Open Source Used In TelePresence Server on Virtual Machine 4.0 MR1

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Text Part Number: 78EE117C99-65004735
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 * httpd@ncsa.uiuc.edu
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----------

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Written by: Philip Hazel <ph10@cam.ac.uk>

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

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

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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1.5 bash 4.2

1.5.1 Available under license:

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing it with bash-2.0?
That's great!

Go ahead and circulate it; in fact, we should probably grab it and stick it in our ftp archive, and put a reference to it in the book. (Too late to actually discuss the thing, at least for this edition.)

Fred Friedman

> Hi. I snagged some of your bash functions from your home directory on
> the FSF machines (naughty, I know), and I was wondering if you'd let
> me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in
~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and
es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

John DuBois
Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

Hi. I'm the maintainer of bash (the GNU 'Bourne Again shell') for the FSF.

I picked up a tar file of ksh scripts you wrote from an anon FTP site a while back. I'd like your permission to include modified versions of some of them in the next major bash distribution (with proper credit given, of course). Is it OK if I do that?

Chet Ramey

--
"The lyf so short, the craft so long to lerne." - Chaucer

Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU. Edu

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1.6 bind 9.7.1

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1.7-binutils 2.21.1
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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
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.
(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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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1.8 binutils 2.21.1
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Linus Torvalds

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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*/

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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under certain conditions; type `show c' for details.

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# 1.16 coverage 3.4

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1.17 cracklib 2.8.18

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^L

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

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

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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@...> - 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
=20

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.

-- 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
> 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, Neulinge, 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 didn't 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 applications are also GPL-2 which imo is just wrong. it isn't the place of=20
a library to dictact to application writes what license they should be using.=20
thus LGPL-2.1 enters to fill this void.
=mike

Re: [Cracklib-devel] cracklib license
From: Neulinge, 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

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

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

-a
Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's best interests to have as secure systems as possible, and I think tainting it via GPL will just make it less likely that the library gets used, and will not usually cause companies/developers to GPL the dependent code (where it is not already GPL).

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
> > I am sympathetic. Guys, what do you reckon?
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....

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

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

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

Cheers,

Nalin
Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> >> >> Seems like the ideal thing here would be for you and the other distro
> >> >> maintainers to get together with Alec in a conversation and come to a
> >> >> decision as to what licensing scheme y'all want. I haven't really done
> >> >> much other than cleaning up the packaging and patches and a small
> >> >> bit of
> >> >> additional code, so whatever licensing y'all come up with is fine
> >> >> by me.
> >>
> >> I am sympathetic. Guys, what do you reckon?
> >>
> >> 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
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-}
1.18 curl 7.24.0

1.18.1 Available under license:

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Theodore Ts'o
23-June-2007

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1.40 file 5.04 :5.el6

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1.43 formencode 1.2.4

1.43.1 Available under license:

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A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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FormEncode, a Form processor

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--- end of FTL.TXT ---
/* bdf.c

FreeType font driver for bdf files

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Ty Coon, President of Vice

That's all there is to it!

1.47 gawk 3.1.6
1.47.1 Available under license:
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Version 3, 29 June 2007

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this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.

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1.48 gdb 7.3.1

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for 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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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.>
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.
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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

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

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

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

TERMS AND CONDITIONS

0. Definitions.

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

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

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

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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.

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

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

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

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

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

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

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

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

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

6. Conveying Non-Source Forms.

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

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

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

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

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

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conveying of source, or (2) access to copy the
Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
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alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
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copy the object code is a network server, the Corresponding Source
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1.51 glib 2.28.8 :Sun Jun 5  2011 Matthias Clasen
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Preamble

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

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

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

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

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

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

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
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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
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
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End

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lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
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lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gsssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c

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lib/libgss/g_utils.c
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1.79 libjpeg 6b

1.79.1 Notifications :
This software is based in part on the work of the Independent JPEG Group.

1.79.2 Available under license :
The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

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

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

IJG is not affiliated with the official ISO JPEG standards committee.
DOCUMENTATION ROADMAP
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This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

If you want to understand how the JPEG code works, we suggest reading one or
more of the REFERENCES, then looking at the documentation files (in roughly
the order listed) before diving into the code.

