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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
This package was debianized by Nathan Scott nathans@debian.org on
Tue, 26 Feb 2002 13:25:26 +1100

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1.3 attr 2.4.47

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit

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

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

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

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

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major

components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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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.

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1.5 base-passwd 3.5.29

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*

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Files: passwd.master, group.master

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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and
Bruce Perens <bruce@pixar.com>.

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1.6 bash 3.2.48

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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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1.7 bash-completion 2.1 :r0

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1.8 bison 2.3

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Julian Seward, Cambridge, UK.
jseward@acm.org
bzip2/libbzip2 version 1.0.2 of 30 December 2001

/*

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libbz2.dll test program.
by Yoshioka Tsuneo (tsuneo@rr.iij4u.or.jp)
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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

*/

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Version 2.1, February 1999

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Version 3, 29 June 2007

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<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

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

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

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1.16 cracklib 2.9.5-r0

1.16.1 Available under license :

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML

looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20

GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18

I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of

> Mike Frysinger

> Sent: Monday, October 01, 2007 8:15 PM

> To: cracklib-devel@li...

> Subject: [Cracklib-devel] cracklib license

>=20

> looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML

On Monday 01 October 2007, Neulinger, Nathan wrote:

> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=20
=20mike

Re: [Cracklib-devel] cracklib license

From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46

Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan

=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679

UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----

> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
>> I understand that, and you're welcome to bring it up with Alec
> directly
>> and see if he wants to relicense his code as LGPL... but at this
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>> clarification of the licensing that was already in place.
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>=20
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> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license

From: Devin Reade <gdr@gn...> - 2007-10-02 15:04

I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct license in this situation.

Devin

--

If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license

From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32

On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>> Seems like the ideal thing here would be for you and the other distro
>> maintainers to get together with Alec in a conversation and come to a
>> decision as to what licensing scheme y'all want. I haven't really done
>> much other than cleaning up the packaging and patches and a small
>> bit of
>> additional code, so whatever licensing y'all come up with is fine
>> by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately, GPLv2 with the option of using the library under a later version of the GPL would permit applications which were released under version 3 of the GPL to use the library, too, which would be sufficient for the packages which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license

From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML

On Monday 28 January 2008, Nalin Dahyabhai wrote:

> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:

>>> Seems like the ideal thing here would be for you and the other distro
>>> maintainers to get together with Alec in a conversation and come to a
>>> decision as to what licensing scheme y'all want. I haven't really done
>>> much other than cleaning up the packaging and patches and a small
>>> bit of
>>> additional code, so whatever licensing y'all come up with is fine
>>> by me.

>>

>> I am sympathetic. Guys, what do you reckon?

>>

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>> linked with any code, not just GPL...

>

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> timeframe.

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> I'd also suggest the LGPL, for the reason you noted above. Alternately,

> GPLv2 with the option of using the library under a later version of the

> GPL would permit applications which were released under version 3 of the

> GPL to use the library, too, which would be sufficient for the packages

> which are included in Fedora. FWIW, I'd personally lean toward LGPL.

>

> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?

-mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.

>

> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make

> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML

On Sunday 05 October 2008, Alec Muffett wrote:

>>> In any case, I thank you both for working on sorting this out.
>>
>> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
>> make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id 191Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ----- Forwarded message -----
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

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Version 2.1, February 1999

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^L

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^L

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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

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

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1.17 cryptodev-linux 1.8

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1.18 curl 7.51.0

1.18.1 Available under license :

License Mixing

=====

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1.19 dante 1.4.0-pre1

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*

* curve25519-donna: Curve25519 elliptic curve, public key function

*

* <http://code.google.com/p/curve25519-donna/>

*

* Adam Langley <agl@imperialviolet.org>

*

* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>

*

* More information about curve25519 can be found here

* <http://cr.yp.to/ecdh.html>

*

* djb's sample implementation of curve25519 is written in a special assembly

* language called qhasm and uses the floating point registers.
*
* This is, almost, a clean room reimplementaion from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
* from the sample implementation.

*/

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```

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```
/*
```

```
* Public include file for the UUID library
```

```
*
```

```
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```

```
*
```

```
* %Begin-Header%
```

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*/

```

```

#ifndef _UUID_UUID_H
#define _UUID_UUID_H

```

```

#include <sys/types.h>
#ifndef _WIN32
#include <sys/time.h>
#endif
#include <time.h>

```

```

typedef unsigned char uuid_t[16];

```

```

/* UUID Variant definitions */

```

```

#define UUID_VARIANT_NCS 0
#define UUID_VARIANT_DCE 1
#define UUID_VARIANT_MICROSOFT 2
#define UUID_VARIANT_OTHER 3

```

```

/* UUID Type definitions */

```

```

#define UUID_TYPE_DCE_TIME 1
#define UUID_TYPE_DCE_RANDOM 4

```

```

/* Allow UUID constants to be defined */

```

```

#ifdef __GNUC__
#define UUID_DEFINE(name,u0,u1,u2,u3,u4,u5,u6,u7,u8,u9,u10,u11,u12,u13,u14,u15) \
static const uuid_t name __attribute__((unused)) = {u0,u1,u2,u3,u4,u5,u6,u7,u8,u9,u10,u11,u12,u13,u14,u15}
#else
#define UUID_DEFINE(name,u0,u1,u2,u3,u4,u5,u6,u7,u8,u9,u10,u11,u12,u13,u14,u15) \
static const uuid_t name = {u0,u1,u2,u3,u4,u5,u6,u7,u8,u9,u10,u11,u12,u13,u14,u15}

```

```

#endif

#ifdef __cplusplus
extern "C" {
#endif

/* clear.c */
void uuid_clear(uuid_t uu);

/* compare.c */
int uuid_compare(const uuid_t uu1, const uuid_t uu2);

/* copy.c */
void uuid_copy(uuid_t dst, const uuid_t src);

/* gen_uuid.c */
void uuid_generate(uuid_t out);
void uuid_generate_random(uuid_t out);
void uuid_generate_time(uuid_t out);

/* isnull.c */
int uuid_is_null(const uuid_t uu);

/* parse.c */
int uuid_parse(const char *in, uuid_t uu);

/* unparse.c */
void uuid_unparse(const uuid_t uu, char *out);
void uuid_unparse_lower(const uuid_t uu, char *out);
void uuid_unparse_upper(const uuid_t uu, char *out);

/* uuid_time.c */
time_t uuid_time(const uuid_t uu, struct timeval *ret_tv);
int uuid_type(const uuid_t uu);
int uuid_variant(const uuid_t uu);

#ifdef __cplusplus
}
#endif

#endif /* _UUID_UUID_H */
LICENSE: GPLv2 & LGPLv2 & BSD & MIT
PR: r0
PV: 1.42.99+1.43+gitAUTOINC+0f26747167
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```

```

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*/

```

```

#include "config.h"
#include "com_err.h"
#include "error_table.h"
#include "internal.h"

static const char char_set[] =
"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789_";

static char buf[6];

const char * error_table_name(errcode_t num)
{
    int ch;
    int i;
    char *p;

    /* num = aa aaa abb bbb bcc ccc cdd ddd d?? ??? ??? */
    p = buf;
    num >>= ERRCODE_RANGE;
    /* num = ?? ??? ??? aaa aaa bbb bbb ccc ccc ddd ddd */
    num &= 077777777L;
    /* num = 00 000 000 aaa aaa bbb bbb ccc ccc ddd ddd */
    for (i = 4; i >= 0; i--) {
        ch = (int)((num >> BITS_PER_CHAR * i) & ((1 << BITS_PER_CHAR) - 1));
        if (ch != 0)
            *p++ = char_set[ch-1];
    }
    *p = '\0';
    return(buf);
}

```

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

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system utilities (e2fsck, mke2fs, etc.). 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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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library library. It is currently

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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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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

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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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Index: tdbsa/tdb.c

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

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

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

*/

/*

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

- trivial database library - private includes

-

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#

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

#

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


```

#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image: $(BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
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Gadi Oxman, August 1995
-----

```

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1.36 fcgi 2.4.0-r0

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1.37 findutils 4.2.31

:c0c8b511cde0419ebb6984250b7f4870

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1.38 flac 1.3.1

1.38.1 Available under license :

```
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 * Copyright (C) 2011-2014 Xiph.Org Foundation
 *
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```

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*/

```
#ifndef FLAC__ALL_H  
#define FLAC__ALL_H
```

```
#include "export.h"
```

```
#include "assert.h"  
#include "callback.h"  
#include "format.h"  
#include "metadata.h"  
#include "ordinals.h"  
#include "stream_decoder.h"  
#include "stream_encoder.h"
```

```
/** \mainpage
```

```
*
```

```
* \section intro Introduction
```

```
*
```

```
* This is the documentation for the FLAC C and C++ APIs. It is  
* highly interconnected; this introduction should give you a top  
* level idea of the structure and how to find the information you  
* need. As a prerequisite you should have at least a basic  
* knowledge of the FLAC format, documented  
* <A HREF=" ../format.html">here</A>.
```

```
*
```

```
* \section c_api FLAC C API
```

```
*
```

```
* The FLAC C API is the interface to libFLAC, a set of structures  
* describing the components of FLAC streams, and functions for  
* encoding and decoding streams, as well as manipulating FLAC  
* metadata in files. The public include files will be installed  
* in your include area (for example /usr/include/FLAC/...).
```

```
*
```

```
* By writing a little code and linking against libFLAC, it is  
* relatively easy to add FLAC support to another program. The  
* library is licensed under <A HREF=" ../license.html">Xiph's BSD license</A>.
```

```
* Complete source code of libFLAC as well as the command-line  
* encoder and plugins is available and is a useful source of  
* examples.
```

*
 * Aside from encoders and decoders, libFLAC provides a powerful
 * metadata interface for manipulating metadata in FLAC files. It
 * allows the user to add, delete, and modify FLAC metadata blocks
 * and it can automatically take advantage of PADDING blocks to avoid
 * rewriting the entire FLAC file when changing the size of the
 * metadata.
 *
 * libFLAC usually only requires the standard C library and C math
 * library. In particular, threading is not used so there is no
 * dependency on a thread library. However, libFLAC does not use
 * global variables and should be thread-safe.
 *
 * libFLAC also supports encoding to and decoding from Ogg FLAC.
 * However the metadata editing interfaces currently have limited
 * read-only support for Ogg FLAC files.
 *
 * \section cpp_api FLAC C++ API
 *
 * The FLAC C++ API is a set of classes that encapsulate the
 * structures and functions in libFLAC. They provide slightly more
 * functionality with respect to metadata but are otherwise
 * equivalent. For the most part, they share the same usage as
 * their counterparts in libFLAC, and the FLAC C API documentation
 * can be used as a supplement. The public include files
 * for the C++ API will be installed in your include area (for
 * example /usr/include/FLAC++/...).
 *
 * libFLAC++ is also licensed under
 * Xiph's BSD license.
 *
 * \section getting_started Getting Started
 *
 * A good starting point for learning the API is to browse through
 * the modules. Modules are logical
 * groupings of related functions or classes, which correspond roughly
 * to header files or sections of header files. Each module includes a
 * detailed description of the general usage of its functions or
 * classes.
 *
 * From there you can go on to look at the documentation of
 * individual functions. You can see different views of the individual
 * functions through the links in top bar across this page.
 *
 * If you prefer a more hands-on approach, you can jump right to some
 * example code.
 *
 * \section porting_guide Porting Guide

```

*
* Starting with FLAC 1.1.3 a Porting Guide
* has been introduced which gives detailed instructions on how to
* port your code to newer versions of FLAC.
*
* Embedded Developers
*
* libFLAC has grown larger over time as more functionality has been
* included, but much of it may be unnecessary for a particular embedded
* implementation. Unused parts may be pruned by some simple editing of
* src/libFLAC/Makefile.am. In general, the decoders, encoders, and
* metadata interface are all independent from each other.
*
* It is easiest to just describe the dependencies:
*
* - All modules depend on the Format module.
* - The decoders and encoders depend on the bitbuffer.
* - The decoder is independent of the encoder. The encoder uses the
* decoder because of the verify feature, but this can be removed if
* not needed.
* - Parts of the metadata interface require the stream decoder (but not
* the encoder).
* - Ogg support is selectable through the compile time macro
* FLAC_HAS_OGG.
*
* For example, if your application only requires the stream decoder, no
* encoder, and no metadata interface, you can remove the stream encoder
* and the metadata interface, which will greatly reduce the size of the
* library.
*
* Also, there are several places in the libFLAC code with comments marked
* with "OPT:" where a #define can be changed to enable code that might be
* faster on a specific platform. Experimenting with these can yield faster
* binaries.
*/

/** Porting Guide for New Versions
*
* This module describes differences in the library interfaces from
* version to version. It assists in the porting of code that uses
* the libraries to newer versions of FLAC.
*
* One simple facility for making porting easier that has been added
* in FLAC 1.1.3 is a set of #defines in export.h of each
* library's includes (e.g. include/FLAC/export.h). The
* #defines mirror the libraries'
* http://www.gnu.org/software/libtool/manual/libtool.html#Libtool-versioning>libtool version
numbers</A>,

```

```

* e.g. in libFLAC there are \c FLAC_API_VERSION_CURRENT,
* \c FLAC_API_VERSION_REVISION, and \c FLAC_API_VERSION_AGE.
* These can be used to support multiple versions of an API during the
* transition phase, e.g.
*
* \code
* #if !defined(FLAC_API_VERSION_CURRENT) || FLAC_API_VERSION_CURRENT <= 7
* legacy code
* #else
* new code
* #endif
* \endcode
*
* The the source will work for multiple versions and the legacy code can
* easily be removed when the transition is complete.
*
* Another available symbol is FLAC_API_SUPPORTS_OGG_FLAC (defined in
* include/FLAC/export.h), which can be used to determine whether or not
* the library has been compiled with support for Ogg FLAC. This is
* simpler than trying to call an Ogg init function and catching the
* error.
*/

/** \defgroup porting_1_1_2_to_1_1_3 Porting from FLAC 1.1.2 to 1.1.3
* \ingroup porting
*
* \brief
* This module describes porting from FLAC 1.1.2 to FLAC 1.1.3.
*
* The main change between the APIs in 1.1.2 and 1.1.3 is that they have
* been simplified. First, libOggFLAC has been merged into libFLAC and
* libOggFLAC++ has been merged into libFLAC++. Second, both the three
* decoding layers and three encoding layers have been merged into a
* single stream decoder and stream encoder. That is, the functionality
* of FLAC__SeekableStreamDecoder and FLAC__FileDecoder has been merged
* into FLAC__StreamDecoder, and FLAC__SeekableStreamEncoder and
* FLAC__FileEncoder into FLAC__StreamEncoder. Only the
* FLAC__StreamDecoder and FLAC__StreamEncoder remain. What this means
* is there is now a single API that can be used to encode or decode
* streams to/from native FLAC or Ogg FLAC and the single API can work
* on both seekable and non-seekable streams.
*
* Instead of creating an encoder or decoder of a certain layer, now the
* client will always create a FLAC__StreamEncoder or
* FLAC__StreamDecoder. The old layers are now differentiated by the
* initialization function. For example, for the decoder,
* FLAC__stream_decoder_init() has been replaced by
* FLAC__stream_decoder_init_stream(). This init function takes

```

* callbacks for the I/O, and the seeking callbacks are optional. This

* allows the client to use the same object for seekable and

* non-seekable streams. For decoding a FLAC file directly, the client

* can use `FLAC__stream_decoder_init_file()` and pass just a filename

* and fewer callbacks; most of the other callbacks are supplied

* internally. For situations where `fopen()`ing by filename is not

* possible (e.g. Unicode filenames on Windows) the client can instead

* open the file itself and supply the `FILE*` to

* `FLAC__stream_decoder_init_FILE()`. The init functions now returns a

* `FLAC__StreamDecoderInitStatus` instead of `FLAC__StreamDecoderState`.

* Since the callbacks and client data are now passed to the init

* function, the `FLAC__stream_decoder_set_*_callback()` functions and

* `FLAC__stream_decoder_set_client_data()` are no longer needed. The

* rest of the calls to the decoder are the same as before.

*

* There are counterpart init functions for Ogg FLAC, e.g.

* `FLAC__stream_decoder_init_ogg_stream()`. All the rest of the calls

* and callbacks are the same as for native FLAC.

*

* As an example, in FLAC 1.1.2 a seekable stream decoder would have

* been set up like so:

*

```
* \code
* FLAC__SeekableStreamDecoder *decoder = FLAC__seekable_stream_decoder_new();
* if(decoder == NULL) do_something;
* FLAC__seekable_stream_decoder_set_md5_checking(decoder, true);
* [... other settings ...]
* FLAC__seekable_stream_decoder_set_read_callback(decoder, my_read_callback);
* FLAC__seekable_stream_decoder_set_seek_callback(decoder, my_seek_callback);
* FLAC__seekable_stream_decoder_set_tell_callback(decoder, my_tell_callback);
* FLAC__seekable_stream_decoder_set_length_callback(decoder, my_length_callback);
* FLAC__seekable_stream_decoder_set_eof_callback(decoder, my_eof_callback);
* FLAC__seekable_stream_decoder_set_write_callback(decoder, my_write_callback);
* FLAC__seekable_stream_decoder_set_metadata_callback(decoder, my_metadata_callback);
* FLAC__seekable_stream_decoder_set_error_callback(decoder, my_error_callback);
* FLAC__seekable_stream_decoder_set_client_data(decoder, my_client_data);
* if(FLAC__seekable_stream_decoder_init(decoder) != FLAC__SEEKABLE_STREAM_DECODER_OK)
do_something;
* \endcode
```

*

* In FLAC 1.1.3 it is like this:

*

```
* \code
* FLAC__StreamDecoder *decoder = FLAC__stream_decoder_new();
* if(decoder == NULL) do_something;
* FLAC__stream_decoder_set_md5_checking(decoder, true);
* [... other settings ...]
* if(FLAC__stream_decoder_init_stream(
```



```

* decoder,
* my_read_callback,
* my_seek_callback, // or NULL
* my_tell_callback, // or NULL
* my_length_callback, // or NULL
* my_eof_callback, // or NULL
* my_write_callback,
* my_metadata_callback, // or NULL
* my_error_callback,
* my_client_data
* ) != FLAC__STREAM_DECODER_INIT_STATUS_OK) do_something;
* \endcode
*
* or you could do;
*
* \code
* [...]
* FILE *file = fopen("somefile.flac","rb");
* if(file == NULL) do_something;
* if(FLAC__stream_decoder_init_FILE(
* decoder,
* file,
* my_write_callback,
* my_metadata_callback, // or NULL
* my_error_callback,
* my_client_data
* ) != FLAC__STREAM_DECODER_INIT_STATUS_OK) do_something;
* \endcode
*
* or just:
*
* \code
* [...]
* if(FLAC__stream_decoder_init_file(
* decoder,
* "somefile.flac",
* my_write_callback,
* my_metadata_callback, // or NULL
* my_error_callback,
* my_client_data
* ) != FLAC__STREAM_DECODER_INIT_STATUS_OK) do_something;
* \endcode
*
* Another small change to the decoder is in how it handles unparseable
* streams. Before, when the decoder found an unparseable stream
* (reserved for when the decoder encounters a stream from a future
* encoder that it can't parse), it changed the state to
* \c FLAC__STREAM_DECODER_UNPARSEABLE_STREAM. Now the decoder instead

```

- * drops sync and calls the error callback with a new error code
- * `FLAC__STREAM_DECODER_ERROR_STATUS_UNPARSEABLE_STREAM`. This is
- * more robust. If your error callback does not discriminate on the the
- * error state, your code does not need to be changed.
- *
- * The encoder now has a new setting:
- * `FLAC__stream_encoder_set_apodization()`. This is for setting the
- * method used to window the data before LPC analysis. You only need to
- * add a call to this function if the default is not suitable. There
- * are also two new convenience functions that may be useful:
- * `FLAC__metadata_object_cuesheet_calculate_cddb_id()` and
- * `FLAC__metadata_get_cuesheet()`.
- *
- * The `bytes` parameter to `FLAC__StreamDecoderReadCallback`,
- * `FLAC__StreamEncoderReadCallback`, and `FLAC__StreamEncoderWriteCallback`
- * is now `size_t` instead of `unsigned`.
- */

```
/** \defgroup porting_1_1_3_to_1_1_4 Porting from FLAC 1.1.3 to 1.1.4
 * \ingroup porting
 *
 * \brief
 * This module describes porting from FLAC 1.1.3 to FLAC 1.1.4.
 *
 * There were no changes to any of the interfaces from 1.1.3 to 1.1.4.
 * There was a slight change in the implementation of
 * FLAC__stream_encoder_set_metadata(); the function now makes a copy
 * of the metadata array of pointers so the client no longer needs
 * to maintain it after the call. The objects themselves that are
 * pointed to by the array are still not copied though and must be
 * maintained until the call to FLAC__stream_encoder_finish().
 */
```

```
/** \defgroup porting_1_1_4_to_1_2_0 Porting from FLAC 1.1.4 to 1.2.0
 * \ingroup porting
 *
 * \brief
 * This module describes porting from FLAC 1.1.4 to FLAC 1.2.0.
 *
 * There were only very minor changes to the interfaces from 1.1.4 to 1.2.0.
 * In libFLAC, FLAC__format_sample_rate_is_subset() was added.
 * In libFLAC++, FLAC::Decoder::Stream::get_decode_position() was added.
 *
 * Finally, value of the constant FLAC__FRAME_HEADER_RESERVED_LEN
 * has changed to reflect the conversion of one of the reserved bits
 * into active use. It used to be 2 and now is 1. However the
 * FLAC frame header length has not changed, so to skip the proper
 * number of bits, use FLAC__FRAME_HEADER_RESERVED_LEN +
```

```

* \c FLAC__FRAME_HEADER_BLOCKING_STRATEGY_LEN
*/

/** \defgroup flac FLAC C API
*
* The FLAC C API is the interface to libFLAC, a set of structures
* describing the components of FLAC streams, and functions for
* encoding and decoding streams, as well as manipulating FLAC
* metadata in files.
*
* You should start with the format components as all other modules
* are dependent on it.
*/

#endif

```

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```
if FLAC__HAS_XMMS
```

```
XMMS_DIRS = plugin_common plugin_xmms
```


endif

if FLAC__WITH_CPPLIBS

CPPLIBS_DIRS = libFLAC++ test_libFLAC++

endif

SUBDIRS = \

share \

libFLAC \

flac \

metaflac \

\$(XMMS_DIRS) \

test_grabbag \

test_libs_common \

test_libFLAC \

test_seeking \

test_streams \

utils \

\$(CPPLIBS_DIRS)

EXTRA_DIST = \

Makefile.lite

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content="free,lossless,audio,codec,encoder,decoder,compression,compressor,archival,archive,archiving,backup,mus
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<link rel="shortcut icon" type="image/x-icon" href="favicon.ico" />
<link rel="stylesheet" type="text/css" href="flac.css" />
<title>FLAC - license</title>
</head>

<body>

<div class="logo">
<a href="index.html"></a>
</div>

<div class="above_nav"></div>

<div class="navbar">
```

[home](index.html) |
[faq](faq.html) |
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[developers](developers.html) |
[changelog](changelog.html) |
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<div class="below_nav"></div>

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<div class="box_title">

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</div>

<div class="box_header"></div>

<div class="box_body">

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</div>

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<!-- @@@ oh so hacky -->

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<tr>

<td align="left">

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</td>

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</td>

</tr>

</table>

</div>

</body>

</html>

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1.40 flup 1.0.2

:7a54b5be0d470e8da5e083212475aec0

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1.41 fontconfig 2.11.94

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1.42 freetype 2.6.3

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#
# All lines in this file are patterns, including the comment lines; this
# means that e.g. `FTL.TXT' matches all files that have this string in
# the file name (including the path relative to the current directory,
# always starting with `./').
#
# Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
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src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
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src/bdf/bdfplib.c
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src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
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src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
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#
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
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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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```
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2006-Jan-27

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1.43 fuse 2.9.4

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1.44 gawk 3.1.5

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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.

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

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

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

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- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

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

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

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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.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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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- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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Appendix: How to Apply These Terms to Your New Libraries

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the

"copyright" line and a pointer to where the full notice is found.

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

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

That's all there is to it!

1.45 gdbm 1.8.3

:bbae68f3e04db54626c88fa1080b546f

1.45.1 Available under license :

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Version 2, June 1991

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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 Program.

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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.

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Appendix: How to Apply These Terms to Your New Programs

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

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```
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This is free software, and you are welcome to redistribute it
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```

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```
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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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1.46 gdk-pixbuf 2.32.3

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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

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1.48 gettext/lgpl 0.16.1

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^L

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Version 2, June 1991

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

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,

- the gettext.sh shells script function library.

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- the `_programs_ gettext, ngettext, envsubst,`
- the documentation.

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1.49 glib-2.0 2.46.2

1.49.1 Available under license :

```
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 */

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 * Modified by the GLib Team and others 1997-2000. See the AUTHORS
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 */

#ifndef __G_LIB_H__
#define __G_LIB_H__

#define __GLIB_H_INSIDE__

#include <glib/galloca.h>
#include <glib/garray.h>
#include <glib/gasyncqueue.h>
#include <glib/gatomic.h>
#include <glib/gbacktrace.h>
#include <glib/gbase64.h>
#include <glib/gbitlock.h>
```

```
#include <glib/gbookmarkfile.h>
#include <glib/gbytes.h>
#include <glib/gcharset.h>
#include <glib/gchecksum.h>
#include <glib/gconvert.h>
#include <glib/gdataset.h>
#include <glib/gdate.h>
#include <glib/gdatetime.h>
#include <glib/gdir.h>
#include <glib/genviron.h>
#include <glib/gerror.h>
#include <glib/gfileutils.h>
#include <glib/ggettext.h>
#include <glib/ghash.h>
#include <glib/ghmac.h>
#include <glib/ghook.h>
#include <glib/ghostutils.h>
#include <glib/giochannel.h>
#include <glib/gkeyfile.h>
#include <glib/glist.h>
#include <glib/gmacros.h>
#include <glib/gmain.h>
#include <glib/gmappedfile.h>
#include <glib/gmarkup.h>
#include <glib/gmem.h>
#include <glib/gmessages.h>
#include <glib/gnode.h>
#include <glib/goption.h>
#include <glib/gpattern.h>
#include <glib/gpoll.h>
#include <glib/gprimes.h>
#include <glib/gqsort.h>
#include <glib/gquark.h>
#include <glib/gqueue.h>
#include <glib/grand.h>
#include <glib/gregex.h>
#include <glib/gscanner.h>
#include <glib/gsequence.h>
#include <glib/gshell.h>
#include <glib/gslice.h>
#include <glib/gslist.h>
#include <glib/gspawn.h>
#include <glib/gstrfuncs.h>
#include <glib/gstring.h>
#include <glib/gstringchunk.h>
#include <glib/gtestutils.h>
#include <glib/gthread.h>
#include <glib/gthreadpool.h>
```

```

#include <glib/gtimer.h>
#include <glib/gtimezone.h>
#include <glib/gtrashstack.h>
#include <glib/gtree.h>
#include <glib/gtypes.h>
#include <glib/gunicode.h>
#include <glib/gurifuncs.h>
#include <glib/gutils.h>
#include <glib/gvarianttype.h>
#include <glib/gvariant.h>
#include <glib/gversion.h>
#include <glib/gversionmacros.h>
#ifdef G_PLATFORM_WIN32
#include <glib/gwin32.h>
#endif

#ifndef G_DISABLE_DEPRECATED
#include <glib/deprecated/gallocator.h>
#include <glib/deprecated/gcache.h>
#include <glib/deprecated/gcompletion.h>
#include <glib/deprecated/gmain.h>
#include <glib/deprecated/grel.h>
#include <glib/deprecated/gthread.h>
#endif /* G_DISABLE_DEPRECATED */

#include <glib/glib-autocleanups.h>

#undef __GLIB_H_INSIDE__

#endif /* __G_LIB_H__ */
/*****
*   Perl-Compatible Regular Expressions   *
*****/

/* This is the public header file for the PCRE library, to be #included by
applications that call the PCRE functions.

```

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```
-----  
*/  
  
#ifndef _PCRE_H  
#define _PCRE_H  
  
/* The current PCRE version information. */  
  
#define PCRE_MAJOR      8  
#define PCRE_MINOR      31  
#define PCRE_PRERELEASE  
#define PCRE_DATE       2012-07-06  
  
/* When an application links to a PCRE DLL in Windows, the symbols that are  
imported have to be identified as such. When building PCRE, the appropriate  
export setting is defined in pcre_internal.h, which includes this file. So we  
don't change existing definitions of PCRE_EXP_DECL and PCRECPP_EXP_DECL. */  
  
#if defined(_WIN32) && !defined(PCRE_STATIC)  
#  ifndef PCRE_EXP_DECL  
#    define PCRE_EXP_DECL extern __declspec(dllimport)  
#  endif  
#  ifdef __cplusplus  
#    ifndef PCRECPP_EXP_DECL  
#      define PCRECPP_EXP_DECL extern __declspec(dllimport)  
#    endif  
#    ifndef PCRECPP_EXP_DEFN  
#      define PCRECPP_EXP_DEFN __declspec(dllimport)  
#    endif  
#  endif  
#endif  
#endif
```

```

/* By default, we use the standard "extern" declarations. */

#ifndef PCRE_EXP_DECL
# ifdef __cplusplus
#  define PCRE_EXP_DECL extern "C"
# else
#  define PCRE_EXP_DECL extern
# endif
#endif

#ifdef __cplusplus
# ifndef PCRECPP_EXP_DECL
#  define PCRECPP_EXP_DECL extern
# endif
# ifndef PCRECPP_EXP_DEFN
#  define PCRECPP_EXP_DEFN
# endif
#endif

/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */

#include <stdlib.h>

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

/* Options. Some are compile-time only, some are run-time only, and some are
both, so we keep them all distinct. However, almost all the bits in the options
word are now used. In the long run, we may have to re-use some of the
compile-time only bits for runtime options, or vice versa. In the comments
below, "compile", "exec", and "DFA exec" mean that the option is permitted to
be set for those functions; "used in" means that an option may be set only for
compile, but is subsequently referenced in exec and/or DFA exec. Any of the
compile-time options may be inspected during studying (and therefore JIT
compiling). */

#define PCRE_CASELESS      0x00000001 /* Compile */
#define PCRE_MULTILINE     0x00000002 /* Compile */
#define PCRE_DOTALL       0x00000004 /* Compile */
#define PCRE_EXTENDED     0x00000008 /* Compile */
#define PCRE_ANCHORED     0x00000010 /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY 0x00000020 /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA        0x00000040 /* Compile */

```



```

#define PCRE_NOTBOL      0x00000080 /* Exec, DFA exec */
#define PCRE_NOTEOL      0x00000100 /* Exec, DFA exec */
#define PCRE_UNGREEDY    0x00000200 /* Compile */
#define PCRE_NOTEMPTY    0x00000400 /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8        0x00000800 /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16       0x00000800 /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE 0x00001000 /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT 0x00004000 /* Compile */
#define PCRE_PARTIAL_SOFT 0x00008000 /* Exec, DFA exec */
#define PCRE_PARTIAL      0x00008000 /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST 0x00010000 /* DFA exec */
#define PCRE_DFA_RESTART  0x00020000 /* DFA exec */
#define PCRE_FIRSTLINE    0x00040000 /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES     0x00080000 /* Compile */
#define PCRE_NEWLINE_CR   0x00100000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF   0x00200000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF 0x00300000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY  0x00400000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF 0x00500000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF  0x00800000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE  0x01000000 /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000 /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000 /* Synonym */
#define PCRE_PARTIAL_HARD  0x08000000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x10000000 /* Exec, DFA exec */
#define PCRE_UCP           0x20000000 /* Compile, used in exec, DFA exec */

/* Exec-time and get/set-time error codes */

#define PCRE_ERROR_NOMATCH      (-1)
#define PCRE_ERROR_NULL        (-2)
#define PCRE_ERROR_BADOPTION    (-3)
#define PCRE_ERROR_BADMAGIC     (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE  (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY     (-6)
#define PCRE_ERROR_NOSUBSTRING  (-7)
#define PCRE_ERROR_MATCHLIMIT   (-8)
#define PCRE_ERROR_CALLOUT      (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8      (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16     (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */

```

```

#define PCRE_ERROR_PARTIAL      (-12)
#define PCRE_ERROR_BADPARTIAL  (-13)
#define PCRE_ERROR_INTERNAL    (-14)
#define PCRE_ERROR_BADCOUNT  (-15)
#define PCRE_ERROR_DFA_UITEM   (-16)
#define PCRE_ERROR_DFA_UCOND   (-17)
#define PCRE_ERROR_DFA_UMLIMIT (-18)
#define PCRE_ERROR_DFA_WSSIZE  (-19)
#define PCRE_ERROR_DFA_RECURSE (-20)
#define PCRE_ERROR_RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE  (-23)
#define PCRE_ERROR_BADOFFSET   (-24)
#define PCRE_ERROR_SHORTUTF8   (-25)
#define PCRE_ERROR_SHORTUTF16  (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE     (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)

