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The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

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The original package can be found at

  src/preproc/grn/gprint.h
  src/preproc/grn/hdb.cpp
  src/preproc/grn/hgraph.cpp
  src/preproc/grn/hpoint.cpp
  src/preproc/grn/main.cpp

The `gxditview' output device. It is based on X11's `xditview' program and thus has the X license.

  src/devices/xditview/DESC.in
  src/devices/xditview/Dvi.c
  src/devices/xditview/Dvi.h
  src/devices/xditview/DviP.h
  src/devices/xditview/FontMap
  src/devices/xditview/GXditview.ad
  src/devices/xditview/Menu.h
  src/devices/xditview/ad2c
  src/devices/xditview/device.c
  src/devices/xditview/device.h
  src/devices/xditview/draw.c
  src/devices/xditview/font.c
  src/devices/xditview/gray1.bm
  src/devices/xditview/gray2.bm
  src/devices/xditview/gray3.bm
  src/devices/xditview/gray4.bm
  src/devices/xditview/gray5.bm
  src/devices/xditview/gray6.bm
  src/devices/xditview/gray7.bm
Macro Packages
-------------

. The -mdoc macro set, using the BSD license.

  tmac/doc.tmac
  tmac/doc-old.tmac
  tmac/doc-common
  tmac/doc-ditroff
  tmac/doc-nroff
  tmac/doc-syms
  tmac/groff_mdoc.man

. The -me macro set, using the BSD license.

  tmac/e.tmac
  tmac/groff_me.man
  doc/meintro.me
  doc/meref.me

Hyphenation Patterns
---------------------

. The file `tmac/hyphen.us' is identical to the file `hyphen.tex', part of
  the TeX system written by Donald E. Knuth; the master file can be found
  at

    ftp://labrea.stanford.edu/pub/tex/dist/lib/hyphen.tex

  . It has been renamed for consistency, i.e., to make patterns available
    under the filenames `hyphen.<language>', e.g. `hyphen.de' or
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. The file `tmac/hyphen.fr' contains the same patterns as the file `frhyph.tex' (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/frhyph.tex

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. The file `tmac/hyphen.sv' is identical to the file `svhyph.tex', which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/svhyph.tex

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which can be found at

    http://dante.ctan.org/CTAN/language/hyphenation/dehyphn.tex
    http://dante.ctan.org/CTAN/language/hyphenation/dehypht.tex

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex', which can be found at

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. The file `tmac/hyphen.cs' contains the same patterns as the file `cshyphen.tex' (for TeX), which can be found in the archive

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* Added generation of field number constants.

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* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

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* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
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1.27 hibernate-validator 5.2.2

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1.28 pcre 8.32 17.el7
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1.29 jline 2.14.3

1.30 python-lxml 3.2.1 4.el7

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
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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
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
and the initial implementation of incremental propagation, including
the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
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1.42 hk2-locator 2.4.0

1.43 flink-queryable-state-client-java 1.9.2

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flink-queryable-state-client-java
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Version 3, 29 June 2007

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1.69 spring-aop 5.0.5

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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.
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whether or not they are linked directly with the Library itself.

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

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

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

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@subheading TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

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

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

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under
``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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@item 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:

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

@item
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.)
@end enumerate

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.

@item
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
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.

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.

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.

@item
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:

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

@item
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.

@item
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.

@item
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.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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

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

@item
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:

@enumerate a
@item
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.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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ordinary General Public License).

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safest to attach them to the start of each source file to most effectively
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```
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You should have received a copy of the GNU Lesser General Public
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USA.
@end smallexample

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

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

@end smallexample
Yoyodyne, Inc., hereby disclaims all copyright interest in the library
`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

That's all there is to it!

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Version 3, 29 June 2007

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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
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.

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

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.

A "covered work" means either the unmodified Program or a work based on the Program.

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

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

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


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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5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:
a) The work must carry prominent notices stating that you modified it, and giving a relevant date.

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

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.

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

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

A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling. In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage. For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product. A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.
"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

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

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

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

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to use the modified definitions.)

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1.82 slf4j-log4j 1.6.6

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1.83 glibc 2.17 292.el7

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Flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

As discussed in <https://sourceware.org/ml/libc-alpha/2012-04/msg00840.html> and <https://sourceware.org/ml/libc-alpha/2012-04/msg00989.html>, it seems appropriate to flatten sysdeps/unix/bsd/bsd4.4 into sysdeps/unix/bsd.

The bulk of the patch is just moving files. The only other changes are: update paths in sysdeps/mach/hurd/Implies and sysdeps/unix/sysv/linux/wait3.c; merge the two syscall.s list files, with the removal of syscall.s that were in sysdeps/unix/bsd/syscall.s list but overridden in the bsd4.4 directory by .c files there.

Tested x86_64. The installed shared libraries are identical before and after the patch except for libc.so where the move of wait3.c (included by sysdeps/unix/sysv/linux/wait3.c) affects debug info, but the disassembly is unchanged.

* sysdeps/mach/hurd/Implies: Change unix/bsd/bsd4.4 to unix/bsd.
* sysdeps/unix/bsd/syscall.s.list (chflags): Add entry from sysdeps/unix/bsd/bsd4.4/syscall.s.list.
  (fchflags): Likewise.
  (revoke): Likewise.
  (setlogin): Likewise.
  (sigaltstack): Likewise.
  (wait4): Likewise.
  (sigblock): Remove.
  (sigsetmask): Likewise.
  (wait3): Likewise.
  (waitpid): Likewise.
* sysdeps/unix/bsd/bsd4.4/syscall.s.list: Remove file.
* sysdeps/unix/bsd/bsd4.4/Makefile: Move to ...
* sysdeps/unix/bsd/Makefile: ... here.
* sysdeps/unix/bsd/bsd4.4/Version.s: Move to ...
* sysdeps/unix/bsd/Version.s: ... here.
* sysdeps/unix/bsd/bsd4.4/bits/socketadr.h: Move to ...
* sysdeps/unix/bsd/bits/socketadr.h: ... here.
* sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c: Move to ...
* sysdeps/unix/bsd/cmsg_nxthdr.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigblock.c: Move to ...
* sysdeps/unix/bsd/sigblock.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigsetmask.c: Move to ...
* sysdeps/unix/bsd/sigsetmask.c: ... here.
* sysdeps/unix/bsd/bsd4.4/sigvec.c: Move to ...
* sysdeps/unix/bsd/sigvec.c: ... here.
* sysdeps/unix/bsd4.4/tcdrain.c: Move to ...
* sysdeps/unix/bsd/tcdrain.c: ... here.
* sysdeps/unix/bsd4.4/tcgetattr.c: Move to ...
* sysdeps/unix/bsd/tcgetattr.c: ... here.
* sysdeps/unix/bsd4.4/tcsetattr.c: Move to ...
* sysdeps/unix/bsd/tcsetattr.c: ... here.
* sysdeps/unix/bsd4.4/wait.c: Move to ...
* sysdeps/unix/bsd/wait.c: ... here.
* sysdeps/unix/bsd4.4/wait3.c: Move to ...
* sysdeps/unix/bsd/wait3.c: ... here.
* sysdeps/unix/bsd4.4/waitpid.c: Move to ...
* sysdeps/unix/bsd/waitpid.c: ... here.

diff --git a/sysdeps/mach/hurd/Implies b/sysdeps/mach/hurd/Implies
index b6063463ce34f3b7..d2d5234c1fd1522 100644
--- a/sysdeps/mach/hurd/Implies
+++ b/sysdeps/mach/hurd/Implies
@@ -2,4 +2,4 @@
# Hurd-based GNU systems.
gnu
# The Hurd provides a rough superset of the functionality of 4.4 BSD.
-unix/bsd/bsd4.4
+unix/bsd
diff --git a/sysdeps/unix/bsd/bsd4.4/Makefile b/sysdeps/unix/bsd/Makefile
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Makefile
rename to sysdeps/unix/bsd/Makefile
diff --git a/sysdeps/unix/bsd/bsd4.4/Versions b/sysdeps/unix/bsd/Versions
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/Versions
rename to sysdeps/unix/bsd/Versions
diff --git a/sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h b/sysdeps/unix/bsd/bits/sockaddr.h
similarity index 100%
rename from sysdeps/unix/bsd/bsd4.4/bits/sockaddr.h
rename to sysdeps/unix/bsd/bits/sockaddr.h
diff --git a/sysdeps/unix/bsd/bsd4.4/syscalls.list b/sysdeps/unix/bsd/bsd4.4/syscalls.list
deleted file mode 100644
index a4d354685424ac61..0000000000000000
--- a/sysdeps/unix/bsd/bsd4.4/syscalls.list
+++ /dev/null
@@ -1,8 +0,0 @@
-# File nameCullerSyscall name# argsStrong nameWeak names
-
- chflags-chflags2chflags
-fchflags-fchflags2fchflags
-revoke-revoke1revoke
-setlogin-setlogin2setlogin
diff --git a/sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c b/sysdeps/unix/bsd/cmsg_nxthdr.c
rename from sysdeps/unix/bsd/bsd4.4/cmsg_nxthdr.c
rename to sysdeps/unix/bsd/cmsg_nxthdr.c

diff --git a/sysdeps/unix/bsd/bsd4.4/sigblock.c b/sysdeps/unix/bsd/sigblock.c
rename from sysdeps/unix/bsd/bsd4.4/sigblock.c
rename to sysdeps/unix/bsd/sigblock.c

diff --git a/sysdeps/unix/bsd/bsd4.4/sigsetmask.c b/sysdeps/unix/bsd/sigsetmask.c
rename from sysdeps/unix/bsd/bsd4.4/sigsetmask.c
rename to sysdeps/unix/bsd/sigsetmask.c

diff --git a/sysdeps/unix/bsd/bsd4.4/sigvec.c b/sysdeps/unix/bsd/sigvec.c
rename from sysdeps/unix/bsd/bsd4.4/sigvec.c
rename to sysdeps/unix/bsd/sigvec.c

diff --git a/sysdeps/unix/bsd/syscalls.list b/sysdeps/unix/bsd/syscalls.list
index e84819dc1f19d148..9f48a144d475f342 100644
--- a/sysdeps/unix/bsd/syscalls.list
+++ b/sysdeps/unix/bsd/syscalls.list
@@ -1,14 +1,16 @@
# File nameCallerSyscall name# argsStrong nameWeak names

+chflags-chflags2chflags
+fchflags-fchflags2fchflags

getdents-getdirenties4__getdirentiesgetdirenties
getdtsz-getpagesize0__getpagesizegetpagesize
getpagesize-getpagesize0__getpagesizegetpagesize
killpg-killpg2killpg
-sigblock-sigblock1__sigblocksigblock
+revoke-revoke1revoke
+setlogin-setlogin2setlogin
+sigaltstack-sigaltstack2__sigaltstacksigaltstack
+sigpause-sigpause1__sigpausesigpause
-sigsetmask-sigsetmask1__sigsetmasksigsetmask
+sigstack-sigstack2sigstack
+sigvec-sigvec3__sigvecssigvec
-wait3-wait33__wait3wait3
-waitpid-waitpid3__waitpidwaitpid
+wait4-wait44__wait4wait4

diff --git a/sysdeps/unix/bsd/bsd4.4/tcdrain.c b/sysdeps/unix/bsd/tcdrain.c
rename from sysdeps/unix/bsd/bsd4.4/tcdrain.c
rename to sysdeps/unix/bsd/tcdrain.c

diff --git a/sysdeps/unix/bsd/bsd4.4/tcgetattr.c b/sysdeps/unix/bsd/tcgetattr.c
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 * $Id$
 * /

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1.85 jackson-databind 2.9.8

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1.88 jackson-module-paranamer 2.10.2

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1.93 pkg-config 0.27.1 4.el7

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

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1.97 lapack 3.4.2-8
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That's all there is to it!

