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VGW10_for_Infinite_Home_rdk2.1-2018q1 V1.0

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1.3 attr 2.4.47

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1.7 bash-completion 2.1 :r0

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

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

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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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How to Apply These Terms to Your New Programs

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

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 2 of the License, or
(at your option) any later version.

This program 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 General Public License for more details.

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

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

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

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

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

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

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

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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Lesser General
Public License instead of this License.
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=20
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =20
a=20
library to dictact to application writes what license they should be using.=20
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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

> 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.

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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.

> unlike the old license, GPL-2 prevents people from using cracklib
> 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...
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,
Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@...> - 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?
> > 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.

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

Happy now? :-)

Open Source Used In VGW10_for_Infinite_Home_rdk2.1-2018q1 V1.0
200
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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL.  It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link 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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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control
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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   You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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

   a) The modified work must itself be a software library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you
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1.18 curl 7.51.0

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=============

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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 reimplementation from the curve25519 paper. It
* uses many of the tricks described therein. Only the crecip function is taken
* from the sample implementation.
*/

This package was debianized by Grahame Bowland <grahame.angrygoats.net> on
Tue, 17 Jun 2003 15:04:47 +0800, maintained temporarily by Matt Johnston
<matt@ucc.asn.au>, and was adopted by Gerrit Pape <pape@smarden.org> on
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 * Public include file for the UUID library
 *
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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 */
#if defined __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
#ifndef __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);

#endif /* _UUID_UUID_H */
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PV: 1.42.99+1.43+gitAUTOINC+0f26747167
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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 bcc ccc cdd ddd d?? ??? ??? */
    p = buf;
    num >>= ERRCODE_RANGE;
    /* num = ?? ??? ??? aaa aaa bbb bbb ccc ccc ddd ddd */
    num &= 0777777777L;
    /* 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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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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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
 -
 - Copyright (C) Andrew Tridgell 2005
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 ** NOTE! The following LGPL license applies to the tdb
 ** library. This does NOT imply that all of Samba is released
 #
 # This is 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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1.31 elfutils 0.148

1.31.1 Available under license:

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1.38 flac 1.3.1

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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.

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.

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.

Porting Guide
* Starting with FLAC 1.1.3 a \link porting Porting Guide \endlink
* has been introduced which gives detailed instructions on how to
* port your code to newer versions of FLAC.
*
* \section embedded_developers 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 \link flac_format Format \endlink 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
  * \c 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.
*/

/** \defgroup porting 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 \c #defines in \c export.h of each
 * library's includes (e.g. \c include/FLAC/export.h). The
 * \c #defines mirror the libraries'
 * 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_SUPPORTED_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 
 * 
 * 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__SeekableStreamEncoder has been merged 
 * into FLAC__SeekableStreamDecoder, and FLAC__FileDecoder and 
 * FLAC__FileEncoder into FLAC__StreamEncoder. Only the 
 * FLAC__StreamEncoder 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__StreamEncoder. 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_SStreamDecoder *decoder = FLAC_Sseekable_stream_decoder_new();
if(decoder == NULL) do_something;
FLAC_Sseekable_stream_decoder_set_md5_checking(decoder, true);
[... other settings ...]
FLAC_Sseekable_stream_decoder_set_read_callback(decoder, my_read_callback);
FLAC_Sseekable_stream_decoder_set_seek_callback(decoder, my_seek_callback);
FLAC_Sseekable_stream_decoder_set_tell_callback(decoder, my_tell_callback);
FLAC_Sseekable_stream_decoder_set_length_callback(decoder, my_length_callback);
FLAC_Sseekable_stream_decoder_set_eof_callback(decoder, my_eof_callback);
FLAC_Sseekable_stream_decoder_set_write_callback(decoder, my_write_callback);
FLAC_Sseekable_stream_decoder_set_metadata_callback(decoder, my_metadata_callback);
FLAC_Sseekable_stream_decoder_set_error_callback(decoder, my_error_callback);
FLAC_Sseekable_stream_decoder_set_client_data(decoder, my_client_data);
if(FLAC_Sseekable_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;
*
* `endcode
* [...]
* 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:
*
* `endcode
* [...]
* 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
* `endcode


* drops sync and calls the error callback with a new error code
* \c 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 \a bytes parameter to FLAC__StreamDecoderReadCallback,
* FLAC__StreamEncoderReadCallback, and FLAC__StreamEncoderWriteCallback
* is now \c size_t instead of \c unsigned.
*/

/** 
defgroup porting_1_1_3_to_1_1_4 Porting from FLAC 1.1.3 to 1.1.4
 * 
 * \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 \a 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
 * 
 * \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, \c FLAC__format_sample_rate_is_subset() was added.
 * In libFLAC++, \c FLAC::Decoder::Stream::get_decode_position() was added.
 *
 * Finally, value of the constant \c FLAC__FRAME_HEADER_RESERVED_LEN
 * has changed to reflect the conversion of one of the reserved bits
 * into active use. It used to be \c 2 and now is \c 1. However the
 * FLAC frame header length has not changed, so to skip the proper
 * number of bits, use \c FLAC__FRAME_HEADER_RESERVED_LEN +
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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 \
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1.44 gawk 3.1.5
:7419585306aebf5b6ddff7edda31149a
1.44.1 Available under license :

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.
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1.45 gdbm 1.8.3

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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

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any
other libraries whose authors decide to use it. You can use it for
your libraries, too.

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

To protect your rights, we need to 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.

