if ( $Config{usecrosscompile} ) {
```

```
    skip_all( "Not all files are available during cross-compilation" );
```

```
}
```

```
my ($opt) = @ARGV;
```

```
my $readme_year = readme_year();
```

```

my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', './README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /\b(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

```

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build_requires:
File::Temp: 0.15
Test::Harness: 3.16
Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
url: <http://module-build.sourceforge.net/META-spec-v1.4.html>
version: 1.4
name: Module-Build
resources:
MailingList: <mailto:module-build@perl.org>
license: <http://dev.perl.org/licenses/>
repository: <http://github.com/dagolden/module-build/>
version: 3

1.37 libnfnetlink 1.0.1 3

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```

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1.38 kerberos 1.16-2build1

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```
/*-*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */  
/*
```

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`src/lib/gssapi`, including the following files:

.. parsed-literal::

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

.. parsed-literal::

```
include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c

lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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and license statements in source code comments.

import os

import sys

import re

def warn(fname, ln, msg):

```

print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
            if text_seen:
                warn(fname, ln, 'License begins after first line of comment')
            elif code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
        # DB2 licenses start with '/*-' and we don't want to change them.
        if line != " and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^\* ([^ ]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'^\*.*?\*/', "", line)
            line = line.strip()

```

```

if not in_comment and '/*' in line:
    (line, sep, comment_part) = line.partition('/*')
    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*/' not in line:
    comment.append(line.lstrip('*').rstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('*/')
    comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                                code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() != "":
    code_seen = True

ln += 1

```

```

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

```

```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

```

```

<html xmlns="http://www.w3.org/1999/xhtml">
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<title>Copyright &#8212; MIT Kerberos Documentation</title>
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
<script type="text/javascript">
var DOCUMENTATION_OPTIONS = {
    URL_ROOT:    './',
    VERSION:    '1.17',
    COLLAPSE_INDEX: false,
    FILE_SUFFIX: '.html',
    HAS_SOURCE: true,
    SOURCELINK_SUFFIX: '.txt'
};
</script>
<script type="text/javascript" src="_static/jquery.js"></script>

```

```

<script type="text/javascript" src="_static/underscore.js"></script>
<script type="text/javascript" src="_static/doctools.js"></script>
<link rel="author" title="About these documents" href="about.html" />
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<body>
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      <div class="rel">

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      </div>
    </div>
  </div>

  <div class="content-wrapper">
    <div class="content">
      <div class="document">

        <div class="documentwrapper">
          <div class="bodywrapper">
            <div class="body" role="main">

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```

```

</div>

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</div>
</div>
    </div>
    <div class="sidebar">
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<ul>
<li><a class="reference internal" href="#">Copyright</a></li>
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<h2>Table of contents</h2>
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  <input type="submit" value="Go" />
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  <div class="footer" >

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</div>
</div>
</div>
```

```
</body>
</html>
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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
```


lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
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lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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```
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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <title>MIT Kerberos License information &#8212; MIT Kerberos Documentation</title>
  <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT:    './',
      VERSION:    '1.17',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE:  true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
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  <link rel="author" title="About these documents" href="about.html" />
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  <link rel="next" title="Copyright" href="copyright.html" />
  <link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
</head>
<body>
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<div class="header-wrapper">
  <div class="header">

    <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

    <div class="rel">

      <a href="index.html" title="Full Table of Contents"
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        accesskey="P">previous</a> |
      <a href="copyright.html" title="Copyright"
        accesskey="N">next</a> |
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        accesskey="I">index</a> |
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    <div class="document">

      <div class="documentwrapper">
        <div class="bodywrapper">
          <div class="body" role="main">

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<code class="docutils literal"><span class="pre">src/lib/gssapi</span></code>, including the following files:</p>
<div class="highlight-default"><div class="highlight"><pre><span></span><span class="n">lib</span><span
class="o">/</span><span class="n">gssapi</span><span class="o">/</span><span
class="n">generic</span><span class="o">/</span><span class="n">gssapi_err_generic</span><span
class="o">.</span><span class="n">et</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span
class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span
class="n">g_accept_sec_context</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span
class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span
class="n">g_acquire_cred</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span
class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span
class="n">g_canon_name</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span
class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span
class="n">g_compare_name</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span
class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span
class="n">g_compare_name</span><span class="o">.</span><span class="n">c</span>
<span class="n">lib</span><span class="o">/</span><span class="n">gssapi</span><span
class="o">/</span><span class="n">mechglue</span><span class="o">/</span><span
class="n">g_compare_name</span><span class="o">.</span><span class="n">c</span>
```


</div>

<p>and the initial implementation of incremental propagation, including the following new or changed files:</p>

```
<div class="highlight-default"><div class="highlight"><pre><span></span><span class="n">include</span><span class="o"></span><span class="n">iprop_hdr</span><span class="o">.</span><span class="n">h</span><span class="n">kadmin</span><span class="o"></span><span class="n">server</span><span class="o"></span><span class="n">ipropd_svc</span><span class="o">.</span><span class="n">c</span><span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span class="n">iprop</span><span class="o">.</span><span class="n">x</span><span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span class="n">kdb_convert</span><span class="o">.</span><span class="n">c</span><span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span class="n">kdb_log</span><span class="o">.</span><span class="n">c</span><span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span class="n">kdb_log</span><span class="o">.</span><span class="n">h</span><span class="n">lib</span><span class="o"></span><span class="n">krb5</span><span class="o"></span><span class="n">error_tables</span><span class="o"></span><span class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span><span class="n">kprop</span><span class="o"></span><span class="n">kpropd_rpc</span><span class="o">.</span><span class="n">c</span><span class="n">kprop</span><span class="o"></span><span class="n">kproplog</span><span class="o">.</span><span class="n">c</span></pre></div></div>
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<div class="sidebar">

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<li class="toctree-l1">For application developers

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<h4>Search</h4>
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<form class="search" action="search.html" method="get">
  <input type="text" name="q" size="18" />
  <input type="submit" value="Go" />
  <input type="hidden" name="check_keywords" value="yes" />
  <input type="hidden" name="area" value="default" />
</form>
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</div>
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<div class="clearer"></div>
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</div>
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</div>
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<div class="footer-wrapper">
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<div class="footer" >
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```
<div class="right" ><i>Release: 1.17</i><br />
```

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&copy; <a href="copyright.html">Copyright</a> 1985-2019, MIT.
```

```
</div>
```

```
<div class="left">
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<a href="index.html" title="Full Table of Contents"
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```
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
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</div>
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</div>
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</div>

</body>

</html>

1.39 coreutils 8.28 1ubuntu1

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1.40 xalan 2.7.2

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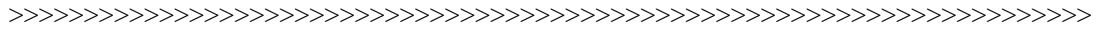
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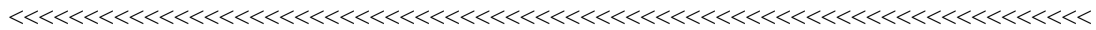
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1.41 spring-expression 5.2.2

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1.42 google-uuid v1.1.1

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1.43 libsepol 2.7-1

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(50) Michael R. Neilly (riscv-* targets)

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```
#!/usr/bin/python
```

```
#
```

```
# Copyright (C) 2013-2018 Free Software Foundation, Inc.
```

```
#
```

```
# This script 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 3, or (at your option)  
# any later version.
```

```
# This script adjusts the copyright notices at the top of source files  
# so that they have the form:
```

```
#
```

```
# Copyright XXXX-YYYY Free Software Foundation, Inc.
```

```
#
```

```
# It doesn't change code that is known to be maintained elsewhere or  
# that carries a non-FSF copyright.
```

```
#
```

```
# The script also doesn't change testsuite files, except those in  
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,  
# while most tests in other directories are just things that failed at some  
# point in the past.
```

```
#
```

```
# Pass --this-year to the script if you want it to add the current year  
# to all applicable notices. Pass --quilt if you are using quilt and  
# want files to be added to the quilt before being changed.
```

```
#
```

```
# By default the script will update all directories for which the  
# output has been vetted. You can instead pass the names of individual  
# directories, including those that haven't been approved. So:
```

```
#
```

```
# update-copyright.py --this-year
```

```
#
```

```
# is the command that would be used at the beginning of a year to update
```



```
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.
```

```
import os
import re
import sys
import time
import subprocess
```

```
class Errors:
```

```
    def __init__(self):
        self.num_errors = 0
```

```
    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
            sys.stderr.write(string + '\n')
            self.num_errors += 1
```

```
    def ok(self):
        return self.num_errors == 0
```

```
class GenericFilter:
```

```
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()
```

```
    self.skip_files |= set ([
        # Skip licence files.
        'COPYING',
        'COPYING.LIB',
        'COPYING3',
        'COPYING3.LIB',
        'LICENSE',
        'fdl.texi',
        'gpl_v3.texi',
        'fdl-1.3.xml',
        'gpl-3.0.xml',
```

```
# Skip auto- and libtool-related files
'aclocal.m4',
'compile',
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'ltoptions.m4',
'letsugar.m4',
'ltversion.m4',
'lt~obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
])
```

```
def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
```

```

# Skip .in files produced by automake.
if os.path.exists (base + '.am'):
    return True

# Skip files produced by autogen
if (os.path.exists (base + '.def')
    and os.path.exists (base + '.tpl')):
    return True

# Skip configure files produced by autoconf
if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True

return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

    # Characters in a range of years. Include '.' for typos.
    ranges = '[0-9](?:[-0-9.,\s])\s+and\s+[0-9]'

    # Non-whitespace characters in a copyright holder's name.
    name = '[\w.,-]'

    # Matches one year.
    self.year_re = re.compile ('[0-9]+')

    # Matches part of a year or copyright holder.
    self.continuation_re = re.compile (ranges + '|' + name)

```

```

# Matches a full copyright notice:
self.copyright_re = re.compile (
    # 1: 'Copyright (C)', etc.
    '([Cc]opyright'
    '|[Cc]opyright\s+\([Cc]\)'
    '|[Cc]opyright\s+%s'
    '|[Cc]opyright\s+&copy;'
    '|[Cc]opyright\s+@copyright{ }'
    '|copyright = u\"
    '|@set\s+copyright[\w-]+)'

    # 2: the years. Include the whitespace in the year, so that
    # we can remove any excess.
    '\s*(?:' + ranges + ',?'
    '@value\{[^\}]*\})\s*)'

    # 3: 'by ', if used
    '(by\s+)?'

    # 4: the copyright holder. Don't allow multiple consecutive
    # spaces, so that right-margin gloss doesn't get caught
    # (e.g. gnat_ugn.texti).
    '(' + name + '(?:\s? + name + ')*?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
                                       re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+;+|%+|/+|+@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find ( ' )
    while index >= 0:

```

```

        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
        elif len (string) == 4:
            return year
        raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                  for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:

```

```

        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != "":
            self.errors.report (pathname,
                                'trailing characters in @set: '
                                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation

```

```

next_line = None

# Rematch with the longer line, at the original position.
match = self.copyright_re.match (line, match.start())
assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
                        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
            + canon_form
            + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
        + (" if intro.startswith ('copyright = ') else ' ')
        + canon_form + self.separator
        + line[match.end (2):])

```

```

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += '(C)'
elif intro.endswith ('(c)'):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                    file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed

            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                    'unrecognised copyright: %s'
                                    % line.strip())
            lines.append (line)

```



```

        line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
        os.fchmod (file.fileno(), mode)
    if self.use_quilt:
        subprocess.call (['quilt', 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s\n'
                                   % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

```

```

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
        'Options:\n' % sys.argv[0])
    format = '%-15s %s\n'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ("\nDirectories:\n")

    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, "")
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                self.copyright.process_tree (dir, filter)

```

```

        if count == 0:
            self.errors.report (None, 'unrecognised directory: '
                                + chosen_dir)
        sys.exit (0 if self.errors.ok() else 1)

#-----

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

```

```

self.fossilised_files |= set ([
    # Old news won't be updated.
    'ONEWS',
])

class TestsuiteFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

self.skip_extensions |= set ([
    # Don't change the tests, which could be woened by anyone.
    '.c',
    '.C',
    '.cc',
    '.h',
    '.hs',
    '.f',
    '.f90',
    '.go',
    '.inc',
    '.java',
])

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    # Similarly params/README.
    if filename == 'README' and os.path.basename (dir) == 'params':
        return True
    if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
def __init__ (self):
    GenericFilter.__init__ (self)

self.skip_extensions |= set ([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
])

```

```

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([
            # Contains markup around the copyright owner.
            'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// \(\C\) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)

```

```
self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('The Free Software Foundation', canon_fsf)
self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('Software Foundation, Inc.', canon_fsf)
```

```
self.add_external_author ('ARM')
self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks.')
self.add_external_author ('Faraday Technology Corp.')
self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
self.add_external_author ('Intel Corporation')
self.add_external_author ('Information Technology Industry Council.')
self.add_external_author ('James Theiler, Brian Gough')
self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author ('National Research Council of Canada.')
self.add_external_author ('NVIDIA Corporation')
self.add_external_author ('Peter Dimov and Multi Media Ltd.')
self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeline Associates, Inc.')
self.add_external_author ('Regents of the University of California.')
self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author ('Silicon Graphics')
self.add_external_author ('Stephen L. Moshier')
self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors.')
self.add_external_author ('The Regents of the University of California.')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto.')
```

```
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # Boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
```

```
# intl is imported from upstream.
self.add_dir('libada')
self.add_dir('libatomic')
self.add_dir('libbacktrace')
self.add_dir('libcc1')
self.add_dir('libcpp', LibCxxFilter())
self.add_dir('libdecnumber')
# libffi is imported from upstream.
self.add_dir('libgcc', LibGCCFilter())
self.add_dir('libgfortran')
# libgo is imported from upstream.
self.add_dir('libgomp')
self.add_dir('libhsail-rt')
self.add_dir('libiberty')
self.add_dir('libitm')
self.add_dir('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir('libssp')
self.add_dir('libstdc++-v3', LibStdCxxFilter())
self.add_dir('libvtv')
self.add_dir('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.

self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]
```

GCCCmdLine().main()

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<one line to give the library's name and a brief idea of what it does.>
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Ty Coon, President of Vice

That's all there is to it!

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Version 3, 29 June 2007

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d) Do one of the following:

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/* Definitions for BSD assembler syntax for Intel 386
(actually AT&T syntax for insns and operands,
adapted to BSD conventions for symbol names and debugging.)

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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"

#define ASM_SHORT "\t.word\t"

#define ASM_LONG "\t.long\t"

#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS

#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \

fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

```

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
(fputs (".comm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
(fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u\n", (int)(ROUNDED)))

#ifndef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
(fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
sprintf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0

```

=====
compiler_rt License
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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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Program	Directory
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mach_override lib/interception/mach_override
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<appendix xmlns="http://docbook.org/ns/docbook" version="5.0"

xml:id="appendix.gpl-3.0"><info><title>

<acronym>GNU</acronym> General Public License version 3

</title></info>

<?dbhtml filename="appendix_gpl.html"?>

<para>

Version 3, 29 June 2007

</para>

<para>

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<bridgehead xml:id="gpl-3-preamble" renderas="sect1">

Preamble

</bridgehead>

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<para>

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

</para>

<para>

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

</para>

<bridgehead>

TERMS AND CONDITIONS

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<bridgehead xml:id="gpl-3-definitions" renderas="sect1">

0. Definitions.

</bridgehead>

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<para>

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version of the earlier work or a work based on the earlier work.

</para>

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</para>

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<para>

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</para>

<bridgehead xml:id="SourceCode" renderas="sect1">

1. Source Code.

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<para>

The System Libraries of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component,

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</para>

<para>

The Corresponding Source for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the works System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

</para>

<para>

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

</para>

<para>

The Corresponding Source for a work in source code form is that same work.

</para>

<bridgehead xml:id="BasicPermissions" renderas="sect1">

2. Basic Permissions.

</bridgehead>

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</para>

<bridgehead xml:id="Protecting" renderas="sect1">

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</bridgehead>

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</para>

<bridgehead xml:id="ConveyingVerbatim" renderas="sect1">

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</bridgehead>

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<para>

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<bridgehead xml:id="ConveyingModified" renderas="sect1">

5. Conveying Modified Source Versions.

</bridgehead>

<para>

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</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to keep intact all notices.

</para>

</listitem>

<listitem>

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</listitem>

<listitem>

<para>

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</para>

</listitem>

</orderedlist>

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<bridgehead xml:id="ConveyingNonSource" renderas="sect1">

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</bridgehead>

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</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

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</listitem>

<listitem>

<para>

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</listitem>

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</para>

</listitem>

<listitem>

<para>

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</listitem>

<listitem>

<para>

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

</para>

</listitem>

</orderedlist>

<para>

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

</para>

<para>

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</para>

<para>

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</para>

<para>

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</para>

<para>

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<bridgehead xml:id="AdditionalTerms" renderas="sect1">

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<bridgehead xml:id="gpl-3-termination" renderas="sect1">

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<bridgehead xml:id="InterpretationSecs1516" renderas="sect1">

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</screen>

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

</para>

<para>

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</para>

<screen>

<replaceable>program</replaceable> Copyright (C) <replaceable>year</replaceable> <replaceable>name of
author</replaceable>

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<literal>show c</literal> should show the appropriate parts of
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</para>

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</para>

</appendix>

<appendix xmlns="http://docbook.org/ns/docbook" version="5.0"

xml:id="appendix.gfdl-1.3">

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<?dbhtml filename="appendix_gfdl.html"?>

<simpara>Version 1.3, 3 November 2008</simpara>

<simpara>

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<bridgehead xml:id="fdl-1-section0" renderas="sect2">

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</appendix>

\emph{%(tool)s, The %(name)s Development Environment}

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Version 3.1, 31 March 2009

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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@enumerate a

@item

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@item

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@enumerate a

@item

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@item

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

@item

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

@item

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item

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

@end enumerate

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@end enumerate

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@smallexample

@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}

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@end smallexample

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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@smallexample

@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it under certain conditions; type @samp{show c} for details.

@end smallexample

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@c man end

.\" Automatically generated by Pod::Man 4.11 (Pod::Simple 3.35)

.\"

.\" Standard preamble:

.\" =====

.de Sp \" Vertical space (when we can't use .PP)

.if t .sp .5v

.if n .sp

..

.de Vb \" Begin verbatim text

.ft CW

.nf

.ne \\\$1

..

.de Ve \" End verbatim text

.ft R

.fi

..

.\" Set up some character translations and predefined strings. *(-- will

.\" give an unbreakable dash, *(PI will give pi, *(L" will give a left

.\" double quote, and *(R" will give a right double quote. *(C+ will

.\" give a nicer C++. Capital omega is used to do unbreakable dashes and

.\" therefore won't be available. *(C` and *(C' expand to ` in nroff,

.\" nothing in troff, for use with C<>.