/*
 * ALSA lisp implementation
 * Copyright (c) 2003 by Jaroslav Kysela <perex@perex.cz>
 *
 * Based on work of Sandro Sigala (slisp-1.2)
 *
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 */
#include <assert.h>

#include <limits.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <ctype.h>
#include <math.h>
#include <err.h>

#define alisp_seq_iterator alisp_object

#include "local.h"
#include "alisp.h"
#include "alisp_local.h"

struct alisp_object alsa_lisp_nil;
struct alisp_object alsa_lisp_t;

/* parser prototypes */
static struct alisp_object * parse_object(struct alisp_instance *instance, int havetoken);
static void princ_cons(snd_output_t *out, struct alisp_object * p);
static void princ_object(snd_output_t *out, struct alisp_object * p);
static struct alisp_object * eval(struct alisp_instance *instance, struct alisp_object * p);

/* functions */
static struct alisp_object *F_eval(struct alisp_instance *instance, struct alisp_object *);
static struct alisp_object *F_progn(struct alisp_instance *instance, struct alisp_object *);
static struct alisp_object *F_funcall(struct alisp_instance *instance, struct alisp_object *);

/* others */
static int alisp_include_file(struct alisp_instance *instance, const char *filename);

/
* object handling
*/

static int get_string_hash(const char *s)
{
    int val = 0;
    if (s == NULL)
        return val;
    while (*s)
        val += *s++;
    return val & ALISP_OBJ_PAIR_HASH_MASK;
}
static void nomem(void)
{
    SNDERR("alisp: no enough memory");
}

static void lisp_verbose(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;

    if (!instance->verbose)
        return;
    va_start(ap, fmt);
    snd_output_printf(instance->vout, "alisp: ");
    snd_output_vprintf(instance->vout, fmt, ap);
    snd_output_putc(instance->vout, '\n');
    va_end(ap);
}

static void lisp_error(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;

    if (!instance->warning)
        return;
    va_start(ap, fmt);
    snd_output_printf(instance->eout, "alisp error: ");
    snd_output_vprintf(instance->eout, fmt, ap);
    snd_output_putc(instance->eout, '\n');
    va_end(ap);
}

static void lisp_warn(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;

    if (!instance->warning)
        return;
    va_start(ap, fmt);
    snd_output_printf(instance->wout, "alisp warning: ");
    snd_output_vprintf(instance->wout, fmt, ap);
    snd_output_putc(instance->wout, '\n');
    va_end(ap);
}

static void lisp_debug(struct alisp_instance *instance, const char *fmt, ...)
{
    va_list ap;

    if (!instance->warning)
        return;
    va_start(ap, fmt);
    snd_output_printf(instance->dout, "alisp debug: ");
    snd_output_vprintf(instance->dout, fmt, ap);
    snd_output_putc(instance->dout, '\n');
    va_end(ap);
}
if (!instance->debug)
    return;
va_start(ap, fmt);
snd_output_printf(instance->dout, "alisp debug: ");
snd_output_vprintf(instance->dout, fmt, ap);
snd_output_putchar(instance->dout, \n);
va_end(ap);
}

static struct alisp_object * new_object(struct alisp_instance *instance, int type)
{
    struct alisp_object * p;

    if (list_empty(&instance->free_objs_list)) {
        p = (struct alisp_object *)malloc(sizeof(struct alisp_object));
        if (p == NULL) {
            nomem();
            return NULL;
        }
        lisp_debug(instance, "allocating cons %p", p);
    } else {
        p = (struct alisp_object *)instance->free_objs_list.next;
        list_del(&p->list);
        instance->free_objs--;
        lisp_debug(instance, "recycling cons %p", p);
    }

    instance->used_objs++;

    alisp_set_type(p, type);
    alisp_set_refs(p, 1);
    if (type == ALISP_OBJ_CONS) {
        p->value.c.car = &alsa_lisp_nil;
        p->value.c.cdr = &alsa_lisp_nil;
        list_add(&p->list, &instance->used_objs_list[ALISP_OBJ_CONS]);
    }

    if (instance->used_objs + instance->free_objs > instance->max_objs)
        instance->max_objs = instance->used_objs + instance->free_objs;

    return p;
}

static void free_object(struct alisp_object * p)
{
    switch (alisp_get_type(p)) {
    case ALISP_OBJ_STRING:
case ALISP_OBJ_IDENTIFIER:
    free(p->value.s);
    alisp_set_type(p, ALISP_OBJ_INTEGER);
    break;
default:
    break;
}
}

static void delete_object(struct alisp_instance *instance, struct alisp_object * p)
{
    if (p == NULL || p == &alsa_lisp_nil || p == &alsa_lisp_t)
        return;
    if (alisp_compare_type(p, ALISP_OBJ_NIL) ||
        alisp_compare_type(p, ALISP_OBJ_T))
        return;
    assert(alisp_get_refs(p) > 0);
    lisp_debug(instance, "delete cons %p (type = %i, refs = %i) (s = '%s')", p, alisp_get_type(p), alisp_get_refs(p),
        alisp_compare_type(p, ALISP_OBJ_STRING) ||
        alisp_compare_type(p, ALISP_OBJ_IDENTIFIER) ? p->value.s : "???");
    if (alisp_dec_refs(p))
        return;
    list_del(&p->list);
    instance->used_objs--;
    free_object(p);
    if (instance->free_objs >= ALISP_FREE_OBJ_POOL) {
        lisp_debug(instance, "freed cons %p", p);
        free(p);
        return;
    }
    lisp_debug(instance, "moved cons %p to free list", p);
    list_add(&p->list, &instance->free_objs_list);
    instance->free_objs++;
}

static void delete_tree(struct alisp_instance *instance, struct alisp_object * p)
{
    if (p == NULL)
        return;
    if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
        delete_tree(instance, p->value.c.car);
        delete_tree(instance, p->value.c.cdr);
    }
    delete_object(instance, p);
}

static struct alisp_object * incref_object(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * p)
if (p == NULL || p == &alsa_lisp_nil || p == &alsa_lisp_t)
  return p;
if (alisp_get_refs(p) == ALISP_MAX_REFS) {
  assert(0);
  fprintf(stderr, "OOPS: alsa lisp: incref fatal error\n");
  exit(EXIT_FAILURE);
}
alisp_inc_refs(p);
return p;
}

static struct alisp_object * incref_tree(struct alisp_instance *instance, struct alisp_object * p)
{
  if (p == NULL)
    return NULL;
  if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
    incref_tree(instance, p->value.c.car);
    incref_tree(instance, p->value.c.cdr);
  }
  return incref_object(instance, p);
}

#if 0
static struct alisp_object * incref_tree_explicit(struct alisp_instance *instance, struct alisp_object * p, struct alisp_object * e)
{
  if (p == NULL)
    return NULL;
  if (alisp_compare_type(p, ALISP_OBJ_CONS)) {
    if (e == p) {
      incref_tree(instance, p->value.c.car);
      incref_tree(instance, p->value.c.cdr);
    } else {
      incref_tree_explicit(instance, p->value.c.car, e);
      incref_tree_explicit(instance, p->value.c.cdr, e);
    }
  }
  if (e == p)
    return incref_object(instance, p);
  return p;
} #endif

static void free_objects(struct alisp_instance *instance)
{

for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {
    list_for_each_safe(pos, pos1, &instance->setobjs_list[i]) {
        pair = list_entry(pos, struct alisp_object_pair, list);
        lisp_debug(instance, "freeing pair: '%s' -> %p", pair->name, pair->value);
        delete_tree(instance, pair->value);
        free((void *)pair->name);
        free(pair);
    }
}
for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++)
for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++) {
    list_for_each_safe(pos, pos1, &instance->used_objs_list[i][j]) {
        p = list_entry(pos, struct alisp_object, list);
        lisp_warn(instance, "object %p is still referenced %i times!", p, alisp_get_refs(p));
        if (alisp_get.refs(p))
            alisp_set_refs(p, 1);
        delete_object(instance, p);
    }
}
list_for_each_safe(pos, pos1, &instance->free_objs_list) {
    p = list_entry(pos, struct alisp_object, list);
    list_del(&p->list);
    free(p);
    lisp_debug(instance, "freed (all) cons %p", p);
}

static struct alisp_object * search_object_identifier(struct alisp_instance *instance, const char *s) {
    struct list_head * pos;
    struct alisp_object * p;
    list_for_each(pos, &instance->used_objs_list[get_string_hash(s)][ALISP_OBJ_IDENTIFIER]) {
        p = list_entry(pos, struct alisp_object, list);
        if (alisp_get.refs(p) > ALISP_MAX_REFS_LIMIT)
            continue;
        if (!strcmp(p->value.s, s))
            return incref_object(instance, p);
static struct alisp_object * search_object_string(struct alisp_instance *instance, const char *s) {
  struct list_head * pos;
  struct alisp_object * p;

  list_for_each(pos, &instance->used_objs_list[get_string_hash(s)][ALISP_OBJ_STRING]) {
    p = list_entry(pos, struct alisp_object, list);
    if (!strcmp(p->value.s, s)) {
      if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
        continue;
      return incref_object(instance, p);
    }
  }

  return NULL;
}

static struct alisp_object * search_object_integer(struct alisp_instance *instance, long in) {
  struct list_head * pos;
  struct alisp_object * p;

  list_for_each(pos, &instance->used_objs_list[in & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_INTEGER]) {
    p = list_entry(pos, struct alisp_object, list);
    if (p->value.i == in) {
      if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
        continue;
      return incref_object(instance, p);
    }
  }

  return NULL;
}

static struct alisp_object * search_object_float(struct alisp_instance *instance, double in) {
  struct list_head * pos;
  struct alisp_object * p;

  list_for_each(pos, &instance->used_objs_list[(long)in & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_FLOAT]) {
    p = list_entry(pos, struct alisp_object, list);
    if (!fcmp(p->value.f, in)) {
      if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
        continue;
      return incref_object(instance, p);
    }
  }

  return NULL;
}
if (p->value.i == in) {
    if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
        continue;
    return incref_object(instance, p);
}
}

return NULL;
}

static struct alisp_object * search_object_pointer(struct alisp_instance *instance, const void *ptr)
{
    struct list_head * pos;
    struct alisp_object * p;

    list_for_each(pos, &instance->used_objs_list[(long)ptr & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_POINTER]) {
        p = list_entry(pos, struct alisp_object, list);
        if (p->value.ptr == ptr) {
            if (alisp_get_refs(p) > ALISP_MAX_REFS_LIMIT)
                continue;
            return incref_object(instance, p);
        }
    }
    return NULL;
}

static struct alisp_object * new_integer(struct alisp_instance *instance, long value)
{
    struct alisp_object * obj;

    obj = search_object_integer(instance, value);
    if (obj != NULL)
        return obj;
    obj = new_object(instance, ALISP_OBJ_INTEGER);
    if (obj) {
        list_add(&obj->list, &instance->used_objs_list[value & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_INTEGER]);
        obj->value.i = value;
    }
    return obj;
}

static struct alisp_object * new_float(struct alisp_instance *instance, double value)
{
    struct alisp_object * obj;

```c
obj = search_object_float(instance, value);
if (obj != NULL)
    return obj;
obj = new_object(instance, ALISP_OBJ_FLOAT);
if (obj) {
    list_add(&obj->list, &instance->used_objs_list[(long)value & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_FLOAT]);
    obj->value.f = value;
}
return obj;

static struct alisp_object * new_string(struct alisp_instance *instance, const char *str)
{
    struct alisp_object * obj;

    obj = search_object_string(instance, str);
    if (obj != NULL)
        return obj;
    obj = new_object(instance, ALISP_OBJ_STRING);
    if (obj)
        list_add(&obj->list, &instance->used_objs_list[get_string_hash(str)][ALISP_OBJ_STRING]);
    if (obj && (obj->value.s = strdup(str)) == NULL) {
        delete_object(instance, obj);
        nomem();
        return NULL;
    }
    return obj;
}

static struct alisp_object * new_identifier(struct alisp_instance *instance, const char *id)
{
    struct alisp_object * obj;

    obj = search_object_identifier(instance, id);
    if (obj != NULL)
        return obj;
    obj = new_object(instance, ALISP_OBJ_IDENTIFIER);
    if (obj)
        list_add(&obj->list, &instance->used_objs_list[get_string_hash(id)][ALISP_OBJ_IDENTIFIER]);
    if (obj && (obj->value.s = strdup(id)) == NULL) {
        delete_object(instance, obj);
        nomem();
        return NULL;
    }
    return obj;
}
```
static struct alisp_object * new_pointer(struct alisp_instance *instance, const void *ptr)
{
    struct alisp_object * obj;

    obj = search_object_pointer(instance, ptr);
    if (obj != NULL)
        return obj;
    obj = new_object(instance, ALISP_OBJ_POINTER);
    if (obj)
    {
        list_add(&obj->list, &instance->used_objs_list[(long)ptr & ALISP_OBJ_PAIR_HASH_MASK][ALISP_OBJ_POINTER]);
        obj->value.ptr = ptr;
    }
    return obj;
}

static struct alisp_object * new_cons_pointer(struct alisp_instance * instance, const char *ptr_id, void *ptr)
{
    struct alisp_object * lexpr;

    if (ptr == NULL)
        return &alsa_lisp_nil;
    lexpr = new_object(instance, ALISP_OBJ_CONS);
    if (lexpr == NULL)
        return NULL;
    lexpr->value.c.car = new_string(instance, ptr_id);
    if (lexpr->value.c.car == NULL)
        goto __end;
    lexpr->value.c.cdr = new_pointer(instance, ptr);
    if (lexpr->value.c.cdr == NULL) {
        delete_object(instance, lexpr->value.c.car);
        __end:
        delete_object(instance, lexpr);
        return NULL;
    }
    return lexpr;
}