Our method of protecting your rights has two steps: (1) copyright
the library, and (2) offer you this license which gives you legal
permission to copy, distribute and/or modify the library.
Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

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

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

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

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

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

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

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

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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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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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modify it under the terms of the GNU Library General Public
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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

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the version number 2.1.]

Preamble

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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.

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not price. Our General Public Licenses are designed to make sure that
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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.

^L

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

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

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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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 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.

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

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

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Version 2, June 1991

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Ty Coon, President of Vice

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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 documentation.
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1.49 glib-2.0 2.46.2
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 */

/*
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 * file for a list of people on the GLib Team. See the ChangeLog
 * files for a list of changes. These files are distributed with
 */

#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/ghook.h>
#include <glib/gnomeutils.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

#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)
  #ifdef PCRE_EXP_DECL
    # define PCRE_EXP_DECL __declspec(dllexport)
  # endif
  #ifdef __cplusplus
    #ifndef PCRECPP_EXP_DECL
      #define PCRECPP_EXP_DECL __declspec(dllexport)
    # endif
    #ifndef PCRECPP_EXP_DEFN
      #define PCRECPP_EXP_DEFN __declspec(dllexport)
    # 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

#ifndef PCRECPP_EXP_DECL
    #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 */
#ifndef __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_OPMISCE 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 */
```c
#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_HASCRORLF 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
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() */
  void *executable_jit;           /* Contains a pointer to a compiled jit code */
} pcre_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          subject;           /* The subject being matched */
  int          subject_length;    /* The length of the subject */
  int          pattern_position;  /* Offset to next item in the pattern */
  int          next_item_length;  /* Length of next item in the pattern */
  /* ------------------- Added for Version 1 -------------------------- */
  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 */
  int          pattern_position;  /* Offset to next item in the pattern */
  int          next_item_length;  /* Length of next item in the pattern */
} pcre_callout_block;
/* ------------------- Added for Version 2 -------------------------- */
const unsigned char *mark;  /* Pointer to current mark or NULL  */
/* ------------------- Added for Version 2 -------------------------- */
}
pcre_callout_block;

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

typedef struct pcre16_callout_block {
  int          version;           /* Identifies version of block */
  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. */

#ifndef 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 *);
#endif
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_EXPDECL 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_EXPDECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
                                   int *, const unsigned char *);
PCRE_EXP_DECL int  pcre_config(int, void *);
PCRE_EXPDECL int  pcre16_config(int, void *);
PCRE_EXP_DECL int  pcre_copy_named_substring(const pcre *, const char *,
                                               int *, int, const char *, char *, int);
PCRE_EXPDECL 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);
PCRE_EXP_DECL int  pcre16_exec(const pcre16 *, const pcre16_extra *, PCRE_SPTR16,
                                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 *, int *, char **, char **);
PCRE_EXP_DECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16, int *, char **, char **);
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, 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_stack *);
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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End

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

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or
link a "work that uses the Library" with the Library to produce a
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directing the user to the copy of this License. Also, you must do one
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
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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
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b) Accompany the work with a written offer, valid for at
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c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

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

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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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"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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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
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4. You may copy and distribute the Library (or a portion or
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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
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work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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##
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<one line to give the program's name and a brief idea of what it does.>
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1.53 gobject-introspection 1.46.0

1.53.1 Available under license :

LICENSE: LGPLv2+ & GPLv2+
PR: r0
PV: 1.46.0
/* -*- mode: C; c-file-style: "gnu"; indent-tabs-mode: nil; -*-
 * GObject introspection: Registered Type implementation
 *
 * Copyright (C) 2005 Matthias Clasen
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 *
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 * License along with this library; if not, write to the
 * Free Software Foundation, Inc., 59 Temple Place - Suite 330,
 * Boston, MA 02111-1307, USA.
 */

#include "config.h"

#include <string.h>

#include <glib.h>

#include <girepository.h>
#include "girepository-private.h"
#include "gitypelib-internal.h"
GIRegisteredTypeInfo represents an entity with a GType associated. Could be either a #GIEnumInfo, #GIInterfaceInfo, #GIOBJECTINFO 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.

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/*
 * GIRegisteredTypeInfo represents an entity with a GType associated. Could be either a #GIEnumInfo, #GIInterfaceInfo, #GIOBJECTINFO 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_typelib_get_string (rinfo->typelib, blob->gtype_name);

return NULL;
}

/**
 * g_registered_type_info_get_type_init:
 * @info: a #GIRegisteredTypeInfo
 *
 * 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 langauge 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 (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_init)
    return g_typelib_get_string (rinfo->typelib, blob->gtype_init);

return NULL;
}

/**
 * g_registered_type_info_get_g_type:
 * @info: a #GIRegisteredTypeInfo
 *
 * 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 (GIRegisteredTypeInfo *info)
{
const char *type_init;
GType (* get_type_func) (void);
GITrivialInfo *info = (GITrivialInfo*)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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[This is the first released version of the library GPL.  It is
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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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These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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

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

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

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

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

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

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

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(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.

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

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

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

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

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

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

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

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

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[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

The licenses for most software are designed to take away your
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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.

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

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

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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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"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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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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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.

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1.59 gst-plugins-rdk-dvr rdkv-2018q1
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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.
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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.

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

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

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

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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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!

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

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

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

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

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

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

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

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it 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
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modification of the work for the customer's own use and reverse
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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
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d) Verify that the user has already received a copy of these
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Appendix: How to Apply These Terms to Your New Libraries

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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!

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/">
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
</para>

<itemizedlist>
<li><para>GStreamer, the LGPL library</para></li>
<li><para>MyPlayer, a GPL playback application</para></li>
<li><para>The binary-only Sorenson decoder</para></li>
</itemizedlist>
<para>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>

</qandaset>
<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>
  <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>
  <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>
  </answer>
</qandaentry>
Yes, he can.
No, there are no criminal penalties for patent infringement in the US.

<answer>
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.

<answer>
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>
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>
<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>
</qandaentry>
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.

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.

1.63 gstreamer1.0-wpe-plugins-bad 1.10.4

1.63.1 Available under license:
GNU LIBRARY GENERAL PUBLIC LICENSE

Version 2, June 1991

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

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

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

To protect your rights, we need to 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.

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

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

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.
Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

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

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

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
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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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 an idea of what it does.

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modify it under the terms of the GNU Library General Public
License as published by the Free Software Foundation; either
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This library is distributed in the hope that it will be useful,
but WITHOUT ANY WARRANTY; without even the implied warranty of
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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., 51 Franklin St, Fifth Floor,
Boston, MA 02110-1301, 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!

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Version 2.1, February 1999

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[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.
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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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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.

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly
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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
changing the library, is in some sense simply using the library, and is
analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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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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* "gain_analysis.c" from vorbisgain version 0.34.
*/

/* Room for future improvement: Mono data is currently in fact copied
/* Helpful information for understanding this code: The two IIR
* filters depend on previous input _and_ previous output samples (up
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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,
GSTATE_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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1.69 gupnp-av 0.12.6
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PV: rdkv-2018q1+gitrdkv-2018q1

1.78 icu 56.1

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```bash
## -*-makefile-*-  
## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)  
## Copyright (c) 1999-2013, International Business Machines Corporation and  
## others. All Rights Reserved.
```
## Commands to generate dependency files

```bash
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

## Flags for position independent code