.tr \(*W-

.ds C+ C\v'-.1v'h'-1p`s-2+\h'-1p'+\s0\v'.1v'h'-1p'

.ie n \{\

. ds -- \(*W-

. ds PI pi

. if (\n(.H=4u)&(1m=24u) .ds -- \(*W\h'-12u\(*W\h'-12u'\-\" diablo 10 pitch

```

. if (\n(.H=4u)&(1m=20u) .ds -- \(*W\h'-12u\(*W\h'-8u'-\ " diablo 12 pitch
. ds L" ""
. ds R" ""
. ds C` ""
. ds C' ""
"br\}
.el\{\
. ds -- \\\(em\|
. ds PI \(*p
. ds L" ``
. ds R" "
. ds C`
. ds C'
"br\}
.\"
.\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \(\aq
.el .ds Aq '
.\"
.\" If the F register is >0, we'll generate index entries on stderr for
.\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
.\" entries marked with X<> in POD. Of course, you'll have to process the
.\" output yourself in some meaningful fashion.
.\"
.\" Avoid warning from groff about undefined register 'F'.
.de IX
..
.nr rF 0
.if \n(.g .if rF .nr rF 1
.if (\n(rF:(\n(.g==0)) \{\
. if \nF \{\
. de IX
. tm Index:\$1\t\n%\t"\$2"
..
. if !\nF==2 \{\
. nr % 0
. nr F 2
. \}
. \}
.\}
.rr rF
.\"
.\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.\" Fear. Run. Save yourself. No user-serviceable parts.
. \ " fudge factors for nroff and troff
.if n \{\
. ds #H 0
. ds #V .8m

```

```

. ds #F .3m
. ds #[ \f1
. ds #] \fP
.\}
.if t \{\
. ds #H ((1u-(\|n(.fu%2u))* .13m)
. ds #V .6m
. ds #F 0
. ds #[ \&
. ds #] \&
.\}
. \" simple accents for nroff and troff
.if n \{\
. ds ' \&
. ds ` \&
. ds ^ \&
. ds , \&
. ds ~ ~
. ds /
.\}
.if t \{\
. ds ' \|k:h'-(\|n(.wu*8/10-\*(#H)^\`h'\|n:u"
. ds ` \|k:h'-(\|n(.wu*8/10-\*(#H)^\`h'\|n:u'
. ds ^ \|k:h'-(\|n(.wu*10/11-\*(#H)^\`h'\|n:u'
. ds , \|k:h'-(\|n(.wu*8/10),h'\|n:u'
. ds ~ \|k:h'-(\|n(.wu-\*(#H-.1m)~\h'\|n:u'
. ds / \|k:h'-(\|n(.wu*8/10-\*(#H)^\z(s|h'\|n:u'
.\}
. \" troff and (daisy-wheel) nroff accents
.ds : \|k:h'-(\|n(.wu*8/10-\*(#H+.1m+\*(#F)^\v'-(#V^\z.h'.2m+\*(#F'.h'\|n:u^\v'*(#V'
.ds 8 \|h'*(#H\(*b|h'-(#H'
.ds o \|k:h'-(\|n(.wu+\w\|(de'u-\*(#H)/2u^\v'-.3n^\*(#[\z|(de|\v'.3n^\h'\|n:u"*(#)
.ds d- \|h'*(#H\|(pd|h'-\w'~\u^\v'-.25m^\f2(hy|\fP|\v'.25m^\h'-(#H'
.ds D- D\|k:h'-(\w'D'u^\v'-.11m^\z(hy|\v'.11m^\h'\|n:u'
.ds th \*(#[\v'.3m^\s+1I|\s-1|\v'-.3m^\h'-(\w'Tu*2/3)^\s-1o|\s+1\*(#)
.ds Th \*(#[\s+2I|\s-2|h'-(\w'Tu*3/5^\v'-.3m'o|\v'.3m^\*(#)
.ds ae a|h'-(\w'a'u*4/10)'e
.ds Ae A|h'-(\w'A'u*4/10)'E
. \" corrections for vroff
.if v .ds ~ \|k:h'-(\|n(.wu*9/10-\*(#H)^\s-2\u~\d|\s+2|h'\|n:u'
.if v .ds ^ \|k:h'-(\|n(.wu*10/11-\*(#H)^\v'-.4m'^\v'.4m^\h'\|n:u'
. \" for low resolution devices (crt and lpr)
.if \|n(.H>23 .if \|n(.V>19 \
\{\
. ds : e
. ds 8 ss
. ds o a
. ds d- d|h'-1\|(ga

```

```

. ds D- D\h'-1\'(hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae
. ds Ae AE
.\}
.rm #[ #] #H #V #F C
.\" =====
.\"
.IX Title "GPL 7"
.TH GPL 7 "2019-02-22" "gcc-8.3.0" "GNU"
.\" For nroff, turn off justification.  Always turn off hyphenation; it makes
.\" way too many mistakes in technical documents.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
\&    Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
\&
\&    Everyone is permitted to copy and distribute verbatim copies of this
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.Ve
.SS "Preamble"
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want it, that you can change the software or use pieces of it in new

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For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

.PP

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For the developers' and authors' protection, the \s-1GPL\s0 clearly explains that there is no warranty for this free software. For both users' and authors' sake, the \s-1GPL\s0 requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

.PP

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the \s-1GPL\s0 to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the \s-1GPL,\s0 as needed to protect the freedom of users.

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Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the \s-1GPL\s0 assures that patents cannot be used to render the program non-free.

.PP

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

.SS "\s-1TERMS AND CONDITIONS\s0"

.IX Subsection "TERMS AND CONDITIONS"

.IP "0. Definitions." 4

.IX Item "0. Definitions."

\&*(L"This License*(R" refers to version 3 of the \s-1GNU\s0 General Public License.

.Sp

\&*(L"Copyright*(R" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

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

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

.Sp

A *(L"covered work*(R" means either the unmodified Program or a work based on the Program.

.Sp

To *(L"propagate*(R" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

.Sp

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

.Sp

An interactive user interface displays *(L"Appropriate Legal Notices*(R" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

.IP "1. Source Code." 4

.IX Item "1. Source Code."

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

.Sp

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

.Sp

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

.Sp

The *(L"Corresponding Source*(R" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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The Corresponding Source for a work in source code form is that same work.

.IP "2. Basic Permissions." 4

.IX Item "2. Basic Permissions."

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control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

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Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

.IP "3. Protecting Users' Legal Rights From Anti-Circumvention Law." 4

.IX Item "3. Protecting Users' Legal Rights From Anti-Circumvention Law."

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the \s-1WIPO\s0 copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

.Sp

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

.IP "4. Conveying Verbatim Copies." 4

.IX Item "4. Conveying Verbatim Copies."

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

.Sp

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

.IP "5. Conveying Modified Source Versions." 4

.IX Item "5. Conveying Modified Source Versions."

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

.RS 4

.IP "a." 4

.IX Item "a."

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

.IP "b." 4

.IX Item "b."

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This

requirement modifies the requirement in section 4 to *(L"keep intact all notices*(R".

.IP "c." 4

.IX Item "c."

You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

.IP "d." 4

.IX Item "d."

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

.RE

.RS 4

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an \&*(L"aggregate*(R" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

.RE

.IP "6. Conveying Non-Source Forms." 4

.IX Item "6. Conveying Non-Source Forms."

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

.RS 4

.IP "a." 4

.IX Item "a."

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

.IP "b." 4

.IX Item "b."

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you

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

.IP "c." 4

.IX Item "c."

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

.IP "d." 4

.IX Item "d."

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

.IP "e." 4

.IX Item "e."

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

.RE

.RS 4

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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

.Sp

A *(L"User Product*(R" is either (1) a *(L"consumer product*(R", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, \&*(L"normally used*(R" refers to a typical or \common use of that class of

product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

.Sp

\&*(L"Installation Information*(R" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in \s-IROM\s0).

.Sp

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

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Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

.RE

.IP "7. Additional Terms." 4

.IX Item "7. Additional Terms."

\&*(L"Additional permissions*(R" are terms that supplement the terms of this License by making exceptions from one or more of its conditions.

Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions

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.Sp

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

.RS 4

.IP "a." 4

.IX Item "a."

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.IP "b." 4

.IX Item "b."

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.IP "c." 4

.IX Item "c."

Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

.IP "d." 4

.IX Item "d."

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.IP "e." 4

.IX Item "e."

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.IP "f." 4

.IX Item "f."

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.RE

.RS 4

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If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

.Sp

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

.RE

.IP "8. Termination." 4

.IX Item "8. Termination."

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.IP "9. Acceptance Not Required for Having Copies." 4

.IX Item "9. Acceptance Not Required for Having Copies."

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.IP "10. Automatic Licensing of Downstream Recipients." 4

.IX Item "10. Automatic Licensing of Downstream Recipients."

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.IP "11. Patents." 4

.IX Item "11. Patents."

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.IP "12. No Surrender of Others' Freedom." 4

.IX Item "12. No Surrender of Others' Freedom."

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.IX Item "13. Use with the GNU Affero General Public License."

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.IP "14. Revised Versions of this License." 4

.IX Item "14. Revised Versions of this License."

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.Sp

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.Sp

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.IP "15. Disclaimer of Warranty." 4

.IX Item "15. Disclaimer of Warranty."

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.IP "16. Limitation of Liability." 4

.IX Item "16. Limitation of Liability."

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.IP "17. Interpretation of Sections 15 and 16." 4

.IX Item "17. Interpretation of Sections 15 and 16."

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.SS "\s-1END OF TERMS AND CONDITIONS\s0"

.IX Subsection "END OF TERMS AND CONDITIONS"

.SS "How to Apply These Terms to Your New Programs"

.IX Subsection "How to Apply These Terms to Your New Programs"

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

.PP

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 state the exclusion of warranty; and each file should have at least the *(L"copyright*(R" line and a pointer to where the full notice is found.

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.Vb 2

\& <one line to give the program*(Aqs name and a brief idea of what it does.>

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\& Copyright (C) <year> <name of author>
\&
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1.48 tar 1.29b-2

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Files: src/udev/udev-ctrl.c

src/udev/udevadm-hwdb.c

src/udev/udev-builtin.c

src/udev/udev-builtin-net_id.c

src/udev/udev-builtin-net_setup_link.c

src/udev/udev-builtin-hwdb.c

src/udev/udev-builtin-btrfs.c

src/udev/udev-builtin-keyboard.c

src/udev/net/link-config.h

src/udev/net/link-config.c

src/udev/net/ethtool-util.c

src/udev/net/ethtool-util.h

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Files: src/udev/scsi_id/scsi.h

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1.51 x-net 1.13

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- * in C (faster - it is executed many times during system startup).
- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.53 mawk 1.3.3 17ubuntu3

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1.55 cyrus-sasl 2.1.27~101-g0780600+dfsg

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#pragma ident "@(#)mit-sipb-copyright.h 1.5 93/02/04 SMI"

#endif /* _KERBEROS_MIT_COPYRIGHT_H */
/* CMU libsasl
* Tim Martin
* Rob Earhart
* Rob Siemborski
*/
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1.56 open-ldap 2.4.45+dfsg 1ubuntu1.1

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!include "../plain.sdf"
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1.58 audit 2.8.2 1ubuntu1

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1.59 httpcomponents-core 4.3.2

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Upstream-Name: libassuan

Upstream-Contact: Werner Koch <wk@gnupg.org>

Source: <https://gnupg.org/ftp/gcrypt/libassuan/>

Files: *

Makefile.am

src/Makefile.am

src/assuan-buffer.c

src/assuan-error.c

src/assuan-inquire.c

src/assuan-io.c

src/assuan-listen.c

src/assuan-pipe-server.c

src/assuan-socket-connect.c

src/assuan-socket-server.c

src/assuan-socket.c

src/assuan-uds.c

src/client.c

src/context.c

src/funopen.c

src/memrchr.c

src/posix-fd-t.inc.h

src/posix-includes.inc.h

src/posix-sock-nonce.inc.h

src/posix-sys-pth-impl.h

src/posix-types.inc.h

src/putc_unlocked.c

src/server.c

src/setenv.c

src/stpcpy.c

src/system-posix.c

src/system-w32.c

src/system-w32ce.c

src/system.c

src/w32-fd-t.inc.h

src/w32-includes.inc.h

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m4/lt~obsolete.m4
m4/onceonly.m4
m4/socklen.m4
m4/sys_socket_h.m4
m4/Makefile.in
src/libassuan-config.in
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1.63 rcrowley-go-metrics master

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utils/start-stop-daemon.c

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Files: lib/compat/md5.*

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1.66 linux-kernel 4.15.0-50.54

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

- * interrupts us (except possibly for removal/insertion of the cable?)
- * 10/4/97 - began heavy inline documentation of the code. Corrected typos
- * and spelling mistakes.
- * 10/5/97 - added code to handle PHY interrupts, disable PHY on
- * loss of link, and correctly re-enable PHY when link is
- * re-established. (put back CFG_PHYIE)
- *
- * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
- *
- * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- *
- * Linux driver for the IDT77201 NICStAR PCI ATM controller.
- * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- * see init_nicstar() for PHY initialization to change this. This driver
- * expects the Linux ATM stack to support scatter-gather lists
- * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- *
- * Implementing minimal-copy of received data:
- * IDT always receives data into a small buffer, then large buffers
- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *
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*
* M. Welsh, 6 July 1996
*
*
*/

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END OF TERMS AND CONDITIONS

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.>  
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```

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

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate 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 a sample; alter the names:

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

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1.69 ncurses 6.1 1ubuntu1.18.04

1.69.1 Available under license :

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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Upstream source <https://invisible-island.net/ncurses/ncurses.html>

This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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1.70 nettle 3.5.18-1ubuntu1.3

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Version 3, 29 June 2007

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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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Version 2, June 1991

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

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software

sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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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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/* 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.

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* 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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* M. Welsh, 6 July 1996
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.73 gnu-tls 3.5.18-1ubuntu1.3

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#####

Constant-time SSSE3 AES core implementation.

version 0.1

##

By Mike Hamburg (Stanford University), 2009

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##

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1.74 go-zglob master

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1.75 openssh 7.6p1 4ubuntu0.3

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 *
 */

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w)) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);
```

```
#endif /* !HAVE_WAITPID */  
#endif /* _BSD_WAITPID_H */
```

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[Tatu continues]

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* @version 3.0 (December 2000)

*

* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*/

```

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef HAVE_POLL && !defined(HAVE_POLL_H)
#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
int fd;
short events;
short revents;
} pollfd_t;

typedef unsigned int nfds_t;

```

```

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfd_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

```

1.76 opentracing-go v0.4.5

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1.83 spdylay 1.30.0 1ubuntu1

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1.85 libfile-fcntllock-perl 0.22-3build2

1.86 grep 3.1 2

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1.87 commons-lang 3.7

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1.89 guava 25.0

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1.92 e2fsprogs 1.44.1 1ubuntu1.1

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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

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*/

/*

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-
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It is part of the main e2fsprogs distribution, which can be found at:

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB)`)
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$ (BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

clean::

```
$(RM) -rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

/*

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*/

This is the Debian GNU/Linux prepackaged version of the Common Error
Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/ext2fs/

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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o

23-June-2007

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1.93 gcc 8.3.0-6ubuntu1~18.04.1

1.94 tdb 1.44.1 1ubuntu1.1

1.94.1 Available under license :

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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#

This is a Makefile stub which handles the creation of BSD shared
libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

```

#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB)`)

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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using the "WIP" test distributions or one from the hg or git repository from the development branch, please contact me (tytso@mit.edu) before you ship. The release schedules for this package are flexible, if you give me enough lead time.

Theodore Ts'o
23-June-2007

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Because of this blurred distinction, using the ordinary General

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

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

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

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

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

and installation of the library.

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- a) The modified work must itself be a software library.
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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square

root function must still compute square roots.)

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

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

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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.)

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

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

That's all there is to it!

Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes

-

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Gadi Oxman, August 1995

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```
Gnomovision version 69, Copyright (C) 19yy name of author
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```

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```
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```

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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1.96 libmpc 1.1.0-1

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1.98 libcap-ng 0.7.7-3.1

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

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

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

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have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

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

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

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

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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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```

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```
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```
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```
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```
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```

```
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```

```
!else
```

```
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```

```
!endif
```

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

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1.108 playground-log v7.0,2

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1.109 wget 1.19.4 1ubuntu2.2

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Version 3, 29 June 2007

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1.110 spring-aop 5.0.2

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1.111 xerces-j 2.9.1

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1.112 pam 1.1.8 3.6ubuntu2

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c

+++ pam.ubuntu/modules/pam_motd/pam_motd.c

@@ -73,6 +73,61 @@

close(fd);

}

+int display_legal(pam_handle_t *pamh)

{

+ int retval = PAM_IGNORE, rc;

+ char *user = NULL;

+ char *dir = NULL;

+ char *flag = NULL;

+ struct passwd *pwd = NULL;

+ struct stat s;

```

+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+     PAM_MODUTIL_DEF_PRIVS(privs);
+
+     /* Get the password entry */
+     pwd = pam_modutil_getpwnam (pamh, user);
+     if (pwd != NULL)
+     {
+         if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+             pam_syslog(pamh, LOG_ERR,
+                 "Unable to change UID to %d temporarily\n",
+                 pwd->pw_uid);
+             retval = PAM_SESSION_ERR;
+             goto finished;
+         }
+
+         if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+             goto finished;
+         if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+             goto finished;
+
+         if (stat(flag, &s) != 0)
+         {
+             display_file(pamh, "/etc/legal");
+             mkdir(dir, 0700);
+             f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                 S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+             if (f>=0) close(f);
+         }
+
+finished:
+         if (pam_modutil_regain_priv(pamh, &privs)) {
+             pam_syslog(pamh, LOG_ERR,
+                 "Unable to change UID back to %d\n", privs.old_uid);
+             retval = PAM_SESSION_ERR;
+         }
+
+         _pam_drop(flag);
+         _pam_drop(dir);
+     }
+ }
+ return retval;
+ }
+
PAM_EXTERN

```

```

int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+
    return retval;
}

```

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1.113 glibc 2.27 3ubuntu1

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1.116 iputils 20161105 1ubuntu2

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1.117 libxdmcp 1.1.2-3

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* github.com/google/renamio - <https://github.com/google/renamio>

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* golang.org/x/tools/go/analysis - <https://github.com/golang/tools>

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1.119 systemd 237-3ubuntu10.38

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```

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1.120 acl 2.2.52 3build1

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*/

1.122 gnu-tls 3.5.18 1ubuntu1

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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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Version 3, 29 June 2007

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```
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```

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

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

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1.127 util-linux 2.31.1 0.4ubuntu3.3

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When a "work that uses the Library" uses material from a header file

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

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1.129 gnu-tls 3.5.18-1ubuntu1.1

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```

1.130 alsa-lib 1.1.3-5ubuntu0.2

1.131 less 487 0.1

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1.132 open-ssl 1.1.1 1ubuntu2.1~18.04.5

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1.134 ucf 3.0038

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man3/SLIST_NEXT.3 man3/SLIST_REMOVE.3 man3/SLIST_REMOVE_HEAD.3
man3/STAILQ_CONCAT.3 man3/STAILQ_EMPTY.3 man3/STAILQ_ENTRY.3
man3/STAILQ_FIRST.3 man3/STAILQ_FOREACH.3 man3/STAILQ_HEAD.3
man3/STAILQ_HEAD_INITIALIZER.3 man3/STAILQ_INIT.3
man3/STAILQ_INSERT_AFTER.3 man3/STAILQ_INSERT_HEAD.3
man3/STAILQ_INSERT_TAIL.3 man3/STAILQ_NEXT.3 man3/STAILQ_REMOVE.3
man3/STAILQ_REMOVE_HEAD.3 man3/STAILQ_CONCAT.3 man3/STAILQ_EMPTY.3
man3/STAILQ_ENTRY.3 man3/STAILQ_FIRST.3 man3/STAILQ_FOREACH.3
man3/STAILQ_FOREACH_REVERSE.3 man3/STAILQ_HEAD.3
man3/STAILQ_HEAD_INITIALIZER.3 man3/STAILQ_INIT.3
man3/STAILQ_INSERT_AFTER.3 man3/STAILQ_INSERT_BEFORE.3
man3/STAILQ_INSERT_HEAD.3 man3/STAILQ_INSERT_TAIL.3 man3/STAILQ_LAST.3
man3/STAILQ_NEXT.3 man3/STAILQ_PREV.3 man3/STAILQ_REMOVE.3
man3/STAILQ_SWAP.3 man3/forkpty.3 man3/getloadavg.3 man3/login_tty.3
man3/openpty.3 man3/queue.3 man7/operator.7 man7/symlink.7

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Files: man2/accept.2 man2/accept4.2 man2/ftruncate.2 man2/ftruncate64.2
man2/getpeername.2 man2/getpgid.2 man2/getpgrp.2 man2/getpriority.2
man2/getsockname.2 man2/getsockopt.2 man2/ioctl.2 man2/killpg.2
man2/listen.2 man2/lseek.2 man2/readlink.2 man2/readlinkat.2
man2/recv.2 man2/recvfrom.2 man2/recvmsg.2 man2/send.2 man2/sendmsg.2
man2/sendto.2 man2/setpgid.2 man2/setpgrp.2 man2/setpriority.2
man2/setregid.2 man2/setregid32.2 man2/setreuid.2 man2/setreuid32.2
man2/setsockopt.2 man2/shutdown.2 man2/socket.2 man2/socketpair.2
man2/syscall.2 man2/truncate.2 man2/truncate64.2 man3/alloca.3
man3/auth_destroy.3 man3/authnone_create.3 man3/authunix_create.3
man3/authunix_create_default.3 man3/btree.3 man3/callrpc.3
man3/clearerr.3 man3/clnt_broadcast.3 man3/clnt_call.3
man3/clnt_control.3 man3/clnt_create.3 man3/clnt_destroy.3
man3/clnt_freeres.3 man3/clnt_geterr.3 man3/clnt_pcreateerror.3
man3/clnt_perrno.3 man3/clnt_perror.3 man3/clnt_screateerror.3
man3/clnt_sperrno.3 man3/clnt_sperror.3 man3/clntraw_create.3
man3/clnttcp_create.3 man3/clntudp_bufcreate.3 man3/clntudp_create.3

man3/daemon.3 man3/db.3 man3/dbopen.3 man3/endirpcent.3 man3/err.3
man3/errx.3 man3/exec.3 man3/execl.3 man3/execlp.3 man3/execlp.3
man3/execv.3 man3/execvp.3 man3/execvpe.3 man3/fclose.3 man3/fdopen.3
man3/feof.3 man3/ferror.3 man3/fflush.3 man3/fgetpos.3 man3/fileno.3
man3/fopen.3 man3/fread.3 man3/freopen.3 man3/fscanf.3 man3/fseek.3
man3/fsetpos.3 man3/ftell.3 man3/fts.3 man3/fts_children.3
man3/fts_close.3 man3/fts_open.3 man3/fts_read.3 man3/fts_set.3
man3/fwrite.3 man3/get_myaddress.3 man3/getrpcbyname.3
man3/getrpcbynumber.3 man3/getrpccent.3 man3/getrpcport.3 man3/hash.3
man3/iruserok.3 man3/iruserok_af.3 man3/killpg.3 man3/mpool.3
man3/pclose.3 man3/pmap_getmaps.3 man3/pmap_getport.3
man3/pmap_rmtcall.3 man3/pmap_set.3 man3/pmap_unset.3 man3/popen.3
man3/rcmd.3 man3/rcmd_af.3 man3/recno.3 man3/registerrpc.3
man3/rewind.3 man3/rexec.3 man3/rexec_af.3 man3/rpc.3
man3/rresvport.3 man3/rresvport_af.3 man3/ruserok.3 man3/ruserok_af.3
man3/scanf.3 man3/setbuf.3 man3/setbuffer.3 man3/setlinebuf.3
man3/setrpercent.3 man3/setvbuf.3 man3/sscanf.3 man3/stdarg.3
man3/stdio.3 man3/strtod.3 man3/strtof.3 man3/strtold.3
man3/svc_destroy.3 man3/svc_freeargs.3 man3/svc_getargs.3
man3/svc_getcaller.3 man3/svc_getreq.3 man3/svc_getreqset.3
man3/svc_register.3 man3/svc_run.3 man3/svc_sendreply.3
man3/svc_unregister.3 man3/svcerr_auth.3 man3/svcerr_decode.3
man3/svcerr_noproc.3 man3/svcerr_noprogram.3 man3/svcerr_progvers.3
man3/svcerr_systemerr.3 man3/svcerr_weakauth.3 man3/svcfd_create.3
man3/svcraw_create.3 man3/svctcp_create.3 man3/svcudp_bufcreate.3
man3/svcudp_create.3 man3/va_arg.3 man3/va_copy.3 man3/va_end.3
man3/va_start.3 man3/verrx.3 man3/verrx.3 man3/vfscanf.3 man3/vscanf.3
man3/vsscanf.3 man3/vwarn.3 man3/vwarnx.3 man3/warn.3 man3/warnx.3
man3/xdr.3 man3/xdr_accepted_reply.3 man3/xdr_array.3
man3/xdr_authunix_parms.3 man3/xdr_bool.3 man3/xdr_bytes.3
man3/xdr_callhdr.3 man3/xdr_callmsg.3 man3/xdr_char.3
man3/xdr_destroy.3 man3/xdr_double.3 man3/xdr_enum.3 man3/xdr_float.3
man3/xdr_free.3 man3/xdr_getpos.3 man3/xdr_inline.3 man3/xdr_int.3
man3/xdr_long.3 man3/xdr_opaque.3 man3/xdr_opaque_auth.3
man3/xdr_pmap.3 man3/xdr_pmaplist.3 man3/xdr_pointer.3
man3/xdr_reference.3 man3/xdr_rejected_reply.3 man3/xdr_replymsg.3
man3/xdr_setpos.3 man3/xdr_short.3 man3/xdr_string.3
man3/xdr_u_char.3 man3/xdr_u_int.3 man3/xdr_u_long.3
man3/xdr_u_short.3 man3/xdr_union.3 man3/xdr_vector.3 man3/xdr_void.3
man3/xdr_wrapstring.3 man3/xdrmem_create.3 man3/xdrrec_create.3
man3/xdrrec_endofrecord.3 man3/xdrrec_eof.3 man3/xdrrec_skiprecord.3
man3/xdrstdio_create.3 man3/xprt_register.3 man3/xprt_unregister.3
man5/rpc.5 man7/hostname.7 man7/mdoc.7 man7/mdoc.samples.7