void alsa_lisp_init_objects(void) __attribute__ ((constructor));

void alsa_lisp_init_objects(void)
{
    memset(&alsa_lisp_nil, 0, sizeof(alsa_lisp_nil));
    alisp_set_type(&alsa_lisp_nil, ALISP_OBJ_NIL);
    INIT_LIST_HEAD(&alsa_lisp_nil.list);
    memset(&alsa_lisp_t, 0, sizeof(alsa_lisp_t));
    alisp_set_type(&alsa_lisp_t, ALISP_OBJ_T);
    INIT_LIST_HEAD(&alsa_lisp_t.list);
static int xgetc(struct alisp_instance *instance)
{
    instance->charno++;
    if (instance->lex_bufp > instance->lex_buf)
        return *--(instance->lex_bufp);
    return snd_input_getc(instance->in);
}

static inline void xungetc(struct alisp_instance *instance, int c)
{
    *(instance->lex_bufp)++ = c;
    instance->charno--;
}

static int init_lex(struct alisp_instance *instance)
{
    instance->charno = instance->lineno = 1;
    instance->token_buffer_max = 10;
    if ((instance->token_buffer = (char *)malloc(instance->token_buffer_max)) == NULL) {
        nomem();
        return -ENOMEM;
    }
    instance->lex_bufp = instance->lex_buf;
    return 0;
}

static void done_lex(struct alisp_instance *instance)
{
    free(instance->token_buffer);
}

static char * extend_buf(struct alisp_instance *instance, char *p)
{
    int off = p - instance->token_buffer;

    instance->token_buffer_max += 10;
    instance->token_buffer = (char*)realloc(instance->token_buffer, instance->token_buffer_max);
    if (instance->token_buffer == NULL) {
        nomem();
        return NULL;
    }
return instance->token_buffer + off;
}

static int gettoken(struct alisp_instance *instance)
{
    char *p;
    int c;

    for (;;) {
        c = xgetc(instance);
        switch (c) {
        case '\n':
            ++instance->lineno;
            break;
        case ' ': case '\f': case '\t': case '\v': case '\r':
            break;
        case ';':
            /* Comment: ";". */
            while ((c = xgetc(instance)) != '\n' && c != EOF)
                ;
            if (c != EOF)
                ++instance->lineno;
            break;
        case '?':
            /* Character: "?". */
            c = xgetc(instance);
            sprintf(instance->token_buffer, "%d", c);
            return instance->thistoken = ALISP_INTEGER;
        case '-':
            /* Minus sign: "-". */
            c = xgetc(instance);
            if (!isdigit(c)) {
                xungetc(instance, c);
                c = '-';
            }
            goto got_id;
        }
        xungetc(instance, c);
        c = '-';
        /* FALLTHRU */
    }

    case '0':
    case '1': case '2': case '3':
    case '4': case '5': case '6':
    case '7': case '8': case '9':
/* Integer: [0-9]+ */
p = instance->token_buffer;
instance->thistoken = ALISP_INTEGER;
do {
    __ok:
    if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
        p = extend_buf(instance, p);
        if (p == NULL)
            return instance->thistoken = EOF;
    }
    *p++ = c;
    c = xgetc(instance);
    if (c == '.' && instance->thistoken == ALISP_INTEGER) {
        c = xgetc(instance);
        xungetc(instance, c);
        if (isdigit(c)) {
            instance->thistoken = ALISP_FLOAT;
            c = '.';
            goto __ok;
        } else {
            c = '.';
            goto __ok;
        }
    } else if (c == 'e' && instance->thistoken == ALISP_FLOAT) {
        c = xgetc(instance);
        if (isdigit(c)) {
            instance->thistoken = ALISP_FLOAT;
            goto __ok;
        }
    }
    while (isdigit(c));
    xungetc(instance, c);
    *p = '\0';
     return instance->thistoken;
}

got_id:
case '!': case '_': case '+': case '*': case '/': case '%':
case '<': case '>': case '=': case '&':
case 'a': case 'b': case 'c': case 'd': case 'e': case 'f':
case 'g': case 'h': case 'i': case 'j': case 'k': case 'l':
case 'm': case 'n': case 'o': case 'p': case 'q': case 'r':
case 's': case 't': case 'u': case 'v': case 'w': case 'x':
case 'y': case 'z':
case 'A': case 'B': case 'C': case 'D': case 'E': case 'F':
case 'G': case 'H': case 'I': case 'J': case 'K': case 'L':
case 'M': case 'N': case 'O': case 'P': case 'Q': case 'R':
case 'S': case 'T': case 'U': case 'V': case 'W': case 'X':
case 'Y': case 'Z':
/* Identifier: [!-/+*%<>=&a-zA-Z_][-/+*%<>=&a-zA-Z_0-9]* */
p = instance->token_buffer;
do {
if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
p = extend_buf(instance, p);
if (p == NULL)
return instance->thistoken = EOF;
}
*p++ = c;
c = xgetc(instance);
} while (isalnum(c) || strchr("!_-+/*%<>=&", c) != NULL);
xungetc(instance, c);
*p = '0';
return instance->thistoken = ALISP_IDENTIFIER;

case '"':
/* String: ""("[^\"]|\\\")\" */
p = instance->token_buffer;
while ((c = xgetc(instance)) != '"' && c != EOF) {
if (p - instance->token_buffer >= instance->token_buffer_max - 1) {
p = extend_buf(instance, p);
if (p == NULL)
return instance->thistoken = EOF;
}
if (c == '\') {
if (c == '\n') {
++instance->lineno; c = xgetc(instance);
switch (c) {
case '\n': ++instance->lineno; break;
case 'a': *p++ = '\a'; break;
case 'b': *p++ = '\b'; break;
case 'f': *p++ = '\f'; break;
case 'n': *p++ = '\n'; break;
case 'r': *p++ = '\r'; break;
case 't': *p++ = '\t'; break;
case 'v': *p++ = '\v'; break;
default: *p++ = c;
} }
}
else {
if (c == '\n') {
++instance->lineno;
*p++ = c;
}
}
*p = '0';
return instance->thistoken = ALISP_STRING;

default:
return instance->thistoken = c;
}
static struct alisp_object * parse_form(struct alisp_instance *instance)
{
    int thistoken;
    struct alisp_object * p, * first = NULL, * prev = NULL;

    while ((thistoken = gettoken(instance)) != ')' && thistoken != EOF) {
        /*
         * Parse a dotted pair notation.
         */
        if (thistoken == '.') {
            gettoken(instance);
            if (prev == NULL) {
                lisp_error(instance, "unexpected ".");
                __err:
                delete_tree(instance, first);
                return NULL;
            }
            prev->value.c.cdr = parse_object(instance, 1);
            if (prev->value.c.cdr == NULL)
                goto __err;
            if ((thistoken = gettoken(instance)) != ')') {
                lisp_error(instance, "expected ")");
                goto __err;
            }
            break;
        }
        p = new_object(instance, ALISP_OBJ_CONS);
        if (p == NULL)
            goto __err;
        if (first == NULL)
            first = p;
        if (prev != NULL)
            prev->value.c.cdr = p;
        p->value.c.car = parse_object(instance, 1);
        if (p->value.c.car == NULL)
            goto __err;
        prev = p;
    }
}
static struct alisp_object * quote_object(struct alisp_instance *instance, struct alisp_object * obj)
{
    struct alisp_object * p;

    if (obj == NULL)
        goto __end1;

    p = new_object(instance, ALISP_OBJ_CONS);
    if (p == NULL)
        goto __end1;

    p->value.c.car = new_identifier(instance, "quote");
    if (p->value.c.car == NULL)
        goto __end;

    p->value.c.cdr = new_object(instance, ALISP_OBJ_CONS);
    if (p->value.c.cdr == NULL) {
        delete_object(instance, p->value.c.car);
        __end:
        delete_object(instance, p);
        __end1:
        delete_tree(instance, obj);
        return NULL;
    }

    p->value.c.cdr->value.c.car = obj;
    return p;
}

static inline struct alisp_object * parse_quote(struct alisp_instance *instance)
{
    return quote_object(instance, parse_object(instance, 0));
}

static struct alisp_object * parse_object(struct alisp_instance *instance, int havetoken)
{
    int thistoken;
    struct alisp_object * p = NULL;

    if (!havetoken)
        thistoken = gettoken(instance);
else
thistoken = instance->thistoken;

switch (thistoken) {
case EOF:
break;
case '(':
p = parse_form(instance);
break;
case '\':
p = parse_quote(instance);
break;
case ALISP_IDENTIFIER:
if (!strcmp(instance->token_buffer, "t"))
p = &alsa_lisp_t;
else if (!strcmp(instance->token_buffer, "nil"))
p = &alsa_lisp_nil;
else {
p = new_identifier(instance, instance->token_buffer);
} 
break;
case ALISP_INTEGER:
} 
case ALISP_FLOAT:
case ALISP_FLOATE: {
p = new_float(instance, atof(instance->token_buffer));
break;
}
case ALISP_STRING:
p = new_string(instance, instance->token_buffer);
break;
default:
lisp_warn(instance, "%d:%d: unexpected character `%c'", instance->lineno, instance->charno, thistoken);
break;
}

return p;
}

/*
 * object manipulation
 */

static struct alisp_object_pair * set_object_direct(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * value){
struct alisp_object_pair *p;
const char *id;

id = name->value.s;
p = (struct alisp_object_pair *)malloc(sizeof(struct alisp_object_pair));
if (p == NULL) {
  nomem();
  return NULL;
}
p->name = strdup(id);
if (p->name == NULL) {
  delete_tree(instance, value);
  free(p);
  return NULL;
}
list_add(&p->list, &instance->setobjs_list[get_string_hash(id)]);
p->value = value;
return p;

static int check_set_object(struct alisp_instance * instance, struct alisp_object * name)
{
  if (name == &alsa_lisp_nil) {
    lisp_warn(instance, "setting the value of a nil object");
    return 0;
  }
  if (name == &alsa_lisp_t) {
    lisp_warn(instance, "setting the value of a t object");
    return 0;
  }
  if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
      !alisp_compare_type(name, ALISP_OBJ_STRING)) {
    lisp_warn(instance, "setting the value of an object with non-identifier");
    return 0;
  }
  return 1;
}

static struct alisp_object_pair * set_object(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * value)
{
  struct list_head *pos;
  struct alisp_object_pair *p;
  const char *id;

  if (name == NULL || value == NULL)
    return NULL;
id = name->value.s;

list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
    p = list_entry(pos, struct alisp_object_pair, list);
    if (!strcmp(p->name, id)) {
        delete_tree(instance, p->value);
        p->value = value;
        return p;
    }
}

p = (struct alisp_object_pair *)malloc(sizeof(struct alisp_object_pair));
if (p == NULL) {
    nomem();
    return NULL;
}
p->name = strdup(id);
if (p->name == NULL) {
    delete_tree(instance, value);
    free(p);
    return NULL;
}
list_add(&p->list, &instance->setobjs_list[get_string_hash(id)]);
p->value = value;
return p;
}

static struct alisp_object * unset_object(struct alisp_instance *instance, struct alisp_object * name) {
    struct list_head *pos;
    struct alisp_object *res;
    struct alisp_object_pair *p;
    const char *id;

    if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
        !alisp_compare_type(name, ALISP_OBJ_STRING)) {
        lisp_warn(instance, "unset object with a non-indentifier");
        return &alsa_lisp_nil;
    }
    id = name->value.s;

    list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
        p = list_entry(pos, struct alisp_object_pair, list);
        if (!strcmp(p->name, id)) {
            list_del(&p->list);
            res = p->value;
            free((void *)p->name);
            free(p);
        }
    }
return res;
}
}
return &alsa_lisp_nil;
}

static struct alisp_object * get_object1(struct alisp_instance *instance, const char *id)
{
    struct alisp_object_pair *p;
    struct list_head *pos;

    list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
        p = list_entry(pos, struct alisp_object_pair, list);
        if (!strcmp(p->name, id))
            return p->value;
    }

    return &alsa_lisp_nil;
}

static struct alisp_object * get_object(struct alisp_instance *instance, struct alisp_object * name)
{
    if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
        !alisp_compare_type(name, ALISP_OBJ_STRING)) {
        delete_tree(instance, name);
        return &alsa_lisp_nil;
    }
    return get_object1(instance, name->value.s);
}