```bash
SHAREDLIBCFLAGS = -fPIC
SHAREDLIBCXXFLAGS = -fPIC
SHAREDLIBCPPFLAGS = -DPIC
```

## Additional flags when building libraries and with threads

```bash
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

## Compiler switch to embed a runtime search path

```bash
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
```

## Compiler switch to embed a library name

```bash
LD_SONAME = -Wl,-soname -Wl,$(notdir $(MIDDLE_SO_TARGET))
```

## Shared library options

```bash
LD_SOOPTIONS= -Wl,-Bsymbolic
```

## Shared object suffix

```bash
SO = so
```

## Non-shared intermediate object suffix

```bash
STATIC_O = ao
```

## Compilation rules

```bash
%.$(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

```bash
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed \"s/(\$*)\\.o[:]*\\.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"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta http-equiv="Content-Type" content="text/html;charset=UTF-8">
<title>ICU License - ICU 1.8.1 and later</title>
</head>

<body BGColor="#ffffff">
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1.86 jsoncpp 0.6.0-rc2
:22bcfd69bc3ee67473ee96535d5af581

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# 0 leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x%d

# PC Screen (console) Fonts - psf2 header

# 0 lelong 0x864ab572 psf2 screen font data
>12 lelong&1 with Unicode index
>16 lelong x8b, %d glyphs
>28 lelong x8b, %dx
>24 lelong x8b %d
1.88 kmod 22 :42f32b8ae4

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man/explicit_bzero.3
man/fgetln.3
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src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
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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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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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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.

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:

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Ty Coon, President of Vice

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

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

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

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

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

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

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

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.

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

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

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MNGPLG
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By Jason Summers <jason1@pobox.com>
Web site: <http://pobox.com/~jason1/mngplg/>

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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 lLiboil 0.3.17**

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 */
```

```c
#define 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];
```
```c
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");
}

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);
    #endif
}
```
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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.

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

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

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

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

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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.

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

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

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

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

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

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

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

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

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

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with the Library, with the complete machine-readable "work that
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copy of the library already present on the user's computer system,
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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
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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

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

Otherwise, if the work is a derivative of the Library, you may
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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 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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1.121 libtheora 1.1.1

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1.122 libtool 2.4.6

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@c Local Variables:
c ispell-local-pdict: "ispell-dict"
c End:
1.123 libupnp 1.6.19 :2013-11-14 Marcelo Roberto Jimenez

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1.124 libusb-compat 0.1.5

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1.126 libvorbis 1.3.5
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1.127 libvpx 1.5.0

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1.130 libxkbcommon 0.5.0

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1.131 Libxml2 2.9.4
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/*
 * hash.c: chained hash tables
 *
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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
*/
#if defined(HAVE_RAND) && defined(HAVE_SRAND) && defined(HAVE_TIME)
define HASHRANDOMIZATION
#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));
        }
    }
    return value;
}


```c
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) + (unsigned long)':');
    #endif
    return value;
}
```

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 occured.
 *
 * @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);

    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 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;
            }
            iter = next;
        }
    }
```c
#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.
 *
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:

find the userdata specified by the QNames tuple
* Returns the pointer to the userdata
*/
void *
xmHashQLookup2(xmlHashTablePtr table, const xmlChar *prefix, const xmlChar *name, const xmlChar *prefix2, const xmlChar *name2) {
    return(xmHashQLookup3(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
xmHashAddEntry3(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) && (name2 != 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.
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)) {