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man3/error.3 man3/error_at_line.3 man3/error_message_count.3
man3/error_one_per_line.3 man3/error_print_progname.3
man3/getsubopt.3 man3/offsetof.3 man3/program_invocation_name.3
man3/program_invocation_short_name.3 man3/rpmatch.3 man5/elf.5
man5/resolv.conf.5 man5/resolver.5 man7/futex.7 man7/mailaddr.7

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Files: man2/fallocate.2 man2/ioctl_list.2 man2/setns.2 man4/cciss.4
man4/hpsa.4 man4/smrtmqi.4 man5/gai.conf.5 man5/nss.5 man7/cpuset.7

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Files: man1/getent.1 man1/iconv.1 man1/ldd.1 man1/localedef.1
man1/memusage.1 man1/memusagestat.1 man1/mtrace.1 man1/time.1
man2/__clone2.2 man2/_syscall.2 man2/acct.2 man2/add_key.2
man2/adjtimex.2 man2/afs_syscall.2 man2/bdflush.2 man2/break.2
man2/brk.2 man2/cacheflush.2 man2/capget.2 man2/capset.2 man2/clone.2
man2/clone2.2 man2/create_module.2 man2/epoll_create.2
man2/epoll_create1.2 man2/epoll_ctl.2 man2/epoll_pwait.2
man2/epoll_wait.2 man2/eventfd.2 man2/eventfd2.2 man2/fattach.2
man2/fdetach.2 man2/fgetxattr.2 man2/flistxattr.2 man2/fremovexattr.2
man2/fsetxattr.2 man2/get_kernel_syms.2 man2/get_thread_area.2
man2/getmsg.2 man2/getpmsg.2 man2/getsid.2 man2/getxattr.2
man2/gtty.2 man2/inb.2 man2/inb_p.2 man2/inl.2 man2/inl_p.2
man2/inotify_add_watch.2 man2/inotify_init.2 man2/inotify_init1.2
man2/inotify_rm_watch.2 man2/insb.2 man2/insl.2 man2/insw.2
man2/inw.2 man2/inw_p.2 man2/io_cancel.2 man2/io_destroy.2
man2/io_getevents.2 man2/io_setup.2 man2/io_submit.2
man2/ioctl_console.2 man2/ioctl_ficlone.2 man2/ioctl_ficlone_range.2
man2/ioctl_fideduperange.2 man2/ioctl_getfsmap.2 man2/ioctl_tty.2
man2/ioperm.2 man2/ioprio_get.2 man2/ioprio_set.2 man2/ipc.2
man2/isastream.2 man2/lgetxattr.2 man2/listxattr.2 man2/llistxattr.2
man2/lock.2 man2/lremovexattr.2 man2/lsetxattr.2 man2/madvise1.2
man2/memfd_create.2 man2/mkdir.2 man2/mkdirat.2 man2/mknod.2
man2/mknodat.2 man2/mlock.2 man2/mlock2.2 man2/mlockall.2
man2/modify_ldt.2 man2/mpx.2 man2/mremap.2 man2/munlock.2
man2/munlockall.2 man2/nanosleep.2 man2/outb.2 man2/outb_p.2
man2/outl.2 man2/outl_p.2 man2/outsb.2 man2/outsl.2 man2/outsw.2
man2/outw.2 man2/outw_p.2 man2/perf_event_open.2 man2/phys.2
man2/pivot_root.2 man2/prof.2 man2/ptrace.2 man2/putmsg.2
man2/putpmsg.2 man2/query_module.2 man2/removexattr.2
man2/request_key.2 man2/s390_pci_mmio_read.2
man2/s390_pci_mmio_write.2 man2/s390_runtime_instr.2
man2/s390_sthyi.2 man2/sbrk.2 man2/sched_get_priority_max.2
man2/sched_get_priority_min.2 man2/sched_getaffinity.2
man2/sched_getparam.2 man2/sched_rr_get_interval.2
man2/sched_setaffinity.2 man2/sched_setparam.2 man2/sched_yield.2
man2/security.2 man2/set_thread_area.2 man2/setsid.2 man2/setxattr.2
man2/signalfd.2 man2/signalfd4.2 man2/socketcall.2 man2/spu_create.2
man2/spu_run.2 man2/stty.2 man2/timerfd_create.2
man2/timerfd_gettime.2 man2/timerfd_settime.2 man2/tuxcall.2
man2/unimplemented.2 man2/unshare.2 man2/vserver.2 man3/DES_FAILED.3
man3/MB_CUR_MAX.3 man3/MB_LEN_MAX.3 man3/__after_morecore_hook.3
man3/__free_hook.3 man3/__malloc_hook.3
man3/__malloc_initialize_hook.3 man3/__memalign_hook.3
man3/__realloc_hook.3 man3/__setfpucw.3 man3/a64l.3
man3/addseverity.3 man3/aio_cancel.3 man3/aio_error.3

man3/aio_fsync.3 man3/aio_read.3 man3/aio_return.3 man3/aio_suspend.3
man3/aio_write.3 man3/argz.3 man3/argz_add.3 man3/argz_add_sep.3
man3/argz_append.3 man3/argz_count.3 man3/argz_create.3
man3/argz_create_sep.3 man3/argz_delete.3 man3/argz_extract.3
man3/argz_insert.3 man3/argz_next.3 man3/argz_replace.3
man3/argz_stringify.3 man3/btowc.3 man3/cabs.3 man3/cabsf.3
man3/cabsl.3 man3/cacos.3 man3/cacosf.3 man3/cacosh.3 man3/cacoshf.3
man3/cacoshl.3 man3/cacosl.3 man3/carg.3 man3/cargf.3 man3/cargl.3
man3/casin.3 man3/casinf.3 man3/casinh.3 man3/casinhf.3
man3/casinhf.3 man3/casinl.3 man3/catan.3 man3/catanf.3 man3/catanh.3
man3/catanhf.3 man3/catanhl.3 man3/catanl.3 man3/cbc_crypt.3
man3/ccos.3 man3/ccosf.3 man3/ccosh.3 man3/ccoshf.3 man3/ccoshl.3
man3/ccosl.3 man3/cexp.3 man3/cexp2.3 man3/cexp2f.3 man3/cexp2l.3
man3/cexpf.3 man3/cexpl.3 man3/cfgetispeed.3 man3/cfgetospeed.3
man3/cfmakeraw.3 man3/cfree.3 man3/cfsetispeed.3 man3/cfsetospeed.3
man3/cfsetspeed.3 man3/cimag.3 man3/cimagf.3 man3/cimagl.3
man3/clog.3 man3/clog10.3 man3/clog10f.3 man3/clog10l.3 man3/clog2.3
man3/clog2f.3 man3/clog2l.3 man3/clogf.3 man3/clogl.3 man3/conj.3
man3/conjf.3 man3/conjl.3 man3/cpow.3 man3/cpowf.3 man3/cpowl.3
man3/cproj.3 man3/cprojf.3 man3/cprojl.3 man3/creal.3 man3/crealf.3
man3/creall.3 man3/crypt.3 man3/crypt_r.3 man3/csin.3 man3/csinf.3
man3/csinh.3 man3/csinhf.3 man3/csinhl.3 man3/csinl.3 man3/csqr.3
man3/csqr.3 man3/csqr.3 man3/ctan.3 man3/ctanf.3 man3/ctanh.3
man3/ctanhf.3 man3/ctanhl.3 man3/ctanl.3 man3/des_crypt.3
man3/des_setparity.3 man3/dlclose.3 man3/dlerror.3 man3/dlmopen.3
man3/dlopen.3 man3/dlsym.3 man3/dlvsym.3 man3/dprintf.3
man3/ecb_crypt.3 man3/encrypt.3 man3/encrypt_r.3 man3/endaliasent.3
man3/endnetgrent.3 man3/endspent.3 man3/entttyent.3 man3/endtutent.3
man3/endutxent.3 man3/envz.3 man3/envz_add.3 man3/envz_entry.3
man3/envz_get.3 man3/envz_merge.3 man3/envz_remove.3
man3/envz_strip.3 man3/errno.3 man3/eventfd_read.3
man3/eventfd_write.3 man3/fdim.3 man3/fdimf.3 man3/fdiml.3
man3/feclearexcept.3 man3/fedisableexcept.3 man3/feenableexcept.3
man3/fegetenv.3 man3/fegetexcept.3 man3/fegetexceptflag.3
man3/fegetround.3 man3/feholdexcept.3 man3/fenv.3
man3/feraiseexcept.3 man3/fesetenv.3 man3/fesetexceptflag.3
man3/fesetround.3 man3/fetestexcept.3 man3/feupdateenv.3
man3/fgetgrent_r.3 man3/fgetpwent_r.3 man3/fgetspent.3
man3/fgetspent_r.3 man3/fgetwc.3 man3/fgetws.3 man3/fma.3 man3/fmaf.3
man3/fmal.3 man3/fmax.3 man3/fmaxf.3 man3/fmaxl.3 man3/fmemopen.3
man3/fmin.3 man3/fminf.3 man3/fminl.3 man3/fmtmsg.3 man3/fpclassify.3
man3/fprintf.3 man3/fputwc.3 man3/fputws.3 man3/ftime.3 man3/ftw.3
man3/fwide.3 man3/fwprintf.3 man3/gamma.3 man3/gammaf.3 man3/gammal.3
man3/getaliasbyname.3 man3/getaliasbyname_r.3 man3/getaliasent.3
man3/getaliasent_r.3 man3/getgrent_r.3 man3/getnetgrent.3
man3/getnetgrent_r.3 man3/getpass.3 man3/getpwent_r.3 man3/getspent.3
man3/getspent_r.3 man3/getspnam.3 man3/getspnam_r.3 man3/getttyent.3
man3/gettyent.3 man3/gettutent.3 man3/gettutent_r.3 man3/getutid.3

man3/getutid_r.3 man3/getutline.3 man3/getutline_r.3 man3/getutxent.3
man3/getutxid.3 man3/getutxline.3 man3/getwc.3 man3/getwchar.3
man3/hcreate.3 man3/hcreate_r.3 man3/hdestroy.3 man3/hdestroy_r.3
man3/hsearch.3 man3/hsearch_r.3 man3/iconv.3 man3/iconv_close.3
man3/iconv_open.3 man3/innetgr.3 man3/isfinite.3 man3/isgreater.3
man3/isgreaterequal.3 man3/isinf.3 man3/isless.3 man3/isllessequal.3
man3/islessgreater.3 man3/isnan.3 man3/isnormal.3 man3/isunordered.3
man3/iswalnum.3 man3/iswalpha.3 man3/iswblank.3 man3/iswcntrl.3
man3/iswctype.3 man3/iswdigit.3 man3/iswgraph.3 man3/iswlower.3
man3/iswprint.3 man3/iswpunct.3 man3/iswspace.3 man3/iswupper.3
man3/iswxdigit.3 man3/key_decryptsession.3 man3/key_encryptsession.3
man3/key_gendes.3 man3/key_secretkey_is_set.3 man3/key_setsecret.3
man3/l64a.3 man3/lckpwwdf.3 man3/lgamma.3 man3/lgamma_r.3
man3/lgammaf.3 man3/lgammaf_r.3 man3/lgamma.3 man3/lgamma_r.3
man3/lio_listio.3 man3/lockf.3 man3/login.3 man3/logout.3
man3/logwtmp.3 man3/longjmp.3 man3/malloc_hook.3 man3/mblen.3
man3/mbrlen.3 man3/mbrtowc.3 man3/mbsinit.3 man3/mbsrtowcs.3
man3/mbsrtowcs.3 man3/mbstowcs.3 man3/mbtowc.3 man3/mempcpy.3
man3/nan.3 man3/nanf.3 man3/nanl.3 man3/netlink.3 man3/nextafter.3
man3/nextafterf.3 man3/nextafterl.3 man3/nexttoward.3
man3/nexttowardf.3 man3/nexttowardl.3 man3/nftw.3 man3/nl_langinfo.3
man3/nl_langinfo_l.3 man3/ntp_adjtime.3 man3/open_memstream.3
man3/open_wmemstream.3 man3/passwd2des.3 man3/perror.3
man3/posix_madvise.3 man3/printf.3 man3/putgrent.3 man3/putsptent.3
man3/pututline.3 man3/pututxline.3 man3/putwc.3 man3/putwchar.3
man3/remquo.3 man3/remquof.3 man3/remquol.3 man3/rtime.3
man3/setaliasent.3 man3/setjmp.3 man3/setkey.3 man3/setkey_r.3
man3/setnetgrent.3 man3/setspent.3 man3/setttyent.3 man3/setutent.3
man3/setutxent.3 man3/sgetspent.3 man3/sgetspent_r.3
man3/siglongjmp.3 man3/signbit.3 man3/signgam.3 man3/significand.3
man3/significandf.3 man3/significandl.3 man3/sigsetjmp.3
man3/sincos.3 man3/sincosf.3 man3/sincosl.3 man3/snprintf.3
man3/sprintf.3 man3/stpncpy.3 man3/strfmon.3 man3/strfmon_l.3
man3/strnlen.3 man3/strtoimax.3 man3/strtoumax.3 man3/swprintf.3
man3/sys_errlist.3 man3/sys_nerr.3 man3/tcdrain.3 man3/tcflow.3
man3/tcflush.3 man3/tcgetattr.3 man3/tcsetattr.3 man3/tcsetattr.3
man3/termios.3 man3/tgamma.3 man3/tgammaf.3 man3/tgamma.3
man3/towctrans.3 man3/towlower.3 man3/towlower_l.3 man3/towupper.3
man3/towupper_l.3 man3/ttyname.3 man3/ttyname_r.3 man3/ualarm.3
man3/ulckpwwdf.3 man3/ungetwc.3 man3/updwtmp.3 man3/updwtmpx.3
man3/utmpname.3 man3/utmpxname.3 man3/vdprintf.3 man3/vfprintf.3
man3/vfwprintf.3 man3/vprintf.3 man3/vsnprintf.3 man3/vsprintf.3
man3/vswprintf.3 man3/vwprintf.3 man3/wcpcpy.3 man3/wcpncpy.3
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man3/CPU_CLR_S.3 man3/CPU_COUNT.3 man3/CPU_COUNT_S.3 man3/CPU_EQUAL.3
man3/CPU_EQUAL_S.3 man3/CPU_FREE.3 man3/CPU_ISSET.3

man3/CPU_ISSET_S.3 man3/CPU_OR.3 man3/CPU_OR_S.3 man3/CPU_SET.3
man3/CPU_SET_S.3 man3/CPU_XOR.3 man3/CPU_XOR_S.3 man3/CPU_ZERO.3
man3/CPU_ZERO_S.3 man3/FD_CLR.3 man3/FD_ISSET.3 man3/FD_SET.3
man3/FD_ZERO.3 man3/HUGE_VAL.3 man3/HUGE_VALF.3 man3/HUGE_VALL.3
man3/INFINITY.3 man3/NAN.3 man3/___fbufsize.3 man3/___flbf.3
man3/___fpending.3 man3/___fpurge.3 man3/___freadable.3
man3/___freading.3 man3/___fsetlocking.3 man3/___fwritable.3
man3/___fwriting.3 man3/___ppc_get_timebase.3
man3/___ppc_get_timebase_freq.3 man3/___ppc_mdoio.3 man3/___ppc_mdoom.3
man3/___ppc_set_ppr_low.3 man3/___ppc_set_ppr_med.3
man3/___ppc_set_ppr_med_high.3 man3/___ppc_set_ppr_med_low.3
man3/___ppc_set_ppr_very_low.3 man3/___ppc_yield.3 man3/_flushlbf.3
man3/abort.3 man3/abs.3 man3/acos.3 man3/acosf.3 man3/acosh.3
man3/acoshf.3 man3/acoshl.3 man3/acosl.3 man3/addmntent.3
man3/adjtime.3 man3/aio_init.3 man3/aligned_alloc.3 man3/asctime.3
man3/asctime_r.3 man3/asin.3 man3/asinf.3 man3/asinh.3 man3/asinhf.3
man3/asinhf.3 man3/asinl.3 man3/asprintf.3 man3/assert.3
man3/assert_perror.3 man3/atan.3 man3/atan2.3 man3/atan2f.3
man3/atan2l.3 man3/atanf.3 man3/atanh.3 man3/atanhf.3 man3/atanhl.3
man3/atanl.3 man3/atexit.3 man3/atof.3 man3/atoi.3 man3/atol.3
man3/atoll.3 man3/atoq.3 man3/basename.3 man3/bcmp.3 man3/bcopy.3
man3/be16toh.3 man3/be32toh.3 man3/be64toh.3 man3/bindresvport.3
man3/bsd_signal.3 man3/bsearch.3 man3/bstring.3 man3/bswap.3
man3/bswap_16.3 man3/bswap_32.3 man3/bswap_64.3 man3/byteorder.3
man3/bzero.3 man3/calloc.3 man3/canonicalize_file_name.3
man3/catclose.3 man3/catgets.3 man3/catopen.3 man3/cbrt.3
man3/cbrtf.3 man3/cbrtl.3 man3/ceil.3 man3/ceilf.3 man3/ceill.3
man3/clearenv.3 man3/clearerr_unlocked.3 man3/clock.3
man3/clock_getcpuclockid.3 man3/clock_getres.3 man3/clock_gettime.3
man3/clock_settime.3 man3/closedir.3 man3/closelog.3 man3/cmsg.3
man3/confstr.3 man3/copysign.3 man3/copysignf.3 man3/copysignl.3
man3/cos.3 man3/cosf.3 man3/cosh.3 man3/coshf.3 man3/coshl.3
man3/cosl.3 man3/ctermid.3 man3/ctime.3 man3/ctime_r.3 man3/cuserid.3
man3/daylight.3 man3/difftime.3 man3/dirfd.3 man3/dirname.3
man3/div.3 man3/dl_iterate_phdr.3 man3/dladdr.3 man3/dladdr1.3
man3/dlinfo.3 man3/dn_comp.3 man3/dn_expand.3 man3/drand48.3
man3/drand48_r.3 man3/drem.3 man3/dremf.3 man3/dreml.3
man3/duplocale.3 man3/dysize.3 man3/eaccess.3 man3/ecvt.3
man3/ecvt_r.3 man3/edata.3 man3/end.3 man3/endsent.3 man3/engrent.3
man3/endhostent.3 man3/ endian.3 man3/ endmntent.3 man3/endnetent.3
man3/endprotoent.3 man3/endpwent.3 man3/endservent.3
man3/endusershell.3 man3/erand48.3 man3/erand48_r.3 man3/erf.3
man3/erfc.3 man3/erfcf.3 man3/erfcl.3 man3/erff.3 man3/erfl.3
man3/etext.3 man3/ether_aton.3 man3/ether_aton_r.3
man3/ether_hostton.3 man3/ether_line.3 man3/ether_ntoa.3
man3/ether_ntoa_r.3 man3/ether_ntohost.3 man3/euidaccess.3
man3/exit.3 man3/exp.3 man3/exp10.3 man3/exp10f.3 man3/exp10l.3
man3/exp2.3 man3/exp2f.3 man3/exp2l.3 man3/expf.3 man3/expl.3