static struct alisp_object * replace_object(struct alisp_instance *instance, struct alisp_object * name, struct alisp_object * onew)
{
    struct alisp_object_pair *p;
    struct alisp_object *r;
    struct list_head *pos;
    const char *id;

    if (!alisp_compare_type(name, ALISP_OBJ_IDENTIFIER) &&
        !alisp_compare_type(name, ALISP_OBJ_STRING)) {
        delete_tree(instance, name);
        return &alsa_lisp_nil;
    }
    id = name->value.s;
    list_for_each(pos, &instance->setobjs_list[get_string_hash(id)]) {
        p = list_entry(pos, struct alisp_object_pair, list);
        if (!strcmp(p->name, id)) {
            // Replace the object
            // Perform the replacement logic here
        }
    }
r = p->value;
p->value = onew;
return r;
}

return NULL;
}

static void dump_objects(struct alisp_instance *instance, const char *fname)
{
struct alisp_object_pair *p;
snd_output_t *out;
struct list_head *pos;
int i, err;

if (!strcmp(fname, "-"))
err = snd_output_stdio_attach(&out, stdout, 0);
else
err = snd_output_stdio_open(&out, fname, "w+");
if (err < 0) {
SNDERR("alisp: cannot open file '%s' for writing (%s)", fname, snd_strerror(errno));
return;
}

for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++) {
list_for_each(pos, &instance->setobjs_list[i]) {
p = list_entry(pos, struct alisp_object_pair, list);
if (alisp_compare_type(p->value, ALISP_OBJ_CONS) &&
alisp_compare_type(p->value->value.c.car, ALISP_OBJ_IDENTIFIER) &&
!strcmp(p->value->value.c.car->value.s, "lambda")) {
snd_output_printf(out, "(defun %s \n", p->name);
princ_cons(out, p->value->value.c.cdr);
snd_output_printf(out, ")\n")
continue;
}
snd_output_printf(out, "(setq %s \n", p->name);
princ_object(out, p->value);
snd_output_printf(out, ")\n")
}
snd_output_close(out);
}

static const char *obj_type_str(struct alisp_object *p)
{
switch (alisp_get_type(p)) {
case ALISP_OBJ_NIL: return "nil";

case ALISP_OBJ_T: return "t";
  case ALISP_OBJ_INTEGER: return "integer";
  case ALISP_OBJ_FLOAT: return "float";
  case ALISP_OBJ_IDENTIFIER: return "identifier";
  case ALISP_OBJ_STRING: return "string";
  case ALISP_OBJ_POINTER: return "pointer";
  case ALISP_OBJ_CONS: return "cons";
  default: assert(0);
  }
  }

static void print_obj_lists(struct alisp_instance *instance, snd_output_t *out)
{
  struct list_head *pos;
  struct alisp_object * p;
  int i, j;

  snd_output_printf(out, "** used objects\n");
  for (i = 0; i < ALISP_OBJ_PAIR_HASH_SIZE; i++)
    for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++)
      list_for_each(pos, &instance->used_objs_list[i][j]) {
        p = list_entry(pos, struct alisp_object, list);
        snd_output_printf(out, "** %p (%s) (", p, obj_type_str(p));
        if (!alisp_compare_type(p, ALISP_OBJ_CONS))
          princ_object(out, p);
        else
          snd_output_printf(out, "cons");
        snd_output_printf(out, " refs=%i\n", alisp_get_refs(p));
      }
  snd_output_printf(out, "** free objects\n");
  list_for_each(pos, &instance->free_objs_list) {
    p = list_entry(pos, struct alisp_object, list);
    snd_output_printf(out, "** %p\n", p);
  }

static void dump_obj_lists(struct alisp_instance *instance, const char *fname)
{
  snd_output_t *out;
  int err;

  if (!strcmp(fname, "-"))
    err = snd_output_stdio_attach(&out, stdout, 0);
  else
    err = snd_output_stdio_open(&out, fname, "w+");
  if (err < 0) {
    SNDERR("alisp: cannot open file '%s' for writing (%s", fname, snd_strerror(erno));
    return;
  }

  /* print used objects */
  list_for_each(pos, &instance->used_objs_list) {
    p = list_entry(pos, struct alisp_object, list);
    snd_output_printf(out, "** %p (%s) (", p, obj_type_str(p));
    if (!alisp_compare_type(p, ALISP_OBJ_CONS))
      princ_object(out, p);
    else
      snd_output_printf(out, "cons");
    snd_output_printf(out, " refs=%i\n", alisp_get_refs(p));
  }
  snd_output_printf(out, "** free objects\n");
  list_for_each(pos, &instance->free_objs_list) {
    p = list_entry(pos, struct alisp_object, list);
    snd_output_printf(out, "** %p\n", p);
  }
  snd_output_printf(out, "\n");

  /* print free objects */
  list_for_each(pos, &instance->free_objs_list) {
    p = list_entry(pos, struct alisp_object, list);
    snd_output_printf(out, "** %p\n", p);
  }

  /* print all objects */
  list_for_each(pos, &instance->used_objs_list) {
    p = list_entry(pos, struct alisp_object, list);
    snd_output_printf(out, "** %p (%s) (", p, obj_type_str(p));
    if (!alisp_compare_type(p, ALISP_OBJ_CONS))
      princ_object(out, p);
    else
      snd_output_printf(out, "cons");
    snd_output_printf(out, " refs=%i\n", alisp_get_refs(p));
  }
  list_for_each(pos, &instance->free_objs_list) {
    p = list_entry(pos, struct alisp_object, list);
    snd_output_printf(out, "** %p\n", p);
  }
print_obj_lists(instance, out);

snd_output_close(out);
}

/*
 * functions
 */

static int count_list(struct alisp_object * p)
{
    int i = 0;

    while (p != &alsa_lisp_nil && alisp_compare_type(p, ALISP_OBJ_CONS)) {
        p = p->value.c.cdr;
        ++i;
    }
    return i;
}

static inline struct alisp_object * car(struct alisp_object * p)
{
    if (alisp_compare_type(p, ALISP_OBJ_CONS))
        return p->value.c.car;
    return &alsa_lisp_nil;
}

static inline struct alisp_object * cdr(struct alisp_object * p)
{
    if (alisp_compare_type(p, ALISP_OBJ_CONS))
        return p->value.c.cdr;
    return &alsa_lisp_nil;
}

/*
 * Syntax: (car expr)
 */
static struct alisp_object * F_car(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object *p1 = car(args), *p2;
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    p1 = eval(instance, p1);
delete_tree(instance, cdr(p1));
p2 = car(p1);
delete_object(instance, p1);
return p2;
}

/*
 * Syntax: (cdr expr)
 */
static struct alisp_object * F_cdr(struct alisp_instance *instance, struct alisp_object * args)
{
 struct alisp_object *p1 = car(args), *p2;
delete_tree(instance, cdr(args));
delete_object(instance, args);
p1 = eval(instance, p1);
delete_tree(instance, car(p1));
p2 = cdr(p1);
delete_object(instance, p1);
return p2;
}

/*
 * Syntax: (+ expr...)
 */
static struct alisp_object * F_add(struct alisp_instance *instance, struct alisp_object * args)
{
 struct alisp_object * p = args, * p1, * n;
 long v = 0;
 double f = 0;
 int type = ALISP_OBJ_INTEGER;

 p1 = eval(instance, car(p));
 for (;;) {
 if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
 if (type == ALISP_OBJ_FLOAT)
 f += p1->value.i;
 else
 v += p1->value.i;
 } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
 f += p1->value.f + v;
 v = 0;
 type = ALISP_OBJ_FLOAT;
 } else {
 lisp_warn(instance, "sum with a non integer or float operand");
 }
 delete_tree(instance, p1);
p = cdr(n = p);
delete_object(instance, n);
if (p == &alsa_lisp_nil)
break;
p1 = eval(instance, car(p));  
}
if (type == ALISP_OBJ_INTEGER) {
return new_integer(instance, v);
} else {
return new_float(instance, f);
}
}

/*
 * Syntax: (concat expr...)
 */
static struct alisp_object * F_concat(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1, * n;
char *str = NULL, *str1;
p1 = eval(instance, car(p));
for (;;) {
if (alisp_compare_type(p1, ALISP_OBJ_STRING)) {
str1 = realloc(str, (str ? strlen(str) : 0) + strlen(p1->value.s) + 1);
if (str1 == NULL) {
nomem();
free(str);
return NULL;
}
if (str == NULL)
strcpy(str1, p1->value.s);
else
strcat(str1, p1->value.s);
str = str1;
} else {
lisp_warn(instance, "concat with a non string or identifier operand");
}
delete_tree(instance, p1);
p = cdr(n = p);
delete_object(instance, n);
if (p == &alsa_lisp_nil)
break;
p1 = eval(instance, car(p));
}
if (str) {
p = new_string(instance, str);
free(str);
} else {
p = &alsa_lisp_nil;
}
static struct alisp_object * F_sub(struct alisp_instance *instance, struct alisp_object *args)
{
    struct alisp_object * p = args, * p1, * n;
    long v = 0;
    double f = 0;
    int type = ALISP_OBJ_INTEGER;

    do {
        p1 = eval(instance, car(p));
        if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
            if (p == args && cdr(p) != &alsa_lisp_nil) {
                v = p1->value.i;
            } else {
                if (type == ALISP_OBJ_FLOAT)
                    f -= p1->value.i;
                else
                    v -= p1->value.i;
            }
        } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
            if (type == ALISP_OBJ_INTEGER) {
                f = v;
                type = ALISP_OBJ_FLOAT;
            } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
                if (type == ALISP_OBJ_INTEGER) {
                    f = v;
                } else if (p == args && cdr(p) != &alsa_lisp_nil)
                    f = p1->value.f;
                else {
                    f -= p1->value.f;
                }
            } else
                lisp_warn(instance, "difference with a non integer or float operand");
        delete_tree(instance, p1);
        n = cdr(p);
        delete_object(instance, p);
        p = n;
    } while (p != &alsa_lisp_nil);

    if (type == ALISP_OBJ_INTEGER) {
        return new_integer(instance, v);
    } else {
        return new_float(instance, f);
    }
}
static struct alisp_object * F_mul(struct alisp_instance *instance, struct alisp_object * args) {
    struct alisp_object * p = args, * p1, * n;
    long v = 1;
    double f = 1;
    int type = ALISP_OBJ_INTEGER;
    do {
        p1 = eval(instance, car(p));
        if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
            if (type == ALISP_OBJ_FLOAT)
                f *= p1->value.i;
            else
                v *= p1->value.i;
        } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
            f *= p1->value.f * v; v = 1;
            type = ALISP_OBJ_FLOAT;
        } else {
            lisp_warn(instance, "product with a non integer or float operand");
        }
        delete_tree(instance, p1);
        n = cdr(p);
        delete_object(instance, p);
        p = n;
    } while (p != &alsa_lisp_nil);
    if (type == ALISP_OBJ_INTEGER) {
        return new_integer(instance, v);
    } else {
        return new_float(instance, f);
    }
}

static struct alisp_object * F_div(struct alisp_instance *instance, struct alisp_object * args) {
    struct alisp_object * p = args, * p1, * n;
    long v = 0;
    double f = 0;
    int type = ALISP_OBJ_INTEGER;
    do {
        p1 = eval(instance, car(p));
        if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
            if (type == ALISP_OBJ_FLOAT)
                f *= p1->value.i;
            else
                v *= p1->value.i;
        } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
            f *= p1->value.f * v; v = 1;
            type = ALISP_OBJ_FLOAT;
        } else {
            lisp_warn(instance, "product with a non integer or float operand");
        }
        delete_tree(instance, p1);
        n = cdr(p);
        delete_object(instance, p);
        p = n;
    } while (p != &alsa_lisp_nil);
    if (type == ALISP_OBJ_INTEGER) {
        return new_integer(instance, v);
    } else {
        return new_float(instance, f);
    }
}
do {
    p1 = eval(instance, car(p));
    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
        if (p == args && cdr(p) != &alsa_lisp_nil) {
            v = p1->value.i;
        } else {
            if (p1->value.i == 0) {
                lisp_warn(instance, "division by zero");
                v = 0;
                f = 0;
                break;
            } else {
                if (type == ALISP_OBJ_FLOAT)
                    f /= p1->value.i;
                else
                    v /= p1->value.i;
            }
        } else if (alisp_compare_type(p1, ALISP_OBJ_FLOAT)) {
            if (type == ALISP_OBJ_INTEGER) {
                f = v;
                type = ALISP_OBJ_FLOAT;
            } if (p == args && cdr(p) != &alsa_lisp_nil) {
                f = p1->value.f;
            } else {
                if (p1->value.f == 0) {
                    lisp_warn(instance, "division by zero");
                    f = 0;
                    break;
                } else {
                    f /= p1->value.i;
                }
            } else {
                lisp_warn(instance, "quotient with a non integer or float operand");
                delete_tree(instance, p1);
                n = cdr(p);
                delete_object(instance, p);
                p = n;
            } while (p != &alsa_lisp_nil);
        } else {
            lisp_warn(instance, "quotient with a non integer or float operand");
            delete_tree(instance, p1);
            n = cdr(p);
            delete_object(instance, p);
            p = n;
        } while (p != &alsa_lisp_nil);
        if (type == ALISP_OBJ_INTEGER) {
            return new_integer(instance, v);
        } else {
            return new_float(instance, f);
        }
    }
}
/ * Syntax: (% expr1 expr2) */
static struct alisp_object * F_mod(struct alisp_instance *instance, struct alisp_object * args) {
    struct alisp_object * p1, * p2, * p3;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p2->value.i == 0) {
            lisp_warn(instance, "module by zero");
            p3 = new_integer(instance, 0);
        } else {
            p3 = new_integer(instance, p1->value.i % p2->value.i);
        }
    } else if (((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
        (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p2, ALISP_OBJ_FLOAT)))) {
        double f1, f2;
        f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
        f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
        f1 = fmod(f1, f2);
        if (f1 == EDOM) {
            lisp_warn(instance, "module by zero");
            p3 = new_float(instance, 0);
        } else {
            p3 = new_float(instance, f1);
        }
    } else {
        lisp_warn(instance, "module with a non integer or float operand");
        delete_tree(instance, p1);
        delete_tree(instance, p2);
        return &alsa_lisp_nil;
    }