    */
    * Returns 0 the addition succeeded and -1 in case of error.
    */
    return(0);
}
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 *
xmHashLookup3(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);
        }
    }
    return(NULL);
}
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 *
xmHashQLookup3(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.
 */
xmHashTablePtr
xmlHashCopy(xmHashTablePtr table, xmHashCopier f) {
  int i;
  xmHashEntryPtr iter;
  xmHashEntryPtr next;
  xmHashTablePtr ret;

  if (table == NULL)
    return(NULL);
  if (f == NULL)
    return(NULL);
  ret = xmHashCreate(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, 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"
Except where otherwise noted in the source code (e.g. the files hash.c, list.c and the trio files, which are covered by a similar licence but with different Copyright notices) all the files are:

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1.141 mpg123 1.22.4

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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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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.4 2016/01/02 20:24:37 tom Exp $
Upstream source http://invisible-island.net/ncurses/ncurses-examples.html

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

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

Files: *
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Files: progs/tset.c ncurses/tinfo/read_termcap.c
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-- vile: txtmode file-encoding=utf-8

1.144 nemo-qml-plugin-dbus 2.0.7
:c4d98477aa
1.144.1 Available under license :

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#ifndef DECLARATIVEBUSINTERFACE_H
#define DECLARATIVEBUSINTERFACE_H

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

#include "declarativebus.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_INVOKABLE void qDebugLog(const QString &msg)

    DeclarativeDBus::DBusInterface *dbi;
    DeclarativeDBus::DBusBusType busType;
    DeclarativeDBus::DBusInterface::SignalsEnabled signalsEnabled;

    DeclarativeDBus::DBusInterface *createDBusInterface()
;

private:

    DeclarativeDBus::DBusInterface *createDBusInterfaceInternal()
;

    void qDebugLogInternal(const QString &msg)
;

    bool qDebugLogInternal(const QString &msg, QDBusMessage::MessageSignature sig)
;

};
#endif // DECLARATIVEBUSINTERFACE_H
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 QDBusMessage &message);

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_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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### 1.147 netbase 5.3

#### 1.147.1 Available under license:

This package was created by Peter Tobias tobias@et-inf.fho-emden.de on Wed, 24 Aug 1994 21:33:28 +0200 and maintained by Anthony Towns <ajt@debian.org> until 2001. 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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not, see http://www.gnu.org/licenses/.
*/

/* This file is derived from cipher/serpent.c in Libgcrypt 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
libgcrypt with nettle in the license template, renaming
serpent_context to serpent_ctx, renaming u32 to uint32_t, removing
libgcrypt 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;
#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; \
  } while (0)
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; \ 
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; \n y2 ^= x0; \n} 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; \n        y3 = x2 ^ y1; \n        y0 = x1 & y3; \n        y2 = x0 ^ x3; \n        x3 ^= x1; \n        y0 ^= y2; \n        x2 &= x0; \n        x0 &= y0; \n        x2 |= x1; \n        y1 ^= y0; \n        y1 ^= x2; \n        y2 = y0 | y1; \n        y2 ^= y3; \n        y2 ^= x3; \n        x1 = ~ x1; \n        x1 |= x0; \n        y3 ^= x1; \n    } 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);

}/* 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 Libgcrypt 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 Libgcrypt with nettle in the license template, renaming serpent_context to serpent_ctx, renaming u32 to uint32_t, removing Libgcrypt 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 Serpent's
 reference implementation (the optimized one, contained in
 'floppy2') and are therefore:

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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; \  
} \n
\[ x = t_{12} \oplus t_{17}; \]
} 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 \oplus d ;
    t03 = ~ b ;
    t04 = a \oplus c ;
    t05 = a | t03;
    t06 = d & t04;
    t07 = t01 & t02;
    t08 = b | t06;
    y = t02 \oplus t05;
    t10 = t07 \oplus t08;
    t11 = t01 \oplus t10;
    t12 = y \oplus t11;
    t13 = b & d ;
    z = ~ t10;
    x = t13 \oplus t12;
    t16 = t10 | x ;
    t17 = t05 & t16;
    w = c \oplus t17;
} while (0)

#define SBOX2(type, a, b, c, d, w, x, y, z) do {
    type t02, t03, t04, t05, t06, t07, t08;
    type t09, t10, t12, t13, t14, t01;
    t01 = a | c ;
    t02 = a \oplus b ;
    t03 = d \oplus t01;
    w = t02 \oplus t03;
    t05 = c \oplus w ;
    t06 = b \oplus t05;
    t07 = b | t05;
    t08 = t01 & t06;
    t09 = t03 \oplus t07;
    t10 = t02 | t09;
    x = t10 \oplus t08;
    t12 = a | d ;
    t13 = t09 \oplus x ;
    t14 = b \oplus t13;
    z = ~ t09;
    y = t12 \oplus 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; 
}
#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)+3)&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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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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1.155 pciutils 3.4.1

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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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ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBMB_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
ext/PerlIO-via/*
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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 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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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)
or init_by_array(init_key, key_length).

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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

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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

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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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----

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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.

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1.165 python-dbus 1.2.0
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PV: 19.4
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"""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.
src_root = None
from distutils.util import convert_path
# Allow to run setup.py from another directory.
src_root = os.path.abspath(__file__)
from setuptools.command import __init__.py
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:checkExtras",
    "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
1.169.1 Available under license :

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not be less than the measures taken by such party to protect its own confidential and proprietary information.