man3/explicit_bzero.3 man3/expm1.3 man3/expm1f.3 man3/expm1l.3
man3/fabs.3 man3/fabsf.3 man3/fabsl.3 man3/fcloseall.3 man3/fcvt.3
man3/fcvt_r.3 man3/fdopendir.3 man3/feof_unlocked.3
man3/ferror_unlocked.3 man3/fexecve.3 man3/fflush_unlocked.3
man3/ffs.3 man3/ffsl.3 man3/ffsl.3 man3/fgetc.3
man3/fgetc_unlocked.3 man3/fgetgrent.3 man3/fgetpwent.3 man3/fgets.3
man3/fgets_unlocked.3 man3/fgetwc_unlocked.3 man3/fgetws_unlocked.3
man3/fileno_unlocked.3 man3/finite.3 man3/finitf.3 man3/finitel.3
man3/flockfile.3 man3/floor.3 man3/floorf.3 man3/floorl.3 man3/fmod.3
man3/fmodf.3 man3/fmodl.3 man3/fnmatch.3 man3/fopencookie.3
man3/fpathconf.3 man3/fpurge.3 man3/fputc.3 man3/fputc_unlocked.3
man3/fputs.3 man3/fputs_unlocked.3 man3/fputwc_unlocked.3
man3/fputws_unlocked.3 man3/fread_unlocked.3 man3/free.3
man3/freeaddrinfo.3 man3/freehostent.3 man3/freeifaddrs.3
man3/freelocale.3 man3/frexp.3 man3/frexp.3 man3/frexp.3 man3/frexp.3
man3/fseeko.3 man3/fstatvfs.3 man3/ftello.3 man3/ftok.3
man3/ftrylockfile.3 man3/funlockfile.3 man3/futimens.3 man3/futimes.3
man3/fwrite_unlocked.3 man3/gai_cancel.3 man3/gai_error.3
man3/gai_strerror.3 man3/gai_suspend.3 man3/gcvt.3
man3/get_avphys_pages.3 man3/get_current_dir_name.3 man3/get_nprocs.3
man3/get_nprocs_conf.3 man3/get_phys_pages.3 man3/getaddrinfo.3
man3/getaddrinfo_a.3 man3/getauxval.3 man3/getc.3
man3/getc_unlocked.3 man3/getchar.3 man3/getchar_unlocked.3
man3/getcontext.3 man3/getcwd.3 man3/getdate.3 man3/getdate_err.3
man3/getdate_r.3 man3/getdelim.3 man3/getdirentries.3
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man3/getgrgid_r.3 man3/getgrnam.3 man3/getgrnam_r.3
man3/getgrouplist.3 man3/gethostbyaddr.3 man3/gethostbyaddr_r.3
man3/gethostbyname.3 man3/gethostbyname2.3 man3/gethostbyname2_r.3
man3/gethostbyname_r.3 man3/gethostent.3 man3/gethostent_r.3
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man3/getlogin_r.3 man3/getmntent.3 man3/getmntent_r.3
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man3/getrpcbnumber_r.3 man3/getrpcbent_r.3 man3/gets.3
man3/getservbyname.3 man3/getservbyname_r.3 man3/getservbyport.3
man3/getservbyport_r.3 man3/getserverent.3 man3/getserverent_r.3
man3/getumask.3 man3/getusershell.3 man3/getutmp.3 man3/getutmpx.3
man3/getw.3 man3/getwc_unlocked.3 man3/getwchar_unlocked.3
man3/getwd.3 man3/glob.3 man3/globfree.3 man3/gmtime.3
man3/gmtime_r.3 man3/gnu_dev_major.3 man3/gnu_dev_makedev.3

man3/gnu_dev_minor.3 man3/gnu_get_libc_release.3
man3/gnu_get_libc_version.3 man3/group_member.3 man3/gsignal.3
man3/h_errno.3 man3/hasmntopt.3 man3/herror.3 man3/hstrerror.3
man3/htobe16.3 man3/htobe32.3 man3/htobe64.3 man3/htole16.3
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man3/if_indextoname.3 man3/if_nameindex.3 man3/if_nametoindex.3
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man3/imaxdiv.3 man3/index.3 man3/inet.3 man3/inet_addr.3
man3/inet_aton.3 man3/inet_lnaof.3 man3/inet_makeaddr.3
man3/inet_net_ntop.3 man3/inet_net_pton.3 man3/inet_netof.3
man3/inet_network.3 man3/inet_ntoa.3 man3/inet_ntop.3
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man3/isdtype.3 man3/isgraph.3 man3/isgraph_1.3 man3/isinff.3
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man3/ispunct_1.3 man3/isspace.3 man3/isspace_1.3 man3/isupper.3
man3/isupper_1.3 man3/isxdigit.3 man3/isxdigit_1.3 man3/j0.3
man3/j0f.3 man3/j0l.3 man3/j1.3 man3/j1f.3 man3/j1l.3 man3/jn.3
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man3/ldexpf.3 man3/ldexpl.3 man3/ldiv.3 man3/le16toh.3 man3/le32toh.3
man3/le64toh.3 man3/lfind.3 man3/labs.3 man3/lldiv.3 man3/llrint.3
man3/llrintf.3 man3/llrintl.3 man3/llround.3 man3/llroundf.3
man3/llroundl.3 man3/localeconv.3 man3/localtime.3 man3/localtime_r.3
man3/log.3 man3/log10.3 man3/log10f.3 man3/log10l.3 man3/log1p.3
man3/log1pf.3 man3/log1pl.3 man3/log2.3 man3/log2f.3 man3/log2l.3
man3/logb.3 man3/logbf.3 man3/logbl.3 man3/logf.3 man3/logl.3
man3/lrand48.3 man3/lrand48_r.3 man3/lrint.3 man3/lrintf.3
man3/lrintl.3 man3/lround.3 man3/lroundf.3 man3/lroundl.3
man3/lsearch.3 man3/lseek64.3 man3/lutimes.3 man3/major.3
man3/makecontext.3 man3/makedev.3 man3/mallinfo.3 man3/malloc.3
man3/malloc_get_state.3 man3/malloc_info.3 man3/malloc_set_state.3
man3/malloc_stats.3 man3/malloc_trim.3 man3/malloc_usable_size.3
man3/mallopt.3 man3/matherr.3 man3/mcheck.3 man3/mcheck_check_all.3
man3/mcheck_pedantic.3 man3/memalign.3 man3/memccpy.3 man3/memchr.3
man3/memcmp.3 man3/memcpy.3 man3/memfrob.3 man3/memmem.3
man3/memmove.3 man3/memrchr.3 man3/memset.3 man3/minor.3
man3/mkdtemp.3 man3/mkfifo.3 man3/mkfifoat.3 man3/mkostemp.3
man3/mkostemps.3 man3/mkstemp.3 man3/mkstemps.3 man3/mktemp.3
man3/mktime.3 man3/mmap64.3 man3/modify.3 man3/modff.3 man3/modfl.3
man3/mprobe.3 man3/mq_close.3 man3/mq_getattr.3 man3/mq_notify.3
man3/mq_open.3 man3/mq_receive.3 man3/mq_send.3 man3/mq_setattr.3
man3/mq_timedreceive.3 man3/mq_timedsend.3 man3/mq_unlink.3

man3/mrand48.3 man3/mrand48_r.3 man3/mtrace.3 man3/muntrace.3
man3/nearbyint.3 man3/nearbyintf.3 man3/nearbyintl.3 man3/newlocale.3
man3/nextdown.3 man3/nextdownf.3 man3/nextdownl.3 man3/nextup.3
man3/nextupf.3 man3/nextupl.3 man3/nrand48.3 man3/nrand48_r.3
man3/ntohl.3 man3/ntohs.3 man3/ntp_gettime.3 man3/ntp_gettimex.3
man3/on_exit.3 man3/opendir.3 man3/openlog.3 man3/optarg.3
man3/opterr.3 man3/optind.3 man3/optopt.3 man3/pathconf.3
man3/posix_fallocate.3 man3/posix_memalign.3 man3/posix_openpt.3
man3/posix_spawn.3 man3/posix_spawnp.3 man3/pow.3 man3/pow10.3
man3/pow10f.3 man3/pow10l.3 man3/powf.3 man3/powl.3 man3/profil.3
man3/psiginfo.3 man3/psignal.3 man3/pthread_atfork.3
man3/pthread_attr_destroy.3 man3/pthread_attr_getaffinity_np.3
man3/pthread_attr_getdetachstate.3 man3/pthread_attr_getguardsize.3
man3/pthread_attr_getinheritsched.3 man3/pthread_attr_getschedparam.3
man3/pthread_attr_getschedpolicy.3 man3/pthread_attr_getscope.3
man3/pthread_attr_getstack.3 man3/pthread_attr_getstackaddr.3
man3/pthread_attr_getstacksize.3 man3/pthread_attr_init.3
man3/pthread_attr_setaffinity_np.3 man3/pthread_attr_setdetachstate.3
man3/pthread_attr_setguardsize.3 man3/pthread_attr_setinheritsched.3
man3/pthread_attr_setschedparam.3 man3/pthread_attr_setschedpolicy.3
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man3/pthread_attr_setstackaddr.3 man3/pthread_attr_setstacksize.3
man3/pthread_cancel.3 man3/pthread_cleanup_pop.3
man3/pthread_cleanup_pop_restore_np.3 man3/pthread_cleanup_push.3
man3/pthread_cleanup_push_defer_np.3 man3/pthread_create.3
man3/pthread_detach.3 man3/pthread_equal.3 man3/pthread_exit.3
man3/pthread_getaffinity_np.3 man3/pthread_getattr_default_np.3
man3/pthread_getattr_np.3 man3/pthread_getconcurrency.3
man3/pthread_getcpuclockid.3 man3/pthread_getname_np.3
man3/pthread_getschedparam.3 man3/pthread_join.3 man3/pthread_kill.3
man3/pthread_kill_other_threads_np.3 man3/pthread_mutex_consistent.3
man3/pthread_mutex_consistent_np.3 man3/pthread_mutexattr_destroy.3
man3/pthread_mutexattr_getpshared.3
man3/pthread_mutexattr_getrobust.3
man3/pthread_mutexattr_getrobust_np.3 man3/pthread_mutexattr_init.3
man3/pthread_mutexattr_setpshared.3
man3/pthread_mutexattr_setrobust.3
man3/pthread_mutexattr_setrobust_np.3
man3/pthread_rwlockattr_getkind_np.3
man3/pthread_rwlockattr_setkind_np.3 man3/pthread_self.3
man3/pthread_setaffinity_np.3 man3/pthread_setattr_default_np.3
man3/pthread_setcancelstate.3 man3/pthread_setcanceltype.3
man3/pthread_setconcurrency.3 man3/pthread_setname_np.3
man3/pthread_setschedparam.3 man3/pthread_setschedprio.3
man3/pthread_sigmask.3 man3/pthread_sigqueue.3
man3/pthread_spin_destroy.3 man3/pthread_spin_init.3
man3/pthread_spin_lock.3 man3/pthread_spin_trylock.3
man3/pthread_spin_unlock.3 man3/pthread_testcancel.3

man3/pthread_timedjoin_np.3 man3/pthread_tryjoin_np.3
man3/pthread_yield.3 man3/putc.3 man3/putc_unlocked.3 man3/putchar.3
man3/putchar_unlocked.3 man3/putenv.3 man3/putpwent.3 man3/puts.3
man3/putw.3 man3/putwc_unlocked.3 man3/putwchar_unlocked.3
man3/pvalloc.3 man3/qecvt.3 man3/qecvt_r.3 man3/qfcvt.3
man3/qfcvt_r.3 man3/qgcvt.3 man3/qsort.3 man3/qsort_r.3 man3/raise.3
man3/rand.3 man3/rand_r.3 man3/random.3 man3/random_r.3
man3/rawmemchr.3 man3/re_comp.3 man3/re_exec.3 man3/readdir.3
man3/readdir_r.3 man3/realloc.3 man3/realpath.3 man3/regcomp.3
man3/regerror.3 man3/regex.3 man3/regexec.3 man3/regfree.3
man3/remainder.3 man3/remainderf.3 man3/remainderl.3 man3/remove.3
man3/remque.3 man3/res_init.3 man3/res_mkquery.3 man3/res_ninit.3
man3/res_nmkquery.3 man3/res_nquery.3 man3/res_nquerydomain.3
man3/res_nsearch.3 man3/res_nsend.3 man3/res_query.3
man3/res_querydomain.3 man3/res_search.3 man3/res_send.3
man3/resolver.3 man3/rewinddir.3 man3/rindex.3 man3/rint.3
man3/rintf.3 man3/rintl.3 man3/round.3 man3/roundf.3 man3/roundl.3
man3/rtnetlink.3 man3/scalb.3 man3/scalbf.3 man3/scalbl.3
man3/scalbln.3 man3/scalblnf.3 man3/scalblnl.3 man3/scalbn.3
man3/scalbnf.3 man3/scalbnl.3 man3/sched_getcpu.3
man3/secure_getenv.3 man3/seed48.3 man3/seed48_r.3 man3/seekdir.3
man3/sem_close.3 man3/sem_destroy.3 man3/sem_getvalue.3
man3/sem_init.3 man3/sem_open.3 man3/sem_post.3 man3/sem_timedwait.3
man3/sem_trywait.3 man3/sem_unlink.3 man3/sem_wait.3
man3/setcontext.3 man3/setenv.3 man3/setfsent.3 man3/setgrent.3
man3/sethostent.3 man3/sethostid.3 man3/setlocale.3 man3/setlogmask.3
man3/setmntent.3 man3/setnetent.3 man3/setprotoent.3 man3/setpwent.3
man3/setservent.3 man3/setstate.3 man3/setstate_r.3
man3/setusershell.3 man3/shm_open.3 man3/shm_unlink.3
man3/sigaddset.3 man3/sigandset.3 man3/sigblock.3 man3/sigdelset.3
man3/sigemptyset.3 man3/sigfillset.3 man3/siggetmask.3 man3/sighold.3
man3/sigignore.3 man3/siginterrupt.3 man3/sigisemptyset.3
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man3/sinl.3 man3/sleep.3 man3/sockatmark.3 man3/sqrt.3 man3/sqrtf.3
man3/sqrtl.3 man3/srand.3 man3/srand48.3 man3/srand48_r.3
man3/srandom.3 man3/srandom_r.3 man3/ssignal.3 man3/statvfs.3
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man3/strcat.3 man3/strchr.3 man3/strchrnul.3 man3/strcmp.3
man3/strcoll.3 man3/strcpy.3 man3/strcspn.3 man3/strdup.3
man3/strdupa.3 man3/streerror.3 man3/streerror_l.3 man3/streerror_r.3
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man3/strsep.3 man3/strsignal.3 man3/strspn.3 man3/strstr.3

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man3/tanl.3 man3/tcgetpgrp.3 man3/tcgetsid.3 man3/tcsetpgrp.3
man3/tdelete.3 man3/tdestroy.3 man3/telldir.3 man3/tempnam.3
man3/tfind.3 man3/timegm.3 man3/timelocal.3 man3/timeradd.3
man3/timerclear.3 man3/timercmp.3 man3/timerisset.3 man3/timersub.3
man3/timezone.3 man3/tmpfile.3 man3/tmpnam.3 man3/tmpnam_r.3
man3/toascii.3 man3/tolower.3 man3/tolower_l.3 man3/toupper.3
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```

```
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```

```
#
```

```
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```

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import re
import sys
import textwrap
from pathlib import Path

# The standard short names in Debian are defined here:
# https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/

license_information = [
    {
        'shortname': 'BSD-3-clause',
        'filename': 'BSD-3-clause-UCB',
        'upstream_names': ['BSD_3_CLAUSE_UCB'],
    },
    {
        'shortname': 'BSD-4-clause',
        'filename': 'BSD-4-clause-UCB',
        'upstream_names': ['BSD_4_CLAUSE_UCB', 'BSD_ONELINE_CDROM'],
    },
    {
        'shortname': 'Expat',
        'filename': 'Expat',
        'upstream_names': ['PERMISSIVE_MISC', 'MIT'],
    },
    {
        # This shortname is not defined by the standard.
        'shortname': 'freely-redistributable',
        'filename': 'freely-redistributable',
        'upstream_names': ['FREELY_REDISTRIBUTABLE'],
    },
    {
        'shortname': 'GPL-2',
        'filename': 'GPL-2',
        'upstream_names': ['GPLv2_MISC', 'GPLv2_ONELINE'],
    },
    {
        'shortname': 'GPL-2+',
        'filename': 'GPL-2+',
        'upstream_names': ['GPL_NOVERSION_ONELINE', 'GPLv2+',
                           'GPLv2+_DOC_FULL', 'GPLv2+_DOC_MISC',
                           'GPLv2+_DOC_ONEPARA', 'GPLv2+_SW_3_PARA',
                           'GPLv2+_SW_ONEPARA'],
    },
    {
        # This shortname is not defined by the standard.

```

```

'shortname': 'henry-spencer-regex',
'filename': 'henry-spencer-regex',
'upstream_names': ['MISC'],
},
{
# This shortname is not defined by the standard.
'shortname': 'LDPv1',
'filename': 'LDPv1',
'upstream_names': ['LDPv1'],
},
{
'shortname': 'public-domain',
'filename': 'public-domain',
'upstream_names': ['PUBLIC_DOMAIN'],
},
{
# This shortname is not defined by the standard.
'shortname': 'verbatim',
'filename': 'verbatim',
'upstream_names': ['VERBATIM', 'VERBATIM_ONE_PARA',
                    'VERBATIM_TWO_PARA', 'VERBATIM_PROF'],
},
]

```

```
licenses_with_manpages = { }
```

```
symlinks = { }
```

```
def get_license_shortcode(name):
```

```
    """Gets the Debian shortname for the name supplied by upstream.
```

```
    Includes a check that upstream's names are only assigned
    to one shortname.
```

```
    """
```

```
    shortname = ""
```

```
    already_found = False
```

```
    for info in license_information:
```

```
        if name in info['upstream_names']:
```

```
            if not already_found:
```

```
                shortname = info['shortname']
```

```
                already_found = True
```

```
            else:
```

```
                sys.exit("Fatal error: Upstream license name defined multiple times: " + name)
```

```
    return shortname
```

```
def add_manpage_to_shortcode(manpage, copyright_holders, licenses):
```

```
    # Ensure a string for the filename
```

```
    filename = str(manpage)
```

```
    # Strip the leading "./"
```

```

filename = filename[3:len(filename)]
# Common case: only one license for the manpage, so
# the shortname is just e.g. "GPL-2+"
shortname = " and ".join(sorted(licenses))
if shortname not in licenses_with_manpages:
    licenses_with_manpages[shortname] = {'files': [filename], 'copyright': copyright_holders}
else:
    licenses_with_manpages[shortname]['files'].append(filename)
# Do not add same lines twice
existing_copyright_holders = licenses_with_manpages[shortname]['copyright']
joined_copyright_holders = list(set(existing_copyright_holders + copyright_holders))
licenses_with_manpages[shortname]['copyright'] = joined_copyright_holders

def get_copyright_stanza(shortname, file_info):
    stanza = ""
    # Collect files and symlinks into a common list
    all_files = file_info['files']
    for file in file_info['files']:
        if file in symlinks:
            all_files = all_files + symlinks[file]
    # Join the files into a whitespace separated list,
    # at most 76 characters long
    files = " ".join(sorted(all_files))
    # The wrap is 69 + 7 (length of "Files: ") = 76
    files = textwrap.wrap(files, width=69, break_long_words=False, break_on_hyphens=False)
    files = "\n    ".join(files)
    # Now format the copyright holders
    copyright = "\n        ".join(sorted(file_info['copyright']))
    # An empty field is an error, so ensure a value
    if len(copyright) == 0:
        copyright = "(could not be detected automatically)"
    # Finally, create the stanza
    stanza += "Files: " + files
    stanza += "\nCopyright: " + copyright
    stanza += "\nLicense: " + shortname + "\n\n"
    return stanza

def get_license_text(shortname):
    """Gets the text for the Debian license shortname."""
    text = ""
    for info in license_information:
        if info['shortname'] == shortname:
            text += "License: " + shortname + "\n"
            with open("licenses/" + info['filename']) as licensefile:
                for line in licensefile:
                    text += " " + line
    return text

```