OVERVIEW
========

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

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

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

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

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

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of any program generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

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

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

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

We are required to state that
"The Graphics Interchange Format(c) is the Copyright property of CompuServe Incorporated. GIF(sm) is a Service Mark property of CompuServe Incorporated."

REFERENCES
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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.
A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


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

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

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

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

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

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

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

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

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

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.

If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body

send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

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

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

A different free JPEG implementation, written by the PVRG group at Stanford, is available from ftp://havefun.stanford.edu/pub/jpeg/. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto
standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don’t use a proprietary file format!

TO DO
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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.80 libpcap 1.3.0
1.80.1 Available under license:
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1.81 libusb 1.0.8

1.81.1 Available under license:

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Version 2.1, February 1999

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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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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 *
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#
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# exits with 0. Otherwise, it exits with 1.
#
# You can get the latest version of this script from:
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## 1.83 libxslt 1.1.26

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

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

1.86 Lm_sensors 3.1.2 :(2010-02-02)

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1.104 mod_authnz_external 3.3.1

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1.105 mod_wsgi 3.3
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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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<one line to give the program's name and a brief idea of what it does.>
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1.118 open-vm-tools 2011.12.20-562307

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

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"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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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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Written by:       Philip Hazel
Email local part: ph10
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Written by: Philip Hazel
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# vim600: encoding=UTF-8

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1.129 popt 1.16
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1.137 pycrypto 2.6

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Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

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3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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--amk (www.amk.ca)

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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1.138 pygobject 2.28.4

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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.144 python-bidict 0.1.1

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1.146 python-nss 0.12
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Version 2.1, February 1999

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In 1995, Guido continued his work on Python at the Corporation for
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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.153 samba 3.6.4

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#!/bin/sh -
#SNetBSD: sed.test,v 1.3 1997/01/09 20:21:37 tls Exp $ 
#
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#
#from: @(#)sed.test8.1 (Berkeley) 6/6/93
#SNetBSD: sed.test,v 1.3 1997/01/09 20:21:37 tls Exp $
#
# sed Regression Tests

# Modified by Paolo Bonzini to:
# - not warn about buggy seds
# - run tests once instead of comparing them to the system sed
# - remove most uses of awk
# - cleanup at exit
# - comment tests that broke because of extensions
main()
{
    TEST="${1-../sed/sed}"
    TESTLOG="${2-sed.out}"
    # DICT="${3-usr/share/dict/words}"

    : > lines1
    : > lines2
    for i in 1 2 3 4 5 6 7 8 9; do
        echo l1_${i} >> lines1
        echo l2_${i} >> lines2
    done
    for i in 10 11 12 13 14; do
        echo l1_${i} >> lines1
    done

    # Set these flags to get messages about known problems
    tests "$TEST" "$TESTLOG"

    rm -f lines[1234] script[12]
}

tests()
{
    SED="$1"
    LOG="$2"
    MARK=100
    rm -f "$LOG"

    exec 3<&0 4<&1 5<&2
    exec 0<dev/null 1<dev/null 2<dev/null
    test_error
    exec 0<&3 1<&4 2<&5

    exec 4<&1 5<&2
    test_args
    test_addr
    test_group
    test_acid
    test_branch
    test_pattern
    test_print
    test_subst
    exec 1<&4 2<&5
}