```

/* Specific error codes for UTF-8 validity checks */

```

#define PCRE_UTF8_ERR0      0
#define PCRE_UTF8_ERR1      1
#define PCRE_UTF8_ERR2      2
#define PCRE_UTF8_ERR3      3
#define PCRE_UTF8_ERR4      4
#define PCRE_UTF8_ERR5      5
#define PCRE_UTF8_ERR6      6
#define PCRE_UTF8_ERR7      7
#define PCRE_UTF8_ERR8      8
#define PCRE_UTF8_ERR9      9
#define PCRE_UTF8_ERR10     10
#define PCRE_UTF8_ERR11     11
#define PCRE_UTF8_ERR12     12
#define PCRE_UTF8_ERR13     13
#define PCRE_UTF8_ERR14     14
#define PCRE_UTF8_ERR15     15
#define PCRE_UTF8_ERR16     16
#define PCRE_UTF8_ERR17     17
#define PCRE_UTF8_ERR18     18
#define PCRE_UTF8_ERR19     19
#define PCRE_UTF8_ERR20     20
#define PCRE_UTF8_ERR21     21

```

/* Specific error codes for UTF-16 validity checks */

```

#define PCRE_UTF16_ERR0      0
#define PCRE_UTF16_ERR1      1
#define PCRE_UTF16_ERR2      2
#define PCRE_UTF16_ERR3      3
#define PCRE_UTF16_ERR4      4

/* Request types for pcre_fullinfo() */

#define PCRE_INFO_OPTIONS      0
#define PCRE_INFO_SIZE        1
#define PCRE_INFO_CAPTURECOUNT  2
#define PCRE_INFO_BACKREFMAX    3
#define PCRE_INFO_FIRSTBYTE     4
#define PCRE_INFO_FIRSTCHAR     4 /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE    5
#define PCRE_INFO_LASTLITERAL   6
#define PCRE_INFO_NAMEENTRYSIZE  7
#define PCRE_INFO_NAMECOUNT    8
#define PCRE_INFO_NAMETABLE     9
#define PCRE_INFO_STUDYSIZE    10
#define PCRE_INFO_DEFAULT_TABLES 11
#define PCRE_INFO_OKPARTIAL    12
#define PCRE_INFO_JCHANGED     13
#define PCRE_INFO_HASCORLRF    14
#define PCRE_INFO_MINLENGTH     15
#define PCRE_INFO_JIT           16
#define PCRE_INFO_JITSIZE      17
#define PCRE_INFO_MAXLOOKBEHIND 18

/* Request types for pcre_config(). Do not re-arrange, in order to remain
compatible. */

#define PCRE_CONFIG_UTF8        0
#define PCRE_CONFIG_NEWLINE     1
#define PCRE_CONFIG_LINK_SIZE   2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT  4
#define PCRE_CONFIG_STACKRECURSE 5
#define PCRE_CONFIG_UNICODE_PROPERTIES 6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION 7
#define PCRE_CONFIG_BSR         8
#define PCRE_CONFIG_JIT         9
#define PCRE_CONFIG_UTF16      10
#define PCRE_CONFIG_JITTARGET  11

/* Request types for pcre_study(). Do not re-arrange, in order to remain
compatible. */

```

```

#define PCRE_STUDY_JIT_COMPILE          0x0001
#define PCRE_STUDY_JIT_PARTIAL_SOFT_COMPILE 0x0002
#define PCRE_STUDY_JIT_PARTIAL_HARD_COMPILE 0x0004

/* Bit flags for the pcre[16]_extra structure. Do not re-arrange or redefine
these bits, just add new ones on the end, in order to remain compatible. */

#define PCRE_EXTRA_STUDY_DATA          0x0001
#define PCRE_EXTRA_MATCH_LIMIT         0x0002
#define PCRE_EXTRA_CALLOUT_DATA       0x0004
#define PCRE_EXTRA_TABLES              0x0008
#define PCRE_EXTRA_MATCH_LIMIT_RECURSION 0x0010
#define PCRE_EXTRA_MARK                 0x0020
#define PCRE_EXTRA_EXECUTABLE_JIT     0x0040

/* Types */

struct real_pcre;          /* declaration; the definition is private */
typedef struct real_pcre pcre;

struct real_pcre16;       /* declaration; the definition is private */
typedef struct real_pcre16 pcre16;

struct real_pcre_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre_jit_stack pcre_jit_stack;

struct real_pcre16_jit_stack; /* declaration; the definition is private */
typedef struct real_pcre16_jit_stack pcre16_jit_stack;

/* If PCRE is compiled with 16 bit character support, PCRE_UCHAR16 must contain
a 16 bit wide signed data type. Otherwise it can be a dummy data type since
pcre16 functions are not implemented. There is a check for this in pcre_internal.h. */
#ifndef PCRE_UCHAR16
#define PCRE_UCHAR16 unsigned short
#endif

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

/* When PCRE is compiled as a C++ library, the subject pointer type can be
replaced with a custom type. For conventional use, the public interface is a
const char *. */

#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

```

/ The structure for passing additional data to pcre_exec(). This is defined in such a way as to be extensible. Always add new fields at the end, in order to remain compatible. */*

```
typedef struct pcre_extra {
    unsigned long int flags;      /* Bits for which fields are set */
    void *study_data;           /* Opaque data from pcre_study() */
    unsigned long int match_limit; /* Maximum number of calls to match() */
    void *callout_data;         /* Data passed back in callouts */
    const unsigned char *tables; /* Pointer to character tables */
    unsigned long int match_limit_recursion; /* Max recursive calls to match() */
    unsigned char **mark;        /* For passing back a mark pointer */
    void *executable_jit;        /* Contains a pointer to a compiled jit code */
} pcre_extra;
```

/ Same structure as above, but with 16 bit char pointers. */*

```
typedef struct pcre16_extra {
    unsigned long int flags;      /* Bits for which fields are set */
    void *study_data;           /* Opaque data from pcre_study() */
    unsigned long int match_limit; /* Maximum number of calls to match() */
    void *callout_data;         /* Data passed back in callouts */
    const unsigned char *tables; /* Pointer to character tables */
    unsigned long int match_limit_recursion; /* Max recursive calls to match() */
    PCRE_UCHAR16 **mark;        /* For passing back a mark pointer */
    void *executable_jit;        /* Contains a pointer to a compiled jit code */
} pcre16_extra;
```

/ The structure for passing out data via the pcre_callout_function. We use a structure so that new fields can be added on the end in future versions, without changing the API of the function, thereby allowing old clients to work without modification. */*

```
typedef struct pcre_callout_block {
    int    version;      /* Identifies version of block */
    /* ----- Version 0 ----- */
    int    callout_number; /* Number compiled into pattern */
    int    *offset_vector; /* The offset vector */
    PCRE_SPTR subject;    /* The subject being matched */
    int    subject_length; /* The length of the subject */
    int    start_match;    /* Offset to start of this match attempt */
    int    current_position; /* Where we currently are in the subject */
    int    capture_top;    /* Max current capture */
    int    capture_last;   /* Most recently closed capture */
    void   *callout_data;  /* Data passed in with the call */
    /* ----- Added for Version 1 ----- */
    int    pattern_position; /* Offset to next item in the pattern */
    int    next_item_length; /* Length of next item in the pattern */
}
```

```

/* ----- Added for Version 2 ----- */
const unsigned char *mark; /* Pointer to current mark or NULL */
/* ----- */
} pcre_callout_block;

/* Same structure as above, but with 16 bit char pointers. */

typedef struct pcre16_callout_block {
int    version; /* Identifies version of block */
/* ----- Version 0 ----- */
int    callout_number; /* Number compiled into pattern */
int    *offset_vector; /* The offset vector */
PCRE_SPTR16 subject; /* The subject being matched */
int    subject_length; /* The length of the subject */
int    start_match; /* Offset to start of this match attempt */
int    current_position; /* Where we currently are in the subject */
int    capture_top; /* Max current capture */
int    capture_last; /* Most recently closed capture */
void   *callout_data; /* Data passed in with the call */
/* ----- Added for Version 1 ----- */
int    pattern_position; /* Offset to next item in the pattern */
int    next_item_length; /* Length of next item in the pattern */
/* ----- Added for Version 2 ----- */
const PCRE_UCHAR16 *mark; /* Pointer to current mark or NULL */
/* ----- */
} pcre16_callout_block;

/* Indirection for store get and free functions. These can be set to
alternative malloc/free functions if required. Special ones are used in the
non-recursive case for "frames". There is also an optional callout function
that is triggered by the (?) regex item. For Virtual Pascal, these definitions
have to take another form. */

#ifdef VPCOMPAT
PCRE_EXP_DECL void (*pcre_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_free)(void *);
PCRE_EXP_DECL void (*pcre_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre_stack_free)(void *);
PCRE_EXP_DECL int (*pcre_callout)(pcre_callout_block *);

PCRE_EXP_DECL void (*pcre16_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_free)(void *);
PCRE_EXP_DECL void (*pcre16_stack_malloc)(size_t);
PCRE_EXP_DECL void (*pcre16_stack_free)(void *);
PCRE_EXP_DECL int (*pcre16_callout)(pcre16_callout_block *);
#else /* VPCOMPAT */
PCRE_EXP_DECL void *pcre_malloc(size_t);
PCRE_EXP_DECL void pcre_free(void *);

```

```

PCRE_EXP_DECL void *pcre_stack_malloc(size_t);
PCRE_EXP_DECL void pcre_stack_free(void *);
PCRE_EXP_DECL int pcre_callout(pcre_callout_block *);

PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE_EXP_DECL void pcre16_free(void *);
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE_EXP_DECL void pcre16_stack_free(void *);
PCRE_EXP_DECL int pcre16_callout(pcre16_callout_block *);
#endif /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */

typedef pcre_jit_stack>(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack>(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
    const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
    const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL int pcre_config(int, void *);
PCRE_EXP_DECL int pcre16_config(int, void *);
PCRE_EXP_DECL int pcre_copy_named_substring(const pcre *, const char *,
    int *, int, const char *, char *, int);
PCRE_EXP_DECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_copy_substring(const char *, int *, int, int,
    char *, int);
PCRE_EXP_DECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
    PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_dfa_exec(const pcre *, const pcre_extra *,
    const char *, int, int, int, int *, int *, int);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int *, int);
PCRE_EXP_DECL int pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
    int, int, int, int *, int);
PCRE_EXP_DECL int pcre16_exec(const pcre16 *, const pcre16_extra *,
    PCRE_SPTR16, int, int, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);

```

```

PCRE_EXP_DECL int pcre_fullinfo(const pcre *, const pcre_extra *, int,
    void *);
PCRE_EXP_DECL int pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
    void *);
PCRE_EXP_DECL int pcre_get_named_substring(const pcre *, const char *,
    int *, int, const char *, const char **);
PCRE_EXP_DECL int pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int pcre_get_stringtable_entries(const pcre *, const char *,
    char **, char **);
PCRE_EXP_DECL int pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
    PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int pcre_get_substring(const char *, int *, int, int,
    const char **);
PCRE_EXP_DECL int pcre16_get_substring(PCRE_SPTR16, int *, int, int,
    PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_substring_list(const char *, int *, int,
    const char ***);
PCRE_EXP_DECL int pcre16_get_substring_list(PCRE_SPTR16, int *, int,
    PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int pcre_refcount(pcre *, int);
PCRE_EXP_DECL int pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

/* Utility functions for byte order swaps. */
PCRE_EXP_DECL int pcre_pattern_to_host_byte_order(pcre *, pcre_extra *,
    const unsigned char *);
PCRE_EXP_DECL int pcre16_pattern_to_host_byte_order(pcre16 *, pcre16_extra *,
    const unsigned char *);
PCRE_EXP_DECL int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
    PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,

```



```
    pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
    pcre16_jit_callback, void *);
```

```
#ifdef __cplusplus
} /* extern "C" */
#endif
```

```
#endif /* End of pcre.h */
```

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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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This option is useful when you wish to copy part of the code of

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

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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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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Constant-time SSSE3 AES core implementation.

version 0.1

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By Mike Hamburg (Stanford University), 2009

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For details see http://shiftleft.org/papers/vector_aes/ and

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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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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.

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

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

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

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

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

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```
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```
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License along with this library; if not, write to the Free Software  
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```
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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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Version 3, 29 June 2007

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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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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.

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- 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.
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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.

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```
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```

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1.53 gobject-introspection 1.46.0

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PR: r0

PV: 1.46.0

/* -*- mode: C; c-file-style: "gnu"; indent-tabs-mode: nil; -*-

* GObject introspection: Registered Type implementation

*

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*/

```
#include "config.h"
```

```
#include <string.h>
```

```
#include <glib.h>
```

```
#include <girepository.h>
```

```
#include "girepository-private.h"
```

```
#include "gitypelib-internal.h"
```

```
/**
```

```

* SECTION:giregisteredtypeinfo
* @title: GIRegisteredTypeInfo
* @short_description: Struct representing a struct with a GType
*
* GIRegisteredTypeInfo represents an entity with a GType associated. Could
* be either a #GIEnumInfo, #GIInterfaceInfo, #GIOBJECTInfo, #GIStructInfo or a
* #GIUnionInfo.
*
* A registered type info struct has a name and a type function.
* To get the name call g_registered_type_info_get_type_name().
* Most users want to call g_registered_type_info_get_g_type() and don't worry
* about the rest of the details.
*
* <refsect1 id="gi-giregisteredtypeinfo.struct-hierarchy" role="struct_hierarchy">
* <title role="struct_hierarchy.title">Struct hierarchy</title>
* <synopsis>
* <link linkend="gi-GIBaseInfo">GIBaseInfo</link>
* +----GIRegisteredTypeInfo
* +----<link linkend="gi-GIEnumInfo">GIEnumInfo</link>
* +----<link linkend="gi-GIInterfaceInfo">GIInterfaceInfo</link>
* +----<link linkend="gi-GIOBJECTInfo">GIOBJECTInfo</link>
* +----<link linkend="gi-GIStructInfo">GIStructInfo</link>
* +----<link linkend="gi-GIUnionInfo">GIUnionInfo</link>
* </synopsis>
* </refsect1>
*/

/**
* g_registered_type_info_get_type_name:
* @info: a #GIRegisteredTypeInfo
*
* Obtain the type name of the struct within the GObject type system.
* This type can be passed to g_type_name() to get a #GType.
*
* Returns: the type name
*/
const gchar *
g_registered_type_info_get_type_name (GIRegisteredTypeInfo *info)
{
    GIRealInfo *rinfo = (GIRealInfo *)info;
    RegisteredTypeBlob *blob;

    g_return_val_if_fail (info != NULL, NULL);
    g_return_val_if_fail (GI_IS_REGISTERED_TYPE_INFO (info), NULL);

    blob = (RegisteredTypeBlob *)&rinfo->typelib->data[rinfo->offset];

    if (blob->gtype_name)

```

```

return g_typedlib_get_string (rinfo->typedlib, blob->gtype_name);

return NULL;
}

/**
 * g_registered_type_info_get_type_init:
 * @info: a #GIRRegisteredTypeInfo
 *
 * Obtain the type init function for @info. The type init function is the
 * function which will register the GType within the GObject type system.
 * Usually this is not called by language bindings or applications, use
 * g_registered_type_info_get_g_type() directly instead.
 *
 * Returns: the symbol name of the type init function, suitable for
 * passing into g_module_symbol().
 */
const gchar *
g_registered_type_info_get_type_init (GIRRegisteredTypeInfo *info)
{
    GRealInfo *rinfo = (GRealInfo *)info;
    RegisteredTypeBlob *blob;

    g_return_val_if_fail (info != NULL, NULL);
    g_return_val_if_fail (GL_IS_REGISTERED_TYPE_INFO (info), NULL);

    blob = (RegisteredTypeBlob *)&rinfo->typedlib->data[rinfo->offset];

    if (blob->gtype_init)
        return g_typedlib_get_string (rinfo->typedlib, blob->gtype_init);

    return NULL;
}

/**
 * g_registered_type_info_get_g_type:
 * @info: a #GIRRegisteredTypeInfo
 *
 * Obtain the #GType for this registered type or G_TYPE_NONE which a special meaning.
 * It means that either there is no type information associated with this @info or
 * that the shared library which provides the type_init function for this
 * @info cannot be called.
 *
 * Returns: the #GType.
 */
GType
g_registered_type_info_get_g_type (GIRRegisteredTypeInfo *info)
{

```

```

const char *type_init;
GType (* get_type_func) (void);
GIRealInfo *rinfo = (GIRealInfo*)info;

g_return_val_if_fail (info != NULL, G_TYPE_INVALID);
g_return_val_if_fail (GI_IS_REGISTERED_TYPE_INFO (info), G_TYPE_INVALID);

type_init = g_registered_type_info_get_type_init (info);

if (type_init == NULL)
    return G_TYPE_NONE;
else if (!strcmp (type_init, "intern"))
    /* The special string "intern" is used for some types exposed by libgobject
       (that therefore should be always available) */
    return g_type_from_name (g_registered_type_info_get_type_name (info));

get_type_func = NULL;
if (!g_typelib_symbol (rinfo->typelib,
                     type_init,
                     (void**) &get_type_func))
    return G_TYPE_NONE;

return (* get_type_func) ();
}

```

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Version 2, June 1991

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1.54 gptfdisk 1.0.1

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```

```
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1.55 gssdp 0.14.10

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1.56 gst-plugins-base 0.10.36

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1.57 gst-plugins-lp 1.0 :3d25d9cabd

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1.58 gst-plugins-rdk rdkv-2018q1 :a7303a1e38

1.59 gst-plugins-rdk-dvr rdkv-2018q1 :1ac3e5e654

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1.60 gst1.0-plugin-dlnasrc 1.0 :3504b36860

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

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

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

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

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

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

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

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

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

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major

components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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

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

Appendix: How to Apply These Terms to Your New Libraries

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

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

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That's all there is to it!

1.62 gstreamer1.0-wpe 1.10.4

1.62.1 Available under license :

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

Preamble

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

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

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

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1

above, provided that you also meet all of these conditions:

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

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

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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.)

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

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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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!

```
<sect1 id="chapter-legal">  
<title id="title-legal">GStreamer Legal Issues</title>  
<para>
```

This part of the FAQ is based on a series of questions we asked the FSF to understand how the GPL works and how patents affects the GPL. These questions were answered by the [<ulink url="http://www.fsf.org/">](http://www.fsf.org/)

FSF lawyers</ulink>, so we view them as the final interpretation on how the GPL and LGPL interact with patents in our opinion. This consultancy was paid for by <ulink url="http://www.fluendo.com/">Fluendo</ulink> in order to obtain clear and quotable answers. These answers were certified by the FSF lawyer team and verified by FSF lawyer and law professor Eben Moglen.

<qandaset defaultlabel="qanda">

<qandaentry>

<question id="legal-distribute-three">

<para>

Can someone distribute the combination of

<itemizedlist>

<listitem><para>GStreamer, the LGPL library</para></listitem>

<listitem><para>MyPlayer, a GPL playback application</para></listitem>

<listitem><para>The binary-only Sorenson decoder</para></listitem>

</itemizedlist>

together in one distribution/operating system ? If not, what needs to be changed to make this possible ?

</para>

</question>

<answer>

<para>

This would be a problem, because the GStreamer and MyPlayer licenses would forbid it. In order to link GStreamer to MyPlayer, you need to use section 3 of the LGPL to convert GStreamer to GPL. The GPL version of GStreamer forbids linking to the Sorenson decoder. Anyway, the MyPlayer GPL license forbids this.

</para>

<para>

If the authors of MyPlayer want to permit this, we have an exception for them: the controlled interface exception from the FAQ. The idea of this is that you can't get around the GPL just by including a LGPL bit in the middle.

</para>

<para>

Note: MyPlayer is a completely fictitious application at the time of writing.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-binary-plugin">

<para>

Suppose Apple wants to write a binary-only proprietary plugin for GStreamer to decode Sorenson video, which will be shipped stand-alone, not part of a package like in the question above.

Can Apple distribute this binary-only plugin ?

</para>

</question>

<answer>

<para>

Yes, modulo certain reverse engineering requirements in section 6 of the LGPL.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-program">

<para>

If a program released under the GPL uses a library that is LGPL, and this library can dlopen plug-ins at runtime, what are the requirements for the license of the plug-in ?

</para>

</question>

<answer>

<para>

You may not distribute the plug-in with the GPL application. Distributing the plug-in alone, with the knowledge that it will be used primarily by GPL software is a bit of an edge case. We will not advise you that it would be safe to do so, but we also will not advise you that it would be absolutely forbidden.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-safe-countries">

<para>

Can someone in a country that does not have software patents distribute code covered by US patents under the GPL to people in, for example, Norway ? If he/she visits the US, can he/she be arrested ?

</para>

</question>

<answer>

<para>

Yes, he can.

No, there are no criminal penalties for patent infringement in the US.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-unsafe-countries">

<para>

Can someone from the US distribute software covered by

US patents under the GPL to people in Norway ? To people in the US ?

</para>

</question>

<answer>

<para>

This might infringe some patents, but the GPL would not forbid it absent some actual restriction, such as a court judgement or agreement.

The US government is empowered to refuse importation of patent infringing devices, including software.

</para>

</answer>

</qandaentry>

<qandaentry>

<question id="legal-gpl-library-patents">

<para>

There are a lot of GPL- or LGPL-licensed libraries that handle media codecs which have patents. Take mad, an mp3 decoding library, as an example. It is licensed under the GPL. In countries where patents are valid, does this invalidate the GPL license for this project ?

</para>

</question>

<answer>

<para>

The mere existence of a patent which might read on the program does not change anything. However, if a court judgement or other agreement prevents you from distributing libmad under GPL terms, you can not distribute it at all.

</para>

<para>

The GPL and LGPL say (sections 7 and 11):

<quote>If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all.</quote>

</para>

</answer>
</qandaentry>

<qandaentry>
<question id="legal-gpl-court-judgment">

<para>
So let's say there is a court judgement. Does this mean that the GPL license is invalid for the project everywhere, or only in the countries where it conflicts with the applicable patents ?

</para>
</question>

<answer>
<para>

The GPL operates on a per-action, not per-program basis. That is, if you are in a country which has software patents, and a court tells you that you cannot distribute (say) libmad in source code form, then you cannot distribute libmad at all. This doesn't affect anyone else.

</para>
</answer>
</qandaentry>

<qandaentry>
<question id="legal-gpl-and-binary">

<para>
Patented decoding can be implemented in GStreamer either by having a binary-only plugin do the decoding, or by writing a plugin (with any applicable license) that links to a binary-only library. Does this affect the licensing issues involved in regards to GPL/LGPL?

</para>
</question>

<answer>
<para>

No.

</para>
</answer>
</qandaentry>

<qandaentry>
<question id="legal-gpl-patent-distribution">

<para>
Is it correct that you cannot distribute the GPL mad library to decode mp3's, *even* in the case where you have obtained a valid license for decoding mp3 ?

</para>
</question>

<answer>
<para>
The only GPL-compatible patent licenses are those which are open to all parties possessing copies of GPL software which practices the teachings of the patent.
</para>

<para>
If you take a license which doesn't allow others to distribute original or modified versions of libmad practicing the same patent claims as the version you distribute, then you may not distribute at all.
</para>
</answer>
</qandaentry>
</qandaset>
</sect1>

1.63 gstreamer1.0-wpe-plugins-bad 1.10.4

1.63.1 Available under license :

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Version 2, June 1991

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

numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

derivative of the original library, and the ordinary General Public License treats it as such.

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1.64 gstreamer1.0-wpe-plugins-good 1.10.4

1.64.1 Available under license :

```
/* GStreamer ReplayGain analysis
*
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*/

/* Based on code with Copyright (C) 2001 David Robinson
* <David@Robinson.org> and Glen Sawyer <glensawyer@hotmail.com>,
* which is distributed under the LGPL as part of the vorbisgain
* program. The original code also mentions Frank Klemm
* (http://www.uni-jena.de/~pfb/mpp/) for having contributed lots of
* good code. Specifically, this is based on the file
* "gain_analysis.c" from vorbisgain version 0.34.
*/

/* Room for future improvement: Mono data is currently in fact copied
```

* to two channels which get processed normally. This means that mono
* input data is processed twice.
*/

/* Helpful information for understanding this code: The two IIR
* filters depend on previous input _and_ previous output samples (up
* to the filter's order number of samples). This explains the whole
* lot of memcpy'ing done in rg_analysis_analyze and why the context
* holds so many buffers.
*/

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```
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```

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```
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```

```
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1.65 gstreamer1.0-wpe-plugins-ugly 1.10.4

1.65.1 Available under license :

```
/* GStreamer
 *
 * Copyright (C) 2008 Sebastian Drge <slomo@circular-chaos.org>
 *
 * xingmux.c: Unit test for the xingmux element
 *
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```

```

* 02110-1301 USA
*/

#include <gst/gst.h>
#include <gst/base/gstbasetransform.h>
#include <gst/check/gstcheck.h>

#include <math.h>

#include "xingmux_testdata.h"

/* For ease of programming we use globals to keep refs for our floating
 * src and sink pads we create; otherwise we always have to do get_pad,
 * get_peer, and then remove references in every test function */
GstPad *mysrcpad, *mysinkpad;

static GstStaticPadTemplate sinktemplate = GST_STATIC_PAD_TEMPLATE ("sink",
    GST_PAD_SINK,
    GST_PAD_ALWAYS,
    GST_STATIC_CAPS ("audio/mpeg, " "mpegversion = (int) 1," "layer = (int) 3")
);
static GstStaticPadTemplate srctemplate = GST_STATIC_PAD_TEMPLATE ("src",
    GST_PAD_SRC,
    GST_PAD_ALWAYS,
    GST_STATIC_CAPS ("audio/mpeg, " "mpegversion = (int) 1," "layer = (int) 3")
);

GstElement *
setup_xingmux ()
{
    GstElement *xingmux;
    GstCaps *caps;

    GST_DEBUG ("setup_xingmux");
    xingmux = gst_check_setup_element ("xingmux");
    mysrcpad = gst_check_setup_src_pad (xingmux, &srctemplate);
    mysinkpad = gst_check_setup_sink_pad (xingmux, &sinktemplate);
    gst_pad_set_active (mysrcpad, TRUE);
    gst_pad_set_active (mysinkpad, TRUE);

    caps = gst_caps_new_simple ("audio/mpeg",
        "mpegversion", G_TYPE_INT, 1, "layer", G_TYPE_INT, 3, NULL);
    gst_check_setup_events (mysrcpad, xingmux, caps, GST_FORMAT_TIME);
    gst_caps_unref (caps);

    return xingmux;
}

```

```

void
cleanup_xingmux (GstElement * xingmux)
{
    GST_DEBUG ("cleanup_xingmux");

    g_list_foreach (buffers, (GFunc) gst_mini_object_unref, NULL);
    g_list_free (buffers);
    buffers = NULL;

    gst_pad_set_active (mysrcpad, FALSE);
    gst_pad_set_active (mysinkpad, FALSE);
    gst_check_teardown_src_pad (xingmux);
    gst_check_teardown_sink_pad (xingmux);
    gst_check_teardown_element (xingmux);
}

GST_START_TEST (test_xing_remux)
{
    GstElement *xingmux;
    GstBuffer *inbuffer;
    GList *it;
    const guint8 *verify_data;

    xingmux = setup_xingmux ();

    fail_unless (gst_element_set_state (xingmux,
        GST_STATE_PLAYING) == GST_STATE_CHANGE_SUCCESS,
        "could not set to playing");

    inbuffer = gst_buffer_new_and_alloc (sizeof (test_xing));
    gst_buffer_fill (inbuffer, 0, test_xing, sizeof (test_xing));

    ASSERT_BUFFER_REFCOUNT (inbuffer, "inbuffer", 1);

    /* pushing gives away my reference ... */
    fail_unless (gst_pad_push (mysrcpad, inbuffer) == GST_FLOW_OK);
    fail_unless (gst_pad_push_event (mysrcpad, gst_event_new_eos ()));
    /* ... and puts a new buffer on the global list */
    fail_unless_equals_int (g_list_length (buffers), 93);

    verify_data = test_xing;
    for (it = buffers; it != NULL; it = it->next) {
        GstBuffer *outbuffer = (GstBuffer *) it->data;
        GstMapInfo map;

        gst_buffer_map (outbuffer, &map, GST_MAP_READ);

        if (it == buffers) {

```



```

gint j;

/* Empty Xing header, should be the same as input data until the "Xing" marker
 * and zeroes afterwards. */
fail_unless (memcmp (map.data, test_xing, 25) == 0);
for (j = 26; j < map.size; j++)
    fail_unless (map.data[j] == 0);
verify_data += map.size;
} else if (it->next != NULL) {
    /* Should contain the raw MP3 data without changes */
    fail_unless (memcmp (map.data, verify_data, map.size) == 0);
    verify_data += map.size;
} else {
    /* Last buffer is the rewrite of the first buffer and should be exactly the same
     * as the old Xing header we had */
    fail_unless (memcmp (test_xing, map.data, map.size) == 0);
}
gst_buffer_unmap (outbuffer, &map);
}

/* cleanup */
cleanup_xingmux (xingmux);
}

```

GST_END_TEST;

```

Suite *
xingmux_suite (void)
{
    Suite *s = suite_create ("xingmux");
    TCase *tc_chain = tcase_create ("general");

    suite_add_tcase (s, tc_chain);
    tcase_add_test (tc_chain, test_xing_remux);

    return s;
}

```

```

GST_CHECK_MAIN (xingmux);
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Version 2.1, February 1999

```

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1.66 gstreamer\scripts 0.10.36 :2012-02-20

Tim-Philipp Müller

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

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

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

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

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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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PR: r0.9.7

PV: rdkv-2018q1+gitrdkv-2018q1

1.78 icu 56.1

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```
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```

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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
```

```
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```

```
## others. All Rights Reserved.
```

```

## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

## Flags for position independent code
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC

## Additional flags when building libraries and with threads
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =

## Compiler switch to embed a runtime search path
LD_RPATH=
LD_RPATH_PRE= -Wl,-rpath,

## Compiler switch to embed a library name
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

## Shared object suffix
SO = so

## Non-shared intermediate object suffix
STATIC_O = ao

## Compilation rules
%.${STATIC_O): $(srcdir)/%.c
$(COMPILE.c) $(STATICCPPFLAGS) $(STATICCFLAGS) -o $@ $<
%.o: $(srcdir)/%.c
$(COMPILE.c) $(DYNAMICCPPFLAGS) $(DYNAMICCFLAGS) -o $@ $<

%.${STATIC_O): $(srcdir)/%.cpp
$(COMPILE.cc) $(STATICCPPFLAGS) $(STATICCXXFLAGS) -o $@ $<
%.o: $(srcdir)/%.cpp
$(COMPILE.cc) $(DYNAMICCPPFLAGS) $(DYNAMICCXXFLAGS) -o $@ $<

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g\" > $@; \
[ -s $@ ] || rm -f $@'

%.d: $(srcdir)/%.cpp

```

```

@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed "s^\($*\)\.o[ :]*^1.o $@ : /g'" > $@; \
[ -s $@ ] || rm -f $@'

## Versioned libraries rules

%. $(SO).$(SO_TARGET_VERSION_MAJOR): %. $(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%. $(SO): %. $(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}. $(SO).$(SO_TARGET_VERSION) $@

## Bind internal references

# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic

# Dependencies [i.e. map files] for the final library
BIR_DEPS=

## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

## End BSD-specific setup
<!DOCTYPE HTML PUBLIC "-//W3C/DTD HTML 4.01 Transitional//EN"
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2. Chinese/Japanese Word Break Dictionary Data (cjdict.txt)

```
<pre>
```

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#

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#

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</pre>
```

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```
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1.82 iso-codes 3.65

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1.85 json-c 0.12-20140410

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1.86 jsoncpp 0.6.0-rc2

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1.87 kbd 2.0.3

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1.88 kmod 22 :42f32b8ae4

1.88.1 Available under license :

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Version 2.1, February 1999

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include/bsd/vis.h
man/bitstring.3
man/explicit_bzero.3
man/fgetln.3
man/fgetwln.3
man/funopen.3bsd
man/getbsize.3
man/heapsort.3
man/nlist.3
man/queue.3bsd
man/radixsort.3
man/reallocarray.3
man/reallocf.3
man/setmode.3
man/strmode.3
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src/expand_number.c
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man/strtonum.3
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src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
src/getentropy_linux.c
src/getentropy_osx.c

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1.92 libcgroup 0.41

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

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the

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

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

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

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

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based

on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those

sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

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

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

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

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

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact

that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Library General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

You should have received a copy of the GNU Library General Public License along with this library; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

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!

1.95 libdbus-c++ 0.9.0

:8f50db7fa0180dce98b7a2f914d45b21

1.95.1 Available under license :

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Version 2.1, February 1999

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as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

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freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
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This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use,

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

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

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

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

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

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

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

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary

General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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

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

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

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

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

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

e) Verify that the user has already received a copy of these

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

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1.99 libevent 2.0.22

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1.104 libgpg-error 1.21

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1.105 libid3tag 0.15.1b

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1.106 libidn 1.32

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Version 2.1, February 1999

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

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

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

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

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

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

the scope of this License.

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

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

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

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

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

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

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

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

threshold for this to be true is not precisely defined by law.

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

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

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

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

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

specified materials from the same place.

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

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

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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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<signature of Ty Coon>, 1 April 1990
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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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

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

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

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

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

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

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

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

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to

distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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

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of these things:

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

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

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

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MNGPLG

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By Jason Summers <jason1@pobox.com>

Web site: <<http://pobox.com/~jason1/mngplg/>>

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/* * at the chunk level. */
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```

1.110 libnl 3.2.25

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1.111 libogg 1.3.2

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1.112 liboil 0.3.17

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LICENSE: BSD

PR: r5

PV: 0.3.17

/*

* LIBOIL - Library of Optimized Inner Loops

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*/