```

p = Path("../")
for manpage in p.glob("man?/*"):
    with manpage.open() as file:
        licenses = []
        copyright_holders = []
        manpage_is_symlink = False
        for line in file:
            # Do not create copyright stanzas for symlink files
            # but add them to a symlink list
            symlink = re.search(r"^\.so (.*)", line)
            if symlink:
                manpage_is_symlink = True
                # Ensure a string for the filename
                linkname = str(manpage)
                # Strip the leading "../"
                linkname = linkname[3:len(linkname)]
                filename = symlink.group(1)
                if filename in symlinks:
                    symlinks[filename].append(linkname)
                else:
                    symlinks[filename] = [linkname]
                break
            # Only parse the header, so stop after seeing ".TH"
            if re.search(r"^\.TH", line):
                break
            # Extract all copyright holders
            copyright = re.search(r"^\.\|\|\|".*?Copyright (.*)", line)
            if copyright:
                copyright_holders.append(copyright.group(1))
            # Match the beginning of the license
            license_start = re.search(r"^\.\|\|\|".*?%LICENSE_START\((.*)\)", line)
            if license_start:
                license_name = license_start.group(1)
                license_short_name = get_license_shortcode(license_name)
                if not license_short_name:
                    sys.exit("Fatal error: Upstream license name not known: " + license_name)
                licenses.append(license_short_name)
            if not manpage_is_symlink:
                add_manpage_to_shortcode(manpage, copyright_holders, licenses)

# Flatten the symlinks by detecting and removing
# a symlink which points to another symlink.
for link_to_test in symlinks:
    # Now cycle through all symlink entries
    for link in symlinks:
        if link_to_test in symlinks[link]:
            symlinks[link] = symlinks[link] + symlinks[link_to_test]

```



```

# Make sorting of licenses deterministic
stanzas = ""
license_texts = []
for shortname in sorted(licenses_with_manpages):
    stanzas += get_copyright_stanza(shortname, licenses_with_manpages[shortname])
    text = get_license_text(shortname)
    if text:
        license_texts.append(text)

# Read in the first lines of copyright, without
# the automatically generated parts. Stop after
# the third occurrence of "License".
manual_lines = ""
license_line_count = 0
with open("copyright") as copyright_file:
    for line in copyright_file:
        manual_lines += line
        if re.search(r"^License:", line):
            license_line_count += 1
            if license_line_count == 3:
                # Add a final newline for separation
                manual_lines += "\n"
                break

# Open the file for output
with open("copyright", "w") as copyright_file:
    copyright_file.write(manual_lines)
    copyright_file.write(stanzas)
    copyright_file.write("\n".join(license_texts))

```

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1.136 ca-certificates 20180409

1.136.1 Available under license :

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Files: debian/*

examples/*

Makefile

mozilla/*

sbin/*

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(certdata.txt <= CVS Revision: 1.82)

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1.140 git 2.17.1 1ubuntu0.4

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```
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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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Linus Torvalds

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```
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```

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
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1.142 e2fsprogs 1.44.1-1

1.142.1 Available under license :

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Gadi Oxman, August 1995

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Theodore Ts'o
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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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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu/pub/linux/packages/ext2fs/

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*/

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

*/

/*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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This package was added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;'/${BSD_LIB} ${BSD_LIB})
```

```
install-shlibs install:: ${BSD_LIB}
```

```
@echo " INSTALL_PROGRAM ${BSDLIB_INSTALL_DIR}/${BSD_LIB}"
```

```
@${INSTALL_PROGRAM} ${BSD_LIB} \
```

```
$(DESTDIR)${BSDLIB_INSTALL_DIR}/${BSD_LIB}
```

```
@-${LDCONFIG}
```

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

```
uninstall-shlibs uninstall::
```

```
$(RM) -f $(DESTDIR)${BSDLIB_INSTALL_DIR}/${BSD_LIB}
```

```
clean::
```

```
$(RM) -rf pic
```

```
$(RM) -f ${BSD_LIB}
```

```
$(RM) -f ../${BSD_LIB}
```

This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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1.143 iptables 1.6.1 2ubuntu2

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```

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```
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```

```
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1.149 bzip2 1.0.6 8.1

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.150 curl 7.58.0 2ubuntu3.6

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=====

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1.151 Isb 9.20170808ubuntu1

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Upstream-Name: LSB implementation package

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1.152 shadow 4.5 1ubuntu1

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1.153 tdb 1.44.1-1ubuntu1.3

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1.154 golang-protobuf-extensions v1.0.1

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1.155 libjpeg 6b

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The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderrules.doc Coding style rules --- please read if you contribute code.

Please read at least the files `install.doc` and `usage.doc`. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or

more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

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We highly recommend reading one or more of these references before trying to

understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG

currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from <ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet address 192.48.96.9). The most recent released version can always be found there in directory <graphics/jpeg>. This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only <ftp.uu.net> is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the <ftp.uu.net> release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of

general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format

has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.156 libseccomp 2.4.1 Ubuntu0.18.04.2

1.157 headline 4.4.18 2ubuntu1

1.157.1 Available under license :

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Version 3, 29 June 2007

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1.163 udev 237-3ubuntu10.38

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1.164 libalgorithm-diff-xs-perl 0.04-5

1.165 bzip2 1.0.6 8.1ubuntu0.2

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.166 apt 1.6.12

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```
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1.167 adduser 3.116ubuntu1

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1.168 readline 4.4.18 2ubuntu1.2

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Files:

cpan/File-Fetch/*

cpan/IPC-Cmd/*

cpan/Module-Load/*

cpan/Module-Load-Conditional/*

cpan/Module-Loaded/*

cpan/Package-Constants/*

cpan/Params-Check/*

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Files:

cpan/Locale-Maketext-Simple/t/po_with_i_default/i_default.po
cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po
cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po
cpan/Locale-Maketext-Simple/t/po_without_i_default/en.po
cpan/Locale-Maketext-Simple/t/po_without_i_default/fr.po

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Files:

cpan/podlators/t/docs/pod-spelling.t

cpan/podlators/t/docs/pod.t

cpan/podlators/t/docs/synopsis.t

cpan/podlators/t/lib/Test/RRA.pm

cpan/podlators/t/lib/Test/RRA/Config.pm

cpan/podlators/t/style/minimum-version.t

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Files:

cpan/bignum/*

cpan/Tie-RefHash/*

cpan/Win32API-File/*

dist/ExtUtils-Install/*

dist/Math-BigInt/*

dist/Math-BigInt-FastCalc/*

dist/Math-BigRat/*

dist/Thread-Queue/*

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Files:

dist/autouse/*

dist/base/*

dist/constant/*

dist/Devel-SelfStubber/*

dist/Dumpvalue/*

dist/Env/*

dist/ExtUtils-Command/*

dist/ExtUtils-Manifest/*

dist/I18N-Collate/*

dist/Safe/*

ext/Fcntl/*

ext/FileCache/*

ext/GDBM_File/*

ext/IPC-Open2/*

ext/IPC-Open3/*

ext/NDBM_File/*

ext/ODBM_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
ext/PerlIO-via/*
ext/POSIX/*
ext/re/*
ext/Socket/*
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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Source: <https://alioth.debian.org/projects/collab-maint/sensible-utils.git>

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1.171 masterminds-semver v3.0.3

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1.173 openssh 7.6p1-4ubuntu0.1

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*

*/

```
#ifndef _BSD_WAITPID_H
```

```
#define _BSD_WAITPID_H
```

```
#ifndef HAVE_WAITPID
```

```
/* Clean out any potential issues */
```

```
#undef WIFEXITED
```

```
#undef WIFSTOPPED
```

```
#undef WIFSIGNALED
```

```

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w)) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int, int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifdef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

```

```

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM (-1) /* not standard */

int poll(struct pollfd *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

```

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* @version 3.0 (December 2000)

*

* Optimised ANSI C code for the Rijndael cipher (now AES)

*

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

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```

```

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif

```

1.174 libxext 1.3.3 1

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1.175 xz 5.2.2 1.3

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```
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July 15, 2018

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1.177 slf4j-log4j 1.6.6

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1.178 e2fsprogs 1.44.1-1ubuntu1.3

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```
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```
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```

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

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Ty Coon, President of Vice
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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Theodore Ts'o
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Index: tdbsa/tdb.c

```
=====
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
```


-
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- + Copyright (C) Andrew Tridgell 1999-2005
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** NOTE! The following LGPL license applies to the tdb
** library. This does NOT imply that all of Samba is released
This is the Debian GNU/Linux prepackaged version of the ss
command-line interface parsing library. It is currently
distributed together with the EXT2 file system utilities, which are
otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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#

This is a Makefile stub which handles the creation of BSD shared
libraries.

#

In order to use this stub, the following makefile variables must be defined.

#

BSDLIB_VERSION = 1.0

BSDLIB_IMAGE = libce

BSDLIB_MYDIR = et

BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

```
@echo " MKDIR pic"
```

```
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
```

```
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBJS)
```

```
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
```

```
$(MV) pic/$(BSD_LIB) .
```

```
$(RM) -f ../$(BSD_LIB)
```

```
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
```

```
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
```

```
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
```

```
@$(INSTALL_PROGRAM) $(BSD_LIB) \
```

```
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

```
uninstall-shlibs uninstall::
```

```
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
```

```
$(RM) -rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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1.179 httpcomponents-mime 4.3.2

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1.180 gdbm 1.14.1-6

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Version 3, 29 June 2007

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trivial database library

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```
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Version 3, 29 June 2007

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```
# COPYING.other                -*- org -*-  
#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
```

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.183 grpc-go 3.2.17+dfsg-1

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1.184 libsemanage 2.7-2build2

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arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.185 inetutils 1.9.4-3

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1.187 util-linux 2.31.1-0.4ubuntu3.5

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1.189 mx4j 3.0.2

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1.191 nghttp 1.30.0 1ubuntu1

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```
set yrange [0:]
```

```
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
```

```
set xtics rotate by -45
```

```
set style histogram errorbars gap 2 lw 1
```

```
set style fill solid border -1
```

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1.192 libx11 1.6.4-3ubuntu0.1

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1.201 libalgorithm-merge-perl 0.08-3

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1.202 curl 7.58.0 2ubuntu3.7

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1.203 libbsd 0.8.7-1

1.204 curl 7.58.0-2ubuntu3.3

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

libcurl

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

OpenSSL

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

GnuTLS

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

WolfSSL

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BoringSSL

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

libressl

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

c-ares

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

zlib

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

MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

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libidn

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

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OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

1.205 xauth 1.0.10-1

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1.206 jsr305 1.3.7

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1.207 dpkg 1.19.0.5ubuntu2.1

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1.208 zstd 1.3.3+dfsg 2ubuntu1.1

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1.209 ubuntu-keyring 2018.09.18.1~18.04.0

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1.210 pam 1.1.8 3.6ubuntu2.18.04.1

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent

repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

```
=====
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}

+int display_legal(pam_handle_t *pamh)
+{
+ int retval = PAM_IGNORE, rc;
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+ PAM_MODUTIL_DEF_PRIVS(privs);
+
+ /* Get the password entry */
+ pwd = pam_modutil_getpwnam (pamh, user);
+ if (pwd != NULL)
+ {
+ if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+ pam_syslog(pamh, LOG_ERR,
+ "Unable to change UID to %d temporarily\n",
+ pwd->pw_uid);
+ retval = PAM_SESSION_ERR;
+ goto finished;
+ }
+
+ if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+ goto finished;
+ if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+ goto finished;
+
+ if (stat(flag, &s) != 0)
+ {
```

```

+     display_file(pamh, "/etc/legal");
+     mkdir(dir, 0700);
+     f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+             S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+     if (f>=0) close(f);
+     }
+
+finished:
+     if (pam_modutil_regain_priv(pamh, &privs)) {
+         pam_syslog(pamh, LOG_ERR,
+             "Unable to change UID back to %d\n", privs.old_uid);
+         retval = PAM_SESSION_ERR;
+     }
+
+     _pam_drop(flag);
+     _pam_drop(dir);
+     }
+ }
+ return retval;
+}
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+
    return retval;
}

```

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on
Wed, 23 Sep 1998 20:29:32 +0200.

It was downloaded from <ftp://ftp.kernel.org/pub/linux/libs/pam/pre/>

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1.211 bcel 5.2

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@end macro
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@macro copyrightend{ }  
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@appendix Copyrights and Licenses
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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

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AES in libcrypto

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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1.216 libedit 3.1-20170329-1

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1.217 fdisk 2.31.1-0.4ubuntu3.5

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```
x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...
```

```
;9GimCN7g
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~
```

```
!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
```

WEV[B "1

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```

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

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1.218 go-unsnap-stream master

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1.219 spring-context 5.0.2

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1.220 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.1

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/* CMU libsasl

* Tim Martin

* Rob Earhart

* Rob Siemborski

*/

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1.227 jaxb-core 2.2.11

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1.229 xorg 7.7+19ubuntu7.1

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1.230 libxmu 1.1.2-2

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the ``copyright" line and a pointer to where the full notice is found.

@smallexample

@var{one line to give the program's name and a brief idea of what it does.}
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@smallexample

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@example

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

@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice
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special circumstances.

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

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

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@enumerate 0

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

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@item

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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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@item

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@item

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

@item

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@item

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@item

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page

@subheading How to Apply These Terms to Your New Libraries

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

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@end smallexample

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```
@smallexample
```

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

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

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

```
@end smallexample
```

That's all there is to it!

The libasprintf package is under the LGPL, see file COPYING.LIB.

1.233 cdebconf 0.213ubuntu1

1.233.1 Available under license :

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CDebianConf includes ideas and code from:

debconf - The original, de facto, perl implementation

(c) Joey Hess <joeyh@debian.org>

apt - The Debian Advanced Package Tool

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1.234 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.1

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

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1.237 ubuntu-keyring 2018.02.28

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1.238 kisielk-gotool v1.0.0

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1.239 iconv 2.27 3ubuntu1

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1.240 spring-beans 5.2.2

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1.241 sjsxp 1.0.2

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1.242 shadow 4.5 1ubuntu2

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1.243 pcre 8.39 9

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Written by: Philip Hazel
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1.244 libffi 3.2.1 8

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1.245 open-ssl 1.1.1 1ubuntu2.1~18.04.4

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```
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```

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```
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```

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

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1.246 systemd 237-3ubuntu10.25

1.246.1 Available under license :

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```

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

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

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

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1.248 commons-codec 1.6

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1.251 base-passwd 3.5.44

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Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*

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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and Bruce Perens <bruce@pixar.com>.

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```
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1.264 fonts-dejavu 2.37 1

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1.266 attr 2.4.47 2build1

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1.270 libpng 1.6.35

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`pnm2png / png2pnm --- conversion from PBM/PGM/PPM-file to PNG-file`

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

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

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

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

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

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

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

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

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

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

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1.273 libxcb 1.13 2~ubuntu18.04

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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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- 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

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1.275 systemd 237-3ubuntu10.3

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From: Michael Biebl <biebl@debian.org>
Date: Sun, 17 Dec 2017 00:31:20 +0100
Subject: Revert "udev-rules: Permission changes for /dev/dri/renderD*"

This would introduce a new system group "render". As the name is rather generic, this needs further discussion first, so revert this change for now.

This reverts commit 4e15a7343cb389e97f3eb4f49699161862d8b8b2.

```
meson.build          | 2 --  
meson_options.txt    | 2 --  
rules/50-udev-default.rules.in | 5 +----  
src/login/70-uaccess.rules | 2 +-  
4 files changed, 2 insertions(+), 9 deletions(-)
```

```
diff --git a/meson.build b/meson.build  
index c734561..b9e59ec 100644  
--- a/meson.build  
+++ b/meson.build  
@@ -753,7 +753,6 @@ if get_option('wheel-group')  
endif
```



```

substs.set('DEV_KVM_MODE', get_option('dev-kvm-mode'))
-substs.set('GROUP_RENDER_MODE', get_option('group-render-mode'))

kill_user_processes = get_option('default-kill-user-processes')
conf.set10('KILL_USER_PROCESSES', kill_user_processes)
@@ -2741,7 +2740,6 @@ status = [
    'minimum container UID base:    @0@'.format(container_uid_base_min),
    'maximum container UID base:    @0@'.format(container_uid_base_max),
    '/dev/kvm access mode:          @0@'.format(get_option('dev-kvm-mode')),
-   'render group access mode:      @0@'.format(get_option('group-render-mode')),
    'certificate root directory:    @0@'.format(get_option('certificate-root')),
    'support URL:                   @0@'.format(support_url),
    'nobody user name:              @0@'.format(nobody_user),
diff --git a/meson_options.txt b/meson_options.txt
index 39822d6..b1d035f 100644
--- a/meson_options.txt
+++ b/meson_options.txt
@@ -177,8 +177,6 @@ option('nobody-group', type : 'string',
    value : 'nobody')
option('dev-kvm-mode', type : 'string', value : '0666',
    description : '/dev/kvm access mode')
-option('group-render-mode', type : 'string', value : '0666',
-   description : 'Access mode for devices owned by render group (e.g. /dev/dri/renderD*, /dev/kfd).')
option('default-kill-user-processes', type : 'boolean',
    description : 'the default value for KillUserProcesses= setting')
option('gshadow', type : 'boolean',
diff --git a/rules/50-udev-default.rules.in b/rules/50-udev-default.rules.in
index bd4c215..549a4f0 100644
--- a/rules/50-udev-default.rules.in
+++ b/rules/50-udev-default.rules.in
@@ -31,14 +31,11 @@ SUBSYSTEM=="input", KERNEL=="js[0-9]*", MODE="0664"

SUBSYSTEM=="video4linux", GROUP="video"
SUBSYSTEM=="graphics", GROUP="video"
-SUBSYSTEM=="drm", KERNEL!="renderD*", GROUP="video"
+SUBSYSTEM=="drm", GROUP="video"
SUBSYSTEM=="dvb", GROUP="video"
SUBSYSTEM=="media", GROUP="video"
SUBSYSTEM=="cec", GROUP="video"

-SUBSYSTEM=="drm", KERNEL=="renderD*", GROUP="render", MODE="@GROUP_RENDER_MODE@"
-SUBSYSTEM=="kfd", GROUP="render", MODE="@GROUP_RENDER_MODE@"
-
SUBSYSTEM=="sound", GROUP="audio", \
    OPTIONS+="static_node=snd/seq", OPTIONS+="static_node=snd/timer"

diff --git a/src/login/70-uaccess.rules b/src/login/70-uaccess.rules
index f2c838f..f3a2e66 100644

```

```
--- a/src/login/70-uaccess.rules
+++ b/src/login/70-uaccess.rules
@@ -45,7 +45,7 @@ SUBSYSTEM=="firewire", ATTR{units}=="*0x00a02d:0x010001*", TAG+="uaccess"
SUBSYSTEM=="firewire", ATTR{units}=="*0x00a02d:0x014001*", TAG+="uaccess"
```

DRI video devices

```
-SUBSYSTEM=="drm", KERNEL=="card*", TAG+="uaccess"
+SUBSYSTEM=="drm", KERNEL=="card*|renderD*", TAG+="uaccess"
```

smart-card readers

```
ENV{ID_SMARTCARD_READER}=="?*", TAG+="uaccess"
Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
Upstream-Name: systemd
Upstream-Contact: systemd-devel@lists.freedesktop.org
Source: https://www.freedesktop.org/wiki/Software/systemd/
```

Files: debian/*

```
Copyright: 2010-2013 Tollef Fog Heen <tfheen@debian.org>
          2013-2015 Michael Biebl <biebl@debian.org>
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```

Files: *

```
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src/basic/siphash24.c

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Files: src/journal/lookup3.c

src/journal/lookup3.h

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Files: src/udev/udev-ctrl.c
src/udev/udevadm-hwdb.c
src/udev/udev-builtin.c
src/udev/udev-builtin-net_id.c
src/udev/udev-builtin-net_setup_link.c
src/udev/udev-builtin-hwdb.c
src/udev/udev-builtin-btrfs.c
src/udev/udev-builtin-keyboard.c
src/udev/net/link-config.h
src/udev/net/link-config.c
src/udev/net/ethtool-util.c
src/udev/net/ethtool-util.h

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1.276 libpcap 1.8.1 6ubuntu1

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1.277 systemd 237 3ubuntu10.33

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```
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```

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1.281 netbase 5.4

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It is currently maintained by Marco d'Itri md@linux.it.

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1.282 kerberos 1.16 2ubuntu0.1

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```
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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <title>Copyright &#8212; MIT Kerberos Documentation</title>
  <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT: './',
      VERSION: '1.17',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE: true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
  <script type="text/javascript" src="_static/doctools.js"></script>
  <link rel="author" title="About these documents" href="about.html" />
  <link rel="index" title="Index" href="genindex.html" />
  <link rel="search" title="Search" href="search.html" />
  <link rel="copyright" title="Copyright" href="#" />
  <link rel="next" title="How to build this documentation from the source" href="build_this.html" />
  <link rel="prev" title="MIT Kerberos License information" href="mitK5license.html" />
</head>
<body>
  <div class="header-wrapper">
    <div class="header">

      <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

      <div class="rel">

        <a href="index.html" title="Full Table of Contents">
```

```

    accesskey="C">Contents</a> |
<a href="mitK5license.html" title="MIT Kerberos License information"
    accesskey="P">previous</a> |
<a href="build_this.html" title="How to build this documentation from the source"
    accesskey="N">next</a> |
<a href="genindex.html" title="General Index"
    accesskey="I">index</a> |
<a href="search.html" title="Enter search criteria"
    accesskey="S">Search</a> |
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
    </div>
</div>
</div>

<div class="content-wrapper">
<div class="content">
<div class="document">

<div class="documentwrapper">
<div class="bodywrapper">
<div class="body" role="main">

<div class="section" id="copyright">
<h1>Copyright<a class="headerlink" href="#copyright" title="Permalink to this headline"></a></h1>
<p>Copyright 1985-2019 by the Massachusetts Institute of
Technology and its contributors. All rights reserved.</p>
<p>See <a class="reference internal" href="mitK5license.html#mitk5license"><span class="std std-ref">MIT
Kerberos License information</span></a> for additional copyright and license
information.</p>
</div>

</div>
</div>
</div>
</div>
<div class="sidebar">
<h2>On this page</h2>
<ul>
<li><a class="reference internal" href="#">Copyright</a></li>
</ul>

<br/>
<h2>Table of contents</h2>
<ul>
<li class="toctree-l1"><a class="reference internal" href="user/index.html">For users</a></li>
<li class="toctree-l1"><a class="reference internal" href="admin/index.html">For administrators</a></li>
<li class="toctree-l1"><a class="reference internal" href="appdev/index.html">For application developers</a></li>