    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return p3;
/* Syntax: (< expr1 expr2) */

static struct alisp_object * F_lt(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i < p2->value.i) {
            __true:
            delete_tree(instance, p1);
            delete_tree(instance, p2);
            return &alsa_lisp_t;
        }
    } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
                alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
              (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
                alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
          double f1, f2;
          f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
          f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
          if (f1 < f2)
              goto __true;
        } else {
            lisp_warn(instance, "comparison with a non integer or float operand");
        }

    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
}

/*
 * Syntax: (> expr1 expr2)
 */

static struct alisp_object * F_gt(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i > p2->value.i) {
            __true:
            delete_tree(instance, p1);
            delete_tree(instance, p2);
            return &alsa_lisp_t;
        }
    } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
                alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
              (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
                alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
          double f1, f2;
          f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
          f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
          if (f1 > f2)
              goto __true;
        } else {
            lisp_warn(instance, "comparison with a non integer or float operand");
        }

    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
}
delete_tree(instance, cdr(cdr(args)));  
delete_object(instance, cdr(cdr(args)));  
delete_object(instance, args);

if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
    alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
    if (p1->value.i > p2->value.i) {
        __true:
        delete_tree(instance, p1);
        delete_tree(instance, p2);
        return &alsa_lisp_t;
    }

} else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
    (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
    double f1, f2;
    f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
    f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
    if (f1 > f2)
        goto __true;
    } else {
        lisp_warn(instance, "comparison with a non integer or float operand");
    }

    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
}

/*
 * Syntax: (<= expr1 expr2)
 */
static struct alisp_object * F_le(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));  
delete_tree(instance, cdr(cdr(args)));  
delete_object(instance, cdr(args));  
delete_object(instance, args);

    if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
        alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
        if (p1->value.i <= p2->value.i) {
            __true:
            delete_tree(instance, p1);  
    }
delete_tree(instance, p2);
return &alsa_lisp_t;
}
} else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
        (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
        alisp_compare_type(p2, ALISP_OBJ_FLOAT))){
double f1, f2;
f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
if (f1 <= f2)
  goto __true;
} else {
lisp_warn(instance, "comparison with a non integer or float operand");
}
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
 * Syntax: (>= expr1 expr2)
 */
static struct alisp_object * F_ge(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p1, * p2;

  p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

  if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
      alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
    if (p1->value.i >= p2->value.i) {
      __true:
      delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_t;
    }
  } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
      alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
      (alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
      alisp_compare_type(p2, ALISP_OBJ_FLOAT))){
double f1, f2;
f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
if (f1 >= f2)
goto __true;
} else {
lisp_warn(instance, "comparison with a non integer or float operand");
}
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
 * Syntax: (= expr1 expr2)
 */
static struct alisp_object * F_numeq(struct alisp_instance *instance, struct alisp_object * args)
{
 struct alisp_object * p1, * p2;

 p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

 if (alisp_compare_type(p1, ALISP_OBJ_INTEGER) &&
     alisp_compare_type(p2, ALISP_OBJ_INTEGER)) {
 if (p1->value.i == p2->value.i) {
     __true:
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_t;
 }
 } else if ((alisp_compare_type(p1, ALISP_OBJ_INTEGER) ||
    alisp_compare_type(p1, ALISP_OBJ_FLOAT)) &&
(alisp_compare_type(p2, ALISP_OBJ_INTEGER) ||
 alisp_compare_type(p2, ALISP_OBJ_FLOAT))) {
 double f1, f2;
f1 = alisp_compare_type(p1, ALISP_OBJ_INTEGER) ? p1->value.i : p1->value.f;
f2 = alisp_compare_type(p2, ALISP_OBJ_INTEGER) ? p2->value.i : p2->value.f;
if (f1 == f2)
goto __true;
} else {
lisp_warn(instance, "comparison with a non integer or float operand");
}
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
 * Syntax: (!= expr1 expr2)
 */
static struct alisp_object * F_numneq(struct alisp_instance *instance, struct alisp_object * args)
{
 struct alisp_object * p;

 p = F_numeq(instance, args);
 if (p == &alsa_lisp_nil)
 return &alsa_lisp_t;
 return &alsa_lisp_nil;
}

/*
 * Syntax: (exfun name)
 * Test, if a function exists
 */
static struct alisp_object * F_exfun(struct alisp_instance *instance, struct alisp_object * args)
{
 struct alisp_object * p1, * p2;

 p1 = eval(instance, car(args));
 delete_tree(instance, cdr(args));
 delete_object(instance, args);
 p2 = get_object(instance, p1);
 if (p2 == &alsa_lisp_nil) {
 delete_tree(instance, p1);
 return &alsa_lisp_nil;
 }
 p2 = car(p2);
 if (alisp_compare_type(p2, ALISP_OBJ_IDENTIFIER) &&
 !strcmp(p2->value.s, "lambda")) {
 delete_tree(instance, p1);
 return &alsa_lisp_t;
 }
 delete_tree(instance, p1);
 return &alsa_lisp_nil;
}

static void princ_string(snd_output_t *out, char *s)
{
 char *p;

 snd_output_putchar(out, ",");
 for (p = s; *p != \0; ++p)
switch (*p) {
case '\a': snd_output_putc(out, '\\'); snd_output_putc(out, 'a'); break;
case '\b': snd_output_putc(out, '\\'); snd_output_putc(out, 'b'); break;
case '\f': snd_output_putc(out, '\\'); snd_output_putc(out, 'f'); break;
case '\n': snd_output_putc(out, '\\'); snd_output_putc(out, 'n'); break;
case '\r': snd_output_putc(out, '\\'); snd_output_putc(out, 'r'); break;
case '\t': snd_output_putc(out, '\\'); snd_output_putc(out, 't'); break;
case '\v': snd_output_putc(out, '\\'); snd_output_putc(out, 'v'); break;
case '"': snd_output_putc(out, '\\'); snd_output_putc(out, '"'); break;
default: snd_output_putc(out, *p);
}
snd_output_putc(out, '"');
}
static void princ_cons(snd_output_t *out, struct alisp_object * p)
{
do {
princ_object(out, p->value.c.car);
p = p->value.c.cdr;
if (p != &alsa_lisp_nil) {
snd_output_putc(out, ' ');
if (!alisp_compare_type(p, ALISP_OBJ_CONS)) {
snd_output_printf(out, ". ");
princ_object(out, p);
}
}
} while (p != &alsa_lisp_nil && alisp_compare_type(p, ALISP_OBJ_CONS));
}
static void princ_object(snd_output_t *out, struct alisp_object * p)
{
switch (alisp_get_type(p)) {
case ALISP_OBJ_NIL:
snd_output_printf(out, "nil");
break;
case ALISP_OBJ_T:
snd_output_putc(out, 't');
break;
case ALISP_OBJ_IDENTIFIER:
snd_output_printf(out, "%s", p->value.s);
break;
case ALISP_OBJ_STRING:
princ_string(out, p->value.s);
break;
case ALISP_OBJ_INTEGER:
snd_output_printf(out, "%ld", p->value.i);
break;
case ALISP_OBJ_FLOAT:

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snd_output_printf(out, "%.f", p->value.f);
break;
case ALISP_OBJ_POINTER:
  snd_output_printf(out, "<%p>", p->value.ptr);
break;
case ALISP_OBJ_CONS:
  snd_output_putchar(out, '(');
  princ_cons(out, p);
  snd_output_putchar(out, ')');
  };
  }

/*
 * Syntax: (princ expr...)
 */
static struct alisp_object * F_princ(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p = args, * p1 = NULL, * n;

  do {
    if (p1)
      delete_tree(instance, p1);
    p1 = eval(instance, car(p));
    if (alisp_compare_type(p1, ALISP_OBJ_STRING))
      snd_output_putchar(instance->out, "%s", p1->value.s);
    else
      princ_object(instance->out, p1);
    n = cdr(p);
    delete_object(instance, p);
    p = n;
  } while (p != &alsa_lisp_nil);

  return p1;
}

/*
 * Syntax: (atom expr)
 */
static struct alisp_object * F_atom(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p;

  p = eval(instance, car(args));
  delete_tree(instance, cdr(args));
  delete_object(instance, args);
  if (p == NULL)
    return NULL;
switch (alisp_get_type(p)) {
    case ALISP_OBJ_T:
    case ALISP_OBJNIL:
    case ALISP_OBJ_INTEGER:
    case ALISP_OBJ_FLOAT:
    case ALISP_OBJ_STRING:
    case ALISP_OBJ_IDENTIFIER:
    case ALISP_OBJ_POINTER:
        delete_tree(instance, p);
        return &alsa_lisp_t;
    default:
        break;
}

delete_tree(instance, p);
return &alsa_lisp_nil;
}

/*
 * Syntax: (cons expr1 expr2)
 */
static struct alisp_object * F_cons(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p;

    p = new_object(instance, ALISP_OBJ_CONS);
    if (p)
    {
        p->value.c.car = eval(instance, car(args));
        p->value.c.cdr = eval(instance, car(cdr(args)));
        delete_tree(instance, cdr(cdr(args)));
        delete_object(instance, cdr(args));
        delete_object(instance, args);
    }
    else {
        delete_tree(instance, args);
    }

    return p;
}

/*
 * Syntax: (list expr1...)
 */
static struct alisp_object * F_list(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * first = NULL, * prev = NULL, * p1;

    if (p == &alsa_lisp_nil)
        return &alsa_lisp_nil;

    if (p == &alsa_lisp_nil)
do {
    p1 = new_object(instance, ALISP_OBJ_CONS);
    if (p1 == NULL) {
        delete_tree(instance, p);
        delete_tree(instance, first);
        return NULL;
    }
    p1->value.c.car = eval(instance, car(p));
    if (p1->value.c.car == NULL) {
        delete_tree(instance, first);
        delete_tree(instance, cdr(p));
        delete_object(instance, p);
        return NULL;
    }
    if (first == NULL)
        first = p1;
    if (prev != NULL)
        prev->value.c.cdr = p1;
    prev = p1;
    p = cdr(p1 = p);
    delete_object(instance, p1);
} while (p != &alsa_lisp_nil);
return first;
}

static inline int eq(struct alisp_object * p1, struct alisp_object * p2)
{
    return p1 == p2;
}

static int equal(struct alisp_object * p1, struct alisp_object * p2)
{
    int type1, type2;
    if (eq(p1, p2))
        return 1;
    type1 = alisp_get_type(p1);
    type2 = alisp_get_type(p2);
    if (type1 == ALISP_OBJ_CONS || type2 == ALISP_OBJ_CONS)
        return 0;
    if (type1 == type2) {
        switch (type1) {
        case ALISP_OBJ_STRING:
```c
return !strcmp(p1->value.s, p2->value.s);
case ALISP_OBJ_INTEGER:
    return p1->value.i == p2->value.i;
case ALISP_OBJ_FLOAT:
    return p1->value.i == p2->value.i;
}
}

return 0;
}

/*
 * Syntax: (eq expr1 expr2)
 */
static struct alisp_object * F_eq(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    if (eq(p1, p2)) {
        delete_tree(instance, p1);
        delete_tree(instance, p2);
        return &alsa_lisp_t;
    }
    delete_tree(instance, p1);
    delete_tree(instance, p2);
    return &alsa_lisp_nil;
}

/*
 * Syntax: (equal expr1 expr2)
 */
static struct alisp_object * F_equal(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    if (equal(p1, p2)) {
```
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_t;
}
delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
 * Syntax: (quote expr)
 */
static struct alisp_object * F_quote(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * args)
{
    struct alisp_object *p = car(args);