mark()
{
exec 2>&1 >>$LOG
test $MARK = 100 || echo
MARK=`expr $MARK + 1`
echo "Test $1:$MARK" | sed 's/\./=\g/'
echo "Test $1:$MARK"
echo "Test $1:$MARK" | sed 's/\./=\g/'
}
test_args()
{
mark '1.1'
echo Testing argument parsing
echo First type
$SED 's///e1_/p' lines1
mark '1.2' ; $SED -n 's///e1_/p' lines1
mark '1.3' ; $SED 's///e1_/p' <lines1
mark '1.4' ; $SED -n 's///e1_/p' <lines1
echo Second type
mark '1.4.1'
$SED -e " <lines1
echo 's///s1_/p' >script1
echo 's///s2_/p' >script2
mark '1.5' ; $SED -f script1 lines1
mark '1.6' ; $SED -f script1 <lines1
mark '1.7' ; $SED -e 's///e1_/p' lines1
mark '1.8' ; $SED -e 's///e1_/p' <lines1
mark '1.9' ; $SED -n -f script1 lines1
mark '1.10' ; $SED -n -f script1 <lines1
mark '1.11' ; $SED -n -e 's///e1_/p' lines1
mark '1.12' ; $SED -n -e 's///e1_/p' <lines1
mark '1.13' ; $SED -e 's///e1_/p' -e 's///e2_/p' lines1
mark '1.14' ; $SED -f script1 -f script2 lines1
mark '1.15' ; $SED -e 's///e1_/p' -f script1 lines1
mark '1.16' ; $SED -e 's///e1_/p' lines1 lines1
# POSIX D11.2:11251
mark '1.17' ; $SED p <lines1 lines1
cat >script1 <<EOF
#n
# A comment
p
EOF
mark '1.18' ; $SED -f script1 <lines1 lines1
}
test_addr()
{
echo Testing address ranges
mark '2.1' ; $SED -n -e '4p' lines1
mark '2.2' ; $SED -n -e '20p' lines1 lines2
mark '2.3' ; $SED -n -e '$p' lines1
mark '2.4' ; $SED -n -e '$p' lines1 lines2
mark '2.5' ; $SED -n -e '$a\n' hello '/dev/null
mark '2.6' ; $SED -n -e '$p' lines1 /dev/null lines2
# Should not print anything
mark '2.7' ; $SED -n -e '20p' lines1
# Disabled because it is undefined behavior
# mark '2.8' ; $SED -n -e '0p' lines1
mark '2.9' ; $SED -n '/l1_7/p' lines1
mark '2.10' ; $SED -n '/l1_7/ p' lines1
mark '2.11' ; $SED -n '\_l1\_7\_p' lines1
mark '2.12' ; $SED -n '1,4p' lines1
mark '2.13' ; $SED -n '1,$p' lines1 lines2
mark '2.14' ; $SED -n '1/I2_9/p' lines1 lines2
mark '2.15' ; $SED -n '/4,/Sp' lines1 lines2
mark '2.16' ; $SED -n '/4/,20p' lines1 lines2
mark '2.17' ; $SED -n '/4/,/10/p' lines1 lines2
mark '2.18' ; $SED -n '/l2_3,/[l1_8/p' lines1 lines2
mark '2.19' ; $SED -n '/12,3p' lines1 lines2
mark '2.20' ; $SED -n '/l1_7,3p' lines1 lines2
}

```bash
test_group()
{
  echo Brace and other grouping
  mark '3.1' ; $SED -e
  4,12 {
    s/^/^/
    s/$/$/
    s/_/T/
  } lines1
  mark '3.2' ; $SED -e
  4,12 {
    s/^/^/
    /6/,/10/ {
      s/$/$/
      /8/ s/_/T/ 
    }
  } lines1
  mark '3.3' ; $SED -e
  4,12 {
    s/^/^/
    /6/,/10/ {
      s/$/$/
      /8/ !s/_/T/ 
    }
  } lines1
```
test_acid()
{
    echo Testing a c d and i commands
    mark '4.1' ; $SED -n -e 's/^/before_i/p
    20i
    inserted
    s/^/after_i/p
    ' lines1 lines2
    mark '4.2' ; $SED -n -e '5,12s/^/5-12/
    s/^/before_a/p
    /5-12/a
    appended
    s/^/after_a/p
    ' lines1 lines2
    mark '4.3' ; $SED -n -e 's/^/l1_/a
    appended
    8,10N
    s/$/$/p
    ' lines1 lines2
    mark '4.4' ; $SED -n -e 'c\n    hello
    ' lines1
    mark '4.5' ; $SED -n -e '8c\n    hello
    ' lines1
    mark '4.6' ; $SED -n -e '3,14c\n    hello
    ' lines1
    mark '4.7' ; $SED -n -e '8,3c\n    hello
    ' lines1
    mark '4.8' ; $SED d <lines1
}