“Confidential Information” shall not include information that (a) is or becomes generally known to the public through no act or omission of the Receiving Party; (b) was in the Receiving Party's lawful possession prior to the disclosure hereunder and was not subject to limitations on disclosure or use; (c) is developed by the Receiving Party without access to the Confidential Information of the Disclosing Party or by persons who have not had access to the Confidential Information of the Disclosing Party as proven by the written records of the Receiving Party; (d) is lawfully disclosed to the Receiving Party without restrictions, by a third party not under an obligation of confidentiality; or (e) the Receiving Party is legally compelled to disclose the information, in which case the Receiving Party shall assert the privileged and confidential nature of the information and cooperate fully with the Disclosing Party to protect against and prevent disclosure of any Confidential Information and to limit the scope of disclosure and the dissemination of disclosed Confidential Information by all legally available means.

The obligations of the Receiving Party under this Section shall continue during the Initial Term and for a period of five (5) years after expiration or termination of this Agreement. To the extent that the terms of the Non-Disclosure Agreement between Digia and Licensee conflict with the terms of this Section 9, this Section 9 shall be controlling over the terms of the Non-Disclosure Agreement.

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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.

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

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

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Version 3, 29 June 2007

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

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

The precise terms and conditions for copying, distribution and 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.

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

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

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

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

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

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

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.

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

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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1.184 requests_packages 2.5.1 : (2014-12-23)
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Version 2.1, February 1999

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

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

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SVN_REVISION=129573
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 * 
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
 * 
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 * 
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 * 
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155; see init_nicstar() for PHY initialization to change this. This driver expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
 * 
 * Implementing minimal-copy of received data:
 * IDT always receives data into a small buffer, then large buffers as needed. This means that data must always be copied to create the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
 * Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer.
 * Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:
 * 1) skb->destructor / skb->atm.recycle_buffer combined, allow nicstar_free_rx_skb to be called to recycle large data buffers
 * 2) skb_clone of received buffers
 * See nicstar_free_rx_skb and linearize_buffer for implementation details.
 * 
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*
* M. Welsh, 6 July 1996
*
*
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 || strcmp(license, "GPL v2") == 0
 || strcmp(license, "GPL and additional rights") == 0
 || strcmp(license, "Dual BSD/GPL") == 0
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*/

#include <config.h>

#if defined(HAVE_GETCWD)

# include <sys/types.h>
# include <sys/stat.h>

#include <errno.h>
#include <stdio.h>
#include <stdlib.h>
#if defined(HAVE_STRING_H)
#include <string.h>
#else
#endif /* HAVE_STRING_H */
#if defined(HAVE_STRINGS_H)
#include <strings.h>
#else
#endif /* HAVE_STRINGS_H */
#include <unistd.h>
#include <dirent.h>
#include <stdio.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(upsize = 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;
    }
    if (!ptsz) {
        errno = ERANGE;
        goto err;
    }
}
off = bpt - pt;
len = ept - bpt;
if ((npt = reallocarray(pt, ptsize, 2)) == NULL)
goto err;
ptsize *= 2;
pt = npt;
bpt = pt + off;
ept = pt + ptsize;
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 (pts)
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_QUOTE0x8000
#define M_PROTECT0x4000
#define M_MASK0xffff
#define M_ASCII0x00ff

typedef unsigned short Char;

#else

#define M_QUOTE0x80
#define M_PROTECT0x40
#define M_MASK0xff
#define M_ASCII0x7f

typedef char Char;

#endif

#define CHAR(c)((Char)((c)&M_ASCII))
#define META(c)((Char)((c)|M_QUOTE))
#define M_ALLMETA('*')
#define M_ENDMETA(']')
#define M_NOTMETA('!')
#define M_ONEMETA('?')
#define M_RNGMETA('-')
#define M_SETMETA('[')
#define M_CLASSMETA(':')
#define ismeta(c)(((c)&M_QUOTE) != 0)
```c
#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 *, 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 *);
#if defined 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_limit limit = { 0, 0, 0 };

  patnext = (unsigned char *) pattern;
  if (!(flags & GLOB_APPEND)) {
    pglob->gl_pathc = 0;
    pglob->gl_pathv = NULL;
  }
  for (; *patnext; patnext++) {
```
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;
            } else
                *bufnext++ = c;
        } 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 */
    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 != RBRACKET && *pe != EOS; 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;
    }
}
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_strcmp(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_charclass(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++;
doi {c == LBRACKET && *qpatnext == ':') {
doi {
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;
#endif 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, restpattern, restpattern_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 1;
}
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*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].iscctype(k))
                    ok = 1;
            } else if (c == 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;
        break;
    default:
        if (*name++ != c)
            goto fail;
        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)
{

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char buf[PATH_MAX];

if (g_Ctoc(\(fn, \)buf, sizeof(buf)))
    return -1;
return lstat(buf, sb);
}

static int
\(g\_stat(\*fn, \text{struct } \*sb, \text{glob}_t \*pglob)\)
{
    char buf[PATH_MAX];

    if (g_Ctoc(\(fn, \)buf, sizeof(buf)))
        return -1;
    return stat(buf, sb);
}

static Char *
\(g\_strchr(\*str, \text{int } \text{ch})\)
{
    do {
        if (*str == ch)
            return (Char *)str;
    } while (*str++);
    return NULL;
}

static int
\(g\_Ctoc(\*str, \text{char } \*buf, \text{unsigned } \text{int } \text{len})\)
{

    while (len--)
        if ((*buf++ = *str++) == EOS)
            return 0;
    return 1;
}