delete_tree(instance, cdr(args));
delete_object(instance, args);
return p;
}

/*
 * Syntax: (and expr...)
 */
static struct alisp_object * F_and(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1 = NULL, * n;

do {
    if (p1)
        delete_tree(instance, p1);
    p1 = eval(instance, car(p));
    if (p1 == &alsa_lisp_nil) {
        delete_tree(instance, p1);
        delete_tree(instance, cdr(p));
        return &alsa_lisp_nil;
    }
    p = cdr(n = p);
    delete_object(instance, n);
} while (p != &alsa_lisp_nil);

return p1;
}
static struct alisp_object * F_or(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1 = NULL, * n;

    do {
        if (p1)
            delete_tree(instance, p1);
        p1 = eval(instance, car(p));
        if (p1 != &alsa_lisp_nil) {
            delete_tree(instance, cdr(p));
            delete_object(instance, p);
            return p1;
        }
        p = cdr(n = p);
        delete_object(instance, n);
    } while (p != &alsa_lisp_nil);

    return &alsa_lisp_nil;
}

static struct alisp_object * F_not(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = eval(instance, car(args));
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    if (p != &alsa_lisp_nil) {
        delete_tree(instance, p);
        return &alsa_lisp_nil;
    }
    delete_tree(instance, p);
    return &alsa_lisp_t;
}

static struct alisp_object * F_cond(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1, * p2, * p3;

    do {

p1 = car(p);
if ((p2 = eval(instance, car(p1))) != &alsa_lisp_nil) {
    p3 = cdr(p1);
delete_object(instance, p1);
delete_tree(instance, cdr(p));
delete_object(instance, p);
if (p3 != &alsa_lisp_nil) {
    delete_tree(instance, p2);
    return F_progn(instance, p3);
} else {
    delete_tree(instance, p3);
    return p2;
}
} else {
    delete_tree(instance, p2);
delete_tree(instance, cdr(p1));
delete_object(instance, p1);
}
p = cdr(p2 = p);
delete_object(instance, p2);
} while (p != &alsa_lisp_nil);
return &alsa_lisp_nil;
}

/*
 * Syntax: (if expr then-expr else-expr...)
 */
static struct alisp_object * F_if(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * p3;

    p1 = car(args);
p2 = car(cdr(args));
p3 = cdr(cdr(args));
delete_object(instance, cdr(args));
delete_object(instance, args);

    p1 = eval(instance, p1);
if (p1 != &alsa_lisp_nil) {
    delete_tree(instance, p1);
delete_tree(instance, p3);
return eval(instance, p2);
}

    delete_tree(instance, p1);
delete_tree(instance, p2);
return F_progn(instance, p3);
static struct alisp_object * F_when(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = car(args);
    p2 = cdr(args);
    delete_object(instance, args);
    if ((p1 = eval(instance, p1)) != &alsa_lisp_nil) {
        delete_tree(instance, p1);
        return F_progn(instance, p2);
    } else {
        delete_tree(instance, p1);
        delete_tree(instance, p2);
    }

    return &alsa_lisp_nil;
}

static struct alisp_object * F_unless(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2;

    p1 = car(args);
    p2 = cdr(args);
    delete_object(instance, args);
    if ((p1 = eval(instance, p1)) == &alsa_lisp_nil) {
        delete_tree(instance, p1);
        return F_progn(instance, p2);
    } else {
        delete_tree(instance, p1);
        delete_tree(instance, p2);
    }

    return &alsa_lisp_nil;
}

static struct alisp_object * F_while(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1, * p2, * p3;

p1 = car(args);
p2 = cdr(args);

delete_object(instance, args);
while (1) {
  incref_tree(instance, p1);
  if ((p3 = eval(instance, p1)) == &alsa_lisp_nil)
    break;
  delete_tree(instance, p3);
  incref_tree(instance, p2);
  delete_tree(instance, F_progn(instance, p2));
}

delete_tree(instance, p1);
delete_tree(instance, p2);
return &alsa_lisp_nil;
}

/*
 * Syntax: (progn expr...)
 */
static struct alisp_object * F_progn(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p = args, * p1 = NULL, * n;

do {
  if (p1)
    delete_tree(instance, p1);
  p1 = eval(instance, car(p));
  n = cdr(p);
  delete_object(instance, p);
  p = n;
} while (p != &alsa_lisp_nil);

return p1;
}

/*
 * Syntax: (prog1 expr...)
 */
static struct alisp_object * F_prog1(struct alisp_instance *instance, struct alisp_object * args)
{
  struct alisp_object * p = args, * first = NULL, * p1;

do {
  p1 = eval(instance, car(p));
if (first == NULL)
first = p1;
else
delete_tree(instance, p1);
p1 = cdr(p);
delete_object(instance, p);
p = p1;
} while (p != &alsa_lisp_nil);

if (first == NULL)
first = &alsa_lisp_nil;

return first;
}

/*
* Syntax: (prog2 expr...)
*/
static struct alisp_object * F_prog2(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * second = NULL, * p1;
int i = 0;
do {
++i;
p1 = eval(instance, car(p));
if (i == 2)
second = p1;
else
delete_tree(instance, p1);
p1 = cdr(p);
delete_object(instance, p);
p = p1;
} while (p != &alsa_lisp_nil);

if (second == NULL)
second = &alsa_lisp_nil;

return second;
}

/*
* Syntax: (set name value)
*/
static struct alisp_object * F_set(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1 = eval(instance, car(args)),
*p2 = eval(instance, car(cdr(args)));
  *p2 = eval(instance, car(cdr(args)));

if (second == NULL)
second = &alsa_lisp_nil;

return second;
}
delete_tree(instance, cdr(cdr(args)));  
delete_object(instance, cdr(args));  
if (!check_set_object(instance, p1)) {  
delete_tree(instance, p2);  
p2 = &alsa_lisp_nil;  
} else {  
if (set_object(instance, p1, p2) == NULL) {  
delete_tree(instance, p1);  
delete_tree(instance, p2);  
return NULL;  
}  
}  
delete_tree(instance, p1);  
return incref_tree(instance, p2);  
}

/\n* Syntax: (unset name)
*/
static struct alisp_object * F_unset(struct alisp_instance *instance, struct alisp_object * args)  
{  
struct alisp_object * p1 = eval(instance, car(args));

delete_tree(instance, unset_object(instance, p1));  
delete_tree(instance, cdr(args));  
delete_object(instance, args);  
return p1;  
}

/\n* Syntax: (setq name value...)
* Syntax: (setf name value...)
* `name' is not evalled
*/
static struct alisp_object * F_setq(struct alisp_instance *instance, struct alisp_object * args)  
{  
struct alisp_object * p = args, * p1, * p2 = NULL, *n;

do {  
p1 = car(p);  
p2 = eval(instance, car(cdr(p)));  
n = cdr(cdr(p));  
delete_object(instance, cdr(p));  
delete_object(instance, p);  
if (!check_set_object(instance, p1)) {  
delete_tree(instance, p2);  
}  
}  

return NULL;  
}  
else {  
if (set_object(instance, p1, p2) == NULL) {  
delete_tree(instance, p1);  
delete_tree(instance, p2);  
return NULL;  
}  
}  
delete_tree(instance, p1);  
return incref_tree(instance, p2);  
}
p2 = &alsa_lisp_nil;
} else {
if (set_object(instance, p1, p2) == NULL) {
delete_tree(instance, p1);
delete_tree(instance, p2);
return NULL;
}

delete_tree(instance, p1);
p = n;
} while (p != &alsa_lisp_nil);

return incref_tree(instance, p2);
}

/*
 * Syntax: (unsetq name...)
 * Syntax: (unsetf name...)
 * `name' is not evalled
 */
static struct alisp_object * F_unsetq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = args, * p1 = NULL, * n;
do {
if (p1)
delete_tree(instance, p1);
p1 = unset_object(instance, car(p));
delete_tree(instance, car(p));
p = cdr(n = p);
delete_object(instance, n);
} while (p != &alsa_lisp_nil);

return p1;
}

/*
 * Syntax: (defun name arglist expr...)
 * `name' is not evalled
 * `arglist' is not evalled
 */
static struct alisp_object * F_defun(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1 = car(args),
* p2 = car(cdr(args)),
* p3 = cdr(cdr(args));
struct alisp_object * leexpr;

lexpr = new_object(instance, ALISP_OBJ_CONS);
if (lexpr) {
  lexpr->value.c.car = new_identifier(instance, "lambda");
  if (lexpr->value.c.car == NULL) {
    delete_object(instance, lexpr);
    delete_tree(instance, args);
    return NULL;
  }
  if ((lexpr->value.c.cdr = new_object(instance, ALISP_OBJ_CONS)) == NULL) {
    delete_object(instance, lexpr->value.c.car);
    delete_object(instance, lexpr);
    delete_tree(instance, args);
    return NULL;
  }
  lexpr->value.c.cdr->value.c.car = p2;
  lexpr->value.c.cdr->value.c.cdr = p3;
  delete_object(instance, cdr(args));
  delete_object(instance, args);
  if (set_object(instance, p1, lexpr) == NULL) {
    delete_tree(instance, p1);
    delete_tree(instance, lexpr);
    return NULL;
  }
  delete_tree(instance, p1);
} else {
  delete_tree(instance, args);
}
return &alsa_lisp_nil;

static struct alisp_object * eval_func(struct alisp_instance *instance, struct alisp_object * p, struct alisp_object * args)
{
  struct alisp_object * p1, * p2, * p3, * p4;
  struct alisp_object ** eval_objs, ** save_objs;
  int i;

  p1 = car(p);
  if (alisp_compare_type(p1, ALISP_OBJ_IDENTIFIER) &&
      !strcmp(p1->value.s, "lambda")) {
    p2 = car(cdr(p));
    p3 = args;
    if ((i = count_list(p2)) != count_list(p3)) {
      lisp_warn(instance, "wrong number of parameters");
      goto _delete;
    }
  }

  eval_objs = &save_objs;
  for (i = 0; i < count_list(p1); i++) {
    eval_objs[i] = eval_func(instance, p1->value.s, args);
  }

  eval_objs = &eval_objs;
  for (i = 0; i < count_list(p3); i++) {
    eval_objs[i] = eval_func(instance, p3->value.s, args);
  }

  return &alsa_lisp_cons;

}
eval_objs = malloc(2 * i * sizeof(struct alisp_object *));
if (eval_objs == NULL) {
    nomem();
    goto _delete;
}
save_objs = eval_objs + i;

/*
 * Save the new variable values.
 */
i = 0;
while (p3 != &alsa_lisp_nil) {
    eval_objs[i++] = eval(instance, car(p3));
    p3 = cdr(p4 = p3);
    delete_object(instance, p4);
}

/*
 * Save the old variable values and set the new ones.
 */
i = 0;
while (p2 != &alsa_lisp_nil) {
    p3 = car(p2);
    save_objs[i] = replace_object(instance, p3, eval_objs[i]);
    if (save_objs[i] == NULL &&
        set_object_direct(instance, p3, eval_objs[i]) == NULL) {
        p4 = NULL;
        goto _end;
    }
    p2 = cdr(p2);
    ++i;
}
p4 = F_progn(instance, cdr(incref_tree(instance, p3 = cdr(p))));

/*
 * Restore the old variable values.
 */
p2 = car(p3);
delete_object(instance, p3);
i = 0;
while (p2 != &alsa_lisp_nil) {
    p3 = car(p2);
    if (save_objs[i] == NULL) {
        p3 = unset_object(instance, p3);
    } else {
        p3 = replace_object(instance, p3, save_objs[i]);
    }
}
i++;
delete_tree(instance, p3);
delete_tree(instance, car(p2));
p2 = cdr(p3 = p2);
delete_object(instance, p3);
}

_end:
free(eval_objs);

return p4;
} else {
    _delete:
delete_tree(instance, args);
}
return &alsa_lisp_nil;
}

struct alisp_object * F_gc(struct alisp_instance *instance ATTRIBUTE_UNUSED, struct alisp_object * args ATTRIBUTE_UNUSED)
{
    /* improved: no more traditional gc */
    return &alsa_lisp_t;
}