```

```
<li class="toctree-l1"><a class="reference internal" href="plugindev/index.html">For plugin module
developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="build/index.html">Building Kerberos V5</a></li>
<li class="toctree-l1"><a class="reference internal" href="basic/index.html">Kerberos V5 concepts</a></li>
<li class="toctree-l1"><a class="reference internal" href="formats/index.html">Protocols and file formats</a></li>
<li class="toctree-l1"><a class="reference internal" href="mitK5features.html">MIT Kerberos features</a></li>
<li class="toctree-l1"><a class="reference internal" href="build_this.html">How to build this documentation from
the source</a></li>
<li class="toctree-l1"><a class="reference internal" href="about.html">Contributing to the MIT Kerberos
Documentation</a></li>
<li class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
</ul>
```

```
<br/>
```

```
<h4><a href="index.html">Full Table of Contents</a></h4>
```

```
<h4>Search</h4>
```

```
<form class="search" action="search.html" method="get">
  <input type="text" name="q" size="18" />
  <input type="submit" value="Go" />
  <input type="hidden" name="check_keywords" value="yes" />
  <input type="hidden" name="area" value="default" />
</form>
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<div class="clearer"></div>
```

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</div>
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</div>
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<div class="footer-wrapper">
```

```
<div class="footer" >
```

```
<div class="right" ><i>Release: 1.17</i><br />
```

```
&copy; <a href="#">Copyright</a> 1985-2019, MIT.
```

```
</div>
```

```
<div class="left">
```

```
<a href="index.html" title="Full Table of Contents"
```

```
>Contents</a> |
```

```
<a href="mitK5license.html" title="MIT Kerberos License information"
```

```
>previous</a> |
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```
<a href="build_this.html" title="How to build this documentation from the source"
```

```
>next</a> |
```

```
<a href="genindex.html" title="General Index"
```

```
>index</a> |
```

```
<a href="search.html" title="Enter search criteria"
```

```
>Search</a> |
```

```
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
```

```
</div>
```

```
</div>
```

```
</div>
```

</body>

</html>

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c

lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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.. parsed-literal::

- lib/gssapi/generic/gssapi_err_generic.et
- lib/gssapi/mechglue/g_accept_sec_context.c
- lib/gssapi/mechglue/g_acquire_cred.c
- lib/gssapi/mechglue/g_canon_name.c
- lib/gssapi/mechglue/g_compare_name.c
- lib/gssapi/mechglue/g_context_time.c
- lib/gssapi/mechglue/g_delete_sec_context.c
- lib/gssapi/mechglue/g_dsp_name.c
- lib/gssapi/mechglue/g_dsp_status.c
- lib/gssapi/mechglue/g_dup_name.c
- lib/gssapi/mechglue/g_exp_sec_context.c
- lib/gssapi/mechglue/g_export_name.c
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- lib/gssapi/mechglue/g_process_context.c
- lib/gssapi/mechglue/g_rel_buffer.c
- lib/gssapi/mechglue/g_rel_cred.c

lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
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lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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.. parsed-literal::

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
```

```
<title>MIT Kerberos License information &#8212; MIT Kerberos Documentation</title>
```

```
<link rel="stylesheet" href="_static/agogo.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/pygments.css" type="text/css" />
```

```
<link rel="stylesheet" href="_static/kerb.css" type="text/css" />
```

```
<script type="text/javascript">
```

```
var DOCUMENTATION_OPTIONS = {
```

```
    URL_ROOT: '.',
```

```
    VERSION: '1.17',
```

```
    COLLAPSE_INDEX: false,
```

```
    FILE_SUFFIX: '.html',
```

```
    HAS_SOURCE: true,
```

```
    SOURCELINK_SUFFIX: '.txt'
```

```
};
```

```
</script>
```

```
<script type="text/javascript" src="_static/jquery.js"></script>
```

```
<script type="text/javascript" src="_static/underscore.js"></script>
```

```
<script type="text/javascript" src="_static/doctools.js"></script>
```

```
<link rel="author" title="About these documents" href="about.html" />
```

```
<link rel="index" title="Index" href="genindex.html" />
```

```
<link rel="search" title="Search" href="search.html" />
```

```
<link rel="copyright" title="Copyright" href="copyright.html" />
```

```
<link rel="next" title="Copyright" href="copyright.html" />
```

```
<link rel="prev" title="MIT Kerberos features" href="mitK5features.html" />
```

```
</head>
```

```
<body>
```

```
<div class="header-wrapper">
```

```
<div class="header">
```

```
<h1><a href="index.html">MIT Kerberos Documentation</a></h1>
```

```
<div class="rel">
```

```
<a href="index.html" title="Full Table of Contents"
```

```
    accesskey="C">Contents</a> |
```

```
<a href="mitK5features.html" title="MIT Kerberos features"
```

```
    accesskey="P">previous</a> |
```

```
<a href="copyright.html" title="Copyright"
```

```
    accesskey="N">next</a> |
```

```
<a href="genindex.html" title="General Index"
```

```
    accesskey="I">index</a> |
```



```
<a href="search.html" title="Enter search criteria"
  accesskey="S">Search</a> |
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
</div>
</div>
</div>

<div class="content-wrapper">
<div class="content">
<div class="document">

<div class="documentwrapper">
<div class="bodywrapper">
<div class="body" role="main">

<div class="section" id="mit-kerberos-license-information">
<span id="mitk5license"></span><h1>MIT Kerberos License information<a class="headerlink" href="#mit-
kerberos-license-information" title="Permalink to this headline"></a></h1>
<div class="toctree-wrapper compound">
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<div class="highlight-default"><div class="highlight"><pre>lib<span

class="o">gssapi<span

class="n">genericgssapi_err_generic<span

class="o">et

libgssapi<span

class="o">mechglue<span

class="n">g_accept_sec_contextc

libgssapi<span

class="o">mechglue<span

class="n">g_acquire_credc

libgssapi<span

class="o">mechglue<span

class="n">g_canon_namec

libgssapi<span

class="o">mechglue<span

class="n">g_compare_namec

libgssapi<span

class="o">mechglue<span

class="n">g_context_timec

libgssapi<span

class="o">mechglue<span

class="n">g_delete_sec_contextc

libgssapi<span

class="o">mechglue<span

class="n">g_dsp_namec

libgssapi<span

class="o">mechglue<span

class="n">g_dsp_statusc

libgssapi<span

class="o">mechglue<span

class="n">g_dup_namec

libgssapi<span

class="o">mechglue<span


```
class="o"/></span><span class="n">error_tables</span><span class="o"/></span><span
class="n">kdb5_err</span><span class="o">.</span><span class="n">et</span>
<span class="n">kprop</span><span class="o"/></span><span class="n">kpropd_rpc</span><span
class="o">.</span><span class="n">c</span>
<span class="n">kprop</span><span class="o"/></span><span class="n">kproplog</span><span
class="o">.</span><span class="n">c</span>
```

```
</pre></div>
```

```
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```

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```
src/plugins/preauth/spake/edwards25519.c
```

 and

```
src/plugins/preauth/spake/edwards25519_tables.h
```

```
:</pre>
```

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  <input type="text" name="q" size="18" />
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  <input type="hidden" name="check_keywords" value="yes" />
  <input type="hidden" name="area" value="default" />
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      <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__MIT Kerberos License
information">feedback</a>
    </div>
  </div>
</div>

</body>
</html>
/* -*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil -*- */
/*

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cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech_gssapiP_spnego.h
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lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
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uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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import sys

import re

def warn(fname, ln, msg):

print '%s: %d: %s' % (fname, ln + 1, msg)


```

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
            if text_seen:
                warn(fname, ln, 'License begins after first line of comment')
            elif code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
        # DB2 licenses start with '/*-' and we don't want to change them.
        if line != " and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^* ([^ ]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'^*.*?\*/', "", line)
        line = line.strip()

        if not in_comment and '/*-' in line:
            (line, sep, comment_part) = line.partition('/*-')

```

```

    comment = [comment_part.strip()]
    comment_starts_at = ln
    in_comment = True
elif in_comment and '*' not in line:
    comment.append(line.lstrip('*').rstrip())
elif in_comment:
    (comment_part, sep, line) = line.partition('/')
    comment.append(comment_part.strip())
    is_license = check_comment(comment, fname, comment_starts_at,
                               code_seen, nonlicense_seen)
    nonlicense_seen = nonlicense_seen or not is_license
    in_comment = False
elif line.strip() != "":
    code_seen = True

ln += 1

```

```

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

```

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1.283 base-files 10.1ubuntu2.3

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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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at assemblers) written by James Hacker.
```

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

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Version 1.1

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1.285 grep 3.1 2build1

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1.286 tcp-dump 4.9.2 3

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To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

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- * Subject: Re: OpenLDAP Licenseing issues

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* Date: Wed, 28 May 2003 10:55:44 -0700
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* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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1.290 error-prone-annotations 2.1.3

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</component>

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1.291 j2objc-annotations 1.1

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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 strings/apr_sprintf.c:

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* file name: UBiDiProps.java
* encoding: US-ASCII

* tab size: 8 (not used)
* indentation:4
*
* created on: 2005jan16
* created by: Markus W. Scherer
*
* Low-level Unicode bidi/shaping properties access.
* Java port of ubidi_props.h/c.

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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by `char32At()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the bold font" has range (4, 8) replaced with "strong", then it becomes "the strong font".

<p><code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset `start..limit-1`. That is, the start offset is inclusive, and the limit offset is exclusive.

<p><code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

<p>For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

Set the metadata of the new text to the metadata of the first

- character replaced
- If no characters are replaced, use the metadata of the previous character
- If there is no previous character (i.e. start == 0), use the following character
- If there is no following character (i.e. the replaceable was empty), use default metadata

- If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p>Note: This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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*/
```

```
package java.security;
```

```
import java.io.Serializable;
```

```
/**
```

```
 * Legacy security code; do not use.
```

```
*/
```

```
public abstract class Permission implements Guard, Serializable {  
    public Permission(String name) { }
```

```
    public final String getName() { return null; }
```

```
public void checkGuard(Object obj) throws SecurityException { }

public PermissionCollection newPermissionCollection() {
    return new AllPermissionCollection();
}

public abstract String getActions();

public abstract boolean implies(Permission permission);
}
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```

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1.292 giflib 5.2.1

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1.293 golang-snappy v0.0.1

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1.294 gcc 8.2.0 1ubuntu2~18.04

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@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
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@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
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@item

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@item

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give

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@item

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

@item

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

@item

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```
@smallexample
@var{one line to give the program's name and a brief idea of what it does.}
Copyright (C) @var{year} @var{name of author}
```

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@end smallexample

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

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample
```

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@c man end

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>License</title><meta name="generator" content="DocBook XSL Stylesheets Vsnapshot"
/><meta name="keywords" content="ISO C++, library" /><meta name="keywords" content="ISO C++, runtime,
library" /><link rel="home" href=" ../index.html" title="The GNU C++ Library" /><link rel="up" href="status.html"
title="Chapter1.Status" /><link rel="prev" href="status.html" title="Chapter1.Status" /><link rel="next"
href="bugs.html" title="Bugs" /></head><body><div class="navheader"><table width="100%"
summary="Navigation header"><tr><th colspan="3" align="center">License</th></tr><tr><td width="20%"
align="left"><a accesskey="p" href="status.html">Prev</a></td><th width="60%"
align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n"
href="bugs.html">Next</a></td></tr></table><hr /></div><div class="section"><div
class="titlepage"><div><div><h2 class="title" style="clear: both"><a
id="manual.intro.status.license"></a>License</h2></div></div></div><p>
```

There are two licenses affecting GNU libstdc++: one for the code,
and one for the documentation.

</p><p>

There is a license section in the FAQ regarding common [questions](../faq.html#faq.license). If you have more
questions, ask the FSF or the [gcc mailing list](http://gcc.gnu.org/lists.html).

</p><div class="section"><div class="titlepage"><div><div><h3 class="title">The Code: GPL</h3></div></div></div><p>

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</p><div class="literallayout"><p>

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</p></div><div class="section"><div class="titlepage"><div><div><h3 class="title">The Documentation: GPL, FDL</h3></div></div></div><p>

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Version 2, June 1991

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</simpara>

<bridgehead xml:id="fdl-1-addendum" renderas="sect2">

ADDENDUM: How to use this License for your documents

</bridgehead>

<simpara>

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</simpara>

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<simpara>

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</simpara>

<screen>with the Invariant Sections being LIST THEIR TITLES, with the Front-Cover Texts being LIST, and with the Back-Cover Texts being LIST.</screen>

<simpara>

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

</simpara>

<simpara>

If your document contains nontrivial examples of program code, we recommend releasing these examples in parallel under your choice of free software license, such as the GNU General Public License, to permit their use in free software.

</simpara>

</appendix>

/* Definitions for BSD assembler syntax for Intel 386

(actually AT&T syntax for insns and operands,
adapted to BSD conventions for symbol names and debugging.)

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This file is part of GCC.

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GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with GCC; see the file COPYING3. If not see <<http://www.gnu.org/licenses/>>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler labels. If we aren't using underscores, we are using prefix `.'s to identify labels that should be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

#define ASM_BYTE "\t.byte\t"

#define ASM_SHORT "\t.word\t"

#define ASM_LONG "\t.long\t"

#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS

#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

/* Define the syntax of labels and symbol definitions/declarations. */

/* This is how to output an assembler line that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \n\nfprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \n\n(fputs (".comm ", (FILE)), \n\nassemble_name ((FILE), (NAME)), \n\nfprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line to define a local common symbol. */

```

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
(fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
(fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
sprintf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
<appendix xmlns="http://docbook.org/ns/docbook" version="5.0"
xml:id="appendix.gpl-3.0"><info><title>
<acronym>GNU</acronym> General Public License version 3
</title></info>
<?dbhtml filename="appendix_gpl.html"?>

<para>
Version 3, 29 June 2007
</para>
<para>
Copyright 2007 Free Software Foundation, Inc.
<link xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://www.fsf.org/">http://www.fsf.org/</link>

```

</para>

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<bridgehead xml:id="gpl-3-preamble" renderas="sect1">

Preamble

</bridgehead>

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<para>

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<para>

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</para>

<para>

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

</para>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

<bridgehead xml:id="gpl-3-definitions" renderas="sect1">

0. Definitions.

</bridgehead>

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</para>

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</para>

<para>

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</para>

<para>

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</para>

<para>

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

</para>

<para>

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</para>

<bridgehead xml:id="SourceCode" renderas="sect1">

1. Source Code.

</bridgehead>

<para>

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

</para>

<para>

A Standard Interface means an interface that either is an

official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

</para>

<para>

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

</para>

<para>

The Corresponding Source for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the works System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

</para>

<para>

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

</para>

<para>

The Corresponding Source for a work in source code form is that same work.

</para>

<bridgehead xml:id="BasicPermissions" renderas="sect1">

2. Basic Permissions.

</bridgehead>

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<para>

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</para>

<bridgehead xml:id="Protecting" renderas="sect1">

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</bridgehead>

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</para>

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</para>

<bridgehead xml:id="ConveyingVerbatim" renderas="sect1">

4. Conveying Verbatim Copies.

</bridgehead>

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</para>

```
<para>
  You may charge any price or no price for each copy that you convey, and you
  may offer support or warranty protection for a fee.
</para>
<bridgehead xml:id="ConveyingModified" renderas="sect1">
  5. Conveying Modified Source Versions.
</bridgehead>
<para>
  You may convey a work based on the Program, or the modifications to produce
  it from the Program, in the form of source code under the terms of section
  4, provided that you also meet all of these conditions:
</para>
<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">
  <listitem>
    <para>
      The work must carry prominent notices stating that you modified it, and
      giving a relevant date.
    </para>
  </listitem>
  <listitem>
    <para>
      The work must carry prominent notices stating that it is released under
      this License and any conditions added under section 7. This requirement
      modifies the requirement in section 4 to keep intact all
      notices.
    </para>
  </listitem>
  <listitem>
    <para>
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    </para>
  </listitem>
  <listitem>
    <para>
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      Appropriate Legal Notices; however, if the Program has interactive
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      not make them do so.
    </para>
  </listitem>
</orderedlist>
<para>
```

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<bridgehead xml:id="ConveyingNonSource" renderas="sect1">

6. Conveying Non-Source Forms.

</bridgehead>

<para>

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

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

</orderedlist>

<para>

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

</para>

<para>

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</para>

<para>

Installation Information for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a

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</para>

<para>

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in <acronym>ROM</acronym>).

</para>

<para>

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</para>

<para>

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

</para>

<bridgehead xml:id="AdditionalTerms" renderas="sect1">

7. Additional Terms.

</bridgehead>

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<listitem>

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</listitem>

<listitem>

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<listitem>

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<para>

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<bridgehead xml:id="gpl-3-termination" renderas="sect1">

8. Termination.

</bridgehead>

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<para>

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</para>

<bridgehead xml:id="AcceptanceNotRequired" renderas="sect1">

9. Acceptance Not Required for Having Copies.

</bridgehead>

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</para>

<bridgehead xml:id="AutomaticDownstream" renderas="sect1">

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</bridgehead>

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</para>

<bridgehead xml:id="Patents" renderas="sect1">

11. Patents.

</bridgehead>

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found.
</para>
<screen>
<replaceable>one line to give the programs name and a brief idea of what it does.</replaceable>
Copyright (C) <replaceable>year</replaceable> <replaceable>name of author</replaceable>

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</screen>

<para>

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

</para>

<para>

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

</para>

<screen>

<replaceable>program</replaceable> Copyright (C) <replaceable>year</replaceable> <replaceable>name of author</replaceable>

This program comes with ABSOLUTELY NO WARRANTY; for details type <literal>show w</literal>. This is free software, and you are welcome to redistribute it under certain conditions; type <literal>show c</literal> for details.

</screen>

<para>

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</para>

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</para>

</appendix>

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Version 2.1, February 1999

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

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

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

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

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

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"Source code" for a work means the preferred form of the work for

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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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.

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

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

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

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during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally

accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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<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!