#ifdef DEBUG
static void
\(qprintf(\*str, \*s)\)
{
    Char *p;

    (void)printf("%s:\n", str);
    for (p = s; *p; p++)
        (void)printf("%c", CHAR(*p));
    (void)printf("\n");
}
#endif
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.h8.5 (Berkeley) 8/20/94
* $FreeBSD: head/sys/sys/queue.h 251887 2013-06-18 02:57:56Z lstewart $
*/

#ifndef 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.
*
* *SLISTLISTSTAILQTAILQ
  * _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_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(elem)
#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(type)
struct {
  struct type *slh_first; /* first element */
}
/*

#define SLIST_EMPTY(head) ((head)->slh_first == NULL)

#define SLIST_FIRST(head) ((head)->slh_first)

#define SLIST_FOREACH(var, head, field)
for ((var) = SLIST_FIRST((head));
     (var);
     (var) = SLIST_NEXT((var), field))

#define SLIST_FOREACH_FROM(var, head, field)
for ((var) = ((var) ? (var) : SLIST_FIRST((head)));
     (var);
     (var) = SLIST_NEXT((var), field))

#define SLIST_FOREACH_SAFE(var, head, field, tvar)
for ((var) = SLIST_FIRST((head));
     (var) && ((tvar) = SLIST_NEXT((var), field), 1);
     (var) = (tvar))

#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))

#define SLIST_FOREACH_PREVPTR(var, varp, head, field)
for ((varp) = &SLIST_FIRST((head));
     ((var) = *(varp)) != NULL;
     (varp) = &SLIST_NEXT((var), field))

#define SLIST_INIT(head) do {
    SLIST_FIRST((head)) = NULL;
} while (0)

#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 STAILQ_HEAD(name, type)\
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);\}
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); 
  (elm)->field.le_prev = &LIST_NEXT((listelm), field); 
} while (0)

#undef LIST_INSERT_BEFORE
#define LIST_INSERT_BEFORE(listelm, elm, field) do { 
  *(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))
#define TAILQ_FOREACH_REVERSE_FROM_SAFE(var, head, headname, field, tvar) \
for ((var) = ((var) ? (var) : TAILQ_LAST((head), headname));	\n(var) && ((tvar) = TAILQ_PREV((var), headname, field), 1);	\n(var) = (tvar))

#undef TAILQ_INIT
#define TAILQ_INIT(head) do {						\nTAILQ_FIRST((head)) = NULL;					\n(head)->tqh_last = &TAILQ_FIRST((head));			\nQMD_TRACE_HEAD(head);			} while (0)

#undef TAILQ_INSERT_AFTER
#define TAILQ_INSERT_AFTER(head, listelm, elm, field) do {		\nif ((TAILQ_NEXT((elm), field) = TAILQ_NEXT((listelm), field)) != NULL)\nTAILQ_NEXT((elm), field)->field.tqe_prev = \
 &TAILQ_NEXT((elm), field);	\nelse {\n (head)->tqh_last = &TAILQ_NEXT((elm), field);	\nQMD_TRACE_HEAD(head);		} \n\nTAILQ_NEXT((listelm), field) = (elm);	\n(elm)->field.tqe_prev = &TAILQ_NEXT((listelm), field);	\nQMD_TRACE_ELEM(&(elm)->field);	\nQMD_TRACE_ELEM(&listelm->field);	} while (0)

#undef TAILQ_INSERT_BEFORE
#define TAILQ_INSERT_BEFORE(listelm, elm, field) do {		\n(elm)->field.tqe_prev = (listelm)->field.tqe_prev;	\nTAILQ_NEXT((elm), field) = (listelm);	\n*(listelm)->field.tqe_prev = (elm);	\n(listelm)->field.tqe_prev = &TAILQ_NEXT((elm), field);	\nQMD_TRACE_ELEM(&elm)->field);	\nQMD_TRACE_ELEM(&listelm->field);	} while (0)

#undef TAILQ_INSERT_HEAD
#define TAILQ_INSERT_HEAD(head, elm, field) do {	\nif ((TAILQ_NEXT((elm), field) = TAILQ_FIRST((head))) != NULL)\nTAILQ_FIRST((head))->field.tqe_prev =\n &TAILQ_NEXT((elm), field);\nelse\n (head)->tqh_last = &TAILQ_NEXT((elm), field);\nTAILQ_FIRST((head)) = (elm);\n(elm)->field.tqe_prev = &TAILQ_FIRST((head));\nQMD_TRACE_HEAD(head);\nQMD_TRACE_ELEM(&elm->field);

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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;
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 */
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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>

#endif HAVE_FNMATCH

#include <sys/types.h>

#include <stdio.h>
#include <ctype.h>

#ifdef HAVE_STRING_H
#include <string.h>
#ifdef HAVE_STRING_H
#include <strings.h>
#endif /* HAVE_STRING_H */

#include "sudo_compat.h"
#include "compat/charclass.h"
#include "compat/fnmatch.h"