```
#ifdef HAVE_CONFIG_H
```

```
#include "config.h"
```

```
#endif
```

```
#include <liboil/liboil.h>
```

```
#include <liboil/liboilfunction.h>
```

```
#include <stdio.h>
```

```
#include <string.h>
```

```
#include <math.h>
```

```
void test(void)
```

```
{
```

```
int16_t src2[80];
```

```

int16_t src1[80];
int16_t dest[80];
int i;
int j;

for(i=0;i<8;i++){
  for(j=0;j<8;j++){
    dest[i*10+j] = 0;
    //src1[i*10+j] = i*8+j;
    //src1[i*10+j] = rint(100*cos((j+0.5)*i*M_PI/8));
    src1[i*10+j] = 100*(i+j);
    src2[i*10+j] = 2;
  }
}

oil_fdct8x8s_s16 (dest, 20, src1, 20);

for(i=0;i<8;i++){
  for(j=0;j<8;j++){
    printf("%4d ",src1[i*10+j]);
  }
  printf("\n");
}
printf("\n");
for(i=0;i<8;i++){
  for(j=0;j<8;j++){
    printf("%4d ",dest[i*10+j]);
  }
  printf("\n");
}
}

int main (int argc, char *argv[])
{
  OilFunctionClass *klass;
  //OilFunctionImpl *impl;

  oil_init ();

  klass = oil_class_get ("fdct8x8s_s16");

  #if 0
  /* FIXME this doesn't check for CPU validity */
  oil_class_choose_by_name (klass, "fdct8x8s_s16_mmx");
  impl = klass->chosen_impl;
  printf("chosen=%p\n", impl);
  impl = klass->reference_impl;
  printf("ref=%p\n", impl);

```

```
test();
#endif

return 0;
}
```

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1.113 libpam 1.2.1

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1.114 libpcre 8.39

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1.115 libpng 1.6.28

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January 5, 2017

1.116 libproxy 0.4.11

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</tr></table>
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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.

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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1.121 libtheora 1.1.1

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1.122 libtool 2.4.6

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1.123 libupnp 1.6.19 :2013-11-14 Marcelo

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1.124 libusb-compat 0.1.5

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1.125 libusb1 1.0.20

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1.129 libwpe 0.2 :4be4c7df57

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1.131 libxml2 2.9.4

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/*

* hash.c: chained hash tables

*

* Reference: Your favorite introductory book on algorithms


```
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*
* Author: breese@users.sourceforge.net
*/
```

```
#define IN_LIBXML
#include "libxml.h"
```

```
#include <string.h>
#ifdef HAVE_STDLIB_H
#include <stdlib.h>
#endif
#ifdef HAVE_TIME_H
#include <time.h>
#endif
```

```
/*
* Following http://www.ocert.org/advisories/ocert-2011-003.html
* it seems that having hash randomization might be a good idea
* when using XML with untrusted data
*/
#ifdef HAVE_TIME
#ifdef HAVE_SRAND
#ifdef HAVE_RAND
#define HASH_RANDOMIZATION
#endif
#endif
#endif
```

```
#include <libxml/parser.h>
#include <libxml/hash.h>
#include <libxml/xmlmemory.h>
#include <libxml/xmlerror.h>
#include <libxml/globals.h>
```

```
#define MAX_HASH_LEN 8
```

```
/* #define DEBUG_GROW */
```

```
/*
* A single entry in the hash table
*/
```

```

typedef struct _xmlHashEntry xmlHashEntry;
typedef xmlHashEntry *xmlHashEntryPtr;
struct _xmlHashEntry {
    struct _xmlHashEntry *next;
    xmlChar *name;
    xmlChar *name2;
    xmlChar *name3;
    void *payload;
    int valid;
};

/*
 * The entire hash table
 */
struct _xmlHashTable {
    struct _xmlHashEntry *table;
    int size;
    int nbElems;
    xmlDictPtr dict;
#ifdef HASH_RANDOMIZATION
    int random_seed;
#endif
};

/*
 * xmlHashComputeKey:
 * Calculate the hash key
 */
static unsigned long
xmlHashComputeKey(xmlHashTablePtr table, const xmlChar *name,
                  const xmlChar *name2, const xmlChar *name3) {
    unsigned long value = 0L;
    char ch;

#ifdef HASH_RANDOMIZATION
    value = table->random_seed;
#endif
    if (name != NULL) {
        value += 30 * (*name);
        while ((ch = *name++) != 0) {
            value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
        }
    }
    value = value ^ ((value << 5) + (value >> 3));
    if (name2 != NULL) {
        while ((ch = *name2++) != 0) {
            value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
        }
    }
}

```

```

    }
    value = value ^ ((value << 5) + (value >> 3));
    if (name3 != NULL) {
while ((ch = *name3++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
}
}
    return (value % table->size);
}

```

static unsigned long

```

xmlHashComputeQKey(xmlHashTablePtr table,
    const xmlChar *prefix, const xmlChar *name,
    const xmlChar *prefix2, const xmlChar *name2,
    const xmlChar *prefix3, const xmlChar *name3) {
    unsigned long value = 0L;
    char ch;

```

```

#ifdef HASH_RANDOMIZATION

```

```

    value = table->random_seed;
#endif
    if (prefix != NULL)
value += 30 * (*prefix);
    else
value += 30 * (*name);

    if (prefix != NULL) {
while ((ch = *prefix++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
}
value = value ^ ((value << 5) + (value >> 3) + (unsigned long)!);
}
    if (name != NULL) {
while ((ch = *name++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
}
}
    value = value ^ ((value << 5) + (value >> 3));
    if (prefix2 != NULL) {
while ((ch = *prefix2++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
}
value = value ^ ((value << 5) + (value >> 3) + (unsigned long)!);
}
    if (name2 != NULL) {
while ((ch = *name2++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
}
}

```

```

    }
    value = value ^ ((value << 5) + (value >> 3));
    if (prefix3 != NULL) {
while ((ch = *prefix3++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
}
value = value ^ ((value << 5) + (value >> 3) + (unsigned long)');
    }
    if (name3 != NULL) {
while ((ch = *name3++) != 0) {
    value = value ^ ((value << 5) + (value >> 3) + (unsigned long)ch);
}
    }
    return (value % table->size);
}

/**
 * xmlHashCreate:
 * @size: the size of the hash table
 *
 * Create a new xmlHashTablePtr.
 *
 * Returns the newly created object, or NULL if an error occurred.
 */
xmlHashTablePtr
xmlHashCreate(int size) {
    xmlHashTablePtr table;

    if (size <= 0)
        size = 256;

    table = xmlMalloc(sizeof(xmlHashTable));
    if (table) {
        table->dict = NULL;
        table->size = size;
        table->nbElems = 0;
        table->table = xmlMalloc(size * sizeof(xmlHashEntry));
        if (table->table) {
            memset(table->table, 0, size * sizeof(xmlHashEntry));
#ifdef HASH_RANDOMIZATION
            table->random_seed = __xmlRandom();
#endif
        }
        return(table);
    }
    xmlFree(table);
}
return(NULL);
}

```

```

/**
 * xmlHashCreateDict:
 * @size: the size of the hash table
 * @dict: a dictionary to use for the hash
 *
 * Create a new xmlHashTablePtr which will use @dict as the internal dictionary
 *
 * Returns the newly created object, or NULL if an error occurred.
 */
xmlHashTablePtr
xmlHashCreateDict(int size, xmlDictPtr dict) {
    xmlHashTablePtr table;

    table = xmlHashCreate(size);
    if (table != NULL) {
        table->dict = dict;
        xmlDictReference(dict);
    }
    return(table);
}

/**
 * xmlHashGrow:
 * @table: the hash table
 * @size: the new size of the hash table
 *
 * resize the hash table
 *
 * Returns 0 in case of success, -1 in case of failure
 */
static int
xmlHashGrow(xmlHashTablePtr table, int size) {
    unsigned long key;
    int oldsize, i;
    xmlHashEntryPtr iter, next;
    struct _xmlHashEntry *oldtable;
#ifdef DEBUG_GROW
    unsigned long nbElem = 0;
#endif

    if (table == NULL)
        return(-1);
    if (size < 8)
        return(-1);
    if (size > 8 * 2048)
        return(-1);

```

```

oldsize = table->size;
oldtable = table->table;
if (oldtable == NULL)
    return(-1);

table->table = xmlMalloc(size * sizeof(xmlHashEntry));
if (table->table == NULL) {
table->table = oldtable;
return(-1);
}
memset(table->table, 0, size * sizeof(xmlHashEntry));
table->size = size;

/* If the two loops are merged, there would be situations where
a new entry needs to be allocated and data copied into it from
the main table. So instead, we run through the array twice, first
copying all the elements in the main array (where we can't get
conflicts) and then the rest, so we only free (and don't allocate)
*/
for (i = 0; i < oldsize; i++) {
if (oldtable[i].valid == 0)
    continue;
key = xmlHashComputeKey(table, oldtable[i].name, oldtable[i].name2,
    oldtable[i].name3);
memcpy(&(table->table[key]), &(oldtable[i]), sizeof(xmlHashEntry));
table->table[key].next = NULL;
}

for (i = 0; i < oldsize; i++) {
iter = oldtable[i].next;
while (iter) {
    next = iter->next;

/*
    * put back the entry in the new table
    */

    key = xmlHashComputeKey(table, iter->name, iter->name2,
        iter->name3);
    if (table->table[key].valid == 0) {
memcpy(&(table->table[key]), iter, sizeof(xmlHashEntry));
table->table[key].next = NULL;
xmlFree(iter);
    } else {
iter->next = table->table[key].next;
table->table[key].next = iter;
    }
}
}

```

```

#ifdef DEBUG_GROW
    nbElem++;
#endif

    iter = next;
}
}

xmlFree(oldtable);

#ifdef DEBUG_GROW
    xmlGenericError(xmlGenericErrorContext,
        "xmlHashGrow : from %d to %d, %d elems\n", oldsize, size, nbElem);
#endif

return(0);
}

/**
 * xmlHashFree:
 * @table: the hash table
 * @f: the deallocator function for items in the hash
 *
 * Free the hash @table and its contents. The userdata is
 * deallocated with @f if provided.
 */
void
xmlHashFree(xmlHashTablePtr table, xmlHashDeallocator f) {
    int i;
    xmlHashEntryPtr iter;
    xmlHashEntryPtr next;
    int inside_table = 0;
    int nbElems;

    if (table == NULL)
return;
    if (table->table) {
nbElems = table->nbElems;
for(i = 0; (i < table->size) && (nbElems > 0); i++) {
    iter = &(table->table[i]);
    if (iter->valid == 0)
continue;
    inside_table = 1;
    while (iter) {
next = iter->next;
if ((f != NULL) && (iter->payload != NULL))
    f(iter->payload, iter->name);
if (table->dict == NULL) {

```

```

    if (iter->name)
xmlFree(iter->name);
    if (iter->name2)
xmlFree(iter->name2);
    if (iter->name3)
xmlFree(iter->name3);
}
iter->payload = NULL;
if (!inside_table)
    xmlFree(iter);
nbElems--;
inside_table = 0;
iter = next;
}
}
xmlFree(table->table);
}
if (table->dict)
    xmlDictFree(table->dict);
xmlFree(table);
}

/**
 * xmlHashAddEntry:
 * @table: the hash table
 * @name: the name of the userdata
 * @userdata: a pointer to the userdata
 *
 * Add the @userdata to the hash @table. This can later be retrieved
 * by using the @name. Duplicate names generate errors.
 *
 * Returns 0 the addition succeeded and -1 in case of error.
 */
int
xmlHashAddEntry(xmlHashTablePtr table, const xmlChar *name, void *userdata) {
    return(xmlHashAddEntry3(table, name, NULL, NULL, userdata));
}

/**
 * xmlHashAddEntry2:
 * @table: the hash table
 * @name: the name of the userdata
 * @name2: a second name of the userdata
 * @userdata: a pointer to the userdata
 *
 * Add the @userdata to the hash @table. This can later be retrieved
 * by using the (@name, @name2) tuple. Duplicate tuples generate errors.
 *

```



```

* Returns 0 the addition succeeded and -1 in case of error.
*/
int
xmlHashAddEntry2(xmlHashTablePtr table, const xmlChar *name,
                 const xmlChar *name2, void *userdata) {
    return(xmlHashAddEntry3(table, name, name2, NULL, userdata));
}

/**
 * xmlHashUpdateEntry:
 * @table: the hash table
 * @name: the name of the userdata
 * @userdata: a pointer to the userdata
 * @f: the deallocator function for replaced item (if any)
 *
 * Add the @userdata to the hash @table. This can later be retrieved
 * by using the @name. Existing entry for this @name will be removed
 * and freed with @f if found.
 *
 * Returns 0 the addition succeeded and -1 in case of error.
*/
int
xmlHashUpdateEntry(xmlHashTablePtr table, const xmlChar *name,
                  void *userdata, xmlHashDeallocator f) {
    return(xmlHashUpdateEntry3(table, name, NULL, NULL, userdata, f));
}

/**
 * xmlHashUpdateEntry2:
 * @table: the hash table
 * @name: the name of the userdata
 * @name2: a second name of the userdata
 * @userdata: a pointer to the userdata
 * @f: the deallocator function for replaced item (if any)
 *
 * Add the @userdata to the hash @table. This can later be retrieved
 * by using the (@name, @name2) tuple. Existing entry for this tuple will
 * be removed and freed with @f if found.
 *
 * Returns 0 the addition succeeded and -1 in case of error.
*/
int
xmlHashUpdateEntry2(xmlHashTablePtr table, const xmlChar *name,
                   const xmlChar *name2, void *userdata,
                   xmlHashDeallocator f) {
    return(xmlHashUpdateEntry3(table, name, name2, NULL, userdata, f));
}

```

```

/**
 * xmlHashLookup:
 * @table: the hash table
 * @name: the name of the userdata
 *
 * Find the userdata specified by the @name.
 *
 * Returns the pointer to the userdata
 */
void *
xmlHashLookup(xmlHashTablePtr table, const xmlChar *name) {
    return(xmlHashLookup3(table, name, NULL, NULL));
}

/**
 * xmlHashLookup2:
 * @table: the hash table
 * @name: the name of the userdata
 * @name2: a second name of the userdata
 *
 * Find the userdata specified by the (@name, @name2) tuple.
 *
 * Returns the pointer to the userdata
 */
void *
xmlHashLookup2(xmlHashTablePtr table, const xmlChar *name,
    const xmlChar *name2) {
    return(xmlHashLookup3(table, name, name2, NULL));
}

/**
 * xmlHashQLookup:
 * @table: the hash table
 * @prefix: the prefix of the userdata
 * @name: the name of the userdata
 *
 * Find the userdata specified by the QName @prefix:@name/@name.
 *
 * Returns the pointer to the userdata
 */
void *
xmlHashQLookup(xmlHashTablePtr table, const xmlChar *prefix,
    const xmlChar *name) {
    return(xmlHashQLookup3(table, prefix, name, NULL, NULL, NULL, NULL));
}

/**
 * xmlHashQLookup2:

```

```

* @table: the hash table
* @prefix: the prefix of the userdata
* @name: the name of the userdata
* @prefix2: the second prefix of the userdata
* @name2: a second name of the userdata
*
* Find the userdata specified by the QNames tuple
*
* Returns the pointer to the userdata
*/
void *
xmlHashQLookup2(xmlHashTablePtr table, const xmlChar *prefix,
                const xmlChar *name, const xmlChar *prefix2,
                const xmlChar *name2) {
    return(xmlHashQLookup3(table, prefix, name, prefix2, name2, NULL, NULL));
}

/**
* xmlHashAddEntry3:
* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
* @name3: a third name of the userdata
* @userdata: a pointer to the userdata
*
* Add the @userdata to the hash @table. This can later be retrieved
* by using the tuple (@name, @name2, @name3). Duplicate entries generate
* errors.
*
* Returns 0 the addition succeeded and -1 in case of error.
*/
int
xmlHashAddEntry3(xmlHashTablePtr table, const xmlChar *name,
                const xmlChar *name2, const xmlChar *name3,
                void *userdata) {
    unsigned long key, len = 0;
    xmlHashEntryPtr entry;
    xmlHashEntryPtr insert;

    if ((table == NULL) || (name == NULL))
        return(-1);

    /*
     * If using a dict internalize if needed
     */
    if (table->dict) {
        if (!xmlDictOwns(table->dict, name)) {
            name = xmlDictLookup(table->dict, name, -1);
        }
    }
}

```

```

    if (name == NULL)
        return(-1);
}
    if ((name2 != NULL) && (!xmlDictOwns(table->dict, name2))) {
name2 = xmlDictLookup(table->dict, name2, -1);
    if (name2 == NULL)
        return(-1);
}
    if ((name3 != NULL) && (!xmlDictOwns(table->dict, name3))) {
name3 = xmlDictLookup(table->dict, name3, -1);
    if (name3 == NULL)
        return(-1);
}
}
}

/*
 * Check for duplicate and insertion location.
 */
key = xmlHashComputeKey(table, name, name2, name3);
if (table->table[key].valid == 0) {
insert = NULL;
} else {
    if (table->dict) {
        for (insert = &(table->table[key]); insert->next != NULL;
insert = insert->next) {
if ((insert->name == name) &&
    (insert->name2 == name2) &&
    (insert->name3 == name3))
        return(-1);
len++;
        }
        if ((insert->name == name) &&
(insert->name2 == name2) &&
(insert->name3 == name3))
            return(-1);
        } else {
            for (insert = &(table->table[key]); insert->next != NULL;
insert = insert->next) {
if ((xmlStrEqual(insert->name, name)) &&
    (xmlStrEqual(insert->name2, name2)) &&
    (xmlStrEqual(insert->name3, name3)))
                return(-1);
len++;
            }
            if ((xmlStrEqual(insert->name, name)) &&
(xmlStrEqual(insert->name2, name2)) &&
(xmlStrEqual(insert->name3, name3)))
                return(-1);

```

```

}
}

if (insert == NULL) {
entry = &(table->table[key]);
} else {
entry = xmlMalloc(sizeof(xmlHashEntry));
if (entry == NULL)
return(-1);
}

if (table->dict != NULL) {
entry->name = (xmlChar *) name;
entry->name2 = (xmlChar *) name2;
entry->name3 = (xmlChar *) name3;
} else {
entry->name = xmlStrdup(name);
entry->name2 = xmlStrdup(name2);
entry->name3 = xmlStrdup(name3);
}
entry->payload = userdata;
entry->next = NULL;
entry->valid = 1;

if (insert != NULL)
insert->next = entry;

table->nbElems++;

if (len > MAX_HASH_LEN)
xmlHashGrow(table, MAX_HASH_LEN * table->size);

return(0);
}

/**
 * xmlHashUpdateEntry3:
 * @table: the hash table
 * @name: the name of the userdata
 * @name2: a second name of the userdata
 * @name3: a third name of the userdata
 * @userdata: a pointer to the userdata
 * @f: the deallocator function for replaced item (if any)
 *
 * Add the @userdata to the hash @table. This can later be retrieved
 * by using the tuple (@name, @name2, @name3). Existing entry for this tuple
 * will be removed and freed with @f if found.

```

```

*
* Returns 0 the addition succeeded and -1 in case of error.
*/
int
xmlHashUpdateEntry3(xmlHashTablePtr table, const xmlChar *name,
    const xmlChar *name2, const xmlChar *name3,
    void *userdata, xmlHashDeallocator f) {
    unsigned long key;
    xmlHashEntryPtr entry;
    xmlHashEntryPtr insert;

    if ((table == NULL) || name == NULL)
return(-1);

    /*
    * If using a dict internalize if needed
    */
    if (table->dict) {
        if (!xmlDictOwns(table->dict, name)) {
            name = xmlDictLookup(table->dict, name, -1);
            if (name == NULL)
                return(-1);
        }
        if ((name2 != NULL) && (!xmlDictOwns(table->dict, name2))) {
            name2 = xmlDictLookup(table->dict, name2, -1);
            if (name2 == NULL)
                return(-1);
        }
        if ((name3 != NULL) && (!xmlDictOwns(table->dict, name3))) {
            name3 = xmlDictLookup(table->dict, name3, -1);
            if (name3 == NULL)
                return(-1);
        }
    }

    /*
    * Check for duplicate and insertion location.
    */
    key = xmlHashComputeKey(table, name, name2, name3);
    if (table->table[key].valid == 0) {
insert = NULL;
    } else {
        if (table->dict) {
            for (insert = &(table->table[key]); insert->next != NULL;
insert = insert->next) {
                if ((insert->name == name) &&
                    (insert->name2 == name2) &&
                    (insert->name3 == name3)) {

```

```

    if (f)
f(insert->payload, insert->name);
    insert->payload = userdata;
    return(0);
}
}
    if ((insert->name == name) &&
(insert->name2 == name2) &&
(insert->name3 == name3)) {
if (f)
    f(insert->payload, insert->name);
insert->payload = userdata;
return(0);
}
} else {
    for (insert = &(table->table[key]); insert->next != NULL;
insert = insert->next) {
if ((xmlStrEqual(insert->name, name) &&
(xmlStrEqual(insert->name2, name2) &&
(xmlStrEqual(insert->name3, name3))) {
    if (f)
f(insert->payload, insert->name);
    insert->payload = userdata;
    return(0);
}
}
    if ((xmlStrEqual(insert->name, name) &&
(xmlStrEqual(insert->name2, name2) &&
(xmlStrEqual(insert->name3, name3))) {
if (f)
    f(insert->payload, insert->name);
insert->payload = userdata;
return(0);
}
}
}

    if (insert == NULL) {
entry = &(table->table[key]);
    } else {
entry = xmlMalloc(sizeof(xmlHashEntry));
if (entry == NULL)
    return(-1);
}

    if (table->dict != NULL) {
entry->name = (xmlChar *) name;
entry->name2 = (xmlChar *) name2;

```

```

    entry->name3 = (xmlChar *) name3;
} else {
entry->name = xmlStrdup(name);
entry->name2 = xmlStrdup(name2);
entry->name3 = xmlStrdup(name3);
}
entry->payload = userdata;
entry->next = NULL;
entry->valid = 1;
table->nbElems++;

if (insert != NULL) {
insert->next = entry;
}
return(0);
}

/**
 * xmlHashLookup3:
 * @table: the hash table
 * @name: the name of the userdata
 * @name2: a second name of the userdata
 * @name3: a third name of the userdata
 *
 * Find the userdata specified by the (@name, @name2, @name3) tuple.
 *
 * Returns the a pointer to the userdata
 */
void *
xmlHashLookup3(xmlHashTablePtr table, const xmlChar *name,
               const xmlChar *name2, const xmlChar *name3) {
    unsigned long key;
    xmlHashEntryPtr entry;

    if (table == NULL)
return(NULL);
    if (name == NULL)
return(NULL);
    key = xmlHashComputeKey(table, name, name2, name3);
    if (table->table[key].valid == 0)
return(NULL);
    if (table->dict) {
for (entry = &(table->table[key]); entry != NULL; entry = entry->next) {
    if ((entry->name == name) &&
        (entry->name2 == name2) &&
        (entry->name3 == name3))
return(entry->payload);
}
}
}

```



```

}
}
for (entry = &(table->table[key]); entry != NULL; entry = entry->next) {
if ((xmlStrEqual(entry->name, name)) &&
    (xmlStrEqual(entry->name2, name2)) &&
    (xmlStrEqual(entry->name3, name3)))
    return(entry->payload);
}
return(NULL);
}

```

```
/**
```

```
* xmlHashQLookup3:
```

```
* @table: the hash table
```

```
* @prefix: the prefix of the userdata
```

```
* @name: the name of the userdata
```

```
* @prefix2: the second prefix of the userdata
```

```
* @name2: a second name of the userdata
```

```
* @prefix3: the third prefix of the userdata
```

```
* @name3: a third name of the userdata
```

```
*
```

```
* Find the userdata specified by the (@name, @name2, @name3) tuple.
```

```
*
```

```
* Returns the a pointer to the userdata
```

```
*/
```

```
void *
```

```
xmlHashQLookup3(xmlHashTablePtr table,
                const xmlChar *prefix, const xmlChar *name,
                const xmlChar *prefix2, const xmlChar *name2,
                const xmlChar *prefix3, const xmlChar *name3) {
    unsigned long key;
    xmlHashEntryPtr entry;

```

```
    if (table == NULL)
```

```
        return(NULL);
```

```
    if (name == NULL)
```

```
        return(NULL);
```

```
    key = xmlHashComputeQKey(table, prefix, name, prefix2,
                            name2, prefix3, name3);
```

```
    if (table->table[key].valid == 0)
```

```
        return(NULL);
```

```
    for (entry = &(table->table[key]); entry != NULL; entry = entry->next) {
```

```
        if ((xmlStrQEqual(prefix, name, entry->name)) &&
```

```
            (xmlStrQEqual(prefix2, name2, entry->name2)) &&
```

```
            (xmlStrQEqual(prefix3, name3, entry->name3)))
```

```
            return(entry->payload);
```

```
        }
```

```
    return(NULL);
```

```

}

typedef struct {
    xmlHashScanner hashscanner;
    void *data;
} stubData;

static void
stubHashScannerFull (void *payload, void *data, const xmlChar *name,
                    const xmlChar *name2 ATTRIBUTE_UNUSED,
                    const xmlChar *name3 ATTRIBUTE_UNUSED) {
    stubData *stubdata = (stubData *) data;
    stubdata->hashscanner (payload, stubdata->data, (xmlChar *) name);
}

/**
 * xmlHashScan:
 * @table: the hash table
 * @f: the scanner function for items in the hash
 * @data: extra data passed to f
 *
 * Scan the hash @table and applied @f to each value.
 */
void
xmlHashScan(xmlHashTablePtr table, xmlHashScanner f, void *data) {
    stubData stubdata;
    stubdata.data = data;
    stubdata.hashscanner = f;
    xmlHashScanFull (table, stubHashScannerFull, &stubdata);
}

/**
 * xmlHashScanFull:
 * @table: the hash table
 * @f: the scanner function for items in the hash
 * @data: extra data passed to f
 *
 * Scan the hash @table and applied @f to each value.
 */
void
xmlHashScanFull(xmlHashTablePtr table, xmlHashScannerFull f, void *data) {
    int i, nb;
    xmlHashEntryPtr iter;
    xmlHashEntryPtr next;

    if (table == NULL)
        return;
    if (f == NULL)

```

```

return;

if (table->table) {
for(i = 0; i < table->size; i++) {
    if (table->table[i].valid == 0)
continue;
    iter = &(table->table[i]);
    while (iter) {
next = iter->next;
        nb = table->nbElems;
if ((f != NULL) && (iter->payload != NULL))
    f(iter->payload, data, iter->name,
        iter->name2, iter->name3);
        if (nb != table->nbElems) {
            /* table was modified by the callback, be careful */
            if (iter == &(table->table[i])) {
                if (table->table[i].valid == 0)
                    iter = NULL;
                if (table->table[i].next != next)
                    iter = &(table->table[i]);
            } else
                iter = next;
        } else
            iter = next;
    }
}
}

/**
 * xmlHashScan3:
 * @table: the hash table
 * @name: the name of the userdata or NULL
 * @name2: a second name of the userdata or NULL
 * @name3: a third name of the userdata or NULL
 * @f: the scanner function for items in the hash
 * @data: extra data passed to f
 *
 * Scan the hash @table and applied @f to each value matching
 * (@name, @name2, @name3) tuple. If one of the names is null,
 * the comparison is considered to match.
 */
void
xmlHashScan3(xmlHashTablePtr table, const xmlChar *name,
             const xmlChar *name2, const xmlChar *name3,
             xmlHashScanner f, void *data) {
xmlHashScanFull3 (table, name, name2, name3,
                 (xmlHashScannerFull) f, data);
}

```

```

}

/**
 * xmlHashScanFull3:
 * @table: the hash table
 * @name: the name of the userdata or NULL
 * @name2: a second name of the userdata or NULL
 * @name3: a third name of the userdata or NULL
 * @f: the scanner function for items in the hash
 * @data: extra data passed to f
 *
 * Scan the hash @table and applied @f to each value matching
 * (@name, @name2, @name3) tuple. If one of the names is null,
 * the comparison is considered to match.
 */
void
xmlHashScanFull3(xmlHashTablePtr table, const xmlChar *name,
                 const xmlChar *name2, const xmlChar *name3,
                 xmlHashScannerFull f, void *data) {
    int i;
    xmlHashEntryPtr iter;
    xmlHashEntryPtr next;

    if (table == NULL)
        return;
    if (f == NULL)
        return;

    if (table->table) {
        for(i = 0; i < table->size; i++) {
            if (table->table[i].valid == 0)
                continue;
            iter = &(table->table[i]);
            while (iter) {
                next = iter->next;
                if (((name == NULL) || (xmlStrEqual(name, iter->name))) &&
                    ((name2 == NULL) || (xmlStrEqual(name2, iter->name2))) &&
                    ((name3 == NULL) || (xmlStrEqual(name3, iter->name3))) &&
                    (iter->payload != NULL)) {
                    f(iter->payload, data, iter->name,
                      iter->name2, iter->name3);
                }
                iter = next;
            }
        }
    }
}

```

```

/**
 * xmlHashCopy:
 * @table: the hash table
 * @f: the copier function for items in the hash
 *
 * Scan the hash @table and applied @f to each value.
 *
 * Returns the new table or NULL in case of error.
 */
xmlHashTablePtr
xmlHashCopy(xmlHashTablePtr table, xmlHashCopier f) {
    int i;
    xmlHashEntryPtr iter;
    xmlHashEntryPtr next;
    xmlHashTablePtr ret;

    if (table == NULL)
        return(NULL);
    if (f == NULL)
        return(NULL);

    ret = xmlHashCreate(table->size);
    if (ret == NULL)
        return(NULL);

    if (table->table) {
        for(i = 0; i < table->size; i++) {
            if (table->table[i].valid == 0)
                continue;
            iter = &(table->table[i]);
            while (iter) {
                next = iter->next;
                xmlHashAddEntry3(ret, iter->name, iter->name2,
                    iter->name3, f(iter->payload, iter->name));
                iter = next;
            }
        }
        ret->nbElems = table->nbElems;
        return(ret);
    }

/**
 * xmlHashSize:
 * @table: the hash table
 *
 * Query the number of elements installed in the hash @table.
 *

```

```

* Returns the number of elements in the hash table or
* -1 in case of error
*/
int
xmlHashSize(xmlHashTablePtr table) {
    if (table == NULL)
        return(-1);
    return(table->nbElems);
}

/**
* xmlHashRemoveEntry:
* @table: the hash table
* @name: the name of the userdata
* @f: the deallocator function for removed item (if any)
*
* Find the userdata specified by the @name and remove
* it from the hash @table. Existing userdata for this tuple will be removed
* and freed with @f.
*
* Returns 0 if the removal succeeded and -1 in case of error or not found.
*/
int xmlHashRemoveEntry(xmlHashTablePtr table, const xmlChar *name,
    xmlHashDeallocator f) {
    return(xmlHashRemoveEntry3(table, name, NULL, NULL, f));
}

/**
* xmlHashRemoveEntry2:
* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
* @f: the deallocator function for removed item (if any)
*
* Find the userdata specified by the (@name, @name2) tuple and remove
* it from the hash @table. Existing userdata for this tuple will be removed
* and freed with @f.
*
* Returns 0 if the removal succeeded and -1 in case of error or not found.
*/
int
xmlHashRemoveEntry2(xmlHashTablePtr table, const xmlChar *name,
    const xmlChar *name2, xmlHashDeallocator f) {
    return(xmlHashRemoveEntry3(table, name, name2, NULL, f));
}

/**
* xmlHashRemoveEntry3:

```

```

* @table: the hash table
* @name: the name of the userdata
* @name2: a second name of the userdata
* @name3: a third name of the userdata
* @f: the deallocator function for removed item (if any)
*
* Find the userdata specified by the (@name, @name2, @name3) tuple and remove
* it from the hash @table. Existing userdata for this tuple will be removed
* and freed with @f.
*
* Returns 0 if the removal succeeded and -1 in case of error or not found.
*/

```

```
int
```

```

xmlHashRemoveEntry3(xmlHashTablePtr table, const xmlChar *name,
    const xmlChar *name2, const xmlChar *name3, xmlHashDeallocator f) {
    unsigned long key;
    xmlHashEntryPtr entry;
    xmlHashEntryPtr prev = NULL;

    if (table == NULL || name == NULL)
        return(-1);

    key = xmlHashComputeKey(table, name, name2, name3);
    if (table->table[key].valid == 0) {
        return(-1);
    } else {
        for (entry = &(table->table[key]); entry != NULL; entry = entry->next) {
            if (xmlStrEqual(entry->name, name) &&
                xmlStrEqual(entry->name2, name2) &&
                xmlStrEqual(entry->name3, name3)) {
                if ((f != NULL) && (entry->payload != NULL))
                    f(entry->payload, entry->name);
                entry->payload = NULL;
            }
            if (table->dict == NULL) {
                if(entry->name)
                    xmlFree(entry->name);
                if(entry->name2)
                    xmlFree(entry->name2);
                if(entry->name3)
                    xmlFree(entry->name3);
            }
            if(prev) {
                prev->next = entry->next;
                xmlFree(entry);
            } else {
                if (entry->next == NULL) {
                    entry->valid = 0;
                } else {

```