/*
 * Syntax: (path what)
 * what is string ('data')
 */
struct alisp_object * F_path(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1;

    p1 = eval(instance, car(args));
delete_tree(instance, cdr(args));
delete_object(instance, args);
if (!alisp_compare_type(p1, ALISP_OBJ_STRING)) {
    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}
if (!strcmp(p1->value.s, "data")) {
    delete_tree(instance, p1);
    return new_string(instance, snd_config_topdir());
}
    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}
/ * Syntax: (include filename...)
*/
struct alisp_object * F_include(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = args, * p1;
    int res = -ENOENT;
    do {
        p1 = eval(instance, car(p));
        if (alisp_compare_type(p1, ALISP_OBJ_STRING))
            res = alisp_include_file(instance, p1->value.s);
        delete_tree(instance, p1);
        p = cdr(p1 = p);
        delete_object(instance, p1);
    } while (p != &alsa_lisp_nil);
    return new_integer(instance, res);
}

/*
 * Syntax: (string-to-integer value)
 * 'value' can be integer or float type
 */
struct alisp_object * F_string_to_integer(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = eval(instance, car(args)), * p1;
    delete_tree(instance, cdr(args));
    delete_object(instance, args);
    if (alisp_compare_type(p, ALISP_OBJ_INTEGER))
        return p;
    if (alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
        p1 = new_integer(instance, floor(p->value.f));
    } else {
        lisp_warn(instance, "expected an integer or float for integer conversion");
        p1 = &alsa_lisp_nil;
    }
    delete_tree(instance, p);
    return p1;
}

/*
 * Syntax: (string-to-float value)
 * 'value' can be integer or float type
 */
struct alisp_object * F_string_to_float(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = eval(instance, car(args)), * p1;

delete_tree(instance, cdr(args));
delete_object(instance, args);
if (alisp_compare_type(p, ALISP_OBJ_FLOAT))
    return p;
if (alisp_compare_type(p, ALISP_OBJ_INTEGER)) {
    p1 = new_float(instance, p->value.i);
} else {
    lisp_warn(instance, "expected an integer or float for integer conversion");
    p1 = &alsa_lisp_nil;
}
delete_tree(instance, p);
return p1;
}

static int append_to_string(char **s, int *len, char *from, int size)
{
    if (*len == 0) {
        *s = malloc(*len = size + 1);
        if (*s == NULL) {
            nomem();
            return -ENOMEM;
        }
        memcpy(*s, from, size);
    } else {
        *len += size;
        *s = realloc(*s, *len);
        if (*s == NULL) {
            nomem();
            return -ENOMEM;
        }
        memcpy(*s + strlen(*s), from, size);
    }
    (*s)[*len - 1] = '\0';
    return 0;
}

static int format_parse_char(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    char b;

    if (!alisp_compare_type(p, ALISP_OBJ_INTEGER)) {
        lisp_warn(instance, "format: expected integer\n");
        return 0;
    }
    b = p->value.i;
    return append_to_string(s, len, &b, 1);
static int format_parse_integer(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    int res;
    char *s1;

    if (!alisp_compare_type(p, ALISP_OBJ_INTEGER) &&
        !alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
        lisp_warn(instance, "format: expected integer or float\n");
        return 0;
    }
    s1 = malloc(64);
    if (s1 == NULL) {
        nomem();
        return -ENOMEM;
    }
    sprintf(s1, "%li", alisp_compare_type(p, ALISP_OBJ_FLOAT) ? (long)floor(p->value.f) : p->value.i);
    res = append_to_string(s, len, s1, strlen(s1));
    free(s1);
    return res;
}

static int format_parse_float(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    int res;
    char *s1;

    if (!alisp_compare_type(p, ALISP_OBJ_INTEGER) &&
        !alisp_compare_type(p, ALISP_OBJ_FLOAT)) {
        lisp_warn(instance, "format: expected integer or float\n");
        return 0;
    }
    s1 = malloc(64);
    if (s1 == NULL) {
        nomem();
        return -ENOMEM;
    }
    sprintf(s1, "%f", alisp_compare_type(p, ALISP_OBJ_FLOAT) ? p->value.f : (double)p->value.i);
    res = append_to_string(s, len, s1, strlen(s1));
    free(s1);
    return res;
}

static int format_parse_string(struct alisp_instance *instance, char **s, int *len, struct alisp_object *p)
{
    if (!alisp_compare_type(p, ALISP_OBJ_STRING)) {
        lisp_warn(instance, "format: expected string\n");
    }
return 0;
}
return append_to_string(s, len, p->value.s, strlen(p->value.s));
}

/*
 * Syntax: (format format value...)
 * 'format' is C-like format string
 */
struct alisp_object * F_format(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p = eval(instance, car(args)), * p1 = cdr(args), * n;
char *s, *s1, *s2;
int len;

delete_object(instance, args);
if (!alisp_compare_type(p, ALISP_OBJ_STRING)) {
  delete_tree(instance, p1);
delete_tree(instance, p);
lisp_warn(instance, "format: expected an format string");
return &alsa_lisp_nil;
}
s = p->value.s;
s1 = NULL;
len = 0;
n = eval(instance, car(p1));
do {
  while (1) {
    s2 = s;
    while (*s2 && *s2 != '%')
      s2++;
    if (s2 != s) {
      if (append_to_string(&s1, &len, s, s2 - s) < 0) {
        __error:
        delete_tree(instance, n);
delete_tree(instance, cdr(p1));
delete_object(instance, p1);
delete_tree(instance, p);
return NULL;
    }
    if (*s2 == '%')
      s2++;
    switch (*s2) {
    case ' ':  
      if (append_to_string(&s1, &len, s, s2 - s) < 0)
        goto __error;
    s = s2 + 1;
  }}}}
break;
  case 'c':
    if (format_parse_char(instance, &s1, &len, n) < 0)
      goto __error;
    s = s2 + 1;
    goto __next;
  case 'd':
  case 'i':
    if (format_parse_integer(instance, &s1, &len, n) < 0)
      goto __error;
    s = s2 + 1;
    goto __next;
  case 'f':
    if (format_parse_float(instance, &s1, &len, n) < 0)
      goto __error;
    s = s2 + 1;
    goto __next;
  case 's':
    if (format_parse_string(instance, &s1, &len, n) < 0)
      goto __error;
    s = s2 + 1;
    goto __next;
  case '\0':
    goto __end;
  default:
    lisp_warn(instance, "unknown format char '%c', *s2);
    s = s2 + 1;
    goto __next;
  }
__next:
  delete_tree(instance, n);
  p1 = cdr(n = p1);
  delete_object(instance, n);
  n = eval(instance, car(p1));
} while (*s);
__end:
  delete_tree(instance, n);
  delete_tree(instance, cdr(p1));
  delete_object(instance, p1);
  delete_tree(instance, p);
  if (len > 0) {
    p1 = new_string(instance, s1);
    free(s1);
  } else {
    p1 = &alsa_lisp_nil;
  }
  return p1;
/*
 * Syntax: (compare-strings str1 start1 end1 str2 start2 end2 /opt-case-insensitive)
 * 'str1' is first compared string
 * 'start1' is first char (0..)
 * 'end1' is last char (0..)
 * 'str2' is second compared string
 * 'start2' is first char (0..)
 * 'end2' is last char (0..)
 * /opt-case-insensitive true - case insensitive match
 */
struct alisp_object * F_compare_strings(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1 = args, * n, * p[7];
char *s1, *s2;
int start1, end1, start2, end2;
for (start1 = 0; start1 < 7; start1++) {
p[start1] = eval(instance, car(p1));
p1 = cdr(n = p1);
delete_object(instance, n);
}
delete_tree(instance, p1);
if (alisp_compare_type(p[0], ALISP_OBJ_STRING)) {
lisp_warn(instance, "compare-strings: first argument must be string\n");
p1 = &alsa_lisp_nil;
goto __err;
}
if (alisp_compare_type(p[1], ALISP_OBJ_INTEGER)) {
lisp_warn(instance, "compare-strings: second argument must be integer\n");
p1 = &alsa_lisp_nil;
goto __err;
}
if (alisp_compare_type(p[2], ALISP_OBJ_INTEGER)) {
lisp_warn(instance, "compare-strings: third argument must be integer\n");
p1 = &alsa_lisp_nil;
goto __err;
}
if (alisp_compare_type(p[3], ALISP_OBJ_STRING)) {
lisp_warn(instance, "compare-strings: fifth argument must be string\n");
p1 = &alsa_lisp_nil;
goto __err;
}
if (!alisp_compare_type(p[4], ALISP_OBJ_NIL) &&
!alisp_compare_type(p[4], ALISP_OBJ_INTEGER)) {
lisp_warn(instance, "compare-strings: fourth argument must be integer\n");
p1 = &alsa_lisp_nil;

}
goto __err;
}
if (!alisp_compare_type(p[5], ALISP_OBJ_NIL) &&
    !alisp_compare_type(p[5], ALISP_OBJ_INTEGER)) {
    lisp_warn(instance, "compare-strings: sixth argument must be integer\n");
    p1 = &alsa_lisp_nil;
goto __err;
}
s1 = p[0]->value.s;
start1 = p[1]->value.i;
end1 = p[2]->value.i;
s2 = p[3]->value.s;
start2 = alisp_compare_type(p[4], ALISP_OBJ_NIL) ? 0 : p[4]->value.i;
end2 = alisp_compare_type(p[5], ALISP_OBJ_NIL) ? start2 + (end1 - start1) : p[5]->value.i;
if (start1 < 0 || start2 < 0 || end1 < 0 || end2 < 0 ||
    start1 >= (int)strlen(s1) || start2 >= (int)strlen(s2) ||
    (end1 - start1) != (end2 - start2)) {
    p1 = &alsa_lisp_nil;
goto __err;
}
if (p[6] != &alsa_lisp_nil) {
    while (start1 < end1) {
        if (s1[start1] == '0' ||
            s2[start2] == '0' ||
            tolower(s1[start1]) != tolower(s2[start2])) {
            p1 = &alsa_lisp_nil;
goto __err;
        }
        start1++;
        start2++;
    }
} else {
    while (start1 < end1) {
        if (s1[start1] == '0' ||
            s2[start2] == '0' ||
            s1[start1] != s2[start2]) {
            p1 = &alsa_lisp_nil;
goto __err;
        }
        start1++;
        start2++;
    }
    p1 = &alsa_lisp_t;
}
__err:
for (start1 = 0; start1 < 7; start1++)
delete_tree(instance, p[start1]);
struct alisp_object * F_assoc(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * n;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    do {
        if (eq(p1, car(car(p2)))) {
            n = car(p2);
            delete_tree(instance, p1);
            delete_tree(instance, cdr(p2));
            delete_object(instance, p2);
            return n;
        }
        delete_tree(instance, car(p2));
        p2 = cdr(n = p2);
        delete_object(instance, n);
    } while (p2 != &alsa_lisp_nil);
    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}

/*
 *  Syntax: (assoc key alist)
 */

struct alisp_object * F_rassoc(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, *p2, * n;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    do {
        if (eq(p1, cdr(car(p2)))) {
            n = cdr(p2);
            delete_tree(instance, p1);
            delete_tree(instance, cdr(p2));
            delete_object(instance, p2);
            return n;
        }
        delete_tree(instance, car(p2));
        p2 = cdr(n = p2);
        delete_object(instance, n);
    } while (p2 != &alsa_lisp_nil);
    delete_tree(instance, p1);
    return &alsa_lisp_nil;
}
n = car(p2);
delete_tree(instance, p1);
delete_tree(instance, cdr(p2));
delete_object(instance, p2);
return n;
}
delete_tree(instance, car(p2));
p2 = cdr(n = p2);
delete_object(instance, n);
} while (p2 != &alsa_lisp_nil);
delete_tree(instance, p1);
return &alsa_lisp_nil;
}

/*
* Syntax: (assq key alist)
*/
struct alisp_object * F_assq(struct alisp_instance *instance, struct alisp_object * args)
{
struct alisp_object * p1, * p2, * n;
p1 = eval(instance, car(args));
p2 = eval(instance, car(cdr(args)));
delete_tree(instance, cdr(cdr(args)));
delete_object(instance, cdr(args));
delete_object(instance, args);

do {
if (equal(p1, car(car(p2)))) {
 n = car(p2);
delete_tree(instance, p1);
delete_tree(instance, cdr(p2));
delete_object(instance, p2);
return n;
}
delete_tree(instance, car(p2));
p2 = cdr(n = p2);
delete_object(instance, n);
} while (p2 != &alsa_lisp_nil);
delete_tree(instance, p1);
return &alsa_lisp_nil;
}