test_branch()
echo Testing labels and branching
mark '5.1' ; $SED -n -e 'b label4 :label3 s/^/label3_/p b end :label4 2,12b label1 b label2 :label1 s/^/label1_/p b :label2 s/^/label2_/p b label3 :end ' lines1
mark '5.2' ; $SED -n -e 's/l1_/l2_/ t ok b :ok s/^/tested /p ' lines1 lines2
mark '5.3' ; $SED -n -e '5,8b inside 1,5 { s/^/\p :inside s/$/$/p } ' lines1
# Check that t clears the substitution done flag
mark '5.4' ; $SED -n -e '1,8s/^/t11 / t11 :11 t 12 s/$/$/p b :12 s/^/ERROR/ ' lines1
# Check that reading a line clears the substitution done flag
mark '5.5' ; $SED -n -e 't 12 1,8s/^/p
2,7N
b
:d2
s/^/ERROR/p
' lines1
mark '5.6' ; $SED 5q lines1
mark '5.7' ; $SED -e '
5i\nhello
5q' lines1
# Branch across block boundary
mark '5.8' ; $SED -e '
{
:b
}
s/l/m/
tb' lines1
}

test_pattern()
{
   echo Pattern space commands
   # Check that the pattern space is deleted
   mark '6.1' ; $SED -n -e '
c\nchanged
p
' lines1
mark '6.2' ; $SED -n -e '
4d
p
' lines1
mark '6.3' ; $SED -e '
N
N
N
D
P
4p
' lines1
mark '6.4' ; $SED -e '
2h
3H
4g
5G
6x
6p
6x

6p
' lines1
mark '6.5' ; $SED -e '4n' lines1
mark '6.6' ; $SED -n -e '4n' lines1
}

test_print()
{
  echo Testing print and file routines
  awk 'END {for (i = 1; i < 256; i++) printf("%c", i); print "\n"}' > lines3
  mark '7.1' ; $SED -n l lines3
  mark '7.2' ; $SED -e '/l2_/=' lines1 lines2
  rm -f lines4
  mark '7.3' ; $SED -e '3,12w lines4' lines1
  echo w results
  cat lines4
  mark '7.4' ; $SED -e '4r lines2' lines1
  mark '7.5' ; $SED -e '5r /dev/dds' lines1
  mark '7.6' ; $SED -e '6r /dev/null' lines1
  # mark '7.7'
  # sed '200q' $DICT | sed 's$.*$s/^&/w tmpdir/&$' > script1
  # rm -rf tmpdir
  # mkdir tmpdir
  # $SED -f script1 lines1
  # cat tmpdir/*
  # rm -rf tmpdir
  mark '7.8'
  echo line1 > lines3
  echo "" >> lines3
  $SED -n -e '$p' lines3 /dev/null
}

test_subst()
{
  echo Testing substitution commands
  mark '8.1' ; $SED -e 's/.X/g' lines1
  mark '8.2' ; $SED -e 's,.X,g' lines1
  mark '8.3' ; $SED -e 's..X,g' lines1
  # POSIX does not say that this should work
  # mark '8.4' ; $SED -e 's/\[/\]/Q/' lines1
  mark '8.4' ; $SED -e 's/\/[\]/Q/' lines1
  mark '8.5' ; $SED -e 's\_\_X\_' lines1
  mark '8.6' ; $SED -e 's/\&/\&/g' lines1
  mark '8.7' ; $SED -e 's/\&/\&/g' lines1
  mark '8.8' ; $SED -e 's/\(|\)\(\)\(\)/x\3x\2x\1/g' lines1
  mark '8.9' ; $SED -e 's/\u0/\u1/
u2/g lines1
mark '8.10' ; $SED -e 's/.X/4/' lines1
rm -f lines4
mark '8.11' ; $SED -e 's/1/X/w lines4' lines1
echo s wfile results
cat lines4
mark '8.12' ; $SED -e 's/[123]/X/g' lines1
mark '8.13' ; $SED -e 'y/0123456789/9876543210/' lines1
mark '8.14' ; $SED -e 'y10123456789198765432101' lines1
mark '8.15' ; $SED -e '1N;2y/u/X/' lines1
mark '8.16'
echo 'eeefff' | $SED -e 'p'-e 's/e/X/p'-e 'x'
   -e 's/Y/p'-e '/fibx'
mark '8.17' ; $SED -e 's&.&
&' lines1
}