```

entry = entry->next;
memcpy(&(table->table[key]), entry, sizeof(xmlHashEntry));
xmlFree(entry);
}
}
    table->nbElems--;
    return(0);
}
    prev = entry;
}
    return(-1);
}
}

```

```

#define bottom_hash
#include "elfgcchack.h"

```

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1.132 libxslt 1.1.28

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1.133 lighttpd 1.4.34

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1.134 log4c 1.2.3

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* GSS-API Programming Guide
* Part No: 816-1331-11
* Sun Microsystems, Inc. 4150 Network Circle Santa Clara, CA 95054 U.S.A.
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Network Working Group H. Krawczyk
Request for Comments: 2104 IBM
Category: Informational M. Bellare
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1.140 mongoose 2.6

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1.143 ncurses 6.0 :a25949ff65

1.143.1 Available under license :

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

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

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

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

Files: *

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Files: alocal.m4 package

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-- vile: txtmode file-encoding=utf-8

1.144 nemo-qml-plugin-dbus 2.0.7

:c4d98477aa

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/*****

**

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```

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```

```

#ifndef DECLARATIVEDBUSINTERFACE_H
#define DECLARATIVEDBUSINTERFACE_H

```

```

#include <QObject>
#include <QMap>
#include <QPair>
#include <QPointer>
#include <QVariant>
#include <QDBusArgument>
#include <QJsonValue>
#include <QQmlParserStatus>
#include <QUrl>
#include <QDBusPendingCallWatcher>
#include <QDBusMessage>
#include <QPair>

```

```

#include "declarativedbus.h"

```

```

class DeclarativeDBusInterface : public QObject, public QQmlParserStatus
{
    Q_OBJECT

    Q_PROPERTY(QString service READ service WRITE setService NOTIFY serviceChanged)
    Q_PROPERTY(QString path READ path WRITE setPath NOTIFY pathChanged)
    Q_PROPERTY(QString iface READ interface WRITE setInterface NOTIFY interfaceChanged)
    Q_PROPERTY(DeclarativeDBus::BusType bus READ bus WRITE setBus NOTIFY busChanged)
    Q_PROPERTY(bool signalsEnabled READ signalsEnabled WRITE setSignalsEnabled NOTIFY

```

```

signalsEnabledChanged)
    Q_PROPERTY(bool propertiesEnabled READ propertiesEnabled WRITE setPropertiesEnabled NOTIFY
propertiesEnabledChanged)

    Q_INTERFACES(QQmlParserStatus)

public:
    DeclarativeDBusInterface(QObject *parent = 0);
    ~DeclarativeDBusInterface();

    QString service() const;
    void setService(const QString &service);

    QString path() const;
    void setPath(const QString &path);

    QString interface() const;
    void setInterface(const QString &interface);

    DeclarativeDBus::BusType bus() const;
    void setBus(DeclarativeDBus::BusType bus);

    bool signalsEnabled() const;
    void setSignalsEnabled(bool enabled);

    bool signalsConnected() const;

    bool propertiesEnabled() const;
    void setPropertiesEnabled(bool enabled);

    void propertiesConnected() const;

    Q_INVOKABLE void call(const QString &method,
        const QJSValue &arguments = QJSValue::UndefinedValue,
        const QJSValue &callback = QJSValue::UndefinedValue,
        const QJSValue &errorCallback = QJSValue::UndefinedValue);
    Q_INVOKABLE bool typedCall(const QString &method, const QJSValue &arguments,
        const QJSValue &callback=QJSValue::UndefinedValue,
        const QJSValue &errorCallback=QJSValue::UndefinedValue);

    Q_INVOKABLE QVariant getProperty(const QString &name);
    Q_INVOKABLE void setProperty(const QString &name, const QVariant &newValue);

    void classBegin();
    void componentComplete();

    static QVariant unwind(const QVariant &val, int depth = 0);
    static QVariantList argumentsFromScriptValue(const QJSValue &arguments);

```

signals:

```
void serviceChanged();
void pathChanged();
void interfaceChanged();
void busChanged();
void signalsEnabledChanged();
void propertiesEnabledChanged();
void propertiesChanged();
```

private slots:

```
void pendingCallFinished(QDBusPendingCallWatcher *watcher);
void signalHandler(const QDBusMessage &message);
void introspectionDataReceived(const QString &introspectionData);
void notifyPropertyChange(const QDBusMessage &message);
void propertyValuesReceived(const QDBusMessage &message);
```

private:

```
void invalidateIntrospection();
void introspect();
bool dispatch(
    const QDBusMessage &message, const QJSValue &callback, const QJSValue &errorCallback);
void disconnectSignalHandler();
void connectSignalHandler();
void disconnectPropertyHandler();
void connectPropertyHandler();
void queryPropertyValues();
void updatePropertyValues(const QDBusArgument &values);
```

```
bool marshallDBusArgument(QDBusMessage &msg, const QJSValue &arg);
QDBusMessage constructMessage(const QString &service,
    const QString &path,
    const QString &interface,
    const QString &method,
    const QJSValue &arguments);
```

```
QString m_service;
QString m_path;
QString m_interface;
DeclarativeDBus::BusType m_bus;
 QMap<QDBusPendingCallWatcher *, QPair<QJSValue, QJSValue> > m_pendingCalls; // pair: success and error
callback
 QMap<QString, QMetaMethod> m_signals;
 QMap<QString, QMetaProperty> m_properties;
bool m_componentCompleted;
bool m_signalsEnabled;
bool m_signalsConnected;
bool m_propertiesEnabled;
```

```
bool m_propertiesConnected;  
bool m_introspected;  
bool m_providesPropertyInterface;  
};
```

```
#endif
```

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Version 2.1, February 1999

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

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1.147 netbase 5.3

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It is currently maintained by Marco d'Itri <md@linux.it>.

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1.148 nettle 3.2

1.148.1 Available under license :

/* serpent-decrypt.c

The serpent block cipher.

For more details on this algorithm, see the Serpent website at
<http://www.cl.cam.ac.uk/~rja14/serpent.html>

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*/

/* This file is derived from cipher/serpent.c in Libcrypt v1.4.6.

The adaption to Nettle was made by Simon Josefsson on 2010-12-07
with final touches on 2011-05-30. Changes include replacing
libcrypt with nettle in the license template, renaming
serpent_context to serpent_ctx, renaming u32 to uint32_t, removing
libcrypt stubs and selftests, modifying entry function prototypes,
using FOR_BLOCKS to iterate through data in encrypt/decrypt, using
LE_READ_UINT32 and LE_WRITE_UINT32 to access data in

encrypt/decrypt, and running indent on the code. */

```
#if HAVE_CONFIG_H
#include "config.h"
#endif
```

```
#include <assert.h>
#include <limits.h>
```

```
#include "serpent.h"
```

```
#include "macros.h"
#include "serpent-internal.h"
```

/* These are the S-Boxes of Serpent. They are copied from Serpents
reference implementation (the optimized one, contained in
'floppy2') and are therefore:

Copyright (C) 1998 Ross Anderson, Eli Biham, Lars Knudsen.

To quote the Serpent homepage
(<http://www.cl.cam.ac.uk/~rja14/serpent.html>):

"Serpent is now completely in the public domain, and we impose no
restrictions on its use. This was announced on the 21st August at
the First AES Candidate Conference. The optimised implementations
in the submission package are now under the GNU PUBLIC LICENSE
(GPL), although some comments in the code still say otherwise. You
are welcome to use Serpent for any application." */

/* S0 inverse: 13 3 11 0 10 6 5 12 1 14 4 7 15 9 8 2 */

/* Original single-assignment form:

```
t01 = x2 ^ x3;
t02 = x0 | x1;
t03 = x1 | x2;
t04 = x2 & t01;
t05 = t02 ^ t01;
t06 = x0 | t04;
y2 = ~ t05;
t08 = x1 ^ x3;
t09 = t03 & t08;
t10 = x3 | y2;
y1 = t09 ^ t06;
t12 = x0 | t05;
t13 = y1 ^ t12;
t14 = t03 ^ t10;
t15 = x0 ^ x2;
```

```

y3 = t14 ^ t13;
t17 = t05 & t13;
t18 = t14 | t17;
y0 = t15 ^ t18;
*/
#define SBOX0_INVERSE(x0, x1, x2, x3, y0, y1, y2, y3) \
do { \
y0 = x0 ^ x2; \
y2 = x0 | x1; \
y1 = x2 ^ x3; \
y2 ^= y1; \
y1 &= x2; \
x2 |= x1; \
x1 ^= x3; \
y1 |= x0; \
x1 &= x2; \
y1 ^= x1; \
x0 |= y2; \
x0 ^= y1; \
x1 = y2 & x0; \
y2 = ~ y2; \
x3 |= y2; \
x3 ^= x2; \
y3 = x3 ^ x0; \
x1 |= x3; \
y0 ^= x1; \
} while (0)

/* S1 inverse: 5 8 2 14 15 6 12 3 11 4 7 9 1 13 10 0 */
/* Original single-assignment form:
t01 = x0 ^ x1;
t02 = x1 | x3;
t03 = x0 & x2;
t04 = x2 ^ t02;
t05 = x0 | t04;
t06 = t01 & t05;
t07 = x3 | t03;
t08 = x1 ^ t06;
t09 = t07 ^ t06;
t10 = t04 | t03;
t11 = x3 & t08;
y2 = ~ t09;
y1 = t10 ^ t11;
t14 = x0 | y2;
t15 = t06 ^ y1;
y3 = t01 ^ t04;
t17 = x2 ^ t15;
y0 = t14 ^ t17;

```

```

*/
#define SBOX1_INVERSE(x0, x1, x2, x3, y0, y1, y2, y3) \
do { \
  y1 = x1 | x3; \
  y1 ^= x2; \
  y3 = x0 ^ x1; \
  y0 = x0 | y1; \
  y0 &= y3; \
  x1 ^= y0; \
  y3 ^= y1; \
  x1 &= x3; \
  y2 = x0 & x2; \
  y1 |= y2; \
  y2 |= x3; \
  y2 ^= y0; \
  y2 = ~ y2; \
  y1 ^= x1; \
  y0 ^= y1; \
  y0 ^= x2; \
  x0 |= y2; \
  y0 ^= x0; \
} while (0)

```

```

/* S2 inverse: 12 9 15 4 11 14 1 2 0 3 6 13 5 8 10 7 */

```

```

/* Original single-assignment form:

```

```

  t01 = x0 ^ x3;
  t02 = x2 ^ x3;
  t03 = x0 & x2;
  t04 = x1 | t02;
  y0 = t01 ^ t04;
  t06 = x0 | x2;
  t07 = x3 | y0;
  t08 = ~ x3;
  t09 = x1 & t06;
  t10 = t08 | t03;
  t11 = x1 & t07;
  t12 = t06 & t02;
  y3 = t09 ^ t10;
  y1 = t12 ^ t11;
  t15 = x2 & y3;
  t16 = y0 ^ y1;
  t17 = t10 ^ t15;
  y2 = t16 ^ t17;
*/

```

```

#define SBOX2_INVERSE(x0, x1, x2, x3, y0, y1, y2, y3) \
do { \
  y0 = x0 ^ x3; \
  y2 = x2 ^ x3; \

```

```

y1 = x1 | y2;  \
y0 ^= y1;    \
y1 = x3 | y0;  \
y1 &= x1;    \
x3 = ~ x3;   \
y3 = x0 | x2;  \
y2 &= y3;     \
y1 ^= y2;    \
y3 &= x1;     \
x0 &= x2;     \
x0 |= x3;    \
y3 ^= x0;    \
x2 &= y3;     \
x2 ^= x0;    \
y2 = y0 ^ y1; \
y2 ^= x2;    \
} while (0)

/* S3 inverse: 0 9 10 7 11 14 6 13 3 5 12 2 4 8 15 1 */
/* Original single-assignment form:
t01 = x2 | x3;
t02 = x0 | x3;
t03 = x2 ^ t02;
t04 = x1 ^ t02;
t05 = x0 ^ x3;
t06 = t04 & t03;
t07 = x1 & t01;
y2 = t05 ^ t06;
t09 = x0 ^ t03;
y0 = t07 ^ t03;
t11 = y0 | t05;
t12 = t09 & t11;
t13 = x0 & y2;
t14 = t01 ^ t05;
y1 = x1 ^ t12;
t16 = x1 | t13;
y3 = t14 ^ t16;
*/
#define SBOX3_INVERSE(x0, x1, x2, x3, y0, y1, y2, y3) \
do { \
y3 = x2 | x3; \
y0 = x1 & y3; \
y2 = x0 | x3; \
y1 = x2 ^ y2; \
y0 ^= y1; \
x3 ^= x0; \
y3 ^= x3; \
y2 ^= x1; \

```

```

y2 &= y1;    \
y2 ^= x3;    \
y1 ^= x0;    \
x3 |= y0;    \
y1 &= x3;    \
y1 ^= x1;    \
x0 &= y2;    \
x0 |= x1;    \
y3 ^= x0;    \
} while (0)

/* S4 inverse: 5 0 8 3 10 9 7 14 2 12 11 6 4 15 13 1 */
/* Original single-assignment form:
t01 = x1 | x3;
t02 = x2 | x3;
t03 = x0 & t01;
t04 = x1 ^ t02;
t05 = x2 ^ x3;
t06 = ~ t03;
t07 = x0 & t04;
y1 = t05 ^ t07;
t09 = y1 | t06;
t10 = x0 ^ t07;
t11 = t01 ^ t09;
t12 = x3 ^ t04;
t13 = x2 | t10;
y3 = t03 ^ t12;
t15 = x0 ^ t04;
y2 = t11 ^ t13;
y0 = t15 ^ t09;
*/
#define SBOX4_INVERSE(x0, x1, x2, x3, y0, y1, y2, y3) \
do { \
y1 = x2 ^ x3; \
y2 = x2 | x3; \
y2 ^= x1; \
x1 |= x3; \
y0 = x0 ^ y2; \
x3 ^= y2; \
y2 &= x0; \
y1 ^= y2; \
y2 ^= x0; \
y2 |= x2; \
x0 &= x1; \
y3 = x0 ^ x3; \
x0 = ~ x0; \
x0 |= y1; \
y0 ^= x0; \

```



```

x0 ^= x1;    \
y2 ^= x0;    \
} while (0)

/* S5 inverse: 8 15 2 9 4 1 13 14 11 6 5 3 7 12 10 0 */
/* Original single-assignment form:
t01 = x0 & x3;
t02 = x2 ^ t01;
t03 = x0 ^ x3;
t04 = x1 & t02;
t05 = x0 & x2;
y0 = t03 ^ t04;
t07 = x0 & y0;
t08 = t01 ^ y0;
t09 = x1 | t05;
t10 = ~ x1;
y1 = t08 ^ t09;
t12 = t10 | t07;
t13 = y0 | y1;
y3 = t02 ^ t12;
t15 = t02 ^ t13;
t16 = x1 ^ x3;
y2 = t16 ^ t15;
*/
#define SBOX5_INVERSE(x0, x1, x2, x3, y0, y1, y2, y3) \
do { \
y1 = x0 & x3; \
y3 = x2 ^ y1; \
y0 = x1 & y3; \
y2 = x0 ^ x3; \
x3 ^= x1; \
y0 ^= y2; \
x2 &= x0; \
x0 &= y0; \
x2 |= x1; \
y1 ^= y0; \
y1 ^= x2; \
y2 = y0 | y1; \
y2 ^= y3; \
y2 ^= x3; \
x1 = ~ x1; \
x1 |= x0; \
y3 ^= x1; \
} while (0)

/* S6 inverse: 15 10 1 13 5 3 6 0 4 9 14 7 2 12 8 11 */
/* Original single-assignment form:
t01 = x0 ^ x2;

```

```

t02 = ~ x2;
t03 = x1 & t01;
t04 = x1 | t02;
t05 = x3 | t03;
t06 = x1 ^ x3;
t07 = x0 & t04;
t08 = x0 | t02;
t09 = t07 ^ t05;
y1 = t06 ^ t08;
y0 = ~ t09;
t12 = x1 & y0;
t13 = t01 & t05;
t14 = t01 ^ t12;
t15 = t07 ^ t13;
t16 = x3 | t02;
t17 = x0 ^ y1;
y3 = t17 ^ t15;
y2 = t16 ^ t14;
*/
#define SBOX6_INVERSE(x0, x1, x2, x3, y0, y1, y2, y3) \
do { \
y2 = x0 ^ x2; \
x2 = ~ x2; \
y0 = x1 ^ x3; \
y1 = x0 | x2; \
y1 ^= y0; \
y3 = x1 & y2; \
y3 |= x3; \
x3 |= x2; \
x2 |= x1; \
x2 &= x0; \
y0 = x2 ^ y3; \
y0 = ~ y0; \
y3 &= y2; \
y3 ^= x2; \
x0 ^= y1; \
y3 ^= x0; \
x1 &= y0; \
y2 ^= x1; \
y2 ^= x3; \
} while (0)

/* S7 inverse: 3 0 6 13 9 14 15 8 5 12 11 7 10 1 4 2 */
/* Original single-assignment form:
t01 = x0 & x1;
t02 = x0 | x1;
t03 = x2 | t01;
t04 = x3 & t02;

```

```

y3 = t03 ^ t04;
t06 = x1 ^ t04;
t07 = x3 ^ y3;
t08 = ~ t07;
t09 = t06 | t08;
t10 = x1 ^ x3;
t11 = x0 | x3;
y1 = x0 ^ t09;
t13 = x2 ^ t06;
t14 = x2 & t11;
t15 = x3 | y1;
t16 = t01 | t10;
y0 = t13 ^ t15;
y2 = t14 ^ t16;
*/
#define SBOX7_INVERSE(x0, x1, x2, x3, y0, y1, y2, y3) \
do { \
y3 = x0 & x1; \
y2 = x1 ^ x3; \
y2 |= y3; \
y1 = x0 | x3; \
y1 &= x2; \
y2 ^= y1; \
y3 |= x2; \
y0 = x0 | x1; \
y0 &= x3; \
y3 ^= y0; \
y0 ^= x1; \
y1 = x3 ^ y3; \
y1 = ~ y1; \
y1 |= y0; \
y0 ^= x2; \
y1 ^= x0; \
x3 |= y1; \
y0 ^= x3; \
} while (0)

/* In-place inverse linear transformation. */
#define LINEAR_TRANSFORMATION_INVERSE(x0,x1,x2,x3) \
do { \
x2 = ROTL32 (10, x2); \
x0 = ROTL32 (27, x0); \
x2 = x2 ^ x3 ^ (x1 << 7); \
x0 = x0 ^ x1 ^ x3; \
x3 = ROTL32 (25, x3); \
x1 = ROTL32 (31, x1); \
x3 = x3 ^ x2 ^ (x0 << 3); \
x1 = x1 ^ x0 ^ x2; \

```

```

x2 = ROTL32 (29, x2);          \
x0 = ROTL32 (19, x0);          \
} while (0)

/* Round inputs are x0,x1,x2,x3 (destroyed), and round outputs are
y0,y1,y2,y3. */
#define ROUND_INVERSE(which, subkey, x0,x1,x2,x3, y0,y1,y2,y3) \
do { \
    LINEAR_TRANSFORMATION_INVERSE (x0,x1,x2,x3); \
    SBOX##which##_INVERSE(x0,x1,x2,x3, y0,y1,y2,y3); \
    KEYXOR(y0,y1,y2,y3, subkey); \
} while (0)

#if HAVE_NATIVE_64_BIT

/* In-place inverse linear transformation. */
#define LINEAR_TRANSFORMATION64_INVERSE(x0,x1,x2,x3) \
do { \
    x2 = DROTL32 (10, x2); \
    x0 = DROTL32 (27, x0); \
    x2 = x2 ^ x3 ^ DRSHIFT32(7, x1); \
    x0 = x0 ^ x1 ^ x3; \
    x3 = DROTL32 (25, x3); \
    x1 = DROTL32 (31, x1); \
    x3 = x3 ^ x2 ^ DRSHIFT32(3, x0); \
    x1 = x1 ^ x0 ^ x2; \
    x2 = DROTL32 (29, x2); \
    x0 = DROTL32 (19, x0); \
} while (0)

#define ROUND64_INVERSE(which, subkey, x0,x1,x2,x3, y0,y1,y2,y3) \
do { \
    LINEAR_TRANSFORMATION64_INVERSE (x0,x1,x2,x3); \
    SBOX##which##_INVERSE(x0,x1,x2,x3, y0,y1,y2,y3); \
    KEYXOR64(y0,y1,y2,y3, subkey); \
} while (0)

#endif /* HAVE_NATIVE_64_BIT */

void
serpent_decrypt (const struct serpent_ctx *ctx,
    size_t length, uint8_t * dst, const uint8_t * src)
{
    assert( !(length % SERPENT_BLOCK_SIZE));

#if HAVE_NATIVE_64_BIT
    if (length & SERPENT_BLOCK_SIZE)
#else

```

```

while (length >= SERPENT_BLOCK_SIZE)
#endif
{
    uint32_t x0,x1,x2,x3, y0,y1,y2,y3;
    unsigned k;

    x0 = LE_READ_UINT32 (src);
    x1 = LE_READ_UINT32 (src + 4);
    x2 = LE_READ_UINT32 (src + 8);
    x3 = LE_READ_UINT32 (src + 12);

    /* Inverse of special round */
    KEYXOR (x0,x1,x2,x3, ctx->keys[32]);
    SBOX7_INVERSE (x0,x1,x2,x3, y0,y1,y2,y3);
    KEYXOR (y0,y1,y2,y3, ctx->keys[31]);

    k = 24;
    goto start32;
    while (k > 0)
    {
        k -= 8;
        ROUND_INVERSE (7, ctx->keys[k+7], x0,x1,x2,x3, y0,y1,y2,y3);
start32:
        ROUND_INVERSE (6, ctx->keys[k+6], y0,y1,y2,y3, x0,x1,x2,x3);
        ROUND_INVERSE (5, ctx->keys[k+5], x0,x1,x2,x3, y0,y1,y2,y3);
        ROUND_INVERSE (4, ctx->keys[k+4], y0,y1,y2,y3, x0,x1,x2,x3);
        ROUND_INVERSE (3, ctx->keys[k+3], x0,x1,x2,x3, y0,y1,y2,y3);
        ROUND_INVERSE (2, ctx->keys[k+2], y0,y1,y2,y3, x0,x1,x2,x3);
        ROUND_INVERSE (1, ctx->keys[k+1], x0,x1,x2,x3, y0,y1,y2,y3);
        ROUND_INVERSE (0, ctx->keys[k], y0,y1,y2,y3, x0,x1,x2,x3);
    }

    LE_WRITE_UINT32 (dst, x0);
    LE_WRITE_UINT32 (dst + 4, x1);
    LE_WRITE_UINT32 (dst + 8, x2);
    LE_WRITE_UINT32 (dst + 12, x3);

    src += SERPENT_BLOCK_SIZE;
    dst += SERPENT_BLOCK_SIZE;
    length -= SERPENT_BLOCK_SIZE;
}
#endif HAVE_NATIVE_64_BIT
FOR_BLOCKS(length, dst, src, 2*SERPENT_BLOCK_SIZE)
{
    uint64_t x0,x1,x2,x3, y0,y1,y2,y3;
    unsigned k;

    x0 = LE_READ_UINT32 (src);

```

```

x1 = LE_READ_UINT32 (src + 4);
x2 = LE_READ_UINT32 (src + 8);
x3 = LE_READ_UINT32 (src + 12);

x0 <<= 32; x0 |= LE_READ_UINT32 (src + 16);
x1 <<= 32; x1 |= LE_READ_UINT32 (src + 20);
x2 <<= 32; x2 |= LE_READ_UINT32 (src + 24);
x3 <<= 32; x3 |= LE_READ_UINT32 (src + 28);

/* Inverse of special round */
KEYXOR64 (x0,x1,x2,x3, ctx->keys[32]);
SBOX7_INVERSE (x0,x1,x2,x3, y0,y1,y2,y3);
KEYXOR64 (y0,y1,y2,y3, ctx->keys[31]);

k = 24;
goto start64;
while (k > 0)
{
k -= 8;
ROUND64_INVERSE (7, ctx->keys[k+7], x0,x1,x2,x3, y0,y1,y2,y3);
start64:
ROUND64_INVERSE (6, ctx->keys[k+6], y0,y1,y2,y3, x0,x1,x2,x3);
ROUND64_INVERSE (5, ctx->keys[k+5], x0,x1,x2,x3, y0,y1,y2,y3);
ROUND64_INVERSE (4, ctx->keys[k+4], y0,y1,y2,y3, x0,x1,x2,x3);
ROUND64_INVERSE (3, ctx->keys[k+3], x0,x1,x2,x3, y0,y1,y2,y3);
ROUND64_INVERSE (2, ctx->keys[k+2], y0,y1,y2,y3, x0,x1,x2,x3);
ROUND64_INVERSE (1, ctx->keys[k+1], x0,x1,x2,x3, y0,y1,y2,y3);
ROUND64_INVERSE (0, ctx->keys[k], y0,y1,y2,y3, x0,x1,x2,x3);
}

LE_WRITE_UINT32 (dst + 16, x0);
LE_WRITE_UINT32 (dst + 20, x1);
LE_WRITE_UINT32 (dst + 24, x2);
LE_WRITE_UINT32 (dst + 28, x3);
x0 >>= 32; LE_WRITE_UINT32 (dst, x0);
x1 >>= 32; LE_WRITE_UINT32 (dst + 4, x1);
x2 >>= 32; LE_WRITE_UINT32 (dst + 8, x2);
x3 >>= 32; LE_WRITE_UINT32 (dst + 12, x3);
}
#endif /* HAVE_NATIVE_64_BIT */
}
/* serpent-set-key.c

```

The serpent block cipher.

For more details on this algorithm, see the Serpent website at
<http://www.cl.cam.ac.uk/~rja14/serpent.html>

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*/

```
/* This file is derived from cipher/serpent.c in Libcrypt v1.4.6.  
The adaption to Nettle was made by Simon Josefsson on 2010-12-07  
with final touches on 2011-05-30. Changes include replacing  
libcrypt with nettle in the license template, renaming  
serpent_context to serpent_ctx, renaming u32 to uint32_t, removing  
libcrypt stubs and selftests, modifying entry function prototypes,  
using FOR_BLOCKS to iterate through data in encrypt/decrypt, using  
LE_READ_UINT32 and LE_WRITE_UINT32 to access data in  
encrypt/decrypt, and running indent on the code. */
```

```
#if HAVE_CONFIG_H  
#include "config.h"  
#endif
```

```
#include <assert.h>  
#include <limits.h>
```

```

#include "serpent.h"

#include "macros.h"
#include "serpent-internal.h"

/* Magic number, used during generating of the subkeys. */
#define PHI 0x9E3779B9

/* These are the S-Boxes of Serpent. They are copied from Serpents
reference implementation (the optimized one, contained in
`floppy2') and are therefore:

Copyright (C) 1998 Ross Anderson, Eli Biham, Lars Knudsen.

To quote the Serpent homepage
(http://www.cl.cam.ac.uk/~rja14/serpent.html):

"Serpent is now completely in the public domain, and we impose no
restrictions on its use. This was announced on the 21st August at
the First AES Candidate Conference. The optimised implementations
in the submission package are now under the GNU PUBLIC LICENSE
(GPL), although some comments in the code still say otherwise. You
are welcome to use Serpent for any application." */

/* FIXME: Except when used within the key schedule, the inputs are not
used after the substitution, and hence we could allow them to be
destroyed. Can this freedom be used to optimize the sboxes? */
#define SBOX0(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t05, t06, t07, t08, t09; \
    type t11, t12, t13, t14, t15, t17, t01; \
    t01 = b ^ c ; \
    t02 = a | d ; \
    t03 = a ^ b ; \
    z = t02 ^ t01; \
    t05 = c | z ; \
    t06 = a ^ d ; \
    t07 = b | c ; \
    t08 = d & t05; \
    t09 = t03 & t07; \
    y = t09 ^ t08; \
    t11 = t09 & y ; \
    t12 = c ^ d ; \
    t13 = t07 ^ t11; \
    t14 = b & t06; \
    t15 = t06 ^ t13; \
    w = ~ t15; \
    t17 = w ^ t14; \

```



```
x = t12 ^ t17; \
} while (0)
```

```
#define SBOX1(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t04, t05, t06, t07, t08; \
    type t10, t11, t12, t13, t16, t17, t01; \
    t01 = a | d ; \
    t02 = c ^ d ; \
    t03 = ~ b ; \
    t04 = a ^ c ; \
    t05 = a | t03; \
    t06 = d & t04; \
    t07 = t01 & t02; \
    t08 = b | t06; \
    y = t02 ^ t05; \
    t10 = t07 ^ t08; \
    t11 = t01 ^ t10; \
    t12 = y ^ t11; \
    t13 = b & d ; \
    z = ~ t10; \
    x = t13 ^ t12; \
    t16 = t10 | x ; \
    t17 = t05 & t16; \
    w = c ^ t17; \
} while (0)
```

```
#define SBOX2(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t05, t06, t07, t08; \
    type t09, t10, t12, t13, t14, t01; \
    t01 = a | c ; \
    t02 = a ^ b ; \
    t03 = d ^ t01; \
    w = t02 ^ t03; \
    t05 = c ^ w ; \
    t06 = b ^ t05; \
    t07 = b | t05; \
    t08 = t01 & t06; \
    t09 = t03 ^ t07; \
    t10 = t02 | t09; \
    x = t10 ^ t08; \
    t12 = a | d ; \
    t13 = t09 ^ x ; \
    t14 = b ^ t13; \
    z = ~ t09; \
    y = t12 ^ t14; \
} while (0)
```

```

#define SBOX3(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t04, t05, t06, t07, t08; \
    type t09, t10, t11, t13, t14, t15, t01; \
    t01 = a ^ c ; \
    t02 = a | d ; \
    t03 = a & d ; \
    t04 = t01 & t02; \
    t05 = b | t03; \
    t06 = a & b ; \
    t07 = d ^ t04; \
    t08 = c | t06; \
    t09 = b ^ t07; \
    t10 = d & t05; \
    t11 = t02 ^ t10; \
    z = t08 ^ t09; \
    t13 = d | z ; \
    t14 = a | t07; \
    t15 = b & t13; \
    y = t08 ^ t11; \
    w = t14 ^ t15; \
    x = t05 ^ t04; \
} while (0)

```

```

#define SBOX4(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t04, t05, t06, t08, t09; \
    type t10, t11, t12, t13, t14, t15, t16, t01; \
    t01 = a | b ; \
    t02 = b | c ; \
    t03 = a ^ t02; \
    t04 = b ^ d ; \
    t05 = d | t03; \
    t06 = d & t01; \
    z = t03 ^ t06; \
    t08 = z & t04; \
    t09 = t04 & t05; \
    t10 = c ^ t06; \
    t11 = b & c ; \
    t12 = t04 ^ t08; \
    t13 = t11 | t03; \
    t14 = t10 ^ t09; \
    t15 = a & t05; \
    t16 = t11 | t12; \
    y = t13 ^ t08; \
    x = t15 ^ t16; \
    w = ~ t14; \
} while (0)

```

```

} while (0)

#define SBOX5(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t04, t05, t07, t08, t09; \
    type t10, t11, t12, t13, t14, t01; \
    t01 = b ^ d ; \
    t02 = b | d ; \
    t03 = a & t01; \
    t04 = c ^ t02; \
    t05 = t03 ^ t04; \
    w = ~ t05; \
    t07 = a ^ t01; \
    t08 = d | w ; \
    t09 = b | t05; \
    t10 = d ^ t08; \
    t11 = b | t07; \
    t12 = t03 | w ; \
    t13 = t07 | t10; \
    t14 = t01 ^ t11; \
    y = t09 ^ t13; \
    x = t07 ^ t08; \
    z = t12 ^ t14; \
} while (0)

```

```

#define SBOX6(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t04, t05, t07, t08, t09, t10; \
    type t11, t12, t13, t15, t17, t18, t01; \
    t01 = a & d ; \
    t02 = b ^ c ; \
    t03 = a ^ d ; \
    t04 = t01 ^ t02; \
    t05 = b | c ; \
    x = ~ t04; \
    t07 = t03 & t05; \
    t08 = b & x ; \
    t09 = a | c ; \
    t10 = t07 ^ t08; \
    t11 = b | d ; \
    t12 = c ^ t11; \
    t13 = t09 ^ t10; \
    y = ~ t13; \
    t15 = x & t03; \
    z = t12 ^ t07; \
    t17 = a ^ b ; \
    t18 = y ^ t15; \
    w = t17 ^ t18; \
} while (0)

```

```

} while (0)

#define SBOX7(type, a, b, c, d, w, x, y, z) \
do { \
    type t02, t03, t04, t05, t06, t08, t09, t10; \
    type t11, t13, t14, t15, t16, t17, t01; \
    t01 = a & c ; \
    t02 = ~ d ; \
    t03 = a & t02; \
    t04 = b | t01; \
    t05 = a & b ; \
    t06 = c ^ t04; \
    z = t03 ^ t06; \
    t08 = c | z ; \
    t09 = d | t05; \
    t10 = a ^ t08; \
    t11 = t04 & z ; \
    x = t09 ^ t10; \
    t13 = b ^ x ; \
    t14 = t01 ^ x ; \
    t15 = c ^ t05; \
    t16 = t11 | t13; \
    t17 = t02 | t14; \
    w = t15 ^ t17; \
    y = a ^ t16; \
} while (0)