#ifdef HAVE_STRINGS_H
#include <strings.h>
#endif /* HAVE_STRINGS_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 FN_PATHNAME '/' delimiters are not advanced over, * however the '"' sequence is advanced to '/'. * */
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 == '"') {
                ++*pattern;
                /* XXX: Fix for MBCS character width */
                ++*string;
                return (result ^ negate);
            }

            if (**pattern == '\') {
                ++*pattern;
                /* Patterns must be terminated with ']', not EOS */
            }
        }
    }

    if (nocase) {
        int i, c;
        while (**pattern)
        {
            if (**pattern == '.')
                break;

            c = (**pattern) & 0x00ff;
            if (c <= 0x001f)
                break;

            if (escape)
                ++*pattern;
            ++*string;
            result = (result ^ negate);
        }
    }

    if (result)
        goto leadingclosebrace;

    while (**pattern)
    {
        if (**pattern == '\') {
            ++*pattern;
            /* XXX: Fix for MBCS character width */
            ++*string;
            return (result ^ negate);
        }

        if (**pattern == '"') {
            ++*pattern;
            /* Patterns must be terminated with ']', not EOS */
        }

        if (**string == '\') {
            ++*string;
            /* XXX: Fix for MBCS character width */
            ++*pattern;
            result = (result ^ negate);
        }
    }

    if (**pattern == '"')
        goto leadingclosebrace;

    return result;
}

leadingclosebrace:
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)**pattern <= tolower((unsigned char)*pattern)))
            break;
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;
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;
int sudo_fnmatch(const char *pattern, const char *string, int flags)
{
    static const char dummystring[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;
    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 == '.'))
            goto firstsegment;
        if (slash && & escape && (*pattern == '\') && (pattern[1] == '\'))
            ++pattern;
        if (slash && & (*pattern == '/') && (*string == '/')) {
            ++pattern;
            ++string;
        }
    }

    /* For '*' wild processing only; surpress 'used before initialization'
     * warnings with dummy initialization values;
     */
    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 == '.'))
            goto firstsegment;
        if (slash && & escape && (*pattern == '\') && (pattern[1] == '\'))
            ++pattern;
        if (slash && & (*pattern == '/') && (*string == '/')) {
            ++pattern;
            ++string;
        }
    }

    if (mismatch)
        return FNM_NOMATCH;
    if (strstartseg)
        return FNM_MISMATCH;
    if (pattern[0] == '.')
        return FNM_MISMATCH;

    ++string;
    return result;
}
/* 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)
    {
        startseg = string;
    }
mismatch = pattern;

/* Count fixed (non '*') char matches remaining in pattern
 * excluding '*' (or '/' or '\') and '*'
 */
for (matchptr = pattern, matchlen = 0; 1; ++matchlen)
{
    if ((*matchptr == '0')
        || (slash && ((*matchptr == '/')
                        || (escape && (*matchptr == '\')
                            && (matchptr[1] == '/')))))
    {
        /* XXX: Adjust for MBCS */
        if (string + matchlen > strendseg)
            return FNM_NOMATCH;

        string = strendseg - matchlen;
        wild = 0;
        break;
    }

    if (*matchptr == '*')
    {
        /* 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 == 'a')
        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 == '/')
    return FNM_NOMATCH;

if (*pattern && !slash && (*pattern == '/')
    return FNM_NOMATCH;
|| (escape &\& (*pattern == \n)
   &\& (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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*/

#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 */
    #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
#endif
# 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;
 }
struct 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);
        }
    } else if (*src == '.') {
        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;
    } else if (ch == '.') {
        if (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);
        }
    } else 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_INET6ADRSZ);
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
    case AF_INET6:
        return (inet_pton6(src, dst));
    default:
        return (-1);
    }
#endif /* HAVE_STRUCT_IN6_ADDR */
default:
erro = 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
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Burton, Ross
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Calvin, Gary
Campbell, Aaron
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Coleman, Chris
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Dill, David
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Edgington, Ben
Esipovich, Marc
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Faigon, Ariel
Farrell, Brian
Fobes, Steve
Fryinger, Mike
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Gelman, Stephen
Gerraty, Simon J.
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Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
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Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
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Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
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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
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Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Miller, Dworkin
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Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
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Peslyak, Alexander
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Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
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SATO, Yuichi
Sanchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
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Simon, Thor Lancelot
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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
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   Todd C. Miller <Todd.Miller@courtesan.com>

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1.205 syslog-ng 3.6.4

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=====

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/***************************************************************************/

#endif
#ifdef jail to whip a few platforms into the UNIX ideal.

#include <math.h>
#include <ogg/os_types.h>

#ifdef _V_IFDEFJAIL_H_
#define _V_IFDEFJAIL_H_

#ifdef __GNUC__
#define STIN static __inline__
#elif _WIN32
#define STIN static __inline__
#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

#include <assert.h>

#define _OS_H */
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==============

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3. Are derivative works allowed?

    Yes!

4. Can I change or add to the font(s)?

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Sure. Bundle the fonts with your software and sell your software with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them, can I override this somehow to use fonts of my choosing?