test_error()
{
 $SED -x && exit 1
 $SED -f && exit 1
 $SED -e && exit 1
 $SED -f /dev/dds && exit 1
 $SED p /dev/dds && exit 1
 $SED -f /bin/sh && exit 1
 $SED '{' && exit 1
 $SED '{' && exit 1
 $SED '/hello/' && exit 1
 $SED -e '-5p' && exit 1
 $SED '/ij' && exit 1
 # $SED 'a hello' && exit 1
 # $SED 'a \ hello' && exit 1
 $SED 'b foo' && exit 1
 $SED 'd hello' && exit 1
 $SED 's/aa' && exit 1
 $SED 's/aaa' && exit 1
 $SED 's/a/b' && exit 1
 $SED 's/a/b/c/d' && exit 1
 $SED 's/a/b/ 1 2' && exit 1
 # $SED 's/a/b/ 1 g' && exit 1
 $SED 's/a/b/w' && exit 1
 $SED 'y/aa' && exit 1
 $SED 'y/aaa' && exit 1
 $SED 'y/aa/b' && exit 1
 $SED 'y/aa/ab' && exit 1
 $SED 'y/aa/b' && exit 1
 $SED 'y/aa/b/c/d' && exit 1
 $SED '!' && exit 1
 $SED supercalifrangolisticexprialidociussupercalifrangolisticexcius
main $[1+"$@"]

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Version 3, 29 June 2007

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#!/bin/sh -
#SNetBSD: sed.test,v 1.3 1997/01/09 20:21:37 tls Exp $
#
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#
# from: @(#)sed.test8.1 (Berkeley) 6/6/93
#$NetBSD: sed.test,v 1.3 1997/01/09 20:21:37 tls Exp $
#
#
# sed Regression Tests
#
# Modified by Paolo Bonzini to:
# - not warn about buggy seds
# - run tests once instead of comparing them to the system sed
# - remove most uses of awk
# - cleanup at exit
# - comment tests that broke because of extensions

main()
{
    TEST="${1-../sed/sed}"
    TESTLOG="${2-sed.out}"
    TESTLOG="${2-sed.out}"
    # DICT="${3-/usr/share/dict/words}"

    : > lines1
    : > lines2
    for i in 1 2 3 4 5 6 7 8 9; do
        echo l1_${i} >> lines1
        echo l2_${i} >> lines2
done
    for i in 10 11 12 13 14; do
        echo l1_${i} >> lines1
done

    # Set these flags to get messages about known problems
tests "$TEST" "$TESTLOG"

    rm -f lines[1234] script[12]
tests()
{
SED="$1"
LOG="$2"
MARK=100
rm -f "$LOG"

exec 3>&0 4>&1 5>&2
exec 0</dev/null 1>/dev/null 2>/dev/null
test_error
exec 0>&3 1>&4 2>&5

exec 4>&1 5>&2
test_args
test_addr
test_group
test_acid
test_branch
test_pattern
test_print
test_subst
exec 1>&4 2>&5
}

mark()
{
exec 2>&1 >>$LOG
test $MARK = 100 || echo
MARK=`expr $MARK + 1`
 echo "Test $1:$MARK" | sed 's/./=g'
 echo "Test $1:$MARK"
 echo "Test $1:$MARK" | sed 's/./=g'
}

test_args()
{
mark '1.1'
 echo Testing argument parsing
 echo First type
 $SED 's/^/e1_/p' lines1
 mark '1.2' ; $SED -n 's/^/e1_/p' lines1
 mark '1.3' ; $SED 's/^/e1_/p' <lines1
 mark '1.4' ; $SED -n 's/^/e1_/p' <lines1
 echo Second type
 mark '1.4.1'
 $SED -e " <lines1