/* Key schedule */
/* Note: Increments k */
#define KS_RECURRENCE(w, i, k) \
do { \
    uint32_t _wn = (w)[(i)] ^ (w)[((i)+3)&7] ^ w[((i)+5)&7] \
        ^ w[((i)+7)&7] ^ PHI ^ (k)++; \
    ((w)[(i)] = ROTL32(11, _wn)); \
} while (0)

/* Note: Increments k four times and keys once */
#define KS(keys, s, w, i, k) \
do { \
    KS_RECURRENCE(w, (i), (k)); \
    KS_RECURRENCE(w, (i)+1, (k)); \
    KS_RECURRENCE(w, (i)+2, (k)); \
    KS_RECURRENCE(w, (i)+3, (k)); \
    SBOX##s(uint32_t, w[(i)],w[(i)+1],w[(i)+2],w[(i)+3], \
        (*keys)[0],(*keys)[1],(*keys)[2],(*keys)[3]); \
    (keys)++; \
} while (0)

```

```

/* Pad user key and convert to an array of 8 uint32_t. */
static void
serpent_key_pad (const uint8_t *key, unsigned int key_length,
                 uint32_t *w)
{
    unsigned int i;

    assert (key_length <= SERPENT_MAX_KEY_SIZE);

    for (i = 0; key_length >= 4; key_length -=4, key += 4)
        w[i++] = LE_READ_UINT32(key);

    if (i < 8)
    {
        /* Key must be padded according to the Serpent specification.
           "aabbcc" -> "aabbcc0100...00" -> 0x01ccbbaa. */
        uint32_t pad = 0x01;

        while (key_length > 0)
            pad = pad << 8 | key[--key_length];

        w[i++] = pad;

        while (i < 8)
            w[i++] = 0;
    }
}

/* Initialize CONTEXT with the key KEY of LENGTH bytes. */
void
serpent_set_key (struct serpent_ctx *ctx,
                 size_t length, const uint8_t * key)
{
    uint32_t w[8];
    uint32_t (*keys)[4];
    unsigned k;

    serpent_key_pad (key, length, w);

    /* Derive the 33 subkeys from KEY and store them in SUBKEYS. We do
       the recurrence in the key schedule using W as a circular buffer
       of just 8 uint32_t. */

    /* FIXME: Would be better to invoke SBOX with scalar variables as
       arguments, no arrays. To do that, unpack w into separate
       variables, use temporary variables as the SBOX destination. */

    keys = ctx->keys;

```

```

k = 0;
for (;;)
{
    KS(keys, 3, w, 0, k);
    if (k == 132)
break;
    KS(keys, 2, w, 4, k);
    KS(keys, 1, w, 0, k);
    KS(keys, 0, w, 4, k);
    KS(keys, 7, w, 0, k);
    KS(keys, 6, w, 4, k);
    KS(keys, 5, w, 0, k);
    KS(keys, 4, w, 4, k);
}
assert (keys == ctx->keys + 33);
}

void
serpent128_set_key (struct serpent_ctx *ctx, const uint8_t *key)
{
    serpent_set_key (ctx, SERPENT128_KEY_SIZE, key);
}

void
serpent192_set_key (struct serpent_ctx *ctx, const uint8_t *key)
{
    serpent_set_key (ctx, SERPENT192_KEY_SIZE, key);
}

void
serpent256_set_key (struct serpent_ctx *ctx, const uint8_t *key)
{
    serpent_set_key (ctx, SERPENT256_KEY_SIZE, key);
}

```

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1.149 nghttp2 1.26.0

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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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1.152 opus 1.0.2

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1.153 orc 0.4.26

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1.154 pango 1.38.1

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1.156 perl 5.22.1 :9

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

/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

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Comment:

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Thu, 17 Aug 2000 16:10:54 +1000.

.

Upstream Authors:

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Note that the files bzip2.c, bzip2recover.c, bzlib.c & decompress.c have been modified to allow them to build with a C++ compiler.

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cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_1.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_2.pod

cpan/CPAN-Meta/lib/CPAN/Meta/History/Meta_1_3.pod

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Files:

cpan/File-Fetch/*

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cpan/Locale-Maketext-Simple/t/po_with_i_default/fr.po

cpan/Locale-Maketext-Simple/t/po_with_i_default/en.po

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cpan/Tie-RefHash/*

cpan/Win32API-File/*

dist/bignum/*

dist/ExtUtils-Install/*

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dist/autouse/*

dist/base/*

dist/constant/*

dist/Devel-SelfStubber/*

dist/Dumpvalue/*

dist/Env/*

dist/ExtUtils-Command/*

dist/ExtUtils-Manifest/*
dist/I18N-Collate/*
dist/if/*
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/*
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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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However, unrestricted linking of non-free programs would deprive the

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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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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.
```

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1.159 popt 1.16

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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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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Thus, it is not the intent of this section to claim rights or contest

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1.161 procps 3.3.11

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1.162 protobuf 2.5.0

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- * Fix compiler to not make output executable.

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- * Heuristic detection of sub-messages when printing unknown fields in text format.

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- * Solaris 10 + Sun Studio fixes.

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- * MS Visual Studio error format option.
- * Detect unordered_map in stl_hash.m4.

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- * Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).
- * Added generation of field number constants.

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- * Fixed initialization ordering problem in logging code.

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- * Small patch improving performance of in Python serialization.

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- * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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- * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

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* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

* Detect whether zlib is new enough in configure script.

* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

* Optimize Java serialization code when writing a small message to a stream.

* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.

* Clean up some Java warnings.

* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

* Fixed m4/acx_pthread.m4 problem for some Linux distributions.

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here. Please keep the list sorted by first names.

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1.163 psmisc 22.21

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <http://www.zope.com/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.1	2.0+1.6.1	2001	PSF	no

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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of `md5.h` is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

- 2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
- 1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
- 1999-10-18 lpd Fixed typo in header comment (`ansi2knr` rather than `md5`);

added conditionalization for C++ compilation from Martin
Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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Select kqueue

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strtod and dtoa

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software

Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.165 python-dbus 1.2.0

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1.166 python-fastcgi 1.1

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1.167 python-pyobject 3.18.2

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1.168 python-setuptools 19.4

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PR: r0

PV: 19.4

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

```
"""
```

```
Distutils setup file, used to install or test 'setuptools'
```

```
"""
```

```
import io
```

```
import os
```

```
import sys
```

```
import textwrap
```

```
# Allow to run setup.py from another directory.
```

```
os.chdir(os.path.dirname(os.path.abspath(__file__)))
```

```
src_root = None
```

```
from distutils.util import convert_path
```

```
command_ns = { }
```

```
init_path = convert_path('setuptools/command/__init__.py')
```

```
with open(init_path) as init_file:
```

```
    exec(init_file.read(), command_ns)
```

```
SETUP_COMMANDS = command_ns['__all__']
```

```

main_ns = { }
ver_path = convert_path('setuptools/version.py')
with open(ver_path) as ver_file:
    exec(ver_file.read(), main_ns)

import setuptools

scripts = []

def _gen_console_scripts():
    yield "easy_install = setuptools.command.easy_install:main"

    # Gentoo distributions manage the python-version-specific scripts
    # themselves, so those platforms define an environment variable to
    # suppress the creation of the version-specific scripts.
    var_names = (
        'SETUPTOOLS_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT',
        'DISTRIBUTE_DISABLE_VERSIONED_EASY_INSTALL_SCRIPT',
    )
    if any(os.environ.get(var) not in (None, "", "0") for var in var_names):
        return
    yield ("easy_install-{shortver} = setuptools.command.easy_install:main"
          .format(shortver=sys.version[:3]))

console_scripts = list(_gen_console_scripts())

readme_file = io.open('README.txt', encoding='utf-8')

with readme_file:
    long_description = readme_file.read()

package_data = {
    'setuptools': ['script (dev).tmpl', 'script.tmpl', 'site-patch.py']}
force_windows_specific_files = (
    os.environ.get("SETUPTOOLS_INSTALL_WINDOWS_SPECIFIC_FILES")
    not in (None, "", "0"))
)
if sys.platform == 'win32' or force_windows_specific_files:
    package_data.setdefault('setuptools', []).extend(['*.exe'])
    package_data.setdefault('setuptools.command', []).extend(['*.xml'])

needs_pytest = set(['ptr', 'pytest', 'test']).intersection(sys.argv)
pytest_runner = ['pytest-runner'] if needs_pytest else []
needs_sphinx = set(['build_sphinx', 'upload_docs']).intersection(sys.argv)
sphinx = ['sphinx', 'rst.linker'] if needs_sphinx else []

setup_params = dict(

```



```

name="setuptools",
version=main_ns['__version__'],
description="Easily download, build, install, upgrade, and uninstall "
    "Python packages",
author="Python Packaging Authority",
author_email="distutils-sig@python.org",
license="PSF or ZPL",
long_description=long_description,
keywords="CPAN PyPI distutils eggs package management",
url="https://bitbucket.org/pypa/setuptools",
src_root=src_root,
packages=setuptools.find_packages(exclude=['*.tests']),
package_data=package_data,

py_modules=['easy_install'],

zip_safe=True,

entry_points={
    "distutils.commands": [
        "%(cmd)s = setuptools.command.%(cmd)s:%(cmd)s" % locals()
        for cmd in SETUP_COMMANDS
    ],
    "distutils.setup_keywords": [
        "eager_resources      = setuptools.dist:assert_string_list",
        "namespace_packages  = setuptools.dist:check_nsp",
        "extras_require      = setuptools.dist:check_extras",
        "install_requires    = setuptools.dist:check_requirements",
        "tests_require       = setuptools.dist:check_requirements",
        "setup_requires      = setuptools.dist:check_requirements",
        "entry_points        = setuptools.dist:check_entry_points",
        "test_suite          = setuptools.dist:check_test_suite",
        "zip_safe            = setuptools.dist:assert_bool",
        "package_data       = setuptools.dist:check_package_data",
        "exclude_package_data = setuptools.dist:check_package_data",
        "include_package_data = setuptools.dist:assert_bool",
        "packages           = setuptools.dist:check_packages",
        "dependency_links    = setuptools.dist:assert_string_list",
        "test_loader         = setuptools.dist:check_importable",
        "test_runner         = setuptools.dist:check_importable",
        "use_2to3            = setuptools.dist:assert_bool",
        "convert_2to3_doctests = setuptools.dist:assert_string_list",
        "use_2to3_fixers      = setuptools.dist:assert_string_list",
        "use_2to3_exclude_fixers = setuptools.dist:assert_string_list",
    ],
    "egg_info.writers": [
        "PKG-INFO = setuptools.command.egg_info:write_pkg_info",
        "requires.txt = setuptools.command.egg_info:write_requirements",
    ]
}

```

```

"entry_points.txt = setuptools.command.egg_info:write_entries",
"eager_resources.txt = setuptools.command.egg_info:overwrite_arg",
"namespace_packages.txt = setuptools.command.egg_info:overwrite_arg",
"top_level.txt = setuptools.command.egg_info:write_toplevel_names",
"depends.txt = setuptools.command.egg_info:warn_depends_obsolete",
"dependency_links.txt = setuptools.command.egg_info:overwrite_arg",
],
"console_scripts": console_scripts,

"setuptools.installation":
  ['eggsecutable = setuptools.command.easy_install:bootstrap'],
},

```

```

classifiers=textwrap.dedent("""
Development Status :: 5 - Production/Stable
Intended Audience :: Developers
License :: OSI Approved :: Python Software Foundation License
License :: OSI Approved :: Zope Public License
Operating System :: OS Independent
Programming Language :: Python :: 2.6
Programming Language :: Python :: 2.7
Programming Language :: Python :: 3
Programming Language :: Python :: 3.3
Programming Language :: Python :: 3.4
Programming Language :: Python :: 3.5
Topic :: Software Development :: Libraries :: Python Modules
Topic :: System :: Archiving :: Packaging
Topic :: System :: Systems Administration
Topic :: Utilities
""").strip().splitlines(),
extras_require={
  "ssl:sys_platform=='win32': "wincertstore==0.2",
  "certs": "certifi==2015.11.20",
},
dependency_links=[
  'https://pypi.python.org/packages/source/c/certifi/certifi-
2015.11.20.tar.gz#md5=25134646672c695c1ff1593c2dd75d08',
  'https://pypi.python.org/packages/source/w/wincertstore/wincertstore-
0.2.zip#md5=ae728f2f007185648d0c7a8679b361e2',
],
scripts=[],
tests_require=[
  'setuptools[ssl]',
  'pytest>=2.8',
] + ([ 'mock' ] if sys.version_info[:2] < (3, 3) else []),
setup_requires=[
] + sphinx + pytest_runner,

```

)

```
if __name__ == '__main__':  
    dist = setuptools.setup(**setup_params)
```

1.169 qtbase 5.4.1 :315996a483

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

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

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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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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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Version 3, 29 June 2007

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1.182 recorder rdkv-2018q1 :99bdb01b06

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1.183 requests 2.5.1 :(2014-12-23)

1.183.1 Available under license :

Requests includes some vendorized python libraries to ease installation.

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1.184 requests_packagees 2.5.1 :(2014-12-23)

1.184.1 Available under license :

Requests includes some vendorized python libraries to ease installation.

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

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

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

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

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

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

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

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PV: rdkv-2018q1+gitrrdkv-2018q1
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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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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
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```
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{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
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}

#endif
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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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AverMedia fix and more flexible card recognition

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1.203 sudo 1.8.20p2

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*/

```

```
#include <config.h>
```

```
#ifndef HAVE_GETCWD
```

```
#include <sys/types.h>
```

```
#include <sys/stat.h>
```

```
#include <errno.h>
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#ifdef HAVE_STRING_H
```

```
# include <string.h>
```

```
#endif /* HAVE_STRING_H */
```

```
#ifdef HAVE_STRINGS_H
```

```
# include <strings.h>
```

```
#endif /* HAVE_STRINGS_H */
```

```
#include <unistd.h>
```

```
#include <dirent.h>
```

```
#include "sudo_compat.h"
```

```
#define ISDOT(dp) \
```

```
(dp->d_name[0] == '.' && (dp->d_name[1] == '\0' || \
```

```
(dp->d_name[1] == '.' && dp->d_name[2] == '\0'))
```

```
#if defined(HAVE_STRUCT_DIRENT_D_NAMLEN) && HAVE_STRUCT_DIRENT_D_NAMLEN
```

```
# define NAMLEN(dirent) (dirent->d_namlen
```

```
#else
```

```
# define NAMLEN(dirent) strlen((dirent->d_name)
```

```
#endif
```

```
char *
```

```
sudo_getcwd(char *pt, size_t size)
```

```
{
```

```
    struct dirent *dp;
```

```

DIR *dir = NULL;
dev_t dev;
ino_t ino;
int first;
char *bpt, *bup;
struct stat s;
dev_t root_dev;
ino_t root_ino;
size_t psize, upsize;
int save_errno;
char *ept, *eup, *up;

/*
 * If no buffer specified by the user, allocate one as necessary.
 * If a buffer is specified, the size has to be non-zero. The path
 * is built from the end of the buffer backwards.
 */
if (pt) {
    psize = 0;
    if (!size) {
        errno = EINVAL;
        return NULL;
    }
    ept = pt + size;
} else {
    if ((pt = malloc(psize = 1024 - 4)) == NULL)
        return NULL;
    ept = pt + psize;
}
bpt = ept - 1;
*bpt = '\0';

/*
 * Allocate bytes (1024 - malloc space) for the string of "../"s.
 * Should always be enough (it's 340 levels). If it's not, allocate
 * as necessary. Special * case the first stat, it's ".", not "..".
 */
if ((up = malloc(upsized = 1024 - 4)) == NULL)
    goto err;
eup = up + PATH_MAX;
bup = up;
up[0] = '.';
up[1] = '\0';

/* Save root values, so know when to stop. */
if (stat("/", &s))
    goto err;
root_dev = s.st_dev;

```



```

root_ino = s.st_ino;

errno = 0; /* XXX readdir has no error return. */

for (first = 1;; first = 0) {
    /* Stat the current level. */
    if (lstat(up, &s))
        goto err;

    /* Save current node values. */
    ino = s.st_ino;
    dev = s.st_dev;

    /* Check for reaching root. */
    if (root_dev == dev && root_ino == ino) {
        *--bpt = '/';
        /*
         * It's unclear that it's a requirement to copy the
         * path to the beginning of the buffer, but it's always
         * been that way and stuff would probably break.
         */
        bcopy(bpt, pt, ept - bpt);
        free(up);
        return pt;
    }

    /*
     * Build pointer to the parent directory, allocating memory
     * as necessary. Max length is 3 for "../", the largest
     * possible component name, plus a trailing NULL.
     */
    if (bup + 3 + MAXNAMLEN + 1 >= eup) {
        char *nup;

        if ((nup = reallocarray(up, upsize, 2)) == NULL)
            goto err;
        upsize *= 2;
        up = nup;
        bup = up;
        eup = up + upsize;
    }
    *bup++ = '.';
    *bup++ = '.';
    *bup = '\0';

    /* Open and stat parent directory. */
    if (!(dir = opendir(up)) || fstat(dirfd(dir), &s))
        goto err;

```

```

/* Add trailing slash for next directory. */
*bup++ = '/';

/*
 * If it's a mount point, have to stat each element because
 * the inode number in the directory is for the entry in the
 * parent directory, not the inode number of the mounted file.
 */
save_errno = 0;
if (s.st_dev == dev) {
    for (;;) {
        if (!(dp = readdir(dir)))
            goto notfound;
        if (dp->d_fileno == ino)
            break;
    }
} else
    for (;;) {
        if (!(dp = readdir(dir)))
            goto notfound;
        if (ISDOT(dp))
            continue;
        bcopy(dp->d_name, bup, NAMLEN(dp) + 1);

        /* Save the first error for later. */
        if (lstat(up, &s)) {
            if (!save_errno)
                save_errno = errno;
            errno = 0;
            continue;
        }
        if (s.st_dev == dev && s.st_ino == ino)
            break;
    }

/*
 * Check for length of the current name, preceding slash,
 * leading slash.
 */
if (bpt - pt <= NAMLEN(dp) + (first ? 1 : 2)) {
    size_t len, off;
    char *npt;

    if (!ptsize) {
        errno = ERANGE;
        goto err;
    }
}

```

```

off = bpt - pt;
len = ept - bpt;
if ((npt = reallocarray(pt, psize, 2)) == NULL)
    goto err;
psize *= 2;
pt = npt;
bpt = pt + off;
ept = pt + psize;
bcopy(bpt, ept - len, len);
bpt = ept - len;
}
if (!first)
    *--bpt = '/';
bpt -= NAMLEN(dp);
bcopy(dp->d_name, bpt, NAMLEN(dp));
(void)closedir(dir);

/* Truncate any file name. */
*bup = '\0';
}

notfound:
/*
 * If readdir set errno, use it, not any saved error; otherwise,
 * didn't find the current directory in its parent directory, set
 * errno to ENOENT.
 */
if (!errno)
    errno = save_errno ? save_errno : ENOENT;
/* FALLTHROUGH */
err:
if (psize)
    free(pt);
if (up)
    free(up);
if (dir)
    (void)closedir(dir);
return NULL;
}
#endif /* HAVE_GETCWD */

```

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*

* @(#)glob.c 8.3 (Berkeley) 10/13/93

*/

/*

* glob(3) -- a superset of the one defined in POSIX 1003.2.

```

*
* The [!...] convention to negate a range is supported (SysV, Posix, ksh).
*
* Optional extra services, controlled by flags not defined by POSIX:
*
* GLOB_MAGCHAR:
* Set in gl_flags if pattern contained a globbing character.
* GLOB_TILDE:
* expand ~user/foo to the /home/dir/of/user/foo
* GLOB_BRACE:
* expand {1,2}{a,b} to 1a 1b 2a 2b
* gl_matchc:
* Number of matches in the current invocation of glob.
*/

```

```
#include <config.h>
```

```
#ifndef HAVE_GLOB
```

```
#include <sys/types.h>
```

```
#include <sys/stat.h>
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#ifdef HAVE_STRING_H
```

```
# include <string.h>
```

```
#endif /* HAVE_STRING_H */
```

```
#ifdef HAVE_STRINGS_H
```

```
# include <strings.h>
```

```
#endif /* HAVE_STRINGS_H */
```

```
#include <unistd.h>
```

```
#if defined(HAVE_STDINT_H)
```

```
# include <stdint.h>
```

```
#elif defined(HAVE_INTTYPES_H)
```

```
# include <inttypes.h>
```

```
#endif
```

```
#include <ctype.h>
```

```
#include <dirent.h>
```

```
#include <errno.h>
```

```
#include <limits.h>
```

```
#include <pwd.h>
```

```
#include "sudo_compat.h"
```

```
#include "compat/glob.h"
```

```
#include "compat/charclass.h"
```

```
#define DOLLAR '$'
```

```
#define DOT '.'
```

```

#define EOS '\0'
#define LBRACKET '['
#define NOT '!'
#define QUESTION '?'
#define QUOTE '\\'
#define RANGE '-'
#define RBRACKET ']'
#define SEP '/'
#define STAR '*'
#define TILDE '~'
#define UNDERSCORE '_'
#define LBRACE '{'
#define RBRACE '}'
#define SLASH '/'
#define COMMA ','

#ifndef DEBUG

#define M_QUOTE 0x8000
#define M_PROTECT 0x4000
#define M_MASK 0xffff
#define M_ASCII 0x00ff

typedef unsigned short Char;

#else

#define M_QUOTE 0x80
#define M_PROTECT 0x40
#define M_MASK 0xff
#define M_ASCII 0x7f

typedef char Char;

#endif

#define CHAR(c) ((Char)((c)&M_ASCII))
#define META(c) ((Char)((c)|M_QUOTE))
#define M_ALL META('*')
#define M_END META(']')
#define M_NOT META('!')
#define M_ONE META('?')
#define M_RNG META('-')
#define M_SET META('[')
#define M_CLASS META(':')
#define ismeta(c) (((c)&M_QUOTE) != 0)

```

```

#define GLOB_LIMIT_MALLOC 65536
#define GLOB_LIMIT_STAT 2048
#define GLOB_LIMIT_READDIR 16384

struct glob_lim {
    size_t glim_malloc;
    size_t glim_stat;
    size_t glim_readdir;
};

static int compare(const void *, const void *);
static int g_Ctoc(const Char *, char *, unsigned int);
static int g_lstat(Char *, struct stat *, glob_t *);
static DIR *g_opendir(Char *, glob_t *);
static Char *g_strchr(const Char *, int);
static int g_strncmp(const Char *, const char *, size_t);
static int g_stat(Char *, struct stat *, glob_t *);
static int glob0(const Char *, glob_t *, struct glob_lim *);
static int glob1(Char *, Char *, glob_t *, struct glob_lim *);
static int glob2(Char *, Char *, Char *, Char *, Char *, Char *,
    glob_t *, struct glob_lim *);
static int glob3(Char *, Char *, Char *, Char *, Char *,
    Char *, Char *, glob_t *, struct glob_lim *);
static int globextend(const Char *, glob_t *, struct glob_lim *,
    struct stat *);
static const Char *
    globtilde(const Char *, Char *, size_t, glob_t *);
static int globexp1(const Char *, glob_t *, struct glob_lim *);
static int globexp2(const Char *, const Char *, glob_t *,
    struct glob_lim *);
static int match(Char *, Char *, Char *);
#ifdef DEBUG
static void qprintf(const char *, Char *);
#endif

int
sudo_glob(const char *pattern, int flags, int (*errfunc)(const char *, int),
    glob_t *pglob)
{
    const unsigned char *patnext;
    int c;
    Char *bufnext, *bufend, patbuf[PATH_MAX];
    struct glob_lim limit = { 0, 0, 0 };

    patnext = (unsigned char *) pattern;
    if (!(flags & GLOB_APPEND)) {
        pglob->gl_pathc = 0;
        pglob->gl_pathv = NULL;
    }
}

```

```

if (!(flags & GLOB_DOOFFS))
    pglob->gl_offs = 0;
}
pglob->gl_flags = flags & ~GLOB_MAGCHAR;
pglob->gl_errfunc = errfunc;
pglob->gl_matchc = 0;

if (pglob->gl_offs < 0 || pglob->gl_pathc < 0 ||
    pglob->gl_offs >= INT_MAX || pglob->gl_pathc >= INT_MAX ||
    pglob->gl_pathc >= INT_MAX - pglob->gl_offs - 1)
    return GLOB_NOSPACE;

if (strlen(pattern, PATH_MAX) == PATH_MAX)
    return GLOB_NOMATCH;

bufnext = patbuf;
bufend = bufnext + PATH_MAX - 1;
if (flags & GLOB_NOESCAPE)
    while (bufnext < bufend && (c = *patnext++) != EOS)
        *bufnext++ = c;
else {
    /* Protect the quoted characters. */
    while (bufnext < bufend && (c = *patnext++) != EOS)
        if (c == QUOTE) {
            if ((c = *patnext++) == EOS) {
                c = QUOTE;
                --patnext;
            }
            *bufnext++ = c | M_PROTECT;
        } else
            *bufnext++ = c;
}
*bufnext = EOS;

if (flags & GLOB_BRACE)
    return globexp1(patbuf, pglob, &limit);
else
    return glob0(patbuf, pglob, &limit);
}

/*
 * Expand recursively a glob { } pattern. When there is no more expansion
 * invoke the standard globbing routine to glob the rest of the magic
 * characters
 */
static int
globexp1(const Char *pattern, glob_t *pglob, struct glob_lim *limitp)
{

```



```

const Char* ptr = pattern;

/* Protect a single {}, for find(1), like csh */
if (pattern[0] == LBRACE && pattern[1] == RBRACE && pattern[2] == EOS)
    return glob0(pattern, pglob, limitp);

if ((ptr = (const Char *) g_strchr(ptr, LBRACE)) != NULL)
    return globexp2(ptr, pattern, pglob, limitp);

return glob0(pattern, pglob, limitp);
}

/*
 * Recursive brace globbing helper. Tries to expand a single brace.
 * If it succeeds then it invokes globexp1 with the new pattern.
 * If it fails then it tries to glob the rest of the pattern and returns.
 */
static int
globexp2(const Char *ptr, const Char *pattern, glob_t *pglob,
        struct glob_lim *limitp)
{
    int i, rv;
    Char *lm, *ls;
    const Char *pe, *pm, *pl;
    Char patbuf[PATH_MAX];

    /* copy part up to the brace */
    for (lm = patbuf, pm = pattern; pm != ptr; *lm++ = *pm++)
        continue;
    *lm = EOS;
    ls = lm;

    /* Find the balanced brace */
    for (i = 0, pe = ++ptr; *pe; pe++)
        if (*pe == LBRACKET) {
            /* Ignore everything between [] */
            for (pm = pe++; *pe != RBRACKET && *pe != EOS; pe++)
                continue;
            if (*pe == EOS) {
                /*
                 * We could not find a matching RBRACKET.
                 * Ignore and just look for RBRACE
                 */
                pe = pm;
            }
        } else if (*pe == LBRACE)
            i++;
}

```

```

else if (*pe == RBRACE) {
    if (i == 0)
        break;
    i--;
}

/* Non matching braces; just glob the pattern */
if (i != 0 || *pe == EOS)
    return glob0(patbuf, pglob, limitp);

for (i = 0, pl = pm = ptr; pm <= pe; pm++) {
    switch (*pm) {
    case LBRACKET:
        /* Ignore everything between [] */
        for (pl = pm++; *pm != RBRACKET && *pm != EOS; pm++)
            continue;
        if (*pm == EOS) {
            /*
             * We could not find a matching RBRACKET.
             * Ignore and just look for RBRACE
             */
            pm = pl;
        }
        break;

    case LBRACE:
        i++;
        break;

    case RBRACE:
        if (i) {
            i--;
            break;
        }
        /* FALLTHROUGH */
    case COMMA:
        if (i && *pm == COMMA)
            break;
        else {
            /* Append the current string */
            for (lm = ls; (pl < pm); *lm++ = *pl++)
                continue;

            /*
             * Append the rest of the pattern after the
             * closing brace
             */
            for (pl = pe + 1; (*lm++ = *pl++) != EOS; )

```

```

        continue;

        /* Expand the current pattern */
#ifdef DEBUG
        qprintf("globexp2:", patbuf);
#endif
        rv = globexp1(patbuf, pglob, limitp);
        if (rv && rv != GLOB_NOMATCH)
            return rv;

        /* move after the comma, to the next string */
        pl = pm + 1;
    }
    break;

default:
    break;
}
}
return 0;
}

/*
 * expand tilde from the passwd file.
 */
static const Char *
globtilde(const Char *pattern, Char *patbuf, size_t patbuf_len, glob_t *pglob)
{
    struct passwd *pwd;
    char *h;
    const Char *p;
    Char *b, *eb;

    if (*pattern != TILDE || !(pglob->gl_flags & GLOB_TILDE))
        return pattern;

    /* Copy up to the end of the string or / */
    eb = &patbuf[patbuf_len - 1];
    for (p = pattern + 1, h = (char *) patbuf;
         h < (char *)eb && *p && *p != SLASH; *h++ = *p++)
        continue;

    *h = EOS;

    if (((char *) patbuf)[0] == EOS) {
        /*

```

```

* handle a plain ~ or ~/ by expanding $HOME
* first and then trying the password file
*/
if ((h = getenv("HOME")) == NULL) {
if ((pwd = getpwuid(getuid())) == NULL)
return pattern;
else
h = pwd->pw_dir;
}
} else {
/*
* Expand a ~user
*/
if ((pwd = getpwnam((char*) patbuf)) == NULL)
return pattern;
else
h = pwd->pw_dir;
}

/* Copy the home directory */
for (b = patbuf; b < eb && *h; *b++ = *h++)
continue;

/* Append the rest of the pattern */
while (b < eb && (*b++ = *p++) != EOS)
continue;
*b = EOS;

return patbuf;
}

static int
g_strncmp(const Char *s1, const char *s2, size_t n)
{
int rv = 0;

while (n--) {
rv = *(Char *)s1 - *(const unsigned char *)s2++;
if (rv)
break;
if (*s1++ == '\0')
break;
}
return rv;
}

static int
g_chareclass(const Char **patternp, Char **bufnextp)

```

```

{
const Char *pattern = *patternp + 1;
Char *bufnext = *bufnextp;
const Char *colon;
struct cclass *cc;
size_t len;

if ((colon = g_strchr(pattern, ':')) == NULL || colon[1] != ']')
return 1; /* not a character class */

len = (size_t)(colon - pattern);
for (cc = cclasses; cc->name != NULL; cc++) {
if (!g_strncmp(pattern, cc->name, len) && cc->name[len] == '\0')
break;
}
if (cc->name == NULL)
return -1; /* invalid character class */
*bufnext++ = M_CLASS;
*bufnext++ = (Char)(cc - &cclasses[0]);
*bufnextp = bufnext;
*patternp += len + 3;

return 0;
}

/*
* The main glob() routine: compiles the pattern (optionally processing
* quotes), calls glob1() to do the real pattern matching, and finally
* sorts the list (unless unsorted operation is requested). Returns 0
* if things went well, nonzero if errors occurred. It is not an error
* to find no matches.
*/
static int
glob0(const Char *pattern, glob_t *pglob, struct glob_lim *limitp)
{
const Char *qpatnext;
int c, err, oldpathc;
Char *bufnext, patbuf[PATH_MAX];

qpatnext = globtilde(pattern, patbuf, PATH_MAX, pglob);
oldpathc = pglob->gl_pathc;
bufnext = patbuf;

/* We don't need to check for buffer overflow any more. */
while ((c = *qpatnext++) != EOS) {
switch (c) {
case LBRACKET:
c = *qpatnext;

```

```

if (c == NOT)
    ++qpatnext;
if (*qpatnext == EOS ||
    g_strchr(qpatnext+1, RBRACKET) == NULL) {
    *bufnext++ = LBRACKET;
    if (c == NOT)
        --qpatnext;
    break;
}
*bufnext++ = M_SET;
if (c == NOT)
    *bufnext++ = M_NOT;
c = *qpatnext++;
do {
    if (c == LBRACKET && *qpatnext == ':') {
        do {
            err = g_charclass(&qpatnext,
                &bufnext);
            if (err)
                break;
            c = *qpatnext++;
        } while (c == LBRACKET && *qpatnext == ':');
        if (err == -1 &&
            !(pglob->gl_flags & GLOB_NOCHECK))
            return GLOB_NOMATCH;
        if (c == RBRACKET)
            break;
    }
    *bufnext++ = CHAR(c);
    if (*qpatnext == RANGE &&
        (c = qpatnext[1]) != RBRACKET) {
        *bufnext++ = M_RNG;
        *bufnext++ = CHAR(c);
        qpatnext += 2;
    }
} while ((c = *qpatnext++) != RBRACKET);
pglob->gl_flags |= GLOB_MAGCHAR;
*bufnext++ = M_END;
break;
case QUESTION:
    pglob->gl_flags |= GLOB_MAGCHAR;
    *bufnext++ = M_ONE;
    break;
case STAR:
    pglob->gl_flags |= GLOB_MAGCHAR;
    /* collapse adjacent stars to one,
     * to avoid exponential behavior
     */

```