```
.\" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
```

```
.\"
```

```
.\" Standard preamble:
```

```
.\" =====
```

```
.de Sp \" Vertical space (when we can't use .PP)
```

```
.if t .sp .5v
```

```
.if n .sp
```

```
..
```

```
.de Vb \" Begin verbatim text
```

```
.ft CW
```

```
.nf
```

```
.ne \\$1
```

```
..
```

```
.de Ve \" End verbatim text
```

```
.ft R
```

```
.fi
```

```
..
```

```
.\" Set up some character translations and predefined strings. \*(- will
```

```

.\" give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
.\" double quote, and \*(R" will give a right double quote. \*(C+ will
.\" give a nicer C++. Capital omega is used to do unbreakable dashes and
.\" therefore won't be available. \*(C` and \*(C' expand to ` in nroff,
.\" nothing in troff, for use with C<>.
.tr \(*W-
.ds C+ C\v'-.1v'h'-1p's-2+\h'-1p'+\s0\v'.1v'h'-1p'
.ie n \{\
. ds -- \(*W-
. ds PI pi
. if (\n(.H=4u)&(1m=24u) .ds -- \(*W\h'-12u\(*W\h'-12u'-\ " diablo 10 pitch
. if (\n(.H=4u)&(1m=20u) .ds -- \(*W\h'-12u\(*W\h'-8u'-\ " diablo 12 pitch
. ds L" ""
. ds R" ""
. ds C` ""
. ds C' ""
'br\}
.el\{\
. ds -- \\\(em\
. ds PI \(*p
. ds L" ``
. ds R" "
. ds C`
. ds C'
'br\}
.\"
.\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \(\aq
.el .ds Aq '
.\"
.\" If the F register is >0, we'll generate index entries on stderr for
.\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
.\" entries marked with X<> in POD. Of course, you'll have to process the
.\" output yourself in some meaningful fashion.
.\"
.\" Avoid warning from groff about undefined register 'F'.
.de IX
..
.if !\nF .nr F 0
.if \nF>0 \{\
. de IX
. tm Index:\$1\t\n%t"\$2"
..
. if !\nF==2 \{\
. nr % 0
. nr F 2
. \}
.\}

```

```

.\"
.\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.\" Fear. Run. Save yourself. No user-serviceable parts.
. \" fudge factors for nroff and troff
.if n {\
. ds #H 0
. ds #V .8m
. ds #F .3m
. ds #[ \f1
. ds #] \fP
.\}
.if t {\
. ds #H ((1u-(\\n(.fu%2u))*13m)
. ds #V .6m
. ds #F 0
. ds #[ \&
. ds #] \&
.\}
. \" simple accents for nroff and troff
.if n {\
. ds ' \&
. ds ` \&
. ds ^ \&
. ds , \&
. ds ~ ~
. ds /
.\}
.if t {\
. ds '\k:\h'-(\n(.wu*8/10-\*(#H)^\h''\n:u'
. ds ` \k:\h'-(\n(.wu*8/10-\*(#H)^\h''\n:u'
. ds ^ \k:\h'-(\n(.wu*10/11-\*(#H)^\h''\n:u'
. ds , \k:\h'-(\n(.wu*8/10),\h''\n:u'
. ds ~ \k:\h'-(\n(.wu-\*(#H-.1m)~\h''\n:u'
. ds / \k:\h'-(\n(.wu*8/10-\*(#H)\z(\slh''\n:u'
.\}
. \" troff and (daisy-wheel) nroff accents
.ds : \k:\h'-(\n(.wu*8/10-\*(#H+.1m+\*(#F)\v'-\*(#V)\z.\h'.2m+\*(#F'.\h''\n:u'\v'\*(#V'
.ds 8 \h''\*(#H)\(*b\h'-\*(#H'
.ds o \k:\h'-(\n(.wu+\w'(de'u-\*(#H)/2u'\v'-.3n''\*(#[z(\de\v'.3n'h''\n:u''\*(#)
.ds d- \h''\*(#H)\(pd\h'-\w'~'u'\v'-.25m'\f2(\hy\fP\v'.25m'\h'-\*(#H'
.ds D- D\k:\h'-\w'D'u'\v'-.11m'\z(\hy\v'.11m'\h''\n:u'
.ds th \*(#[[v'.3m\s+1I\s-1\v'-.3m'\h'-(\w'Tu*2/3)\s-1o\s+1\*(#)
.ds Th \*(#[[s+2I\s-2\h'-\w'Tu*3/5'\v'-.3m'o\v'.3m'\*(#)
.ds ae a\h'-(\w'a'u*4/10)'e
.ds Ae A\h'-(\w'A'u*4/10)'E
. \" corrections for vroff
.if v .ds ~ \k:\h'-(\n(.wu*9/10-\*(#H)\s-2\u~\d\s+2\h''\n:u'
.if v .ds ^ \k:\h'-(\n(.wu*10/11-\*(#H)\v'-.4m'^\v'.4m'\h''\n:u'

```

```

. \m for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
\{
. ds : e
. ds 8 ss
. ds o a
. ds d- d\h'-1'\(ga
. ds D- D\h'-1'\(hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae
. ds Ae AE
.\}
.rm #[ #] #H #V #F C
.\" =====
.\"
.IX Title "GPL 7"
.TH GPL 7 "2018-07-26" "gcc-8.2.0" "GNU"
.\" For nroff, turn off justification. Always turn off hyphenation; it makes
.\" way too many mistakes in technical documents.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
\& Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
\&
\& Everyone is permitted to copy and distribute verbatim copies of this
\& license document, but changing it is not allowed.
.Ve
.SS "Preamble"
.IX Subsection "Preamble"
The \s-1GNU\s0 General Public License is a free, copyleft license for
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to take away your freedom to share and change the works. By contrast,
the \s-1GNU\s0 General Public License is intended to guarantee your freedom
to share and change all versions of a program\*(-to make sure it remains
free software for all its users. We, the Free Software Foundation,
use the \s-1GNU\s0 General Public License for most of our software; it
applies also to any other work released this way by its authors. You

```

can apply it to your programs, too.

.PP

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.PP

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.PP

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.PP

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.PP

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the `\s-1GPL\s0`

assures that patents cannot be used to render the program non-free.

.PP

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

.SS "\s-1TERMS AND CONDITIONS\s0"

.IX Subsection "TERMS AND CONDITIONS"

.IP "0. Definitions." 4

.IX Item "0. Definitions."

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.Sp

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.Sp

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.Sp

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.Sp

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.Sp

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.Sp

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

.Sp

An interactive user interface displays *(L"Appropriate Legal Notices*(R" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

.IP "1. Source Code." 4

.IX Item "1. Source Code."

The *(L"source code*(R" for a work means the preferred form of the work for

making modifications to it. *(L"Object code*(R" means any non-source form of a work.

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

.Sp

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

.Sp

The *(L"Corresponding Source*(R" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

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The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

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The Corresponding Source for a work in source code form is that same work.

.IP "2. Basic Permissions." 4

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.IP "3. Protecting Users' Legal Rights From Anti-Circumvention Law." 4

.IX Item "3. Protecting Users' Legal Rights From Anti-Circumvention Law."

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.Sp

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.IX Item "4. Conveying Verbatim Copies."

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.IP "5. Conveying Modified Source Versions." 4

.IX Item "5. Conveying Modified Source Versions."

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

.RS 4

.IP "a." 4

.IX Item "a."

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

.IP "b." 4

.IX Item "b."

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to `*(L"keep intact all notices*(R"`.

.IP "c." 4

.IX Item "c."

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.IP "d." 4

.IX Item "d."

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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.RS 4

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an `\&*(L"aggregate*(R"` if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

.RE

.IP "6. Conveying Non-Source Forms." 4

.IX Item "6. Conveying Non-Source Forms."

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.RS 4

.IP "a." 4

.IX Item "a."

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the

Corresponding Source fixed on a durable physical medium customarily used for software interchange.

.IP "b." 4

.IX Item "b."

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

.IP "c." 4

.IX Item "c."

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

.IP "d." 4

.IX Item "d."

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

.IP "e." 4

.IX Item "e."

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

.RE

.RS 4

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A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

.Sp

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.Sp

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.RE

.IP "7. Additional Terms." 4

.IX Item "7. Additional Terms."

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.RS 4

.IP "a." 4

.IX Item "a."

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.IX Item "b."

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.IX Item "c."

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.RS 4

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.IP "8. Termination." 4

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.IP "14. Revised Versions of this License." 4

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.IP "15. Disclaimer of Warranty." 4

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.IP "17. Interpretation of Sections 15 and 16." 4

.IX Item "17. Interpretation of Sections 15 and 16."

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.SS "\s-1END OF TERMS AND CONDITIONS\s0"

.IX Subsection "END OF TERMS AND CONDITIONS"

.SS "How to Apply These Terms to Your New Programs"

.IX Subsection "How to Apply These Terms to Your New Programs"

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.PP

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.Vb 2

`\& <one line to give the program*(Aqs name and a brief idea of what it does.>`

`\& Copyright (C) <year> <name of author>`

`\&`

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.Ve

.PP

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

.PP

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

.PP

.Vb 4

`\& <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.`

.Ve

.PP

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.PP

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.SH "SEE ALSO"

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

```
-----  
#!/usr/bin/python  
#  
# Copyright (C) 2013-2018 Free Software Foundation, Inc.  
#  
# This script 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 3, or (at your option)  
# any later version.  
  
# This script adjusts the copyright notices at the top of source files  
# so that they have the form:  
#  
# Copyright XXXX-YYYY Free Software Foundation, Inc.  
#  
# It doesn't change code that is known to be maintained elsewhere or
```

```
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.
```

```
import os
import re
import sys
import time
import subprocess
```

```
class Errors:
```

```
    def __init__(self):
        self.num_errors = 0
```

```
    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
            sys.stderr.write(string + '\n')
            self.num_errors += 1
```

```
    def ok(self):
        return self.num_errors == 0
```

```
class GenericFilter:
```

```

def __init__(self):
    self.skip_files = set()
    self.skip_dirs = set()
    self.skip_extensions = set()
    self.fossilised_files = set()
    self.own_files = set()

    self.skip_files |= set ([
        # Skip licence files.
        'COPYING',
        'COPYING.LIB',
        'COPYING3',
        'COPYING3.LIB',
        'LICENSE',
        'fdl.texi',
        'gpl_v3.texi',
        'fdl-1.3.xml',
        'gpl-3.0.xml',

        # Skip auto- and libtool-related files
        'aclocal.m4',
        'compile',
        'config.guess',
        'config.sub',
        'depcomp',
        'install-sh',
        'libtool.m4',
        'ltmain.sh',
        'ltoptions.m4',
        'ltsugar.m4',
        'ltversion.m4',
        'lt~obsolete.m4',
        'missing',
        'mkdep',
        'mkinstalldirs',
        'move-if-change',
        'shlibpath.m4',
        'symlink-tree',
        'ylwrap',

        # Skip FSF mission statement, etc.
        'gnu.texi',
        'funding.texi',
        'appendix_free.xml',

        # Skip imported texinfo files.
        'texinfo.tex',
    ])

```

```

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
            return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):

```

```
return filename in self.own_files
```

```
class Copyright:
```

```
def __init__(self, errors):
```

```
    self.errors = errors
```

```
    # Characters in a range of years. Include '.' for typos.
```

```
    ranges = '[0-9](?:[-0-9.,\s]\\s+and\\s+)*[0-9]'
```

```
    # Non-whitespace characters in a copyright holder's name.
```

```
    name = '[\w.,-]'
```

```
    # Matches one year.
```

```
    self.year_re = re.compile('[0-9]+')
```

```
    # Matches part of a year or copyright holder.
```

```
    self.continuation_re = re.compile(ranges + '|' + name)
```

```
    # Matches a full copyright notice:
```

```
    self.copyright_re = re.compile (
```

```
        # 1: 'Copyright (C)', etc.
```

```
        '[Cc]opyright'
```

```
        '|[Cc]opyright\s+\([Cc]\)'
```

```
        '|[Cc]opyright\s+%s'
```

```
        '|[Cc]opyright\s+&copy;'
```

```
        '|[Cc]opyright\s+@copyright{ }'
```

```
        '|copyright = u\"'
```

```
        '|@set\s+copyright[\w-]+)'
```

```
    # 2: the years. Include the whitespace in the year, so that
```

```
    # we can remove any excess.
```

```
    '\s*(?:' + ranges + ',?'
```

```
    '@value\{[^\{]*\})\s*)'
```

```
    # 3: 'by ', if used
```

```
    '(by\s+)?'
```

```
    # 4: the copyright holder. Don't allow multiple consecutive
```

```
    # spaces, so that right-margin gloss doesn't get caught
```

```
    # (e.g. gnat_ugn.texi).
```

```
    '(' + name + '(?:\s? + name + ')*?)'
```

```
    # A regexp for notices that might have slipped by. Just matching
```

```
    # 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
```

```
    # HTML header markers, so check for 'copyright' and two digits.
```

```
    self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
```

```
        re.IGNORECASE)
```

```
    self.comment_re = re.compile('#+[*]+;+|%+//+|@c |dnl ')
```



```

self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find(' ')
    while index >= 0:
        self.holder_prefixes.add(holder[:index])
        index = holder.find(' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

```

```

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith('@value'):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != "":
            self.errors.report (pathname,
                                'trailing characters in @set: '
                                + after_years)

```

```

        return (False, orig_line, next_line)
else:
    # If it looks like the copyright is incomplete, add the next line.
    while not self.is_complete (match):
        try:
            next_line = file.next()
        except StopIteration:
            break

        # If the next line doesn't look like a proper continuation,
        # assume that what we've got is complete.
        continuation = self.strip_continuation (next_line)
        if not self.continuation_re.match (continuation):
            break

        # Merge the lines for matching purposes.
        orig_line += next_line
        line = line.rstrip() + ' ' + continuation
        next_line = None

        # Rematch with the longer line, at the original position.
        match = self.copyright_re.match (line, match.start())
        assert match

holder = match.group (4)

# Use the filter to test cases where markup is getting in the way.
if filter.by_package_author (dir, filename):
    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
                        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]

```

```

        + canon_form
        + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
        + (" if intro.startswith ('copyright = ') else ' ')
        + canon_form + self.separator
        + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith (('c')):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode

```

```

for line in file:
    while line:
        next_line = None
        # Leave filtered-out lines alone.
        if not (line_filter and line_filter.match (line)):
            match = self.copyright_re.search (line)
            if match:
                res = self.update_copyright (dir, filename, filter,
                                             file, line, match)
                (this_changed, line, next_line) = res
                changed = changed or this_changed

            # Check for copyright lines that might have slipped by.
            elif self.other_copyright_re.search (line):
                self.errors.report (pathname,
                                   'unrecognised copyright: %s'
                                   % line.strip())
            lines.append (line)
            line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
        os.fchmod (file.fileno(), mode)
    if self.use_quilt:
        subprocess.call (['quilt', 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):
            if filter.skip_dir (dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file (dir, filename):
                sys.stdout.write ('Skipping %s\n'
                                  % os.path.join (dir, filename))
            else:
                self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):

```

```

self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []

self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
                self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
                self.o_this_year)

def add_option (self, name, help, handler):
    self.option_help.append ((name, help))
    self.option_handlers[name] = handler

def add_dir (self, dir, filter = GenericFilter()):
    self.dirs.append ((dir, filter))

def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
                    'Options:\n' % sys.argv[0])
    format = '%-15s %s\n'
    for (what, help) in self.option_help:
        sys.stdout.write (format % (what, help))
    sys.stdout.write ('\nDirectories:\n')

    format = '%-25s'
    i = 0
    for (dir, filter) in self.dirs:
        i += 1
        if i % 3 == 0 or i == len (self.dirs):
            sys.stdout.write (dir + '\n')
        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':

```

```

        self.chosen_dirs.append (arg)
    elif arg in self.option_handlers:
        self.option_handlers[arg] (arg)
    else:
        self.errors.report (None, 'unrecognised option: ' + arg)
if self.errors.ok():
    if len (self.chosen_dirs) == 0:
        self.chosen_dirs = self.default_dirs
    if len (self.chosen_dirs) == 0:
        self.o_help()
    else:
        for chosen_dir in self.chosen_dirs:
            canon_dir = os.path.join (chosen_dir, "")
            count = 0
            for (dir, filter) in self.dirs:
                if (dir + os.sep).startswith (canon_dir):
                    count += 1
                    self.copyright.process_tree (dir, filter)
            if count == 0:
                self.errors.report (None, 'unrecognised directory: '
                                    + chosen_dir)
sys.exit (0 if self.errors.ok() else 1)

```

#-----

```

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
        return GenericFilter.skip_file (self, dir, filename)

```

```

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

```

```

        self.skip_files |= set ([
            # Not part of GCC

```

```

    'math-68881.h',
    ])

self.skip_dirs |= set ([
    # Better not create a merge nightmare for the GNAT folks.
    'ada',

    # Handled separately.
    'testsuite',
    ])

self.skip_extensions |= set ([
    # Maintained by the translation project.
    '.po',

    # Automatically-generated.
    '.pot',
    ])

self.fossilised_files |= set ([
    # Old news won't be updated.
    'ONEWS',
    ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    self.skip_extensions |= set ([
        # Don't change the tests, which could be woened by anyone.
        '.c',
        '.C',
        '.cc',
        '.h',
        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
        ])

    def skip_file (self, dir, filename):
        # g++.niklas/README contains historical copyright information
        # and isn't updated.
        if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
            return True
        # Similarly params/README.

```



```

    if filename == 'README' and os.path.basename (dir) == 'params':
        return True
    if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Contains no copyright of its own, but quotes the GPL.
            'intro.xml',
        ])

        self.skip_dirs |= set ([
            # Contains automatically-generated sources.
            'html',

            # The testsuite data files shouldn't be changed.
            'data',

            # Contains imported images
            'images',
        ])

        self.own_files |= set ([

```

```

        # Contains markup around the copyright owner.
        'spine.xml',
    ])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('//\((C\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')
        self.add_external_author ('Florida State University')
        self.add_external_author ('Greg Colvin and Beman Dawes.')
        self.add_external_author ('Hewlett-Packard Company')
        self.add_external_author ('Intel Corporation')
        self.add_external_author ('Information Technology Industry Council.')
        self.add_external_author ('James Theiler, Brian Gough')
        self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
        self.add_external_author ('National Research Council of Canada.')
        self.add_external_author ('NVIDIA Corporation')
        self.add_external_author ('Peter Dimov and Multi Media Ltd.')
        self.add_external_author ('Peter Dimov')
        self.add_external_author ('Pipeline Associates, Inc.')
        self.add_external_author ('Regents of the University of California.')
        self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
        self.add_external_author ('Silicon Graphics')
        self.add_external_author ('Stephen L. Moshier')
        self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Go Authors. All rights reserved.')
        self.add_external_author ('The Go Authors.')

```

```
self.add_external_author ('The Regents of the University of California.')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto.')
```

```
class GCCCmdLine (CmdLine):
```

```
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # Boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
        self.add_dir ('gcc', GCCFilter())
        self.add_dir (os.path.join ('gcc', 'testsuite'), TestSuiteFilter())
        self.add_dir ('gnattools')
        self.add_dir ('gotools')
        self.add_dir ('include')
        # intl is imported from upstream.
        self.add_dir ('libada')
        self.add_dir ('libatomic')
        self.add_dir ('libbacktrace')
        self.add_dir ('libcc1')
        self.add_dir ('libcpp', LibCppFilter())
        self.add_dir ('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir ('libgcc', LibGCCFilter())
        self.add_dir ('libgfortran')
        # libgo is imported from upstream.
        self.add_dir ('libgomp')
        self.add_dir ('libhsail-rt')
        self.add_dir ('libiberty')
        self.add_dir ('libitm')
        self.add_dir ('libobjc')
        # liboffloadmic is imported from upstream.
        self.add_dir ('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir ('libssp')
        self.add_dir ('libstdc++-v3', LibStdCxxFilter())
        self.add_dir ('libvtv')
        self.add_dir ('lto-plugin')
        # maintainer-scripts maintainer-scripts
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'include',
            'libada',
```

```
'libatomic',  
'libbacktrace',  
'libcc1',  
'libcpp',  
'libdecnumber',  
'libgcc',  
'libgfortran',  
'libgomp',  
'libhsail-rt',  
'libiberty',  
'libitm',  
'libobjc',  
'libssp',  
'libstdc++-v3',  
'libvtv',  
'lto-plugin',  
]
```

GCCcmdLine().main()

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Version 3, 29 June 2007

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1.295 slf4j 1.7.7

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1.296 init-system-helpers 1.51

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1.297 selinux 2.7-2build2

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Manoj Srivastava <srivasta@debian.org>
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

1.298 units master

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1.299 libgcrypto 1.8.1-4ubuntu1.2

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- cipher/sha256-avx2-bmi2-amd64.S
- cipher/sha256-ssse3-amd64.S
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- cipher/sha512-avx2-bmi2-amd64.S
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```

```
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Ty Coon, President of Vice
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1.300 apt 1.6.3ubuntu0.1

1.301 gcc 7.4.0-1ubuntu1~18.04

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

#!/usr/bin/python
#

```
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#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
# update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
```

```

def __init__(self):
    self.num_errors = 0

def report (self, filename, string):
    if filename:
        string = filename + ': ' + string
        sys.stderr.write (string + '\n')
        self.num_errors += 1

def ok (self):
    return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

        self.skip_files |= set ([
            # Skip licence files.
            'COPYING',
            'COPYING.LIB',
            'COPYING3',
            'COPYING3.LIB',
            'LICENSE',
            'fdl.texi',
            'gpl_v3.texi',
            'fdl-1.3.xml',
            'gpl-3.0.xml',

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
            'config.guess',
            'config.sub',
            'depcomp',
            'install-sh',
            'libtool.m4',
            'ltmain.sh',
            'ltoptions.m4',
            'ltsugar.m4',
            'ltversion.m4',
            'lt~obsolete.m4',
            'missing',
            'mkdep',
            'mkinstalldirs',

```

```

'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

# Skip FSF mission statement, etc.
'gnu.texi',
'funding.texi',
'appendix_free.xml',

# Skip imported texinfo files.
'texinfo.tex',
])

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

        # Skip files produced by autogen
        if (os.path.exists (base + '.def')
            and os.path.exists (base + '.tpl')):
            return True

    # Skip configure files produced by autoconf
    if filename == 'configure':
        if os.path.exists (base + '.ac'):
            return True
        if os.path.exists (base + '.in'):
            return True

    return False

```

```

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

    # Characters in a range of years. Include '.' for typos.
    ranges = '[0-9](?:[-0-9.,\s]|\s+and\s+)*[0-9]'

    # Non-whitespace characters in a copyright holder's name.
    name = '[\w.,-]'

    # Matches one year.
    self.year_re = re.compile ('[0-9]+')

    # Matches part of a year or copyright holder.
    self.continuation_re = re.compile (ranges + '|' + name)

    # Matches a full copyright notice:
    self.copyright_re = re.compile (
        # 1: 'Copyright (C)', etc.
        '([Cc]opyright'
        '|[Cc]opyright\s+\([Cc]\)'
        '|[Cc]opyright\s+%s'
        '|[Cc]opyright\s+&copy;'
        '|[Cc]opyright\s+@copyright{ }'
        '|copyright = u\''
        '|@set\s+copyright[\w-]+)'

        # 2: the years. Include the whitespace in the year, so that
        # we can remove any excess.
        '\s*(?:' + ranges + ',?'
        '|@value\{[\^{}]*\})\s*')

    # 3: 'by ', if used

```

```

'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
>(' + name + '(?:\s?' + name + ')*?')

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
                                     re.IGNORECASE)
self.comment_re = re.compile('#+[*]+;+|%+//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ' '

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

    def __str__ (self):
        return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:

```

```

        return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                 or holder in self.holders))

```

```

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != "":
            self.errors.report (pathname,
                                'trailing characters in @set: '
                                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match (line, match.start())
            assert match

        holder = match.group (4)

        # Use the filter to test cases where markup is getting in the way.
        if filter.by_package_author (dir, filename):
            assert holder not in self.holders

        elif not holder:
            self.errors.report (pathname, 'missing copyright holder')
            return (False, orig_line, next_line)

        elif holder not in self.holders:

```



```

self.errors.report (pathname,
                    'unrecognised copyright holder: ' + holder)
return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
           + canon_form
           + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
       + (" if intro.startswith ('copyright = ') else ' ')
       + canon_form + self.separator
       + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith (('c')):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.