echo 's/^/s1_/p' >script1
echo 's/^/s2_/p' >script2
mark '1.5' ; $SED -f script1 lines1
mark '1.6' ; $SED -f script1 <lines1
mark '1.7' ; $SED -e 's/^/e1_/p' lines1
mark '1.8' ; $SED -e 's/^/e1_/p' <lines1
mark '1.9' ; $SED -n -f script1 lines1
mark '1.10' ; $SED -n -f script1 <lines1
mark '1.11' ; $SED -n -e 's/^/e1_/p' lines1
mark '1.12' ; $SED -n -e 's/^/e1_/p' <lines1
mark '1.13' ; $SED -e 's/^/e1_/p' -e 's/^/e2_/p' lines1
mark '1.14' ; $SED -f script1 -f script2 lines1
mark '1.15' ; $SED -e 's/^/e1_/p' -f script1 lines1
mark '1.16' ; $SED -e 's/^/e1_/p' lines1 lines1
# POSIX D11.2:11251
mark '1.17' ; $SED p <lines1 lines1
cat >script1 <<EOF
#n
# A comment
p
EOF
mark '1.18' ; $SED -f script1 <lines1 lines1
}

test_addr()
{
    echo Testing address ranges
    mark '2.1' ; $SED -n -e '4p' lines1
    mark '2.2' ; $SED -n -e '20p' lines1 lines2
    mark '2.3' ; $SED -n -e '$p' lines1
    mark '2.4' ; $SED -n -e '$p' lines1 lines2
    mark '2.5' ; $SED -n -e '$a\n' hello /dev/null
    mark '2.6' ; $SED -n -e '$p' lines1 /dev/null lines2
    # Should not print anything
    mark '2.7' ; $SED -n -e '20p' lines1
    # Disabled because it is undefined behavior
    # mark '2.8' ; $SED -n -e '0p' lines1
    mark '2.9' ; $SED -n '/l1_/7/p' lines1
    mark '2.10' ; $SED -n '/l1_/7/p' lines1
    mark '2.11' ; $SED -n '\l1\_7\_p' lines1
    mark '2.12' ; $SED -n '\l1\_4\_p' lines1
    mark '2.13' ; $SED -n '1,Sp lines1 lines2
    mark '2.14' ; $SED -n '/l2_9/p' lines1 lines2
    mark '2.15' ; $SED -n '/4_/Sp lines1 lines2
    mark '2.16' ; $SED -n '/4_/20p lines1 lines2
    mark '2.17' ; $SED -n '/4_/10/p' lines1 lines2
mark '2.18' ; $SED -n '/l2_3/11_8/p' lines1 lines2
mark '2.19' ; $SED -n '12,3p' lines1 lines2
mark '2.20' ; $SED -n '/l1_7/,3p' lines1 lines2
}

test_group()
{
    echo Brace and other grouping
    mark '3.1' ; $SED -e '
        4,12 { 
            s/^/^/ 
            s/$/$/ 
            s/_/T/ 
            } lines1
    mark '3.2' ; $SED -e '
        4,12 { 
            s/^/^/ 
            s/6/,10/ { 
            s/$/$/ 
            s/8/ _/T/ 
            } 
            } lines1
    mark '3.3' ; $SED -e '
        4,12 {!{ 
            s/^/^/ 
            s/6/,10/ {!{ 
            s/$/$/ 
            s/8/ _/T/ 
            } 
            } lines1
    mark '3.4' ; $SED -e '4,12!s/^/T/ lines1
}

test_acid()
{
    echo Testing a c d and i commands
    mark '4.1' ; $SED -n -e '
    s//before_i/p 
    20i\ 
    inserted 
    s//after_i/p 
    ' lines1 lines2
    mark '4.2' ; $SED -n -e ' 
    5,12s//5-12/ 
    s//before_a/p 
    /5-12/a\ 
    appended 
    s//after_a/p
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1280