```

if (bufnext == patbuf || bufnext[-1] != M_ALL)
    *bufnext++ = M_ALL;
break;
default:
    *bufnext++ = CHAR(c);
break;
}
}
*bufnext = EOS;
#ifdef DEBUG
    qprintf("glob0:", patbuf);
#endif

if ((err = glob1(patbuf, patbuf + PATH_MAX - 1, pglob, limitp)) != 0)
    return err;

/*
 * If there was no match we are going to append the pattern
 * if GLOB_NOCHECK was specified.
 */
if (pglob->gl_pathc == oldpathc) {
    if ((pglob->gl_flags & GLOB_NOCHECK))
        return globextend(pattern, pglob, limitp, NULL);
    else
        return GLOB_NOMATCH;
}
if (!(pglob->gl_flags & GLOB_NOSORT)) {
    qsort(pglob->gl_pathv + pglob->gl_offs + oldpathc,
        pglob->gl_pathc - oldpathc, sizeof(char *), compare);
}
return 0;
}

static int
compare(const void *p, const void *q)
{
    return strcmp(*(char **)p, *(char **)q);
}

static int
glob1(Char *pattern, Char *pattern_last, glob_t *pglob, struct glob_lim *limitp)
{
    Char pathbuf[PATH_MAX];

    /* A null pathname is invalid -- POSIX 1003.1 sect. 2.4. */
    if (*pattern == EOS)
        return 0;
    return glob2(pathbuf, pathbuf + PATH_MAX - 1,

```

```

    pathbuf, pathbuf + PATH_MAX - 1,
    pattern, pattern_last, pglob, limitp);
}

/*
 * The functions glob2 and glob3 are mutually recursive; there is one level
 * of recursion for each segment in the pattern that contains one or more
 * meta characters.
 */
static int
glob2(Char *pathbuf, Char *pathbuf_last, Char *pathend, Char *pathend_last,
      Char *pattern, Char *pattern_last, glob_t *pglob, struct glob_lim *limitp)
{
    struct stat sb;
    Char *p, *q;
    int anymeta;

    /*
     * Loop over pattern segments until end of pattern or until
     * segment with meta character found.
     */
    for (anymeta = 0;;) {
        if (*pattern == EOS) { /* End of pattern? */
            *pathend = EOS;

            if ((pglob->gl_flags & GLOB_LIMIT) &&
                limitp->glim_stat++ >= GLOB_LIMIT_STAT) {
                errno = 0;
                *pathend++ = SEP;
                *pathend = EOS;
                return GLOB_NOSPACE;
            }
            if (g_lstat(pathbuf, &sb, pglob))
                return 0;

            if (((pglob->gl_flags & GLOB_MARK) &&
                pathend[-1] != SEP) && (S_ISDIR(sb.st_mode) ||
                (S_ISLNK(sb.st_mode) &&
                (g_stat(pathbuf, &sb, pglob) == 0) &&
                S_ISDIR(sb.st_mode)))) {
                if (pathend+1 > pathend_last)
                    return 1;
                *pathend++ = SEP;
                *pathend = EOS;
            }
            ++pglob->gl_matchc;
            return globextend(pathbuf, pglob, limitp, &sb);
        }
    }
}

```



```

/* Find end of next segment, copy tentatively to pathend. */
q = pathend;
p = pattern;
while (*p != EOS && *p != SEP) {
    if (ismeta(*p))
        anymeta = 1;
    if (q+1 > pathend_last)
        return 1;
    *q++ = *p++;
}

if (!anymeta) { /* No expansion, do next segment. */
    pathend = q;
    pattern = p;
    while (*pattern == SEP) {
        if (pathend+1 > pathend_last)
            return 1;
        *pathend++ = *pattern++;
    }
} else
    /* Need expansion, recurse. */
    return glob3(pathbuf, pathbuf_last, pathend,
        pathend_last, pattern, p, pattern_last,
        pglob, limitp);
}
/* NOTREACHED */
}

static int
glob3(Char *pathbuf, Char *pathbuf_last, Char *pathend, Char *pathend_last,
    Char *pattern, Char *restpattern, Char *restpattern_last, glob_t *pglob,
    struct glob_lim *limitp)
{
    struct dirent *dp;
    DIR *dirp;
    int err;
    char buf[PATH_MAX];

    if (pathend > pathend_last)
        return 1;
    *pathend = EOS;
    errno = 0;

    if ((dirp = g_opendir(pathbuf, pglob)) == NULL) {
        /* TODO: don't call for ENOENT or ENOTDIR? */
        if (pglob->gl_errfunc) {
            if (g_Ctoc(pathbuf, buf, sizeof(buf)))

```

```

return GLOB_ABORTED;
if (pglob->gl_errfunc(buf, errno) ||
    pglob->gl_flags & GLOB_ERR)
return GLOB_ABORTED;
}
return 0;
}

err = 0;

/* Search directory for matching names. */
while ((dp = readdir(dirp))) {
unsigned char *sc;
Char *dc;

if ((pglob->gl_flags & GLOB_LIMIT) &&
    limitp->glim_readdir++ >= GLOB_LIMIT_READDIR) {
    errno = 0;
    *pathend++ = SEP;
    *pathend = EOS;
    err = GLOB_NOSPACE;
    break;
}

/* Initial DOT must be matched literally. */
if (dp->d_name[0] == DOT && *pattern != DOT)
    continue;
dc = pathend;
sc = (unsigned char *) dp->d_name;
while (dc < pathend_last && (*dc++ = *sc++) != EOS)
    continue;
if (dc >= pathend_last) {
    *dc = EOS;
    err = 1;
    break;
}

if (!match(pathend, pattern, restpattern)) {
    *pathend = EOS;
    continue;
}
err = glob2(pathbuf, pathbuf_last, --dc, pathend_last,
    restpattern, restpattern_last, pglob, limitp);
if (err)
    break;
}

closedir(dirp);

```

```

return err;
}

/*
 * Extend the gl_pathv member of a glob_t structure to accommodate a new item,
 * add the new item, and update gl_pathc.
 *
 * This assumes the BSD realloc, which only copies the block when its size
 * crosses a power-of-two boundary; for v7 realloc, this would cause quadratic
 * behavior.
 *
 * Return 0 if new item added, error code if memory couldn't be allocated.
 *
 * Invariant of the glob_t structure:
 * Either gl_pathc is zero and gl_pathv is NULL; or gl_pathc > 0 and
 * gl_pathv points to (gl_offs + gl_pathc + 1) items.
 */
static int
globextend(const Char *path, glob_t *pglob, struct glob_lim *limitp,
           struct stat *sb)
{
    char **pathv;
    ssize_t i;
    size_t newn, len;
    char *copy = NULL;
    const Char *p;

    newn = 2 + pglob->gl_pathc + pglob->gl_offs;
    if (pglob->gl_offs >= INT_MAX ||
        pglob->gl_pathc >= INT_MAX ||
        newn >= INT_MAX ||
        SIZE_MAX / sizeof(*pathv) <= newn) {
nospace:
        for (i = pglob->gl_offs; i < (ssize_t)(newn - 2); i++) {
            if (pglob->gl_pathv && pglob->gl_pathv[i])
                free(pglob->gl_pathv[i]);
        }
        if (pglob->gl_pathv) {
            free(pglob->gl_pathv);
            pglob->gl_pathv = NULL;
        }
        return GLOB_NOSPACE;
    }

    pathv = reallocarray(pglob->gl_pathv, newn, sizeof(*pathv));
    if (pathv == NULL)
        goto nospace;
    if (pglob->gl_pathv == NULL && pglob->gl_offs > 0) {

```

```

/* first time around -- clear initial gl_offs items */
pathv += pglob->gl_offs;
for (i = pglob->gl_offs; --i >= 0; )
    *--pathv = NULL;
}
pglob->gl_pathv = pathv;

for (p = path; *p++;)
    continue;
len = (size_t)(p - path);
limitp->glim_malloc += len;
if ((copy = malloc(len)) != NULL) {
    if (g_Ctoc(path, copy, len) {
        free(copy);
        return GLOB_NOSPACE;
    }
    pathv[pglob->gl_offs + pglob->gl_pathc++] = copy;
}
pathv[pglob->gl_offs + pglob->gl_pathc] = NULL;

if ((pglob->gl_flags & GLOB_LIMIT) &&
    (newn * sizeof(*pathv)) + limitp->glim_malloc >
    GLOB_LIMIT_MALLOC) {
    errno = 0;
    return GLOB_NOSPACE;
}
return copy == NULL ? GLOB_NOSPACE : 0;
}

/*
 * pattern matching function for filenames. Each occurrence of the *
 * pattern causes an iteration.
 *
 * Note, this function differs from the original as per the discussion
 * here: https://research.swtch.com/glob
 *
 * Basically we removed the recursion and made it use the algorithm
 * from Russ Cox to not go quadratic on cases like a file called
 * ("a" x 100) . "x" matched against a pattern like "a*a*a*a*a*a*a*y".
 */
static int
match(Char *name, Char *pat, Char *patend)
{
    int ok, negate_range;
    Char c, k;
    Char *nextp = NULL;
    Char *nextn = NULL;

```

```

loop:
while (pat < patend) {
c = *pat++;
switch (c & M_MASK) {
case M_ALL:
while (pat < patend && (*pat & M_MASK) == M_ALL)
pat++; /* eat consecutive '*' */
if (pat == patend)
return 1;
if (*name == EOS)
return 0;
nextn = name + 1;
nextp = pat - 1;
break;
case M_ONE:
if (*name++ == EOS)
goto fail;
break;
case M_SET:
ok = 0;
if ((k = *name++) == EOS)
goto fail;
if ((negate_range = ((*pat & M_MASK) == M_NOT)) != EOS)
++pat;
while (((c = *pat++) & M_MASK) != M_END) {
if ((c & M_MASK) == M_CLASS) {
Char idx = *pat & M_MASK;
if (idx < NCCLASSES &&
cclasses[idx].isctype(k))
ok = 1;
++pat;
}
if ((*pat & M_MASK) == M_RNG) {
if (c <= k && k <= pat[1])
ok = 1;
pat += 2;
} else if (c == k)
ok = 1;
}
if (ok == negate_range)
goto fail;
break;
default:
if (*name++ != c)
goto fail;
break;
}
}

```

```

}
if (*name == EOS)
    return 1;
fail:
if (nextn) {
    pat = nextp;
    name = nextn;
    goto loop;
}
return 0;
}

/* Free allocated data belonging to a glob_t structure. */
void
sudo_globfree(glob_t *pglob)
{
    int i;
    char **pp;

    if (pglob->gl_pathv != NULL) {
        pp = pglob->gl_pathv + pglob->gl_offs;
        for (i = pglob->gl_pathc; i--; ++pp)
            if (*pp)
                free(*pp);
        free(pglob->gl_pathv);
        pglob->gl_pathv = NULL;
    }
}

static DIR *
g_opendir(Char *str, glob_t *pglob)
{
    char buf[PATH_MAX];

    if (!*str) {
        buf[0] = '.';
        buf[1] = '\0';
    } else {
        if (g_Ctoc(str, buf, sizeof(buf)))
            return NULL;
    }

    return opendir(buf);
}

static int
g_lstat(Char *fn, struct stat *sb, glob_t *pglob)
{

```

```

char buf[PATH_MAX];

if (g_Ctoc(fn, buf, sizeof(buf)))
    return -1;
return lstat(buf, sb);
}

static int
g_stat(Char *fn, struct stat *sb, glob_t *pglob)
{
    char buf[PATH_MAX];

    if (g_Ctoc(fn, buf, sizeof(buf)))
        return -1;
    return stat(buf, sb);
}

static Char *
g_strchr(const Char *str, int ch)
{
    do {
        if (*str == ch)
            return (Char *)str;
    } while (*str++);
    return NULL;
}

static int
g_Ctoc(const Char *str, char *buf, unsigned int len)
{
    while (len--) {
        if ((*buf++ = *str++) == EOS)
            return 0;
    }
    return 1;
}

#ifdef DEBUG
static void
qprintf(const char *str, Char *s)
{
    Char *p;

    (void)printf("%s:\n", str);
    for (p = s; *p; p++)
        (void)printf("%c", CHAR(*p));
    (void)printf("\n");
}

```

```

for (p = s; *p; p++)
    (void)printf("%c", *p & M_PROTECT ? "" : ' ');
(void)printf("\n");
for (p = s; *p; p++)
    (void)printf("%c", ismeta(*p) ? '_': ' ');
(void)printf("\n");
}
#endif /* DEBUG */
#endif /* HAVE_GLOB */
/*
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*
* @(#)queue.h 8.5 (Berkeley) 8/20/94
* $FreeBSD: head/sys/sys/queue.h 251887 2013-06-18 02:57:56Z Istewart $
*/

#ifdef SUDO_QUEUE_H
#define SUDO_QUEUE_H

/*
* This file defines four types of data structures: singly-linked lists,
* singly-linked tail queues, lists and tail queues.
*/

```


* A singly-linked list is headed by a single forward pointer. The elements
* are singly linked for minimum space and pointer manipulation overhead at
* the expense of O(n) removal for arbitrary elements. New elements can be
* added to the list after an existing element or at the head of the list.
* Elements being removed from the head of the list should use the explicit
* macro for this purpose for optimum efficiency. A singly-linked list may
* only be traversed in the forward direction. Singly-linked lists are ideal
* for applications with large datasets and few or no removals or for
* implementing a LIFO queue.

*
* A singly-linked tail queue is headed by a pair of pointers, one to the
* head of the list and the other to the tail of the list. The elements are
* singly linked for minimum space and pointer manipulation overhead at the
* expense of O(n) removal for arbitrary elements. New elements can be added
* to the list after an existing element, at the head of the list, or at the
* end of the list. Elements being removed from the head of the tail queue
* should use the explicit macro for this purpose for optimum efficiency.
* A singly-linked tail queue may only be traversed in the forward direction.
* Singly-linked tail queues are ideal for applications with large datasets
* and few or no removals or for implementing a FIFO queue.

*
* A list is headed by a single forward pointer (or an array of forward
* pointers for a hash table header). The elements are doubly linked
* so that an arbitrary element can be removed without a need to
* traverse the list. New elements can be added to the list before
* or after an existing element or at the head of the list. A list
* may be traversed in either direction.

*
* A tail queue is headed by a pair of pointers, one to the head of the
* list and the other to the tail of the list. The elements are doubly
* linked so that an arbitrary element can be removed without a need to
* traverse the list. New elements can be added to the list before or
* after an existing element, at the head of the list, or at the end of
* the list. A tail queue may be traversed in either direction.

*
* A headless tail queue lacks a head structure, The first element acts
* as a de facto list head. It uses the same entry struct as a regular
* tail queue for easy conversion from headless to headful.
* It is capable of concatenating queues as well as individual elements.
* Traversing in reverse is more expensive due to lack of a list head.
* Note: elements must be initialized before use.

*
* For details on the use of these macros, see the queue(3) manual page.

*
*

* SLIST LIST STAILQ TAILQ
* _HEAD + + + +
* _HEAD_INITIALIZER + + + +

```

*_ENTRY + + + +
*_INIT + + + +
*_EMPTY + + + +
*_FIRST + + + +
*_NEXT + + + +
*_PREV - - - +
*_LAST - - - +
*_FOREACH + + + +
*_FOREACH_FROM + + + +
*_FOREACH_SAFE + + + +
*_FOREACH_FROM_SAFE + + + +
*_FOREACH_REVERSE - - - +
*_FOREACH_REVERSE_FROM - - - +
*_FOREACH_REVERSE_SAFE - - - +
*_FOREACH_REVERSE_FROM_SAFE - - - +
*_INSERT_HEAD + + + +
*_INSERT_BEFORE - - - +
*_INSERT_AFTER + + + +
*_INSERT_TAIL - - - +
*_CONCAT - - - +
*_REMOVE_AFTER + - - -
*_REMOVE_HEAD + - - -
*_REMOVE + + + +
*_SWAP + + + +
*
*/
#ifdef QUEUE_MACRO_DEBUG
/* Store the last 2 places the queue element or head was altered */
struct qm_trace {
    unsigned long lastline;
    unsigned long prevline;
    const char *lastfile;
    const char *prevfile;
};

#undef TRACEBUF
#define TRACEBUF struct qm_trace trace;
#undef TRACEBUF_INITIALIZER
#define TRACEBUF_INITIALIZER { __FILE__, __LINE__, NULL, 0 } ,
#undef TRASHIT
#define TRASHIT(x) do {(x) = (void *)-1;} while (0)
#undef QMD_SAVELINK
#define QMD_SAVELINK(name, link) void **name = (void *)&(link)

#undef QMD_TRACE_HEAD
#define QMD_TRACE_HEAD(head) do { \
    (head)->trace.prevline = (head)->trace.lastline; \
    (head)->trace.prevfile = (head)->trace.lastfile; \

```

```

(head)->trace.lastline = __LINE__; \
(head)->trace.lastfile = __FILE__; \
} while (0)

#undef QMD_TRACE_ELEM
#define QMD_TRACE_ELEM(elem) do { \
(elem)->trace.prevline = (elem)->trace.lastline; \
(elem)->trace.prevfile = (elem)->trace.lastfile; \
(elem)->trace.lastline = __LINE__; \
(elem)->trace.lastfile = __FILE__; \
} while (0)

#else
#undef QMD_TRACE_ELEM
#define QMD_TRACE_ELEM(elem)
#undef QMD_TRACE_HEAD
#define QMD_TRACE_HEAD(head)
#undef QMD_SAVELINK
#define QMD_SAVELINK(name, link)
#undef TRACEBUF
#define TRACEBUF
#undef TRACEBUF_INITIALIZER
#define TRACEBUF_INITIALIZER
#undef TRASHIT
#define TRASHIT(x)
#endif /* QUEUE_MACRO_DEBUG */

/*
 * Singly-linked List declarations.
 */
#undef SLIST_HEAD
#define SLIST_HEAD(name, type) \
struct name { \
    struct type *slh_first; /* first element */ \
}

#undef SLIST_HEAD_INITIALIZER
#define SLIST_HEAD_INITIALIZER(head) \
{ NULL }

#undef SLIST_ENTRY
#define SLIST_ENTRY(type) \
struct { \
    struct type *sle_next; /* next element */ \
}

/*
 * Singly-linked List functions.

```

```

*/
#undef SLIST_EMPTY
#define SLIST_EMPTY(head) ((head)->slh_first == NULL)

#undef SLIST_FIRST
#define SLIST_FIRST(head) ((head)->slh_first)

#undef SLIST_FOREACH
#define SLIST_FOREACH(var, head, field) \
for ((var) = SLIST_FIRST((head)); \
    (var); \
    (var) = SLIST_NEXT((var), field))

#undef SLIST_FOREACH_FROM
#define SLIST_FOREACH_FROM(var, head, field) \
for ((var) = ((var) ? (var) : SLIST_FIRST((head))); \
    (var); \
    (var) = SLIST_NEXT((var), field))

#undef SLIST_FOREACH_SAFE
#define SLIST_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = SLIST_FIRST((head)); \
    (var) && ((tvar) = SLIST_NEXT((var), field), 1); \
    (var) = (tvar))

#undef SLIST_FOREACH_FROM_SAFE
#define SLIST_FOREACH_FROM_SAFE(var, head, field, tvar) \
for ((var) = ((var) ? (var) : SLIST_FIRST((head))); \
    (var) && ((tvar) = SLIST_NEXT((var), field), 1); \
    (var) = (tvar))

#undef SLIST_FOREACH_PREVPTR
#define SLIST_FOREACH_PREVPTR(var, varp, head, field) \
for ((varp) = &SLIST_FIRST((head)); \
    ((var) = *(varp)) != NULL; \
    (varp) = &SLIST_NEXT((var), field))

#undef SLIST_INIT
#define SLIST_INIT(head) do { \
    SLIST_FIRST((head)) = NULL; \
} while (0)

#undef SLIST_INSERT_AFTER
#define SLIST_INSERT_AFTER(slistelm, elm, field) do { \
    SLIST_NEXT((elm), field) = SLIST_NEXT((slistelm), field); \
    SLIST_NEXT((slistelm), field) = (elm); \
} while (0)

```

```

#undef SLIST_INSERT_HEAD
#define SLIST_INSERT_HEAD(head, elm, field) do { \
    SLIST_NEXT((elm), field) = SLIST_FIRST((head)); \
    SLIST_FIRST((head)) = (elm); \
} while (0)

#undef SLIST_NEXT
#define SLIST_NEXT(elm, field) ((elm)->field.sle_next)

#undef SLIST_REMOVE
#define SLIST_REMOVE(head, elm, type, field) do { \
    QMD_SAVELINK(oldnext, (elm)->field.sle_next); \
    if (SLIST_FIRST((head)) == (elm)) { \
        SLIST_REMOVE_HEAD((head), field); \
    } \
    else { \
        struct type *curelm = SLIST_FIRST((head)); \
        while (SLIST_NEXT(curelm, field) != (elm)) \
            curelm = SLIST_NEXT(curelm, field); \
        SLIST_REMOVE_AFTER(curelm, field); \
    } \
    TRASHIT(*oldnext); \
} while (0)

#undef SLIST_REMOVE_AFTER
#define SLIST_REMOVE_AFTER(elm, field) do { \
    SLIST_NEXT(elm, field) = \
        SLIST_NEXT(SLIST_NEXT(elm, field), field); \
} while (0)

#undef SLIST_REMOVE_HEAD
#define SLIST_REMOVE_HEAD(head, field) do { \
    SLIST_FIRST((head)) = SLIST_NEXT(SLIST_FIRST((head)), field); \
} while (0)

#undef SLIST_SWAP
#define SLIST_SWAP(head1, head2, type) do { \
    struct type *swap_first = SLIST_FIRST(head1); \
    SLIST_FIRST(head1) = SLIST_FIRST(head2); \
    SLIST_FIRST(head2) = swap_first; \
} while (0)

/*
 * Singly-linked Tail queue declarations.
 */
#undef STAILQ_HEAD
#define STAILQ_HEAD(name, type) \
    struct name { \

```

```

struct type *stqh_first; /* first element */ \
struct type **stqh_last; /* addr of last next element */ \
}

#undef STAILQ_HEAD_INITIALIZER
#define STAILQ_HEAD_INITIALIZER(head) \
{ NULL, &(head).stqh_first }

#undef STAILQ_ENTRY
#define STAILQ_ENTRY(type) \
struct { \
    struct type *stqe_next; /* next element */ \
}

/*
 * Singly-linked Tail queue functions.
 */
#undef STAILQ_CONCAT
#define STAILQ_CONCAT(head1, head2) do { \
    if (!STAILQ_EMPTY((head2))) { \
        *(head1)->stqh_last = (head2)->stqh_first; \
        (head1)->stqh_last = (head2)->stqh_last; \
        STAILQ_INIT((head2)); \
    } \
} while (0)

#undef STAILQ_EMPTY
#define STAILQ_EMPTY(head) ((head)->stqh_first == NULL)

#undef STAILQ_FIRST
#define STAILQ_FIRST(head) ((head)->stqh_first)

#undef STAILQ_FOREACH
#define STAILQ_FOREACH(var, head, field) \
for ((var) = STAILQ_FIRST((head)); \
    (var); \
    (var) = STAILQ_NEXT((var), field))

#undef STAILQ_FOREACH_FROM
#define STAILQ_FOREACH_FROM(var, head, field) \
for ((var) = ((var) ? (var) : STAILQ_FIRST((head))); \
    (var); \
    (var) = STAILQ_NEXT((var), field))

#undef STAILQ_FOREACH_SAFE
#define STAILQ_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = STAILQ_FIRST((head)); \
    (var) && ((tvar) = STAILQ_NEXT((var), field), 1); \

```

```

(var) = (tvar))

#undef STAILQ_FOREACH_FROM_SAFE
#define STAILQ_FOREACH_FROM_SAFE(var, head, field, tvar) \
for ((var) = ((var) ? (var) : STAILQ_FIRST((head))); \
    (var) && ((tvar) = STAILQ_NEXT((var), field), 1); \
    (var) = (tvar))

#undef STAILQ_INIT
#define STAILQ_INIT(head) do { \
    STAILQ_FIRST((head)) = NULL; \
    (head)->stqh_last = &STAILQ_FIRST((head)); \
} while (0)

#undef STAILQ_INSERT_AFTER
#define STAILQ_INSERT_AFTER(head, tqelm, elm, field) do { \
if ((STAILQ_NEXT((elm), field) = STAILQ_NEXT((tqelm), field)) == NULL) \
    (head)->stqh_last = &STAILQ_NEXT((elm), field); \
    STAILQ_NEXT((tqelm), field) = (elm); \
} while (0)

#undef STAILQ_INSERT_HEAD
#define STAILQ_INSERT_HEAD(head, elm, field) do { \
if ((STAILQ_NEXT((elm), field) = STAILQ_FIRST((head))) == NULL) \
    (head)->stqh_last = &STAILQ_NEXT((elm), field); \
    STAILQ_FIRST((head)) = (elm); \
} while (0)

#undef STAILQ_INSERT_TAIL
#define STAILQ_INSERT_TAIL(head, elm, field) do { \
    STAILQ_NEXT((elm), field) = NULL; \
    *(head)->stqh_last = (elm); \
    (head)->stqh_last = &STAILQ_NEXT((elm), field); \
} while (0)

#undef STAILQ_LAST
#define STAILQ_LAST(head, type, field) \
(STAILQ_EMPTY((head)) ? NULL : \
    __containerof((head)->stqh_last, struct type, field.stqe_next))

#undef STAILQ_NEXT
#define STAILQ_NEXT(elm, field) ((elm)->field.stqe_next)

#undef STAILQ_REMOVE
#define STAILQ_REMOVE(head, elm, type, field) do { \
    QMD_SAVELINK(oldnext, (elm)->field.stqe_next); \
    if (STAILQ_FIRST((head)) == (elm)) { \
        STAILQ_REMOVE_HEAD((head), field); \

```

```

} \
else { \
    struct type *curelm = STAILQ_FIRST((head)); \
    while (STAILQ_NEXT(curelm, field) != (elm)) \
        curelm = STAILQ_NEXT(curelm, field); \
    STAILQ_REMOVE_AFTER(head, curelm, field); \
} \
TRASHIT(*oldnext); \
} while (0)

#undef STAILQ_REMOVE_AFTER
#define STAILQ_REMOVE_AFTER(head, elm, field) do { \
    if ((STAILQ_NEXT(elm, field) = \
        STAILQ_NEXT(STAILQ_NEXT(elm, field), field)) == NULL) \
        (head)->stqh_last = &STAILQ_NEXT((elm), field); \
} while (0)

#undef STAILQ_REMOVE_HEAD
#define STAILQ_REMOVE_HEAD(head, field) do { \
    if ((STAILQ_FIRST((head)) = \
        STAILQ_NEXT(STAILQ_FIRST((head)), field)) == NULL) \
        (head)->stqh_last = &STAILQ_FIRST((head)); \
} while (0)

#undef STAILQ_SWAP
#define STAILQ_SWAP(head1, head2, type) do { \
    struct type *swap_first = STAILQ_FIRST(head1); \
    struct type **swap_last = (head1)->stqh_last; \
    STAILQ_FIRST(head1) = STAILQ_FIRST(head2); \
    (head1)->stqh_last = (head2)->stqh_last; \
    STAILQ_FIRST(head2) = swap_first; \
    (head2)->stqh_last = swap_last; \
    if (STAILQ_EMPTY(head1)) \
        (head1)->stqh_last = &STAILQ_FIRST(head1); \
    if (STAILQ_EMPTY(head2)) \
        (head2)->stqh_last = &STAILQ_FIRST(head2); \
} while (0)

/*
 * List declarations.
 */

#undef LIST_HEAD
#define LIST_HEAD(name, type) \
    struct name { \
        struct type *lh_first; /* first element */ \
    }

```



```

#undef LIST_HEAD_INITIALIZER
#define LIST_HEAD_INITIALIZER(head) \
    { NULL }

#undef LIST_ENTRY
#define LIST_ENTRY(type) \
struct { \
    struct type *le_next; /* next element */ \
    struct type **le_prev; /* address of previous next element */ \
}

/*
 * List functions.
 */
#undef LIST_EMPTY
#define LIST_EMPTY(head) ((head)->lh_first == NULL)

#undef LIST_FIRST
#define LIST_FIRST(head) ((head)->lh_first)

#undef LIST_FOREACH
#define LIST_FOREACH(var, head, field) \
for ((var) = LIST_FIRST((head)); \
    (var); \
    (var) = LIST_NEXT((var), field))

#undef LIST_FOREACH_FROM
#define LIST_FOREACH_FROM(var, head, field) \
for ((var) = ((var) ? (var) : LIST_FIRST((head))); \
    (var); \
    (var) = LIST_NEXT((var), field))

#undef LIST_FOREACH_SAFE
#define LIST_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = LIST_FIRST((head)); \
    (var) && ((tvar) = LIST_NEXT((var), field), 1); \
    (var) = (tvar))

#undef LIST_FOREACH_FROM_SAFE
#define LIST_FOREACH_FROM_SAFE(var, head, field, tvar) \
for ((var) = ((var) ? (var) : LIST_FIRST((head))); \
    (var) && ((tvar) = LIST_NEXT((var), field), 1); \
    (var) = (tvar))

#undef LIST_INIT
#define LIST_INIT(head) do { \
    LIST_FIRST((head)) = NULL; \
} while (0)

```

```
#undef LIST_INSERT_AFTER
#define LIST_INSERT_AFTER(listelm, elm, field) do { \
if ((LIST_NEXT((elm), field) = LIST_NEXT((listelm), field)) != NULL)\
LIST_NEXT((listelm), field)->field.le_prev = \
&LIST_NEXT((elm), field); \
LIST_NEXT((listelm), field) = (elm); \
(elm)->field.le_prev = &LIST_NEXT((listelm), field); \
} while (0)
```

```
#undef LIST_INSERT_BEFORE
#define LIST_INSERT_BEFORE(listelm, elm, field) do { \
(elm)->field.le_prev = (listelm)->field.le_prev; \
LIST_NEXT((elm), field) = (listelm); \
*(listelm)->field.le_prev = (elm); \
(listelm)->field.le_prev = &LIST_NEXT((elm), field); \
} while (0)
```

```
#undef LIST_INSERT_HEAD
#define LIST_INSERT_HEAD(head, elm, field) do { \
if ((LIST_NEXT((elm), field) = LIST_FIRST((head))) != NULL) \
LIST_FIRST((head))->field.le_prev = &LIST_NEXT((elm), field);\
LIST_FIRST((head)) = (elm); \
(elm)->field.le_prev = &LIST_FIRST((head)); \
} while (0)
```

```
#undef LIST_NEXT
#define LIST_NEXT(elm, field) ((elm)->field.le_next)
```

```
#undef LIST_PREV
#define LIST_PREV(elm, head, type, field) \
((elm)->field.le_prev == &LIST_FIRST((head)) ? NULL : \
__containerof((elm)->field.le_prev, struct type, field.le_next))
```

```
#undef LIST_REMOVE
#define LIST_REMOVE(elm, field) do { \
QMD_SAVELINK(oldnext, (elm)->field.le_next); \
QMD_SAVELINK(oldprev, (elm)->field.le_prev); \
if (LIST_NEXT((elm), field) != NULL) \
LIST_NEXT((elm), field)->field.le_prev = \
(elm)->field.le_prev; \
*(elm)->field.le_prev = LIST_NEXT((elm), field); \
TRASHIT(*oldnext); \
TRASHIT(*oldprev); \
} while (0)
```

```
#undef LIST_SWAP
#define LIST_SWAP(head1, head2, type, field) do { \
```

```

struct type *swap_tmp = LIST_FIRST((head1)); \
LIST_FIRST((head1)) = LIST_FIRST((head2)); \
LIST_FIRST((head2)) = swap_tmp; \
if ((swap_tmp = LIST_FIRST((head1))) != NULL) \
swap_tmp->field.le_prev = &LIST_FIRST((head1)); \
if ((swap_tmp = LIST_FIRST((head2))) != NULL) \
swap_tmp->field.le_prev = &LIST_FIRST((head2)); \
} while (0)

/*
* Tail queue declarations.
*/
#undef TAILQ_HEAD
#define TAILQ_HEAD(name, type) \
struct name { \
struct type *tqh_first; /* first element */ \
struct type **tqh_last; /* addr of last next element */ \
TRACEBUF \
}

#undef TAILQ_HEAD_INITIALIZER
#define TAILQ_HEAD_INITIALIZER(head) \
{ NULL, &(head).tqh_first, TRACEBUF_INITIALIZER }

#undef TAILQ_ENTRY
#define TAILQ_ENTRY(type) \
struct { \
struct type *tqe_next; /* next element */ \
struct type **tqe_prev; /* address of previous next element */ \
TRACEBUF \
}

/*
* Tail queue functions.
*/
#undef TAILQ_CONCAT
#define TAILQ_CONCAT(head1, head2, field) do { \
if (!TAILQ_EMPTY(head2)) { \
*(head1)->tqh_last = (head2)->tqh_first; \
(head2)->tqh_first->field.tqe_prev = (head1)->tqh_last; \
(head1)->tqh_last = (head2)->tqh_last; \
TAILQ_INIT((head2)); \
QMD_TRACE_HEAD(head1); \
QMD_TRACE_HEAD(head2); \
} \
} while (0)