```

```

try:
    os.remove (pathname)
except OSError:
    pass
return

lines = []
changed = False
line_filter = filter.get_line_filter (dir, filename)
mode = None
with open (pathname, 'r') as file:
    prev = None
    mode = os.fstat (file.fileno()).st_mode
    for line in file:
        while line:
            next_line = None
            # Leave filtered-out lines alone.
            if not (line_filter and line_filter.match (line)):
                match = self.copyright_re.search (line)
                if match:
                    res = self.update_copyright (dir, filename, filter,
                                                file, line, match)
                    (this_changed, line, next_line) = res
                    changed = changed or this_changed

                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                       'unrecognised copyright: %s'
                                       % line.strip())
            lines.append (line)
            line = next_line

# If something changed, write the new file out.
if changed and self.errors.ok():
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
        os.fchmod (file.fileno(), mode)
    if self.use_quilt:
        subprocess.call (['quilt', 'add', pathname])
    os.rename (tmp_pathname, pathname)

def process_tree (self, tree, filter):
    for (dir, subdirs, filenames) in os.walk (tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange (len (subdirs) - 1, -1, -1):

```

```

        if filter.skip_dir (dir, subdirs[i]):
            del subdirs[i]

    # Handle the files in this directory.
    for filename in filenames:
        if filter.skip_file (dir, filename):
            sys.stdout.write ('Skipping %s\n'
                             % os.path.join (dir, filename))
        else:
            self.process_file (dir, filename, filter)

class CmdLine:
    def __init__ (self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright (self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option ('--help', 'Print this help', self.o_help)
        self.add_option ('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option ('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option (self, name, help, handler):
        self.option_help.append ((name, help))
        self.option_handlers[name] = handler

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))

    def o_help (self, option = None):
        sys.stdout.write ('Usage: %s [options] dir1 dir2...\n\n'
                          'Options:\n' % sys.argv[0])
        format = '%-15s %s\n'
        for (what, help) in self.option_help:
            sys.stdout.write (format % (what, help))
        sys.stdout.write ('\nDirectories:\n')

        format = '%-25s'
        i = 0
        for (dir, filter) in self.dirs:
            i += 1
            if i % 3 == 0 or i == len (self.dirs):
                sys.stdout.write (dir + '\n')

```

```

        else:
            sys.stdout.write (format % dir)
    sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[:1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, "")
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: '
                                         + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

#-----

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):

```

```

    pathname = os.path.join (dir, filename)
    with open (pathname) as file:
        # Skip files imported from gettext.
        if file.readline().find ('gettext-') >= 0:
            return True
    return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Don't change the tests, which could be woened by anyone.
            '.c',
            '.C',
            '.cc',
            '.d',
            '.h',

```

```

        '.hs',
        '.f',
        '.f90',
        '.go',
        '.inc',
        '.java',
    ])

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    # Similarly params/README.
    if filename == 'README' and os.path.basename (dir) == 'params':
        return True
    if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
        return True
    return GenericFilter.skip_file (self, dir, filename)

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

class LibPhobosFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Source module imported from upstream.
            'object.d',
        ])

```

```

    ])

self.skip_dirs |= set ([
    # Contains sources imported from upstream.
    'core',
    'etc',
    'gc',
    'gestub',
    'rt',
    'std',
    ])

class LibStdCxxFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    self.skip_files |= set ([
        # Contains no copyright of its own, but quotes the GPL.
        'intro.xml',
        ])

    self.skip_dirs |= set ([
        # Contains automatically-generated sources.
        'html',

        # The testsuite data files shouldn't be changed.
        'data',

        # Contains imported images
        'images',
        ])

    self.own_files |= set ([
        # Contains markup around the copyright owner.
        'spine.xml',
        ])

    def get_line_filter (self, dir, filename):
        if filename == 'boost_concept_check.h':
            return re.compile ('// \ (C\ ) Copyright Jeremy Siek')
        return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__ (self, errors):
        Copyright.__init__ (self, errors)

    canon_fsf = 'Free Software Foundation, Inc.'
    self.add_package_author ('Free Software Foundation', canon_fsf)

```

```
self.add_package_author ('Free Software Foundation.', canon_fsf)
self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('The Free Software Foundation', canon_fsf)
self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
self.add_package_author ('Software Foundation, Inc.', canon_fsf)
```

```
self.add_external_author ('ARM')
self.add_external_author ('AdaCore')
self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
self.add_external_author ('Cavium Networks.')
self.add_external_author ('Faraday Technology Corp.')
self.add_external_author ('Florida State University')
self.add_external_author ('Gerard Jungman')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
self.add_external_author ('Intel Corporation')
self.add_external_author ('Information Technology Industry Council.')
self.add_external_author ('James Theiler, Brian Gough')
self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author ('National Research Council of Canada.')
self.add_external_author ('NVIDIA Corporation')
self.add_external_author ('Peter Dimov and Multi Media Ltd.')
self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeline Associates, Inc.')
self.add_external_author ('Regents of the University of California.')
self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author ('Silicon Graphics')
self.add_external_author ('Stephen L. Moshier')
self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author ('The D Language Foundation, All Rights Reserved')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors.')
self.add_external_author ('The Regents of the University of California.')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto.')
```

```
class GCCCmdLine (CmdLine):
    def __init__ (self):
        CmdLine.__init__ (self, GCCCopyright)

        self.add_dir ('.', TopLevelFilter())
        # Boehm-gc is imported from upstream.
        self.add_dir ('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir ('fixincludes')
```



```
self.add_dir ('gcc', GCCFilter())
self.add_dir (os.path.join ('gcc', 'testsuite'), TestsuiteFilter())
self.add_dir ('gnattools')
self.add_dir ('gotools')
self.add_dir ('include')
# intl is imported from upstream.
self.add_dir ('libada')
self.add_dir ('libatomic')
self.add_dir ('libbacktrace')
self.add_dir ('libcc1')
self.add_dir ('libcpp', LibCppFilter())
self.add_dir ('libdecnumber')
# libffi is imported from upstream.
self.add_dir ('libgcc', LibGCCFilter())
self.add_dir ('libgfortran')
# libgo is imported from upstream.
self.add_dir ('libgomp')
self.add_dir ('libhsail-rt')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir ('libphobos', LibPhobosFilter())
self.add_dir ('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.
```

```
self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
```

```
'libphobos',  
'libssp',  
'libstdc++-v3',  
'libvtv',  
'lto-plugin',  
]
```

GCCCmdLine().main()

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Version 2.1, February 1999

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```
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href="bugs.html" title="Bugs" /></head><body><div class="navheader"><table width="100%"
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@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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@enumerate 0

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@item Source Code.

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```
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```

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@c man end

DRuntime: Runtime Library for the D Programming Language

=====

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```
/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   adapted to BSD conventions for symbol names and debugging.)
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```

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```
/* Use the Sequent Symmetry assembler syntax. */
```

```
/* Define the syntax of pseudo-ops, labels and comments. */
```

```
/* Prefix for internally generated assembler labels. If we aren't using
   underscores, we are using prefix `.'s to identify labels that should
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu */
```

```
#define LPREFIX "L"
```

```
/* Assembler pseudos to introduce constants of various size. */
```

```
#define ASM_BYTE "\t.byte\t"
```

```
#define ASM_SHORT "\t.word\t"
```

```
#define ASM_LONG "\t.long\t"
```

```
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */
```

```
/* This was suggested, but it shouldn't be right for DBX output. -- RMS
```

```
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */
```

```
/* Define the syntax of labels and symbol definitions/declarations. */
```

```
/* This is how to output an assembler line
```

```

that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
( fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
( fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
sprintf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

#define USER_LABEL_PREFIX "_"

```

```

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
.\" Automatically generated by Pod::Man 4.11 (Pod::Simple 3.35)
.\"
.\" Standard preamble:
.\" =====
.de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb \" Begin verbatim text
.ft CW
.nf
.ne \\$1
..
.de Ve \" End verbatim text
.ft R
.fi
..
.\" Set up some character translations and predefined strings. \*(-- will
.\" give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
.\" double quote, and \*(R" will give a right double quote. \*(C+ will
.\" give a nicer C++. Capital omega is used to do unbreakable dashes and
.\" therefore won't be available. \*(C` and \*(C' expand to ` in nroff,
.\" nothing in troff, for use with C<>.
.tr \(*W-
.ds C+ C\v'-.1v'h'-1p's-2+\h'-1p'+\s0\v'.1v'h'-1p'
.ie n \{\
. ds -- \(*W-
. ds PI pi
. if (\n(.H=4u)&(1m=24u) .ds -- \(*W'h'-12u\(*W'h'-12u'-\" diablo 10 pitch
. if (\n(.H=4u)&(1m=20u) .ds -- \(*W'h'-12u\(*W'h'-8u'-\" diablo 12 pitch
. ds L" ""
. ds R" ""
. ds C` ""
. ds C' ""
'br\}
.el\{\
. ds -- \\\(em\
. ds PI \(*p
. ds L" ``
. ds R" "
. ds C`
. ds C'

```

```

'br\}
.\"
.\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \{(aq
.el   .ds Aq '
.\"
.\" If the F register is >0, we'll generate index entries on stderr for
.\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
.\" entries marked with X<> in POD.  Of course, you'll have to process the
.\" output yourself in some meaningful fashion.
.\"
.\" Avoid warning from groff about undefined register 'F'.
.de IX
..
.nr rF 0
.if \n(.g .if rF .nr rF 1
.if (\n(rF:(\n(.g==0)) \{\
.  if \nF \{\
.    de IX
.    tm Index:\{$1\t\|n%\t"\}$2"
..
.  if !\nF==2 \{\
.    nr % 0
.    nr F 2
.  \}
. \}
.\}
.r rF
.\"
.\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.\" Fear. Run. Save yourself. No user-serviceable parts.
.  \" fudge factors for nroff and troff
.if n \{\
.  ds #H 0
.  ds #V .8m
.  ds #F .3m
.  ds #[ \f1
.  ds #] \fP
.\}
.if t \{\
.  ds #H ((1u-(\\|\\n(.fu%2u)).13m)
.  ds #V .6m
.  ds #F 0
.  ds #[ \&
.  ds #] \&
.\}
.  \" simple accents for nroff and troff
.if n \{\

```

```

. ds '\&
. ds ` \&
. ds ^ \&
. ds , \&
. ds ~ ~
. ds /
.\}
.if t \{
. ds '\k:h'-(\n(.wu*8/10-\*(#H)^\h''\n:u'
. ds ` \k:h'-(\n(.wu*8/10-\*(#H)^\h''\n:u'
. ds ^ \k:h'-(\n(.wu*10/11-\*(#H)^\h''\n:u'
. ds , \k:h'-(\n(.wu*8/10),h''\n:u'
. ds ~ \k:h'-(\n(.wu-\*(#H-.1m)~\h''\n:u'
. ds / \k:h'-(\n(.wu*8/10-\*(#H)\z(\sl'h''\n:u'
.\}
. \ " troff and (daisy-wheel) nroff accents
.ds : \k:h'-(\n(.wu*8/10-\*(#H+.1m+\*(#F)\v'-\*(#V)\z.\h'.2m+\*(#F'.\h''\n:u'\v'\*(#V'
.ds 8 \h''\*(#H'(\*b)h'-\*(#H'
.ds o \k:h'-(\n(.wu+\w'(de'u-\*(#H)/2u'\v'-.3n''\*(#[z(\de\v'.3n'h''\n:u''\*(#)
.ds d- \h''\*(#H'(\pd|h'-\w'~\u'\v'-.25m'\f2(\hy\fp\v'.25m'h'-\*(#H'
.ds D- D\k:h'-\w'D'u'\v'-.11m'\z(\hy\v'.11m'h''\n:u'
.ds th \*(#[[v'.3m\s+1I\s-1\v'-.3m'h'-(\w'T'u*2/3)\s-1o\s+1\*(#)
.ds Th \*(#[[s+2I\s-2|h'-\w'T'u*3/5\v'-.3m'o\v'.3m''\*(#)
.ds ae a|h'-(\w'a'u*4/10)'e
.ds Ae A|h'-(\w'A'u*4/10)'E
. \ " corrections for vroff
.if v .ds ~ \k:h'-(\n(.wu*9/10-\*(#H)\s-2\u~\d\s+2|h''\n:u'
.if v .ds ^ \k:h'-(\n(.wu*10/11-\*(#H)\v'-.4m'^\v'.4m'h''\n:u'
. \ " for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
\{
. ds : e
. ds 8 ss
. ds o a
. ds d- d|h'-1'\(ga
. ds D- D|h'-1'\(hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae
. ds Ae AE
.\}
.rm #[ #] #H #V #F C
.\" =====
.\"
.IX Title "GPL 7"
.TH GPL 7 "2019-05-03" "gcc-9.1.0" "GNU"
.\" For nroff, turn off justification. Always turn off hyphenation; it makes
.\" way too many mistakes in technical documents.

```

```

.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
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want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.
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have certain responsibilities if you distribute copies of the
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For example, if you distribute copies of such a program, whether
gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too,
receive or can get the source code.  And you must show them these
terms so they know their rights.

```

.PP

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.PP

For the developers' and authors' protection, the \s-1GPL\s0 clearly explains that there is no warranty for this free software. For both users' and authors' sake, the \s-1GPL\s0 requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

.PP

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the \s-1GPL\s0 to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the \s-1GPL,\s0 as needed to protect the freedom of users.

.PP

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the \s-1GPL\s0 assures that patents cannot be used to render the program non-free.

.PP

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

.SS "\s-1TERMS AND CONDITIONS\s0"

.IX Subsection "TERMS AND CONDITIONS"

.IP "0. Definitions." 4

.IX Item "0. Definitions."

\&*(L"This License*(R" refers to version 3 of the \s-1GNU\s0 General Public License.

.Sp

\&*(L"Copyright*(R" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

.Sp

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

.Sp

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

the earlier work or a work *(L"based on*(R" the earlier work.

.Sp

A *(L"covered work*(R" means either the unmodified Program or a work based on the Program.

.Sp

To *(L"propagate*(R" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

.Sp

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

.Sp

An interactive user interface displays *(L"Appropriate Legal Notices*(R" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

.IP "1. Source Code." 4

.IX Item "1. Source Code."

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

.Sp

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

.Sp

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

.Sp

The *(L"Corresponding Source*(R" for a work in object code form means all

the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

.Sp

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

.Sp

The Corresponding Source for a work in source code form is that same work.

.IP "2. Basic Permissions." 4

.IX Item "2. Basic Permissions."

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.Sp

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

.IP "3. Protecting Users' Legal Rights From Anti-Circumvention Law." 4

.IX Item "3. Protecting Users' Legal Rights From Anti-Circumvention Law."

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the \s-1WIPO\s0 copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

.Sp

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

.IP "4. Conveying Verbatim Copies." 4

.IX Item "4. Conveying Verbatim Copies."

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

.Sp

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

.IP "5. Conveying Modified Source Versions." 4

.IX Item "5. Conveying Modified Source Versions."

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

.RS 4

.IP "a." 4

.IX Item "a."

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

.IP "b." 4

.IX Item "b."

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to `*(L"keep intact all notices*(R"`.

.IP "c." 4

.IX Item "c."

You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

.IP "d." 4

.IX Item "d."

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

.RE

.RS 4

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an `&*(L"aggregate"*(R` if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

.RE

.IP "6. Conveying Non-Source Forms." 4

.IX Item "6. Conveying Non-Source Forms."

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

.RS 4

.IP "a." 4

.IX Item "a."

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

.IP "b." 4

.IX Item "b."

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

.IP "c." 4

.IX Item "c."

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

6b.

.IP "d." 4

.IX Item "d."

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

.IP "e." 4

.IX Item "e."

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

.RE

.RS 4

.Sp

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

.Sp

A *(L"User Product*(R" is either (1) a *(L"consumer product*(R", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, \&*(L"normally used*(R" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

.Sp

\&*(L"Installation Information*(R" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with

solely because modification has been made.

.Sp

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in \s-1ROM\s0).

.Sp

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

.Sp

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

.RE

.IP "7. Additional Terms." 4

.IX Item "7. Additional Terms."

&*(L"Additional permissions*(R" are terms that supplement the terms of this License by making exceptions from one or more of its conditions.

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.RS 4

.IP "a." 4

.IX Item "a."

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.IP "b." 4

.IX Item "b."

Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

.IP "c." 4

.IX Item "c."

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.IP "d." 4

.IX Item "d."

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.IP "e." 4

.IX Item "e."

Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

.IP "f." 4

.IX Item "f."

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.RE

.RS 4

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.Sp

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.Sp

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

.RE

.IP "8. Termination." 4

.IX Item "8. Termination."

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.IP "9. Acceptance Not Required for Having Copies." 4

.IX Item "9. Acceptance Not Required for Having Copies."

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.IP "10. Automatic Licensing of Downstream Recipients." 4

.IX Item "10. Automatic Licensing of Downstream Recipients."

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.IP "11. Patents." 4

.IX Item "11. Patents."

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.IP "12. No Surrender of Others' Freedom." 4

.IX Item "12. No Surrender of Others' Freedom."

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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 Program or any portion

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- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, 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 Program, 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 Program.

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

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable

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b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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.

If distribution of executable or 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 counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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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.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate 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.

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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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<appendix xmlns="http://docbook.org/ns/docbook" version="5.0"

xml:id="appendix.gpl-3.0"><info><title>

<acronym>GNU</acronym> General Public License version 3

</title></info>

<?dbhtml filename="appendix_gpl.html"?>

<para>

Version 3, 29 June 2007

</para>

<para>

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<link xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="https://www.fsf.org">https://www.fsf.org</link>

</para>

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</para>

<bridgehead xml:id="gpl-3-preamble" renderas="sect1">

Preamble

</bridgehead>

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</para>

<para>

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</para>

<para>

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

</para>

<para>

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

</para>

<para>

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

</para>

<para>

Developers that use the <acronym>GNU</acronym> <acronym>GPL</acronym> protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

</para>

<para>

For the developers and authors protection, the <acronym>GPL</acronym> clearly explains that there is no warranty for this

free software. For both users and authors sake, the <acronym>GPL</acronym> requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

</para>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

<bridgehead xml:id="gpl-3-definitions" renderas="sect1">

0. Definitions.

</bridgehead>

<para>

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</para>

<para>

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</para>

<para>

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Licensees and recipients may be individuals or organizations.

</para>

<para>

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

</para>

<para>

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

</para>

<para>

To propagate a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

</para>

<para>

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

</para>

<para>

An interactive user interface displays Appropriate Legal Notices to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

</para>

<bridgehead xml:id="SourceCode" renderas="sect1">

1. Source Code.

</bridgehead>

<para>

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

</para>

<para>

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

</para>

<para>

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

</para>

<para>

The Corresponding Source for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the works System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

</para>

<para>

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

</para>

<para>

The Corresponding Source for a work in source code form is that same work.

</para>

<bridgehead xml:id="BasicPermissions" renderas="sect1">

2. Basic Permissions.

</bridgehead>

<para>

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</para>

<para>

You may make, run and propagate covered works that you do not convey,

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</para>

<para>

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

</para>

<bridgehead xml:id="Protecting" renderas="sect1">

3. Protecting Users Legal Rights From Anti-Circumvention Law.

</bridgehead>

<para>

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

</para>

<para>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the works users, your or third parties legal rights to forbid circumvention of technological measures.

</para>

<bridgehead xml:id="ConveyingVerbatim" renderas="sect1">

4. Conveying Verbatim Copies.

</bridgehead>

<para>

You may convey verbatim copies of the Programs source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

</para>

<para>

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

</para>

<bridgehead xml:id="ConveyingModified" renderas="sect1">

5. Conveying Modified Source Versions.

</bridgehead>

<para>

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

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to keep intact all notices.

</para>

</listitem>

<listitem>

<para>

You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

</para>

</listitem>

<listitem>

<para>

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

</para>

</listitem>

</orderedlist>

<para>

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

a storage or distribution medium, is called an aggregate if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilations users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

</para>

<bridgehead xml:id="ConveyingNonSource" renderas="sect1">

6. Conveying Non-Source Forms.

</bridgehead>

<para>

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

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

<listitem>

<para>

Convey the object code by offering access from a designated place

(gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

</para>

</listitem>

<listitem>

<para>

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

</para>

</listitem>

</orderedlist>

<para>

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

</para>

<para>

A User Product is either (1) a consumer product, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, normally used refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

</para>

<para>

Installation Information for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been

made.

</para>

<para>

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in <acronym>ROM</acronym>).

</para>

<para>

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

</para>

<para>

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

</para>

<bridgehead xml:id="AdditionalTerms" renderas="sect1">

7. Additional Terms.

</bridgehead>

<para>

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</para>

<screen>

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</para>

</appendix>

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Version 3.1, 31 March 2009

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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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