mark '4.3' ; $SED -n -e 's/^/^/p
/l1_/a
appended
8,10N
s/\$/p
' lines1 lines2
mark '4.4' ; $SED -n -e 'c
hello
' lines1
mark '4.5' ; $SED -n -e '8c
hello
' lines1
mark '4.6' ; $SED -n -e '3,14c
hello
' lines1
mark '4.7' ; $SED -n -e '8,3c
hello
' lines1
mark '4.8' ; $SED d <lines1
}

test_branch()
{

echo Testing labels and branching
mark '5.1' ; $SED -n -e 'b label4
:label3
s/^/label3_/p
b end
:label4
2,12b label1
b label2
:label1
s/^/label1_/p
b
:label2
s/^/label2_/p
b label3
:end
' lines1
mark '5.2' ; $SED -n -e 's/l1_/l2_/
t ok
b
:ok
s/^/tested /p
' lines1 lines2
mark '5.3' ; $SED -n -e ' 5,8b inside
1,5 {
  s/^/p
  :inside
  s/$/$/p
}
' lines1
# Check that t clears the substitution done flag
mark '5.4' ; $SED -n -e '
1,8s/^/t

:11
:11

:12
s/$/$/p
b
:12
s/^/ERROR/
' lines1
# Check that reading a line clears the substitution done flag
mark '5.5' ; $SED -n -e '
t 12
1,8s/^/t

2,7N
b
:2
s/^/ERROR/p
' lines1
mark '5.6' ; $SED 5q lines1
mark '5.7' ; $SED -e '
5i\nhello
5q' lines1
# Branch across block boundary
mark '5.8' ; $SED -e '

{  :b
}

s/l/m/
tb' lines1
}
test_pattern()
{ echo Pattern space commands
# Check that the pattern space is deleted
mark '6.1' ; $SED -n -e
\c\nlines1
mark '6.2' ; $SED -n -e
4d
p
' lines1
mark '6.3' ; $SED -e
N
N
N
D
P
4p
' lines1
mark '6.4' ; $SED -e
2h
3H
4g
5G
6x
6p
6x
6p
' lines1
mark '6.5' ; $SED -e '4n' lines1
mark '6.6' ; $SED -n -e '4n' lines1
}

test_print()
{
} echo Testing print and file routines
awk 'END {for (i = 1; i < 256; i++) printf("%c", i);print "\n")' \\
</dev/null >lines3
mark '7.1' ; $SED -n 1 lines3
mark '7.2' ; $SED -e '/l2_/=' lines1 lines2
rm -f lines4
mark '7.3' ; $SED -e '3,12w lines4' lines1
echo w results
cat lines4
mark '7.4' ; $SED -e '4r lines2' lines1
mark '7.5' ; $SED -e '5r /dev/dds' lines1
mark '7.6' ; $SED -e '6r /dev/null' lines1
# mark '7.7'
# sed '200q' $DICT | sed 's$.*$&/w tmpdir/&$' > script1
# rm -rf tmpdir
# mkdir tmpdir
# $SED -f script1 lines1
# cat tmpdir/*
# rm -rf tmpdir
mark '7.8'
echo line1 > lines3
echo "" >> lines3
$SED -n -e 's$p' lines3 /dev/null
}

test_subst()
{
echo Testing substitution commands
mark '8.1'; $SED -e 's/J/g' lines1
mark '8.2'; $SED -e 's...X,g' lines1
mark '8.3'; $SED -e 's/.X,g' lines1
# POSIX does not say that this should work
# mark '8.4'; $SED -e 's/[\]/Q/' lines1
mark '8.4'; $SED -e 's/[\]/Q/' lines1
mark '8.5'; $SED -e 's\._X_.' lines1
mark '8.6'; $SED -e 's/.(\&)/g' lines1
mark '8.7'; $SED -e 's/.(\&)/g' lines1
mark '8.8'; $SED -e 's(A)(A)\/(A)/(A)\/(A)/(A)\/(A)/\1/g' lines1
mark '8.9'; $SED -e 's/_u0\u1\u2/g' lines1
mark '8.10'; $SED -e 's/.4/4' lines1
rm -f lines4
mark '8.11'; $SED -e 's/1/X/w lines4' lines1
echo s wfile results
cat lines4
mark '8.12'; $SED -e 's/123/X/4' lines1
rm -f lines4
mark '8.13'; $SED -e 'y/0123456789/9876543210/' lines1
mark '8.14'; $SED -e 'y/0123456789/98765432101' lines1
mark '8.15'; $SED -e '1N;2y/X/' lines1
mark '8.16'
echo 'eeefff' | $SED -e 'y' -e 's/e/X/' -e ':x' \\
   -e 's//Y/p' -e 'f/bx'
mark '8.17'; $SED -e 's&.&/\&/g' lines1
}