#undef TAILQ_EMPTY

```

```

#define TAILQ_EMPTY(head) ((head)->tqh_first == NULL)

#undef TAILQ_FIRST
#define TAILQ_FIRST(head) ((head)->tqh_first)

#undef TAILQ_FOREACH
#define TAILQ_FOREACH(var, head, field) \
for ((var) = TAILQ_FIRST((head)); \
     (var); \
     (var) = TAILQ_NEXT((var), field))

#undef TAILQ_FOREACH_FROM
#define TAILQ_FOREACH_FROM(var, head, field) \
for ((var) = ((var) ? (var) : TAILQ_FIRST((head))); \
     (var); \
     (var) = TAILQ_NEXT((var), field))

#undef TAILQ_FOREACH_SAFE
#define TAILQ_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = TAILQ_FIRST((head)); \
     (var) && ((tvar) = TAILQ_NEXT((var), field), 1); \
     (var) = (tvar))

#undef TAILQ_FOREACH_FROM_SAFE
#define TAILQ_FOREACH_FROM_SAFE(var, head, field, tvar) \
for ((var) = ((var) ? (var) : TAILQ_FIRST((head))); \
     (var) && ((tvar) = TAILQ_NEXT((var), field), 1); \
     (var) = (tvar))

#undef TAILQ_FOREACH_REVERSE
#define TAILQ_FOREACH_REVERSE(var, head, headname, field) \
for ((var) = TAILQ_LAST((head), headname); \
     (var); \
     (var) = TAILQ_PREV((var), headname, field))

#undef TAILQ_FOREACH_REVERSE_FROM
#define TAILQ_FOREACH_REVERSE_FROM(var, head, headname, field) \
for ((var) = ((var) ? (var) : TAILQ_LAST((head), headname)); \
     (var); \
     (var) = TAILQ_PREV((var), headname, field))

#undef TAILQ_FOREACH_REVERSE_SAFE
#define TAILQ_FOREACH_REVERSE_SAFE(var, head, headname, field, tvar) \
for ((var) = TAILQ_LAST((head), headname); \
     (var) && ((tvar) = TAILQ_PREV((var), headname, field), 1); \
     (var) = (tvar))

#undef TAILQ_FOREACH_REVERSE_FROM_SAFE

```

```

#define TAILQ_FOREACH_REVERSE_FROM_SAFE(var, head, headname, field, tvar) \
for ((var) = ((var) ? (var) : TAILQ_LAST((head), headname)); \
    (var) && ((tvar) = TAILQ_PREV((var), headname, field), 1); \
    (var) = (tvar))

#undef TAILQ_INIT
#define TAILQ_INIT(head) do { \
    TAILQ_FIRST((head)) = NULL; \
    (head)->tqh_last = &TAILQ_FIRST((head)); \
    QMD_TRACE_HEAD(head); \
} while (0)

#undef TAILQ_INSERT_AFTER
#define TAILQ_INSERT_AFTER(head, listelm, elm, field) do { \
if ((TAILQ_NEXT((elm), field) = TAILQ_NEXT((listelm), field)) != NULL) \
    TAILQ_NEXT((elm), field)->field.tqe_prev = \
        &TAILQ_NEXT((elm), field); \
else { \
    (head)->tqh_last = &TAILQ_NEXT((elm), field); \
    QMD_TRACE_HEAD(head); \
} \
    TAILQ_NEXT((listelm), field) = (elm); \
    (elm)->field.tqe_prev = &TAILQ_NEXT((listelm), field); \
    QMD_TRACE_ELEM(&(elm)->field); \
    QMD_TRACE_ELEM(&listelm->field); \
} while (0)

#undef TAILQ_INSERT_BEFORE
#define TAILQ_INSERT_BEFORE(listelm, elm, field) do { \
    (elm)->field.tqe_prev = (listelm)->field.tqe_prev; \
    TAILQ_NEXT((elm), field) = (listelm); \
    *(listelm)->field.tqe_prev = (elm); \
    (listelm)->field.tqe_prev = &TAILQ_NEXT((elm), field); \
    QMD_TRACE_ELEM(&(elm)->field); \
    QMD_TRACE_ELEM(&listelm->field); \
} while (0)

#undef TAILQ_INSERT_HEAD
#define TAILQ_INSERT_HEAD(head, elm, field) do { \
if ((TAILQ_NEXT((elm), field) = TAILQ_FIRST((head))) != NULL) \
    TAILQ_FIRST((head))->field.tqe_prev = \
        &TAILQ_NEXT((elm), field); \
else \
    (head)->tqh_last = &TAILQ_NEXT((elm), field); \
    TAILQ_FIRST((head)) = (elm); \
    (elm)->field.tqe_prev = &TAILQ_FIRST((head)); \
    QMD_TRACE_HEAD(head); \
    QMD_TRACE_ELEM(&(elm)->field); \
} while (0)

```

```

} while (0)

#undef TAILQ_INSERT_TAIL
#define TAILQ_INSERT_TAIL(head, elm, field) do { \
    TAILQ_NEXT((elm), field) = NULL; \
    (elm)->field.tqe_prev = (head)->tqh_last; \
    *(head)->tqh_last = (elm); \
    (head)->tqh_last = &TAILQ_NEXT((elm), field); \
    QMD_TRACE_HEAD(head); \
    QMD_TRACE_ELEM(&(elm)->field); \
} while (0)

#undef TAILQ_LAST
#define TAILQ_LAST(head, headname) \
    (((struct headname *) (head)->tqh_last)->tqh_last)

#undef TAILQ_NEXT
#define TAILQ_NEXT(elm, field) ((elm)->field.tqe_next)

#undef TAILQ_PREV
#define TAILQ_PREV(elm, headname, field) \
    (((struct headname *) (elm)->field.tqe_prev)->tqh_last)

#undef TAILQ_REMOVE
#define TAILQ_REMOVE(head, elm, field) do { \
    QMD_SAVELINK(oldnext, (elm)->field.tqe_next); \
    QMD_SAVELINK(oldprev, (elm)->field.tqe_prev); \
    if ((TAILQ_NEXT((elm), field)) != NULL) \
        TAILQ_NEXT((elm), field)->field.tqe_prev = \
            (elm)->field.tqe_prev; \
    else { \
        (head)->tqh_last = (elm)->field.tqe_prev; \
        QMD_TRACE_HEAD(head); \
    } \
    *(elm)->field.tqe_prev = TAILQ_NEXT((elm), field); \
    TRASHIT(*oldnext); \
    TRASHIT(*oldprev); \
    QMD_TRACE_ELEM(&(elm)->field); \
} while (0)

#undef TAILQ_SWAP
#define TAILQ_SWAP(head1, head2, type, field) do { \
    struct type *swap_first = (head1)->tqh_first; \
    struct type **swap_last = (head1)->tqh_last; \
    (head1)->tqh_first = (head2)->tqh_first; \
    (head1)->tqh_last = (head2)->tqh_last; \
    (head2)->tqh_first = swap_first; \
    (head2)->tqh_last = swap_last; \
} while (0)

```

```

if ((swap_first = (head1)->tqh_first) != NULL) \
    swap_first->field.tqe_prev = &(head1)->tqh_first; \
else \
    (head1)->tqh_last = &(head1)->tqh_first; \
if ((swap_first = (head2)->tqh_first) != NULL) \
    swap_first->field.tqe_prev = &(head2)->tqh_first; \
else \
    (head2)->tqh_last = &(head2)->tqh_first; \
} while (0)

/*
* Headless Tail queue definitions.
*/
#undef HLTQ_ENTRY
#define HLTQ_ENTRY(type) TAILQ_ENTRY(type)

#undef HLTQ_INIT
#define HLTQ_INIT(entry, field) do { \
    (entry)->field.tqe_next = NULL; \
    (entry)->field.tqe_prev = &(entry)->field.tqe_next; \
} while (0)

#undef HLTQ_INITIALIZER
#define HLTQ_INITIALIZER(entry, field) \
    { NULL, &(entry)->field.tqe_next }

#undef HLTQ_FIRST
#define HLTQ_FIRST(elm) (elm)

#undef HLTQ_END
#define HLTQ_END(elm) NULL

#undef HLTQ_NEXT
#define HLTQ_NEXT(elm, field) ((elm)->field.tqe_next)

#undef HLTQ_LAST
#define HLTQ_LAST(elm, type, field) \
    ((elm)->field.tqe_next == NULL ? (elm) : \
    __containerof((elm)->field.tqe_prev, struct type, field.tqe_next))

#undef HLTQ_PREV
#define HLTQ_PREV(elm, type, field) \
    (*(elm)->field.tqe_prev == NULL ? NULL : \
    __containerof((elm)->field.tqe_prev, struct type, field.tqe_next))

#undef HLTQ_FOREACH
#define HLTQ_FOREACH(var, head, field) \
    for ((var) = HLTQ_FIRST(head); \

```

```

    (var) != HLTQ_END(head); \
    (var) = HLTQ_NEXT(var, field))

#undef HLTQ_FOREACH_SAFE
#define HLTQ_FOREACH_SAFE(var, head, field, tvar) \
for ((var) = HLTQ_FIRST(head); \
    (var) != HLTQ_END(head) && \
    ((tvar) = HLTQ_NEXT(var, field), 1); \
    (var) = (tvar))

#undef HLTQ_FOREACH_REVERSE
#define HLTQ_FOREACH_REVERSE(var, head, headname, field) \
for ((var) = HLTQ_LAST(head, headname); \
    (var) != HLTQ_END(head); \
    (var) = HLTQ_PREV(var, headname, field))

#undef HLTQ_FOREACH_REVERSE_SAFE
#define HLTQ_FOREACH_REVERSE_SAFE(var, head, headname, field, tvar) \
for ((var) = HLTQ_LAST(head, headname); \
    (var) != HLTQ_END(head) && \
    ((tvar) = HLTQ_PREV(var, headname, field), 1); \
    (var) = (tvar))

/* Concatenate queue2 to the end of queue1. */
#undef HLTQ_CONCAT
#define HLTQ_CONCAT(queue1, queue2, field) do { \
    (queue2)->field.tqe_prev = (queue1)->field.tqe_prev; \
    *(queue1)->field.tqe_prev = (queue2); \
    (queue1)->field.tqe_prev = &(queue2)->field.tqe_next; \
} while (0)

/* Convert a headless tailq to a headful one. */
#define HLTQ_TO_TAILQ(head, hl, field) do { \
    (head)->tqh_first = (hl); \
    (head)->tqh_last = (hl)->field.tqe_prev; \
    (hl)->field.tqe_prev = &(head)->tqh_first; \
} while (0)

/* Concatenate a headless tail queue to the end of a regular tail queue. */
#define TAILQ_CONCAT_HLTQ(head, hl, field) do { \
    void *last = (hl)->field.tqe_prev; \
    (hl)->field.tqe_prev = (head)->tqh_last; \
    *(head)->tqh_last = (hl); \
    (head)->tqh_last = last; \
} while (0)

#endif /* !SUDO_QUEUE_H */

```


/* \$OpenBSD: fnmatch.c,v 1.15 2011/02/10 21:31:59 stsp Exp \$ */

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*

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*/

/* Authored by William A. Rowe Jr. <wrowe; apache.org, vmware.com>, April 2011

*

* Derived from The Open Group Base Specifications Issue 7, IEEE Std 1003.1-2008

* as described in;

* <http://pubs.opengroup.org/onlinepubs/9699919799/functions/fnmatch.html>
 *
 * Filename pattern matches defined in section 2.13, "Pattern Matching Notation"
 * from chapter 2. "Shell Command Language"
 * http://pubs.opengroup.org/onlinepubs/9699919799/utilities/V3_chap02.html#tag_18_13
 * where; 1. A bracket expression starting with an unquoted <circumflex> '^'
 * character CONTINUES to specify a non-matching list; 2. an explicit <period> '.'
 * in a bracket expression matching list, e.g. "[.abc]" does NOT match a leading
 * <period> in a filename; 3. a <left-square-bracket> '[' which does not introduce
 * a valid bracket expression is treated as an ordinary character; 4. a differing
 * number of consecutive slashes within pattern and string will NOT match;
 * 5. a trailing '\' in FNM_ESCAPE mode is treated as an ordinary '\' character.
 *
 * Bracket expansion defined in section 9.3.5, "RE Bracket Expression",
 * from chapter 9, "Regular Expressions"
 * http://pubs.opengroup.org/onlinepubs/9699919799/basedefs/V1_chap09.html#tag_09_03_05
 * with no support for collating symbols, equivalence class expressions or
 * character class expressions. A partial range expression with a leading
 * hyphen following a valid range expression will match only the ordinary
 * <hyphen> and the ending character (e.g. "[a-m-z]" will match characters
 * 'a' through 'm', a <hyphen> '-', or a 'z').
 *
 * Supports BSD extensions FNM_LEADING_DIR to match pattern to the end of one
 * path segment of string, and FNM_CASEFOLD to ignore alpha case.
 *
 * NOTE: Only POSIX/C single byte locales are correctly supported at this time.
 * Notably, non-POSIX locales with FNM_CASEFOLD produce undefined results,
 * particularly in ranges of mixed case (e.g. "[A-z]") or spanning alpha and
 * nonalpha characters within a range.
 *
 * XXX comments below indicate porting required for multi-byte character sets
 * and non-POSIX locale collation orders; requires mbr* APIs to track shift
 * state of pattern and string (rewinding pattern and string repeatedly).
 *
 * Certain parts of the code assume 0x00-0x3F are unique with any MBCS (e.g.
 * UTF-8, SHIFT-JIS, etc). Any implementation allowing '\' as an alternate
 * path delimiter must be aware that 0x5C is NOT unique within SHIFT-JIS.
 */

```
#include <config.h>
```

```
#ifndef HAVE_FNMATCH
```

```
#include <sys/types.h>
```

```
#include <stdio.h>
```

```
#include <ctype.h>
```

```
#ifdef HAVE_STRING_H
```

```

#include <string.h>
#endif /* HAVE_STRING_H */
#ifdef HAVE_STRINGS_H
#include <strings.h>
#endif /* HAVE_STRINGS_H */

#include "sudo_compat.h"
#include "compat/charclass.h"
#include "compat/fnmatch.h"

#define RANGE_MATCH 1
#define RANGE_NOMATCH 0
#define RANGE_ERROR (-1)

static int
classmatch(const char *pattern, char test, int foldcase, const char **ep)
{
    const char * const mismatch = pattern;
    const char *colon;
    struct cclass *cc;
    int result = RANGE_NOMATCH;
    size_t len;

    if (pattern[0] != '[' || pattern[1] != ':') {
        *ep = mismatch;
        return RANGE_ERROR;
    }
    pattern += 2;

    if ((colon = strchr(pattern, ':')) == NULL || colon[1] != ']') {
        *ep = mismatch;
        return RANGE_ERROR;
    }
    *ep = colon + 2;
    len = (size_t)(colon - pattern);

    if (foldcase && strncmp(pattern, "upper:]", 7) == 0)
        pattern = "lower:];";
    for (cc = cclasses; cc->name != NULL; cc++) {
        if (!strncmp(pattern, cc->name, len) && cc->name[len] == '\0') {
            if (cc->isctype((unsigned char)test))
                result = RANGE_MATCH;
            break;
        }
    }
    if (cc->name == NULL) {
        /* invalid character class, treat as normal text */
        *ep = mismatch;
    }
}

```

```

result = RANGE_ERROR;
}
return result;
}

/* Most MBCS/collation/case issues handled here. Wildcard '*' is not handled.
 * EOS '\0' and the FNM_PATHNAME '/' delimiters are not advanced over,
 * however the "\\" sequence is advanced to '/'.
 *
 * Both pattern and string are **char to support pointer increment of arbitrary
 * multibyte characters for the given locale, in a later iteration of this code
 */
static int fnmatch_ch(const char **pattern, const char **string, int flags)
{
    const char * const mismatch = *pattern;
    const int nocase = !(flags & FNM_CASEFOLD);
    const int escape = !(flags & FNM_NOESCAPE);
    const int slash = !(flags & FNM_PATHNAME);
    int result = FNM_NOMATCH;
    const char *startch;
    int negate;

    if (**pattern == '[')
    {
        ++*pattern;

        /* Handle negation, either leading ! or ^ operators (never both) */
        negate = ((**pattern == '!') || (**pattern == '^'));
        if (negate)
            ++*pattern;

        /* ']' is an ordinary character at the start of the range pattern */
        if (**pattern == ']')
            goto leadingclosebrace;

        while (**pattern)
        {
            if (**pattern == ']') {
                ++*pattern;
                /* XXX: Fix for MBCS character width */
                ++*string;
                return (result ^ negate);
            }

            if (escape && (**pattern == '\\')) {
                ++*pattern;

                /* Patterns must be terminated with ']', not EOS */

```

```

        if (!**pattern)
            break;
    }

    /* Patterns must be terminated with ']' not '/' */
    if (slash && (**pattern == '/'))
        break;

    /* Match character classes. */
    switch (classmatch(*pattern, **string, nocase, pattern)) {
case RANGE_MATCH:
    result = 0;
    continue;
case RANGE_NOMATCH:
/* Valid character class but no match. */
    continue;
default:
/* Not a valid character class. */
break;
    }
    if (!**pattern)
        break;
}

leadingclosebrace:
/* Look at only well-formed range patterns;
 * "x-]" is not allowed unless escaped ("x-\]")
 * XXX: Fix for locale/MBCS character width
 */
if (((*pattern)[1] == '-') && ((*pattern)[2] != ']'))
{
    startch = *pattern;
    *pattern += (escape && ((*pattern)[2] == '\\')) ? 3 : 2;

    /* NOT a properly balanced [expr] pattern, EOS terminated
     * or ranges containing a slash in FNM_PATHNAME mode pattern
     * fall out to to the rewind and test '[' literal code path
     */
    if (!**pattern || (slash && (**pattern == '/')))
        break;

    /* XXX: handle locale/MBCS comparison, advance by MBCS char width */
    if ((*string >= *startch) && (**string <= **pattern))
        result = 0;
    else if (nocase && (isupper((unsigned char)**string) ||
isupper((unsigned char)*startch) ||
isupper((unsigned char)**pattern))
        && (tolower((unsigned char)**string) >= tolower((unsigned char)*startch))
        && (tolower((unsigned char)**string) <= tolower((unsigned char)**pattern)))

```

```

        result = 0;

        ++*pattern;
        continue;
    }

    /* XXX: handle locale/MBCS comparison, advance by MBCS char width */
    if (**string == **pattern)
        result = 0;
    else if (nocase && (isupper((unsigned char)**string) ||
isupper((unsigned char)**pattern))
        && (tolower((unsigned char)**string) == tolower((unsigned char)**pattern)))
        result = 0;

    ++*pattern;
}

/* NOT a properly balanced [expr] pattern; Rewind
 * and reset result to test '[' literal
 */
*pattern = mismatch;
result = FNM_NOMATCH;
}
else if (**pattern == '?') {
    /* Optimize '?' match before unescaping **pattern */
    if (!**string || (slash && (**string == '/')))
        return FNM_NOMATCH;
    result = 0;
    goto fnmatch_ch_success;
}
else if (escape && (**pattern == '\\') && (*pattern)[1]) {
    ++*pattern;
}

/* XXX: handle locale/MBCS comparison, advance by the MBCS char width */
if (**string == **pattern)
    result = 0;
else if (nocase && (isupper((unsigned char)**string) || isupper((unsigned char)**pattern))
    && (tolower((unsigned char)**string) == tolower((unsigned char)**pattern)))
    result = 0;

/* Refuse to advance over trailing slash or nulls
 */
if (!**string || !**pattern || (slash && (**string == '/') || (**pattern == '/')))
    return result;

fnmatch_ch_success:
    ++*pattern;

```

```

    ++*string;
    return result;
}

int sudo_fnmatch(const char *pattern, const char *string, int flags)
{
    static const char dummysstring[2] = {' ', 0};
    const int escape = !(flags & FNM_NOESCAPE);
    const int slash = !(flags & FNM_PATHNAME);
    const int leading_dir = !(flags & FNM_LEADING_DIR);
    const char *strendseg;
    const char *dummyptr;
    const char *matchptr;
    int wild;
    /* For '*' wild processing only; surpress 'used before initialization'
     * warnings with dummy initialization values;
     */
    const char *strstartseg = NULL;
    const char *mismatch = NULL;
    int matchlen = 0;

    if (*pattern == '*')
        goto firstsegment;

    while (*pattern && *string)
    {
        /* Pre-decode "\\" which has no special significance, and
         * match balanced slashes, starting a new segment pattern
         */
        if (slash && escape && (*pattern == '\\') && (pattern[1] == '/'))
            ++pattern;
        if (slash && (*pattern == '/') && (*string == '/')) {
            ++pattern;
            ++string;
        }
    }

    firstsegment:
    /* At the beginning of each segment, validate leading period behavior.
     */
    if ((flags & FNM_PERIOD) && (*string == '.'))
    {
        if (*pattern == '.')
            ++pattern;
        else if (escape && (*pattern == '\\') && (pattern[1] == '.'))
            pattern += 2;
        else
            return FNM_NOMATCH;
        ++string;
    }
}

```

```

}

/* Determine the end of string segment
 *
 * Presumes '/' character is unique, not composite in any MBCS encoding
 */
if (slash) {
    strendseg = strchr(string, '/');
    if (!strendseg)
        strendseg = strchr(string, '\0');
}
else {
    strendseg = strchr(string, '\0');
}

/* Allow pattern '*' to be consumed even with no remaining string to match
 */
while (*pattern)
{
    if ((string > strendseg)
        || ((string == strendseg) && (*pattern != '*')))
        break;

    if (slash && ((*pattern == '/')
                || (escape && (*pattern == '\\')
                    && (pattern[1] == '/))))
        break;

    /* Reduce groups of '*' and '?' to n '?' matches
     * followed by one '*' test for simplicity
     */
    for (wild = 0; ((*pattern == '*') || (*pattern == '?')); ++pattern)
    {
        if (*pattern == '*') {
            wild = 1;
        }
        else if (string < strendseg) { /* && (*pattern == '?') */
            /* XXX: Advance 1 char for MBCS locale */
            ++string;
        }
        else { /* (string >= strendseg) && (*pattern == '?') */
            return FNM_NOMATCH;
        }
    }
}

if (wild)
{
    strstartseg = string;

```



```

mismatch = pattern;

/* Count fixed (non '*') char matches remaining in pattern
 * excluding '/' (or "\/") and '*'
 */
for (matchptr = pattern, matchlen = 0; 1; ++matchlen)
{
    if ((*matchptr == '\0')
        || (slash && (*matchptr == '/')
            || (escape && (*matchptr == "\\")
                && (matchptr[1] == '/))))
    {
        /* Compare precisely this many trailing string chars,
         * the resulting match needs no wildcard loop
         */
        /* XXX: Adjust for MBCS */
        if (string + matchlen > strendseg)
            return FNM_NOMATCH;

        string = strendseg - matchlen;
        wild = 0;
        break;
    }

    if (*matchptr == '*')
    {
        /* Ensure at least this many trailing string chars remain
         * for the first comparison
         */
        /* XXX: Adjust for MBCS */
        if (string + matchlen > strendseg)
            return FNM_NOMATCH;

        /* Begin first wild comparison at the current position */
        break;
    }

    /* Skip forward in pattern by a single character match
     * Use a dummy fnmatch_ch() test to count one "[range]" escape
     */
    /* XXX: Adjust for MBCS */
    if (escape && (*matchptr == "\\") && matchptr[1]) {
        matchptr += 2;
    }
    else if (*matchptr == '[') {
        dummyptr = dummystring;
        fnmatch_ch(&matchptr, &dummyptr, flags);
    }
}

```

```

        else {
            ++matchptr;
        }
    }
}

/* Incrementally match string against the pattern
*/
while (*pattern && (string < strendseg))
{
    /* Success; begin a new wild pattern search
    */
    if (*pattern == '*')
        break;

    if (slash && ((*string == '/')
        || (*pattern == '/')
        || (escape && (*pattern == '\\')
            && (pattern[1] == '/))))
        break;

    /* Compare ch's (the pattern is advanced over "\\" to the '/',
    * but slashes will mismatch, and are not consumed)
    */
    if (!fnmatch_ch(&pattern, &string, flags))
        continue;

    /* Failed to match, loop against next char offset of string segment
    * until not enough string chars remain to match the fixed pattern
    */
    if (wild) {
        /* XXX: Advance 1 char for MBCS locale */
        string = ++strstartseg;
        if (string + matchlen > strendseg)
            return FNM_NOMATCH;

        pattern = mismatch;
        continue;
    }
    else
        return FNM_NOMATCH;
}

if (*string && !(slash || leading_dir) && (*string == '/'))
    return FNM_NOMATCH;

if (*pattern && !(slash && (*pattern == '/'))

```

```

        || (escape && (*pattern == '\\)
            && (pattern[1] == '/'))))
    return FNM_NOMATCH;

    if (leading_dir && !*pattern && *string == '/')
        return 0;
}

/* Where both pattern and string are at EOS, declare success
*/
if (!*string && !*pattern)
    return 0;

/* pattern didn't match to the end of string */
return FNM_NOMATCH;
}
#endif /* HAVE_FNMATCH */

```

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/* \$OpenBSD: inet_pton.c,v 1.8 2010/05/06 15:47:14 claudio Exp \$ */

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*/

```
#include <config.h>
```

```
#if !defined(HAVE_INET_PTON)
```

```
#include <sys/types.h>
```

```
#include <sys/socket.h>
```

```
#include <netinet/in.h>
```

```
#include <arpa/inet.h>
```

```
#include <arpa/nameser.h>
```

```
#ifdef HAVE_STRING_H
```

```
# include <string.h>
```

```
#endif /* HAVE_STRING_H */
```

```
#ifdef HAVE_STRINGS_H
```

```
# include <strings.h>
```

```
#endif /* HAVE_STRINGS_H */
```

```
#include <errno.h>
```

```
#include "sudo_compat.h"
```

```
#ifndef EAFNOSUPPORT
```

```
# define EAFNOSUPPORT EINVAL
```

```
#endif
```

```
#ifndef NS_INADDRSZ
```

```
# ifdef INADDRSZ
```

```
# define NS_INADDRSZ INADDRSZ
```

```
# else
```

```
# define NS_INADDRSZ 4
```

```
# endif
```

```
#endif
```

```
#ifndef NS_IN6ADDRSZ
```

```
# ifdef IN6ADDRSZ
```

```
# define NS_IN6ADDRSZ IN6ADDRSZ
```

```
# else
```

```
# define NS_IN6ADDRSZ 16
```

```

# endif
#endif
#ifndef NS_INT16SZ
# ifdef INT16SZ
#  define NS_INT16SZ INT16SZ
# else
#  define NS_INT16SZ 2
# endif
#endif

/*
 * WARNING: Don't even consider trying to compile this on a system where
 * sizeof(int) < 4. sizeof(int) > 4 is fine; all the world's not a VAX.
 */

/* int
 * inet_pton4(src, dst)
 * like inet_aton() but without all the hexadecimal and shorthand.
 * return:
 * 1 if `src' is a valid dotted quad, else 0.
 * notice:
 * does not touch `dst' unless it's returning 1.
 * author:
 * Paul Vixie, 1996.
 */
static int
inet_pton4(const char *src, u_char *dst)
{
    const char digits[] = "0123456789";
    int saw_digit, octets, ch;
    u_char tmp[NS_INADDRSZ], *tp;

    saw_digit = 0;
    octets = 0;
    /* cppcheck-suppress uninitvar */
    *(tp = tmp) = '\0';
    while ((ch = (unsigned char)*src++) != '\0') {
        const char *pch;

        if ((pch = strchr(digits, ch)) != NULL) {
            u_int new = *tp * 10 + (pch - digits);

            if (new > 255)
                return (0);
            if (!saw_digit) {
                if (++octets > 4)
                    return (0);
                saw_digit = 1;
            }
            *tp++ = new;
        }
    }
    if (octets < 4)
        return (0);
    memcpy(dst, tmp, NS_INADDRSZ);
    return (1);
}

```

```

    }
    *tp = new;
} else if (ch == '.' && saw_digit) {
    if (octets == 4)
        return (0);
    *++tp = 0;
    saw_digit = 0;
} else
    return (0);
}
if (octets < 4)
    return (0);

memcpy(dst, tmp, NS_INADDRSZ);
return (1);
}

#ifdef HAVE_STRUCT_IN6_ADDR
/* int
 * inet_pton6(src, dst)
 * convert presentation level address to network order binary form.
 * return:
 * 1 if `src' is a valid [RFC1884 2.2] address, else 0.
 * notice:
 * does not touch `dst' unless it's returning 1.
 * credit:
 * inspired by Mark Andrews.
 * author:
 * Paul Vixie, 1996.
 */
static int
inet_pton6(const char *src, u_char *dst)
{
    const char xdigits_l[] = "0123456789abcdef",
              xdigits_u[] = "0123456789ABCDEF";
    u_char tmp[NS_IN6ADDRSZ], *tp, *endp, *colonp;
    const char *xdigits, *curtok;
    int ch, saw_xdigit, count_xdigit;
    u_int val;

    /* cppcheck-suppress uninitvar */
    memset((tp = tmp), 0, NS_IN6ADDRSZ);
    endp = tp + NS_IN6ADDRSZ;
    colonp = NULL;
    /* Leading :: requires some special handling. */
    if (*src == ':')
        if (*++src != ':')
            return (0);

```

```

curtok = src;
saw_xdigit = count_xdigit = 0;
val = 0;
while ((ch = (unsigned char)*src++) != '\0') {
    const char *pch;

    if ((pch = strchr((xdigits = xdigits_l), ch)) == NULL)
        pch = strchr((xdigits = xdigits_u), ch);
    if (pch != NULL) {
        if (count_xdigit >= 4)
            return (0);
        val <<= 4;
        val |= (pch - xdigits);
        if (val > 0xffff)
            return (0);
        saw_xdigit = 1;
        count_xdigit++;
        continue;
    }
    if (ch == ':') {
        curtok = src;
        if (!saw_xdigit) {
            if (colonp)
                return (0);
            colonp = tp;
            continue;
        } else if (*src == '\0') {
            return (0);
        }
        if (tp + NS_INT16SZ > endp)
            return (0);
        *tp++ = (u_char) (val >> 8) & 0xff;
        *tp++ = (u_char) val & 0xff;
        saw_xdigit = 0;
        count_xdigit = 0;
        val = 0;
        continue;
    }
    if (ch == '.' && ((tp + NS_INADDRSZ) <= endp) &&
        inet_pton4(curtok, tp) > 0) {
        tp += NS_INADDRSZ;
        saw_xdigit = 0;
        count_xdigit = 0;
        break; /* '\0' was seen by inet_pton4(). */
    }
    return (0);
}
if (saw_xdigit) {

```

```

if (tp + NS_INT16SZ > endp)
    return (0);
*tp++ = (u_char) (val >> 8) & 0xff;
*tp++ = (u_char) val & 0xff;
}
if (colonp != NULL) {
    /*
     * Since some memmove()'s erroneously fail to handle
     * overlapping regions, we'll do the shift by hand.
     */
    const long n = tp - colonp;
    long i;

    if (tp == endp)
        return (0);
    for (i = 1; i <= n; i++) {
        endp[- i] = colonp[n - i];
        colonp[n - i] = 0;
    }
    tp = endp;
}
if (tp != endp)
    return (0);
memcpy(dst, tmp, NS_IN6ADDRSZ);
return (1);
}
#endif /* HAVE_STRUCT_IN6_ADDR */

/* int
 * inet_pton(af, src, dst)
 * convert from presentation format (which usually means ASCII printable)
 * to network format (which is usually some kind of binary format).
 * return:
 * 1 if the address was valid for the specified address family
 * 0 if the address wasn't valid (^dst' is untouched in this case)
 * -1 if some other error occurred (^dst' is untouched in this case, too)
 * author:
 * Paul Vixie, 1996.
 */
int
sudo_inet_pton(int af, const char *src, void *dst)
{
    switch (af) {
    case AF_INET:
        return (inet_pton4(src, dst));
#ifdef HAVE_STRUCT_IN6_ADDR
    case AF_INET6:
        return (inet_pton6(src, dst));
#endif
    }
}

```



```
#endif /* HAVE_STRUCT_INET6_ADDR */
default:
    errno = EAFNOSUPPORT;
    return (-1);
}
/* NOTREACHED */
}
```

```
#endif /* HAVE_INET_PTON */
```

The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
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Calvin, Gary
Campbell, Aaron
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ek, Vtzslav
Coleman, Chris
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Farrell, Brian
Fobes, Steve
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G., Daniel Richard
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Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
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Hunter, Michael T.
Hutchings, Ben
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Jackson, Brian
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Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.

Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
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Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
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Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
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SATO, Yuichi
Snchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno

Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
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Stier, Matthew
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Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri

Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
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Spingos, Dimitris
Taniguchi, Yasuaki
Uranga, Mikel Olasagasti
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Wang, Wylmer

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1.205 syslog-ng 3.6.4

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FAQ:

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A: Yes, that's exactly the point of open source. Works derived from the plugins will have to use the GPL license, but you can choose to use LGPL for them as well.

Q: Do I need to sign a Contributory License Agreement in order for my contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the syslog-ng core but not derived works of other plugins. Thus, non-free plugins are possible, provided they do not link to any of the GPLd plugins explicitly and the only connection between two plugins is via the syslog-ng core.

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```
#ifndef _OS_H
```

```
#define _OS_H
```

```
/******
```

```
*
```

```
*
```

```
* THIS FILE IS PART OF THE OggVorbis 'TREMOR' CODEC SOURCE CODE. *
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*
*
*****
```

```
function: #ifdef jail to whip a few platforms into the UNIX ideal.
```

```
*****/
```

```
#include <math.h>
#include <ogg/os_types.h>

#ifndef _V_IFDEFJAIL_H_
# define _V_IFDEFJAIL_H_

# ifdef __GNUC__
#  define STIN static __inline__
# elif _WIN32
#  define STIN static __inline
# endif
#else
# define STIN static
#endif

#ifndef M_PI
# define M_PI (3.1415926536f)
#endif

#ifdef _WIN32
# include <malloc.h>
# define rint(x) (floor((x)+0.5f))
# define NO_FLOAT_MATH_LIB
# define FAST_HYPOT(a, b) sqrt((a)*(a) + (b)*(b))
# define LITTLE_ENDIAN 1
# define BYTE_ORDER LITTLE_ENDIAN
#endif

#ifdef HAVE_ALLOCA_H
# include <alloca.h>
#endif

#ifdef USE_MEMORY_H
# include <memory.h>
#endif

#ifndef min
# define min(x,y) ((x)>(y)?(y):(x))
#endif
```

```
#ifndef max
# define max(x,y) ((x)<(y)?(y):(x))
#endif

#endif /* _OS_H */
LICENSE: BSD
PR: r1
PV: 20150107
```

1.213 ttf-bitstream-vera 1.10

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=====

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8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

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1.214 tzdata 2016i

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1.215 update-rc.d 0.7 :eca680ddf2

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```
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#
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1.216 uriparser 0.8.0

:2d0acf37dc8528874ba443ffc0e9ae5e

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uriparser - RFC 3986 URI parsing library

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/*

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*

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1.217 uriparser/test 0.8.0

:2d0acf37dc8528874ba443ffc0e9ae5e

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Version 2.1, February 1999

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/*

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*

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```
Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img
```

```
---layout-----
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>
```

```
-----
Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img
```

```
---layout-----
```

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout-----

Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device	Boot	Start	End	Sectors	Size	Id	Type
<removed>1		2048	4095	2048	1M	83	Linux
<removed>2		4096	20479	16384	8M	a5	FreeBSD

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors

Geometry: 255 heads, 63 sectors/track, 1 cylinders

Units: sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disklabel type: bsd

Slice	Start	End	Sectors	Size	Type	Fsize	Bsize	Cpg
a	4096	6144	2049	1M	4.2BSD	0	0	0
c	4096	20479	16384	8M	unused	0	0	0
d	0	16064	16065	7.9M	unused	0	0	0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

0 unused	5 4.1BSD	9 4.4LFS	d boot
1 swap	6 Eighth Edition	a unknown	e ADOS
2 Version 6	7 4.2BSD	b HPFS	f HFS
3 Version 7	8 MS-DOS	c ISO-9660	10 AdvFS
4 System V			

Command (m for help):

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1.222 wayland 1.9.0

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1.223 wpa-supPLICANT 2.6

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1.225 wpeframework 3.0 :62dfa67383

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1.226 wpeframework-plugins 3.0

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1.229 xproto 7.0.28

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1.230 xz 5.2.2

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PR: r0

PV: 5.2.2

/* Getopt for GNU.

NOTE: getopt is now part of the C library, so if you don't know what

"Keep this file name-space clean" means, talk to drepper@gnu.org before changing it!
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```
#ifndef _LIBC
# include <config.h>
#endif

#include "getopt.h"

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>

#ifdef __VMS
# include <unixlib.h>
#endif

/* Completely disable NLS for getopt. We won't include translations for it
   anyway. If the system lacks getopt_long, missing translations probably
   aren't a problem. */
/*
#ifdef _LIBC
# include <libintl.h>
#else
# include "gettext.h"
# define _(msgid) gettext (msgid)
#endif
*/
#define _(msgid) (msgid)
```

```
#if defined _LIBC && defined USE_IN_LIBIO
```

```
# include <wchar.h>
```

```
#endif
```

```
#ifndef attribute_hidden
```

```
# define attribute_hidden
```

```
#endif
```

```
/* Unlike standard Unix `getopt', functions like `getopt_long'  
let the user intersperse the options with the other arguments.
```

As `getopt_long' works, it permutes the elements of ARGV so that,
when it is done, all the options precede everything else. Thus
all application programs are extended to handle flexible argument order.