This depends on exact details of the software. Most open source systems and software (e.g., Gnome, KDE, etc.) are now converting to use fontconfig (see www.fontconfig.org) to handle font configuration, selection and substitution; it has provisions for overriding font names and subsituting alternatives. An example is provided by the supplied local.conf file, which chooses the family Bitstream Vera for "sans", "serif" and "monospace". Other software (e.g., the XFree86 core server) has other mechanisms for font substitution.
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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
1bebfb7248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbc 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
2e1ce529659e9341afe0443f196a1 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
Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

---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

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):
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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1.229 xproto 7.0.28

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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
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Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. */

#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. */
/*
#else
#include <libintl.h>
#endif
#else
#include "gettext.h"
#define _(msgid) gettext (msgid)
#endif
*/
#define _(msgid) (msgid)
/* 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. */

#if defined _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_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)
int len = middle - bottom;

/* 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)
                __getopt_nonoption_flags =
                    (char *) malloc (d->__nonoption_flags_max_len);
            else
                memset (__mempcpy (__getopt_nonoption_flags, orig_str, len),
                    '\0', d->__nonoption_flags_max_len - len);

        }
    }
```c
} 
} 
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 ARGC) 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 \


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&& __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);
    }
    #else
    fprintf (stderr, \"%s: option \"%s\" is ambiguous\n\", argv[0], argv[d->optind]);
    #endif
}
}
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 */
  #if defined _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 */
    #if defined _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
  }
  #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 += 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)
            {
            #if defined _LIBC && defined USE_IN_LIBIO
                char *buf;

                if (__asprintf (&buf, _("\n%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);
                }
            #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] == ':' ? ':' : '?';
    }
}
d->__nextchar += strlen (d->__nextchar);
if (longind != NULL)
  *longind = option_index;
if (pfound->flag)
{
  *(pfound->flag) = pfound->val;
  return 0;
}
return pfound->val;
}

/* Can't find it as a long option. If this is not getopt_long_only,
or the option starts with `-' or is not a valid short
option, then it's an error.
Otherwise interpret it as a short option. */
if (!long_only || argv[d->optind][1] == '-'
|| strchr (optstring, *d->__nextchar) == NULL)
{
  if (print_errors)
  {
#if defined _LIBC && defined USE_IN_LIBIO
    char *buf;
    int n;
#endif
    if (argv[d->optind][1] == '-
    /* --option */
#if defined _LIBC && defined USE_IN_LIBIO
    n = __asprintf (&buf, _("%s: unrecognized option `--%s'
    \n"), argv[0], d->__nextchar);
#else
    fprintf (stderr, _("%s: unrecognized option `--%s'
    \n"), argv[0], d->__nextchar);
#endif
    #endif
    if (argv[d->optind][1] == '-
    /* --option */
    #if defined _LIBC && defined USE_IN_LIBIO
    n = __asprintf (&buf, _("%s: unrecognized option `--%s\n"
    \n"), argv[0], d->__nextchar);
#else
    fprintf (stderr, _("%s: unrecognized option `--%s\n"
    \n"), argv[0], d->__nextchar);
#endif
    #endif
  }
  else
  {
#if defined _LIBC && defined USE_IN_LIBIO
    n = __asprintf (&buf, _("%s: unrecognized option `%-c\n"
    \n"), argv[0], argv[d->optind][0], d->__nextchar);
#else
    fprintf (stderr, _("%s: unrecognized option `%-c\n"
    \n"), argv[0], argv[d->optind][0], d->__nextchar);
#endif
    #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->__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"),
                    #endif
                }
            #endif
        }
    }
}
argv[0], c);
#endif
}
else
{
#ifdef _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
}
#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->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. */
    #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 = '?';
  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 (!strncmp (p->name, d->__nextchar, nameend - d->__nextchar))
    { /* 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)
    { /* First nonexact match found. */
      if (print_errors)
        { /* Defined _LIBC & & defined USE_IN_LIBIO */
          char *buf;

          if (__asprintf (&buf, _("%s: option `-W %s' is ambiguous\n"),
            argv[0], argv[d->optind]) >= 0)
            { /* Defined _LIBC & & defined USE_IN_LIBIO */
              _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 `-W %s' is ambiguous\n"),
argv[0], argv[d->optind]);
#ifdef
}
#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)
            {
                #if defined _LIBC && defined USE_IN_LIBIO
                char *buf;

                if (__asprintf (&buf, (_("%
%s: option `-W %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);
                }
            }#else
            fprintf (stderr, (_("%
%s: option `-W %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);
                }#else
            fprintf (stderr, (_("%
%s: option `-W %s' doesn't allow an argument\n"),
argv[0], pfound->name) >= 0)
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)
    {
#if 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);
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] == ':')
{
/* This is an option that accepts an argument optionally. */
if (*d->__nextchar != '\0')
{
    d->optarg = d->__nextchar;
    d->optind++;
}
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;
            ...
            /*%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
 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);
}

#endif

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':
            case 'a':
            case 'b':
            case 'c':
            case 'd':
            case 'e':
            case 'f':
            case 'g':
            case 'h':
            case 'i':
            case 'j':
            case 'k':
            case 'l':
            case 'm':
            case 'n':
            case 'o':
            case 'p':
            case 'q':
            case 'r':
            case 's':
            case 't':
            case 'u':
            case 'v':
            case 'w':
            case 'x':
            case 'y':
            case 'z':
            case 'A':
            case 'B':
            case 'C':
            case 'D':
            case 'E':
            case 'F':
            case 'G':
            case 'H':
            case 'I':
            case 'J':
            case 'K':
            case 'L':
            case 'M':
            case 'N':
            case 'O':
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            case 'X':
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            case 'Z':
            case 'a':
            case 'b':
            case 'c':
            case 'd':
            case 'e':
            case 'f':
            case 'g':
            case 'h':
            case 'i':
            case 'j':
            case 'k':
            case 'l':
            case 'm':
            case 'n':
            case 'o':
            case 'p':
            case 'q':
            case 'r':
            case 's':
            case 't':
            case 'u':
            case 'v':
            case 'w':
            case 'x':
            case 'y':
            case 'z':
            default:
        }
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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===================

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of these things:

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

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

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

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

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

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