test_error()
{
$SED -x && exit 1
$SED -f && exit 1
$SED -e && exit 1
$SED -f /dev/dds && exit 1
$SED p /dev/dds && exit 1
$SED -f /bin/sh && exit 1
$SED '!' && exit 1
$SED 'hello' && exit 1
$SED 'l/hello' && exit 1
$SED -e '-5p' && exit 1
$SED 'jj' && exit 1
# $SED 'a hello' && exit 1
# $SED 'a \ hello' && exit 1
$SED 'b foo' && exit 1
$SED 'd hello' && exit 1
$SED 's/aa' && exit 1
$SED 's/aa/' && exit 1
$SED 's/a/b' && exit 1
$SED 's/a/b/c/d' && exit 1
$SED 's/a/b/1 2' && exit 1
# $SED 's/a/b/1 g' && exit 1
$SED 's/a/b/1 w' && exit 1
$SED 'y/aa' && exit 1
$SED 'y/aa/b' && exit 1
$SED 'y/aa/b' && exit 1
$SED 'y/aa/b' && exit 1
$SED 'y/aa/b/c/d' && exit 1
$SED '!' && exit 1
$SED supercalifragilisticexpialidociussupercalifragilisticexpia
}

main ${1+"$@"}

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$Id: pwauth.h,v 1.6 2005/05/25 19:31:50 kloczek Exp $
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vipw, vigr  edit the password or group file
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/* Skeleton parser for Yacc-like parsing with Bison,

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/* Written by Richard Stallman by simplifying the original so called 
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## 1.169 sysstat 9.1.3

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*
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1.173 tar 1.23

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support for the IEEE Link Discovery Protocol as per 802.1AB

Original code by Hannes Gredler (hannes@juniper.net)
IEEE and TIA extensions by Carles Kishimoto <carles.kishimoto@gmail.com>
DCBX extensions by Kaladhar Musunuru <kaladharm@sourceforge.net>

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Support for splitting captures into multiple files with a maximum
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Functions for signature and digest verification.

Original code by Hannes Gredler (hannes@juniper.net)

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Optimized Link State Protocol (OLSR) as per rfc3626

Original code by Hannes Gredler <hannes@juniper.net>
IPv6 additions by Florian Forster <octo at verplant.org>

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Reference documentation:
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Hacked version of print-ether.c  Larry Lile <lile@stdio.com>
Further tweaked to more closely resemble print-fddi.c
Guy Harris <guy@alum.mit.edu>

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support for the The RPKI/Router Protocol Protocol as per draft-ietf-sidr-rpki-rtr-12

Original code by Hannes Gredler (hannes@juniper.net)

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Kevin Steves <ks@hp.se> July 2000
Modified to:
- print version, type string and packet length
- print IP address count if > 1 (-v)
- verify checksum (-v)
- print authentication string (-v)

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########################################################################

Decode and print Zephyr packets.

    http://web.mit.edu/zephyr/doc/protocol

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1.176 termcap 1.3.1
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1.190 vim 7.3

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// The modifications were: incorporate the bugfixes of 1.1.4, allow
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// a windowsish api, and putting everything into a single .cpp file.
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//
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// version 1.1.3, July 9th, 1998
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1.195 zlib 1.2.5
1.195.1 Available under license :
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.5, April 19th, 2010

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

1.196 zope.interface 3.6.1
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