Using `getopt' or setting the environment variable POSIXLY_CORRECT
disables permutation.

Then the application's behavior is completely standard.

GNU application programs can use a third alternative mode in which
they can distinguish the relative order of options and other arguments. */

```
#include "getopt_int.h"
```

```
/* For communication from `getopt' to the caller.
```

```
When `getopt' finds an option that takes an argument,  
the argument value is returned here.
```

```
Also, when `ordering' is RETURN_IN_ORDER,  
each non-option ARGV-element is returned here. */
```

```
char *optarg;
```

```
/* Index in ARGV of the next element to be scanned.
```

```
This is used for communication to and from the caller  
and for communication between successive calls to `getopt'.
```

```
On entry to `getopt', zero means this is the first call; initialize.
```

```
When `getopt' returns -1, this is the index of the first of the  
non-option elements that the caller should itself scan.
```

```
Otherwise, `optind' communicates from one call to the next  
how much of ARGV has been scanned so far. */
```

```
/* 1003.2 says this must be 1 before any call. */
```

```
int optind = 1;
```

```
/* Callers store zero here to inhibit the error message
```

```

for unrecognized options. */

int opterr = 1;

/* Set to an option character which was unrecognized.
   This must be initialized on some systems to avoid linking in the
   system's own getopt implementation. */

int optopt = '?';

/* Keep a global copy of all internal members of getopt_data. */

static struct _getopt_data getopt_data;

#if defined HAVE_DECL_GETENV && !HAVE_DECL_GETENV
extern char *getenv ();
#endif

#ifdef _LIBC
/* Stored original parameters.
   XXX This is no good solution. We should rather copy the args so
   that we can compare them later. But we must not use malloc(3). */
extern int __libc_argc;
extern char **__libc_argv;

/* Bash 2.0 gives us an environment variable containing flags
   indicating ARGV elements that should not be considered arguments. */

# ifdef USE_NONOPTION_FLAGS
/* Defined in getopt_init.c */
extern char *__getopt_nonoption_flags;
# endif

# ifdef USE_NONOPTION_FLAGS
#  define SWAP_FLAGS(ch1, ch2) \
    if (d->__nonoption_flags_len > 0) \
    { \
        char __tmp = __getopt_nonoption_flags[ch1]; \
        __getopt_nonoption_flags[ch1] = __getopt_nonoption_flags[ch2]; \
        __getopt_nonoption_flags[ch2] = __tmp; \
    }
# else
#  define SWAP_FLAGS(ch1, ch2)
# endif
#else /* !_LIBC */
# define SWAP_FLAGS(ch1, ch2)
#endif /* !_LIBC */

```

```

/* Exchange two adjacent subsequences of ARGV.
One subsequence is elements [first_nonopt,last_nonopt)
which contains all the non-options that have been skipped so far.
The other is elements [last_nonopt,optind), which contains all
the options processed since those non-options were skipped.

`first_nonopt' and `last_nonopt' are relocated so that they describe
the new indices of the non-options in ARGV after they are moved. */

```

```

static void
exchange (char **argv, struct _getopt_data *d)
{
    int bottom = d->__first_nonopt;
    int middle = d->__last_nonopt;
    int top = d->optind;
    char *tem;

    /* Exchange the shorter segment with the far end of the longer segment.
       That puts the shorter segment into the right place.
       It leaves the longer segment in the right place overall,
       but it consists of two parts that need to be swapped next. */

#ifdef _LIBC && defined USE_NONOPTION_FLAGS
    /* First make sure the handling of the `__getopt_nonoption_flags'
       string can work normally. Our top argument must be in the range
       of the string. */
    if (d->__nonoption_flags_len > 0 && top >= d->__nonoption_flags_max_len)
    {
        /* We must extend the array. The user plays games with us and
           presents new arguments. */
        char *new_str = malloc (top + 1);
        if (new_str == NULL)
            d->__nonoption_flags_max_len = d->__nonoption_flags_max_len = 0;
        else
        {
            memset (__mempcpy (new_str, __getopt_nonoption_flags,
                               d->__nonoption_flags_max_len),
                    '\0', top + 1 - d->__nonoption_flags_max_len);
            d->__nonoption_flags_max_len = top + 1;
            __getopt_nonoption_flags = new_str;
        }
    }
#endif

    while (top > middle && middle > bottom)
    {
        if (top - middle > middle - bottom)

```

```

{
    /* Bottom segment is the short one. */
    int len = middle - bottom;
    register int i;

    /* Swap it with the top part of the top segment. */
    for (i = 0; i < len; i++)
    {
        tem = argv[bottom + i];
        argv[bottom + i] = argv[top - (middle - bottom) + i];
        argv[top - (middle - bottom) + i] = tem;
        SWAP_FLAGS (bottom + i, top - (middle - bottom) + i);
    }
    /* Exclude the moved bottom segment from further swapping. */
    top -= len;
}
else
{
    /* Top segment is the short one. */
    int len = top - middle;
    register int i;

    /* Swap it with the bottom part of the bottom segment. */
    for (i = 0; i < len; i++)
    {
        tem = argv[bottom + i];
        argv[bottom + i] = argv[middle + i];
        argv[middle + i] = tem;
        SWAP_FLAGS (bottom + i, middle + i);
    }
    /* Exclude the moved top segment from further swapping. */
    bottom += len;
}

/* Update records for the slots the non-options now occupy. */

d->__first_nonopt += (d->optind - d->__last_nonopt);
d->__last_nonopt = d->optind;
}

/* Initialize the internal data when the first call is made. */

static const char *
_getopt_initialize (int argc, char **argv, const char *optstring,
    int posixly_correct, struct _getopt_data *d)
{
    /* Start processing options with ARGV-element 1 (since ARGV-element 0

```

```

is the program name); the sequence of previously skipped
non-option ARGV-elements is empty. */

d->__first_nonopt = d->__last_nonopt = d->optind;

d->__nextchar = NULL;

d->__posixly_correct = posixly_correct || !!getenv ("POSIXLY_CORRECT");

/* Determine how to handle the ordering of options and nonoptions. */

if (optstring[0] == '-')
{
d->__ordering = RETURN_IN_ORDER;
++optstring;
}
else if (optstring[0] == '+')
{
d->__ordering = REQUIRE_ORDER;
++optstring;
}
else if (d->__posixly_correct)
d->__ordering = REQUIRE_ORDER;
else
d->__ordering = PERMUTE;

#if defined _LIBC && defined USE_NONOPTION_FLAGS
if (!d->__posixly_correct
&& argc == __libc_argc && argv == __libc_argv)
{
if (d->__nonoption_flags_max_len == 0)
{
if (__getopt_nonoption_flags == NULL
|| __getopt_nonoption_flags[0] == '\0')
d->__nonoption_flags_max_len = -1;
else
{
const char *orig_str = __getopt_nonoption_flags;
int len = d->__nonoption_flags_max_len = strlen (orig_str);
if (d->__nonoption_flags_max_len < argc)
d->__nonoption_flags_max_len = argc;
__getopt_nonoption_flags =
(char *) malloc (d->__nonoption_flags_max_len);
if (__getopt_nonoption_flags == NULL)
d->__nonoption_flags_max_len = -1;
else
memset (__mempcpy (__getopt_nonoption_flags, orig_str, len),
'\0', d->__nonoption_flags_max_len - len);
}
}
}

```

```

    }
}
d->__nonoption_flags_len = d->__nonoption_flags_max_len;
}
else
    d->__nonoption_flags_len = 0;
#endif

return optstring;
}

/* Scan elements of ARGV (whose length is ARGV) for option characters
given in OPTSTRING.

```

If an element of ARGV starts with '-', and is not exactly "-" or "--", then it is an option element. The characters of this element (aside from the initial '-') are option characters. If `getopt' is called repeatedly, it returns successively each of the option characters from each of the option elements.

If `getopt' finds another option character, it returns that character, updating `optind' and `nextchar' so that the next call to `getopt' can resume the scan with the following option character or ARGV-element.

If there are no more option characters, `getopt' returns -1. Then `optind' is the index in ARGV of the first ARGV-element that is not an option. (The ARGV-elements have been permuted so that those that are not options now come last.)

OPTSTRING is a string containing the legitimate option characters. If an option character is seen that is not listed in OPTSTRING, return '?' after printing an error message. If you set `opterr' to zero, the error message is suppressed but we still return '?'.

If a char in OPTSTRING is followed by a colon, that means it wants an arg, so the following text in the same ARGV-element, or the text of the following ARGV-element, is returned in `optarg'. Two colons mean an option that wants an optional arg; if there is text in the current ARGV-element, it is returned in `optarg', otherwise `optarg' is set to zero.

If OPTSTRING starts with `-' or `+', it requests different methods of handling the non-option ARGV-elements. See the comments about RETURN_IN_ORDER and REQUIRE_ORDER, above.

Long-named options begin with `--' instead of `-'. Their names may be abbreviated as long as the abbreviation is unique or is an exact match for some defined option. If they have an argument, it follows the option name in the same ARGV-element, separated

from the option name by a '=', or else the in next ARGV-element.
When 'getopt' finds a long-named option, it returns 0 if that option's
'flag' field is nonzero, the value of the option's 'val' field
if the 'flag' field is zero.

LONGOPTS is a vector of 'struct option' terminated by an
element containing a name which is zero.

LONGIND returns the index in LONGOPT of the long-named option found.
It is only valid when a long-named option has been found by the most
recent call.

If LONG_ONLY is nonzero, '-' as well as '--' can introduce
long-named options.

If POSIXLY_CORRECT is nonzero, behave as if the POSIXLY_CORRECT
environment variable were set. */

```
int
_getopt_internal_r (int argc, char **argv, const char *optstring,
    const struct option *longopts, int *longind,
    int long_only, int posixly_correct, struct _getopt_data *d)
{
    int print_errors = d->opterr;
    if (optstring[0] == ':')
        print_errors = 0;

    if (argc < 1)
        return -1;

    d->optarg = NULL;

    if (d->optind == 0 || !d->__initialized)
    {
        if (d->optind == 0)
            d->optind = 1; /* Don't scan ARGV[0], the program name. */
        optstring = _getopt_initialize (argc, argv, optstring,
            posixly_correct, d);
        d->__initialized = 1;
    }

    /* Test whether ARGV[optind] points to a non-option argument.
       Either it does not have option syntax, or there is an environment flag
       from the shell indicating it is not an option. The later information
       is only used when the used in the GNU libc. */
    #if defined _LIBC && defined USE_NONOPTION_FLAGS
    # define NONOPTION_P (argv[d->optind][0] != '-' || argv[d->optind][1] == '\0' \
        || (d->optind < d->__nonoption_flags_len \

```



```

    && __getopt_nonoption_flags[d->optind] == '1'))
#else
# define NONOPTION_P (argv[d->optind][0] != '-' || argv[d->optind][1] == '\0')
#endif

if (d->__nextchar == NULL || *d->__nextchar == '\0')
{
    /* Advance to the next ARGV-element. */

    /* Give FIRST_NONOPT & LAST_NONOPT rational values if OPTIND has been
    moved back by the user (who may also have changed the arguments). */
    if (d->__last_nonopt > d->optind)
d->__last_nonopt = d->optind;
    if (d->__first_nonopt > d->optind)
d->__first_nonopt = d->optind;

    if (d->__ordering == PERMUTE)
{
    /* If we have just processed some options following some non-options,
    exchange them so that the options come first. */

    if (d->__first_nonopt != d->__last_nonopt
        && d->__last_nonopt != d->optind)
        exchange ((char **) argv, d);
    else if (d->__last_nonopt != d->optind)
        d->__first_nonopt = d->optind;

    /* Skip any additional non-options
    and extend the range of non-options previously skipped. */

    while (d->optind < argc && NONOPTION_P)
        d->optind++;
    d->__last_nonopt = d->optind;
}

    /* The special ARGV-element `--' means premature end of options.
    Skip it like a null option,
    then exchange with previous non-options as if it were an option,
    then skip everything else like a non-option. */

    if (d->optind != argc && !strcmp (argv[d->optind], "--"))
{
        d->optind++;

        if (d->__first_nonopt != d->__last_nonopt
            && d->__last_nonopt != d->optind)
            exchange ((char **) argv, d);
        else if (d->__first_nonopt == d->__last_nonopt)

```

```

    d->__first_nonopt = d->optind;
    d->__last_nonopt = argc;

    d->optind = argc;
}

/* If we have done all the ARGV-elements, stop the scan
and back over any non-options that we skipped and permuted. */

    if (d->optind == argc)
    {
        /* Set the next-arg-index to point at the non-options
        that we previously skipped, so the caller will digest them. */
        if (d->__first_nonopt != d->__last_nonopt)
            d->optind = d->__first_nonopt;
        return -1;
    }

/* If we have come to a non-option and did not permute it,
either stop the scan or describe it to the caller and pass it by. */

    if (NONOPTION_P)
    {
        if (d->__ordering == REQUIRE_ORDER)
            return -1;
        d->optarg = argv[d->optind++];
        return 1;
    }

/* We have found another option-ARGV-element.
Skip the initial punctuation. */

    d->__nextchar = (argv[d->optind] + 1
+ (longopts != NULL && argv[d->optind][1] == '-'));
}

/* Decode the current option-ARGV-element. */

/* Check whether the ARGV-element is a long option.

If long_only and the ARGV-element has the form "-f", where f is
a valid short option, don't consider it an abbreviated form of
a long option that starts with f. Otherwise there would be no
way to give the -f short option.

On the other hand, if there's a long option "fubar" and
the ARGV-element is "-fu", do consider that an abbreviation of
the long option, just like "--fu", and not "-f" with arg "u".

```

```

This distinction seems to be the most useful approach. */

if (longopts != NULL
    && (argv[d->optind][1] == '-'
    || (long_only && (argv[d->optind][2]
        || !strchr (optstring, argv[d->optind][1])))))
{
    char *nameend;
    const struct option *p;
    const struct option *pfound = NULL;
    int exact = 0;
    int ambig = 0;
    int indfound = -1;
    int option_index;

    for (nameend = d->__nextchar; *nameend && *nameend != '='; nameend++)
/* Do nothing. */ ;

    /* Test all long options for either exact match
or abbreviated matches. */
    for (p = longopts, option_index = 0; p->name; p++, option_index++)
if (!strncmp (p->name, d->__nextchar, nameend - d->__nextchar))
{
    if (((unsigned int) (nameend - d->__nextchar)
== (unsigned int) strlen (p->name))
        {
/* Exact match found. */
pfound = p;
indfound = option_index;
exact = 1;
break;
        }
    else if (pfound == NULL)
        {
/* First nonexact match found. */
pfound = p;
indfound = option_index;
        }
    else if (long_only
        || pfound->has_arg != p->has_arg
        || pfound->flag != p->flag
        || pfound->val != p->val)
/* Second or later nonexact match found. */
        ambig = 1;
    }

    if (ambig && !exact)

```

```

{
  if (print_errors)
  {
#if defined _LIBC && defined USE_IN_LIBIO
    char *buf;

    if (__asprintf (&buf, _("%s: option `%s' is ambiguous\n"),
        argv[0], argv[d->optind]) >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }
#else
    fprintf (stderr, _("%s: option `%s' is ambiguous\n"),
        argv[0], argv[d->optind]);
#endif
    }
    d->__nextchar += strlen (d->__nextchar);
    d->optind++;
    d->optopt = 0;
    return '?';
}

    if (pfound != NULL)
    {
        option_index = indfound;
        d->optind++;
        if (*nameend)
        {
            /* Don't test has_arg with >, because some C compilers don't
            allow it to be used on enums. */
            if (pfound->has_arg)
                d->optarg = nameend + 1;
            else
            {
                if (print_errors)
                {
#if defined _LIBC && defined USE_IN_LIBIO
                    char *buf;

```

```

    int n;
#endif

    if (argv[d->optind - 1][1] == '-')
    {
        /* --option */
#ifdef _LIBC && defined USE_IN_LIBIO
        n = __asprintf (&buf, _("\\
%s: option `--%s' doesn't allow an argument\\n"),
            argv[0], pfound->name);
#else
        fprintf (stderr, _("\\
%s: option `--%s' doesn't allow an argument\\n"),
            argv[0], pfound->name);
#endif
    }
    else
    {
        /* +option or -option */
#ifdef _LIBC && defined USE_IN_LIBIO
        n = __asprintf (&buf, _("\\
%s: option `%c%s' doesn't allow an argument\\n"),
            argv[0], argv[d->optind - 1][0],
            pfound->name);
#else
        fprintf (stderr, _("\\
%s: option `%c%s' doesn't allow an argument\\n"),
            argv[0], argv[d->optind - 1][0],
            pfound->name);
#endif
    }

#ifdef _LIBC && defined USE_IN_LIBIO
    if (n >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2
            |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }

```

```

#endif
    }

    d->__nextchar += strlen (d->__nextchar);

    d->optopt = pfound->val;
    return '?';
}
}
else if (pfound->has_arg == 1)
{
    if (d->optind < argc)
d->optarg = argv[d->optind++];
    else
    {
        if (print_errors)
        {
#ifdef defined _LIBC && defined USE_IN_LIBIO
            char *buf;

            if (__asprintf (&buf, _("`
%s: option `%'s' requires an argument\n"),
                argv[0], argv[d->optind - 1]) >= 0)
            {
                _IO_flockfile (stderr);

                int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
                ((_IO_FILE *) stderr)->_flags2
                    |= _IO_FLAGS2_NOTCANCEL;

                __fxprintf (NULL, "%s", buf);

                ((_IO_FILE *) stderr)->_flags2 = old_flags2;
                _IO_funlockfile (stderr);

                free (buf);
            }
#endif
        }
    }
}
#else
    fprintf (stderr,
        _("`
%s: option `%'s' requires an argument\n"),
        argv[0], argv[d->optind - 1]);
#endif
}
}
d->__nextchar += strlen (d->__nextchar);
d->optopt = pfound->val;
return optstring[0] == ':' ? ':' : '?';
}
}

```



```

#if defined _LIBC && defined USE_IN_LIBIO
    if (n >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }
#endif
    }
    d->__nextchar = (char *) "";
    d->optind++;
    d->optopt = 0;
    return '?';
}
}

/* Look at and handle the next short option-character. */

{
    char c = *d->__nextchar++;
    char *temp = strchr (optstring, c);

    /* Increment `optind' when we start to process its last character. */
    if (*d->__nextchar == '\0')
        ++d->optind;

    if (temp == NULL || c == ':')
    {
        if (print_errors)
        {
            #if defined _LIBC && defined USE_IN_LIBIO
                char *buf;
                int n;
            #endif

            if (d->__posixly_correct)
            {
                /* 1003.2 specifies the format of this message. */
                #if defined _LIBC && defined USE_IN_LIBIO
                    n = __asprintf (&buf, _("%s: illegal option -- %c\n"),

```



```

    argv[0], c);
#else
    fprintf (stderr, _("%s: illegal option -- %c\n"), argv[0], c);
#endif
    }
    else
    {
#if defined _LIBC && defined USE_IN_LIBIO
    n = __asprintf (&buf, _("%s: invalid option -- %c\n"),
        argv[0], c);
#else
    fprintf (stderr, _("%s: invalid option -- %c\n"), argv[0], c);
#endif
    }

#if defined _LIBC && defined USE_IN_LIBIO
    if (n >= 0)
    {
        _IO_flockfile (stderr);

        int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
        ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

        __fxprintf (NULL, "%s", buf);

        ((_IO_FILE *) stderr)->_flags2 = old_flags2;
        _IO_funlockfile (stderr);

        free (buf);
    }
#endif
    }
    d->optopt = c;
    return '?';
    }
    /* Convenience. Treat POSIX -W foo same as long option --foo */
    if (temp[0] == 'W' && temp[1] == ';')
    {
        char *nameend;
        const struct option *p;
        const struct option *pfound = NULL;
        int exact = 0;
        int ambig = 0;
        int indfound = 0;
        int option_index;

        /* This is an option that requires an argument. */
        if (*d->__nextchar != '\0')

```

```

{
    d->optarg = d->__nextchar;
    /* If we end this ARGV-element by taking the rest as an arg,
       we must advance to the next element now. */
    d->optind++;
}
else if (d->optind == argc)
{
    if (print_errors)
    {
        /* 1003.2 specifies the format of this message. */
#ifdef _LIBC && defined USE_IN_LIBIO
        char *buf;

        if (__asprintf (&buf,
            _("%s: option requires an argument -- %c\n"),
            argv[0], c) >= 0)
        {
            _IO_flockfile (stderr);

            int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
            ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

            __fxprintf (NULL, "%s", buf);

            ((_IO_FILE *) stderr)->_flags2 = old_flags2;
            _IO_funlockfile (stderr);

            free (buf);
        }
#endif
        fprintf (stderr, _("%s: option requires an argument -- %c\n"),
            argv[0], c);
    }
    #endif
    }
    d->optopt = c;
    if (optstring[0] == ':')
        c = ':';
    else
        c = '?';
    return c;
}
else
    /* We already incremented `d->optind' once;
       increment it again when taking next ARGV-elt as argument. */
    d->optarg = argv[d->optind++];

/* optarg is now the argument, see if it's in the

```

```

table of longopts. */

for (d->__nextchar = nameend = d->optarg; *nameend && *nameend != '=';
     nameend++)
/* Do nothing. */;

/* Test all long options for either exact match
   or abbreviated matches. */
for (p = longopts, option_index = 0; p->name; p++, option_index++)
if (!strcmp (p->name, d->__nextchar, nameend - d->__nextchar))
{
    if ((unsigned int) (nameend - d->__nextchar) == strlen (p->name))
    {
        /* Exact match found. */
        pfound = p;
        indfound = option_index;
        exact = 1;
        break;
    }
    else if (pfound == NULL)
    {
        /* First nonexact match found. */
        pfound = p;
        indfound = option_index;
    }
    else
        /* Second or later nonexact match found. */
        ambig = 1;
}
if (ambig && !exact)
{
    if (print_errors)
    {
#if defined _LIBC && defined USE_IN_LIBIO
char *buf;

if (__asprintf (&buf, _("%s: option `-%W %s' is ambiguous\n"),
                argv[0], argv[d->optind]) >= 0)
{
    _IO_flockfile (stderr);

    int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
    ((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

    __fxprintf (NULL, "%s", buf);

    ((_IO_FILE *) stderr)->_flags2 = old_flags2;
    _IO_funlockfile (stderr);

```

```

    free (buf);
}
#else
fprintf (stderr, _("%s: option `-%s' is ambiguous\n"),
    argv[0], argv[d->optind]);
#endif
}
d->__nextchar += strlen (d->__nextchar);
d->optind++;
return '?';
}
if (pfound != NULL)
{
    option_index = indfound;
    if (*nameend)
    {
        /* Don't test has_arg with >, because some C compilers don't
        allow it to be used on enums. */
        if (pfound->has_arg)
            d->optarg = nameend + 1;
        else
        {
            if (print_errors)
            {
#endif defined _LIBC && defined USE_IN_LIBIO
                char *buf;

                if (__asprintf (&buf, _("\
%s: option `-%s' doesn't allow an argument\n"),
                    argv[0], pfound->name) >= 0)
                {
                    _IO_flockfile (stderr);

                    int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
                    ((_IO_FILE *) stderr)->_flags2
                        |= _IO_FLAGS2_NOTCANCEL;

                    __fxprintf (NULL, "%s", buf);

                    ((_IO_FILE *) stderr)->_flags2 = old_flags2;
                    _IO_funlockfile (stderr);

                    free (buf);
                }
            }
#endif
        }
    }
}
#else
fprintf (stderr, _("\
%s: option `-%s' doesn't allow an argument\n"),

```

```

    argv[0], pfound->name);
#endif
    }

    d->__nextchar += strlen (d->__nextchar);
    return '?';
}
}
else if (pfound->has_arg == 1)
{
if (d->optind < argc)
    d->optarg = argv[d->optind++];
else
{
    if (print_errors)
    {
#ifdef _LIBC && defined USE_IN_LIBIO
        char *buf;

        if (__asprintf (&buf, _("
%s: option `%'s' requires an argument\n"),
            argv[0], argv[d->optind - 1]) >= 0)
        {
            _IO_flockfile (stderr);

            int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
            ((_IO_FILE *) stderr)->_flags2
                |= _IO_FLAGS2_NOTCANCEL;

            __fxprintf (NULL, "%s", buf);

            ((_IO_FILE *) stderr)->_flags2 = old_flags2;
            _IO_funlockfile (stderr);

            free (buf);
        }
#endif
    }
}
else
    fprintf (stderr,
        _("%s: option `%'s' requires an argument\n"),
        argv[0], argv[d->optind - 1]);
#endif
}
d->__nextchar += strlen (d->__nextchar);
return optstring[0] == ':' ? ':' : '?';
}
}
d->__nextchar += strlen (d->__nextchar);
if (longind != NULL)

```

```

    *longind = option_index;
    if (pfound->flag)
    {
*(pfound->flag) = pfound->val;
return 0;
    }
    return pfound->val;
}
d->__nextchar = NULL;
return 'W'; /* Let the application handle it. */
}
if (temp[1] == ':')
{
if (temp[2] == ':')
{
/* This is an option that accepts an argument optionally. */
if (*d->__nextchar != '\0')
{
d->optarg = d->__nextchar;
d->optind++;
}
else
d->optarg = NULL;
d->__nextchar = NULL;
}
else
{
/* This is an option that requires an argument. */
if (*d->__nextchar != '\0')
{
d->optarg = d->__nextchar;
/* If we end this ARGV-element by taking the rest as an arg,
we must advance to the next element now. */
d->optind++;
}
else if (d->optind == argc)
{
if (print_errors)
{
/* 1003.2 specifies the format of this message. */
#if defined _LIBC && defined USE_IN_LIBIO
char *buf;

if (__asprintf (&buf, _("
%s: option requires an argument -- %c\n"),
argv[0], c) >= 0)
{
_IO_flockfile (stderr);

```

```

int old_flags2 = ((_IO_FILE *) stderr)->_flags2;
((_IO_FILE *) stderr)->_flags2 |= _IO_FLAGS2_NOTCANCEL;

__fxprintf (NULL, "%s", buf);

((_IO_FILE *) stderr)->_flags2 = old_flags2;
_IO_funlockfile (stderr);

free (buf);
}
#else
fprintf (stderr,
_("%s: option requires an argument -- %c\n"),
argv[0], c);
#endif
}
d->optopt = c;
if (optstring[0] == ':')
c = ':';
else
c = '?';
}
else
/* We already incremented `optind' once;
increment it again when taking next ARGV-elt as argument. */
d->optarg = argv[d->optind++];
d->__nextchar = NULL;
}
}
return c;
}
}

int
_getopt_internal (int argc, char **argv, const char *optstring,
const struct option *longopts, int *longind,
int long_only, int posixly_correct)
{
int result;

getopt_data.optind = optind;
getopt_data.opterr = opterr;

result = _getopt_internal_r (argc, argv, optstring, longopts, longind,
long_only, posixly_correct, &getopt_data);

optind = getopt_data.optind;

```

```

optarg = getopt_data.optarg;
optopt = getopt_data.optopt;

return result;
}

/* glibc gets a LSB-compliant getopt.
   Standalone applications get a POSIX-compliant getopt. */
#if _LIBC
enum { POSIXLY_CORRECT = 0 };
#else
enum { POSIXLY_CORRECT = 1 };
#endif

int
getopt (int argc, char *const *argv, const char *optstring)
{
return _getopt_internal (argc, (char **) argv, optstring, NULL, NULL, 0,
    POSIXLY_CORRECT);
}

#ifdef TEST

/* Compile with -DTEST to make an executable for use in testing
   the above definition of `getopt'. */

int
main (int argc, char **argv)
{
int c;
int digit_optind = 0;

while (1)
{
int this_option_optind = optind ? optind : 1;

c = getopt (argc, argv, "abc:d:0123456789");
if (c == -1)
break;

switch (c)
{
case '0':
case '1':
case '2':
case '3':
case '4':

```



```

case '5':
case '6':
case '7':
case '8':
case '9':
    if (digit_optind != 0 && digit_optind != this_option_optind)
        printf ("digits occur in two different argv-elements.\n");
    digit_optind = this_option_optind;
    printf ("option %c\n", c);
    break;

case 'a':
    printf ("option a\n");
    break;

case 'b':
    printf ("option b\n");
    break;

case 'c':
    printf ("option c with value ` %s\n", optarg);
    break;

case '?':
    break;

default:
    printf ("?? getopt returned character code 0%o ??\n", c);
}
}

if (optind < argc)
{
    printf ("non-option ARGV-elements: ");
    while (optind < argc)
        printf ("%s ", argv[optind++]);
    printf ("\n");
}

exit (0);
}

```

#endif /* TEST */

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Version 2.1, February 1999

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=====

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1.231 yajl 1.0.9 :9c15d72751

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1.232 zlib 1.2.8

:275786e451dc0f98d321ff4c9ad8f79c

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

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1.233 zlib/contrib-ada 1.2.8

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1.234 zlib/DotZLib 1.2.8

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