/*
* Syntax: (nth index alist)
*/
struct alisp_object * F_nth(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * n;
    long idx;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

    if (!alisp_compare_type(p1, ALISP_OBJ_INTEGER)) {
        delete_tree(instance, p1);
        delete_tree(instance, p2);
        return &alsa_lisp_nil;
    }
    if (!alisp_compare_type(p2, ALISP_OBJ_CONS)) {
        delete_object(instance, p1);
        delete_tree(instance, p2);
        return &alsa_lisp_nil;
    }
    idx = p1->value.i;
    delete_object(instance, p1);
    while (idx-- > 0) {
        delete_tree(instance, car(p2));
        p2 = cdr(n = p2);
        delete_object(instance, n);
    }
    n = car(p2);
    delete_tree(instance, cdr(p2));
    delete_object(instance, p2);
    return n;
}

/*
 * Syntax: (rassq value alist)
 */
struct alisp_object * F_rassq(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p1, * p2, * n;

    p1 = eval(instance, car(args));
    p2 = eval(instance, car(cdr(args)));
    delete_tree(instance, cdr(cdr(args)));
    delete_object(instance, cdr(args));
    delete_object(instance, args);

do {
if (equal(p1, cdr(car(p2)))) {
    n = car(p2);
    delete_tree(instance, p1);
    delete_tree(instance, cdr(p2));
    delete_object(instance, p2);
    return n;
}

delete_tree(instance, car(p2));
p2 = cdr(n = p2);
delete_object(instance, n);
}

while (p2 != &alsa_lisp_nil);
delete_tree(instance, p1);
return &alsa_lisp_nil;

static struct alisp_object * F_dump_memory(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = car(args);

    if (p != &alsa_lisp_nil && cdr(args) == &alsa_lisp_nil &&
        alisp_compare_type(p, ALISP_OBJ_STRING)) {
        if (strlen(p->value.s) > 0) {
            dump_objects(instance, p->value.s);
            delete_tree(instance, args);
            return &alsa_lisp_t;
        } else
            lisp_warn(instance, "expected filename");
    } else
        lisp_warn(instance, "wrong number of parameters (expected string)");

    delete_tree(instance, args);
    return &alsa_lisp_nil;
}

static struct alisp_object * F_stat_memory(struct alisp_instance *instance, struct alisp_object * args)
{
    snd_output_printf(instance->out, "*** Memory stats
    snd_output_printf(instance->out, " used_objs = %li, free_objs = %li, max_objs = %li, obj_size = %i (total bytes = %li, max bytes = %li)\n",
        instance->used_objs,
        instance->free_objs,
        instance->max_objs,
        (int)sizeof(struct alisp_object),
        (long)((instance->used_objs + instance->free_objs) * sizeof(struct alisp_object)),
        (long)(instance->max_objs * sizeof(struct alisp_object)));

    delete_tree(instance, args);
    return &alsa_lisp_nil;
static struct alisp_object * F_check_memory(struct alisp_instance *instance, struct alisp_object * args) 
{
    delete_tree(instance, args);
    if (instance->used_objs > 0) {
        fprintf(stderr, "!!!alsa lisp - check memory failed!!!\n");
        F_stat_memory(instance, &alsa_lisp_nil);
        exit(EXIT_FAILURE);
    }
    return &alsa_lisp_t;
}

static struct alisp_object * F_dump_objects(struct alisp_instance *instance, struct alisp_object * args) 
{
    struct alisp_object * p = car(args);
    if (p != &alsa_lisp_nil && cdr(args) == &alsa_lisp_nil &&
        alisp_compare_type(p, ALISP_OBJ_STRING)) {
        if (strlen(p->value.s) > 0) {
            dump_obj_lists(instance, p->value.s);
            delete_tree(instance, args);
            return &alsa_lisp_t;
        } else
            lisp_warn(instance, "expected filename");
    } else
        lisp_warn(instance, "wrong number of parameters (expected string)");

    delete_tree(instance, args);
    return &alsa_lisp_nil;
}

struct intrinsic {
    const char *name;
    struct alisp_object * (*func)(struct alisp_instance *instance, struct alisp_object * args);
};

static const struct intrinsic intrinsics[] = {
    { "!=" , F_numneq },
    { "%" , F_mod },
    { "&check-memory" , F_check_memory },
    { "&dump-memory" , F_dump_memory },
    { "&dump-objects" , F_dump_objects },
    { "&stat-memory" , F_stat_memory },
    { "*" , F_mul },
    { "+" , F_add },
    { "-" , F_sub },
    { "/" , F_div },
{ "unset", F_unset },
{ "unsetf", F_unsetq },
{ "unsetq", F_unsetq },
{ "when", F_when },
{ "while", F_while },
};

#include "alisp_snd.c"

static int compar(const void *p1, const void *p2)
{
    return strcmp(((struct intrinsic *)p1)->name,
                   ((struct intrinsic *)p2)->name);
}

static inline struct alisp_object * eval_cons1(struct alisp_instance *instance, struct alisp_object * p1, struct alisp_object * p2)
{
    struct alisp_object * p3;
    struct intrinsic key, *item;

    key.name = p1->value.s;

    if ((item = bsearch(&key, intrinsics,
                       sizeof intrinsics / sizeof intrinsics[0],
                       sizeof intrinsics[0], compar)) != NULL) {
        delete_object(instance, p1);
        return item->func(instance, p2);
    }

    if ((item = bsearch(&key, snd_intrinsics,
                         sizeof snd_intrinsics / sizeof snd_intrinsics[0],
                         sizeof snd_intrinsics[0], compar)) != NULL) {
        delete_object(instance, p1);
        return item->func(instance, p2);
    }

    if ((p3 = get_object(instance, p1)) != &alsa_lisp_nil) {
        delete_object(instance, p1);
        return eval_func(instance, p3, p2);
    } else {
        lisp_warn(instance, "function \"%s\" is undefined", p1->value.s);
        delete_object(instance, p1);
        delete_tree(instance, p2);
    }

    return &alsa_lisp_nil;
}
static struct alisp_object * F_funcall(struct alisp_instance *instance, struct alisp_object * args)
{
    struct alisp_object * p = eval(instance, car(args)), * p1;

    if (!alisp_compare_type(p, ALISP_OBJ_IDENTIFIER) &&
        !alisp_compare_type(p, ALISP_OBJ_STRING)) {
        lisp_warn(instance, "expected an function name");
        delete_tree(instance, p);
        delete_tree(instance, cdr(args));
        delete_object(instance, args);
        return &alsa_lisp_nil;
    }
    p1 = cdr(args);
    delete_object(instance, args);
    return eval_cons1(instance, p, p1);
}

static inline struct alisp_object * eval_cons(struct alisp_instance *instance, struct alisp_object * p)
{
    struct alisp_object * p1 = car(p), * p2;

    if (p1 != &alsa_lisp_nil && alisp_compare_type(p1, ALISP_OBJ_IDENTIFIER)) {
        if (!strcmp(p1->value.s, "lambda"))
            return p;
        p2 = cdr(p);
        delete_object(instance, p);
        return eval_cons1(instance, p1, p2);
    } else {
        delete_tree(instance, p);
    }

    return &alsa_lisp_nil;
}

static struct alisp_object * eval(struct alisp_instance *instance, struct alisp_object * p)
{
    switch (alisp_get_type(p)) {
    case ALISP_OBJ_IDENTIFIER:
        struct alisp_object *r = incref_tree(instance, get_object(instance, p));
        return r
        }
    case ALISP_OBJ_INTEGER:
case ALISP_OBJ_FLOAT:
case ALISP_OBJ_STRING:
case ALISP_OBJ_POINTER:
    return p;
case ALISP_OBJ_CONS:
    return eval_cons(instance, p);
default:
    break;
}

return p;
}

static struct alisp_object * F_eval(struct alisp_instance *instance, struct alisp_object * args)
{
    return eval(instance, eval(instance, car(args)));
}

/*
 *  main routine
 */

static int alisp_include_file(struct alisp_instance *instance, const char *filename)
{
    snd_input_t *old_in;
    struct alisp_object *p, *p1;
    char *name;
    int retval = 0, err;

    err = snd_user_file(filename, &name);
    if (err < 0)
        return err;
    old_in = instance->in;
    err = snd_input_stdio_open(&instance->in, name, "r");
    if (err < 0) {
        retval = err;
        goto _err;
    }
    if (instance->verbose)
        lisp_verbose(instance, "** include filename '%s'", name);

    for (;;) {
        if ((p = parse_object(instance, 0)) == NULL)
            break;
        if (instance->verbose) {
            lisp_verbose(instance, "** code");
            princ_object(instance->vout, p);
            snd_output_putc(instance->vout, '\n');
        }
        
        for (;;) {
            if ((p = parse_object(instance, 0)) == NULL)
                break;
            if (instance->verbose) {
                lisp_verbose(instance, "** code");
                princ_object(instance->vout, p);
                snd_output_putc(instance->vout, '\n');
            }
        }
    }

_err:
    if (instance->verbose)
        lisp_verbose(instance, "** ERR");
    return retval;
}
int alsa_lisp(struct alisp_cfg *cfg, struct alisp_instance **_instance) {
    struct alisp_instance *instance;
    struct alisp_object *p, *p1;
    int i, j, retval = 0;

    instance = (struct alisp_instance *)calloc(1, sizeof(struct alisp_instance));
    if (instance == NULL) {
        nomem();
        return -ENOMEM;
    }
    instance->verbose = cfg->verbose && cfg->vout;
    instance->warning = cfg->warning && cfg->wout;
    instance->debug = cfg->debug && cfg->dout;
    instance->in = cfg->in;
    instance->out = cfg->out;
    instance->vout = cfg->vout;
    instance->eout = cfg->eout;
    instance->wout = cfg->wout;
    instance->dout = cfg->dout;
    INIT_LIST_HEAD(&instance->free_objs_list);
    for (i = 0; i < ALISP_OBL_PAIR_HASH_SIZE; i++) {
        for (j = 0; j <= ALISP_OBJ_LAST_SEARCH; j++) {
...
INIT_LIST_HEAD(&instance->used_objs_list[i][j]);
INIT_LIST_HEAD(&instance->setobjs_list[i]);
}

init_lex(instance);

for (;;) {
if ((p = parse_object(instance, 0)) == NULL)
  break;
if (instance->verbose) {
lisp_verbose(instance, "** code");
princ_object(instance->vout, p);
snd_output_putc(instance->vout, '\n');
}
p1 = eval(instance, p);
if (p1 == NULL) {
  retval = -ENOMEM;
  break;
}
if (instance->verbose) {
lisp.verbose(instance, "** result");
princ_object(instance->vout, p1);
snd_output_putc(instance->vout, '\n');
}
delete_tree(instance, p1);
if (instance->debug) {
lisp_debug(instance, "** objects after operation");
print_obj_lists(instance, instance->dout);
}
}

if (!_instance)
  *_instance = instance;
else
  alsa_lisp_free(instance);

return retval;
}

void alsa_lisp_free(struct alisp_instance *instance)
{
  if (instance == NULL)
    return;
done_lex(instance);
  free_objects(instance);
  free(instance);
}
struct alisp_cfg *alsa_lisp_default_cfg(snd_input_t *input)
{
    snd_output_t *output, *eoutput;
    struct alisp_cfg *cfg;
    int err;

    err = snd_output_stdio_attach(&output, stdout, 0);
    if (err < 0)
        return NULL;
    err = snd_output_stdio_attach(&eoutput, stderr, 0);
    if (err < 0) {
        snd_output_close(output);
        return NULL;
    }
    cfg = calloc(1, sizeof(struct alisp_cfg));
    if (cfg == NULL) {
        snd_output_close(eoutput);
        snd_output_close(output);
        return NULL;
    }
    cfg->out = output;
    cfg->wout = eoutput;
    cfg->eout = eoutput;
    cfg->dout = eoutput;
    cfg->in = input;
    return cfg;
}

void alsa_lisp_default_cfg_free(struct alisp_cfg *cfg)
{
    snd_input_close(cfg->in);
    snd_output_close(cfg->out);
    snd_output_close(cfg->dout);
    free(cfg);
}

int alsa_lisp_function(struct alisp_instance *instance, struct alisp_seq_iterator **result,
                        const char *id, const char *args, ...)
{
    int err = 0;
    struct alisp_object *aargs = NULL, *obj, *res;

    if (args && *args != 'n') {
        va_list ap;
        struct alisp_object *p;
        p = NULL;
        va_start(ap, args);
        while (*args) {

if (*args++ != '%') {
  err = -EINVAL;
  break;
}
if (*args == '\0') {
  err = -EINVAL;
  break;
}
o = NULL;
err = 0;
switch (*args++) {
  case 's':
    o = new_string(instance, va_arg(ap, char *));
    break;
  case 'i':
    o = new_integer(instance, va_arg(ap, int));
    break;
  case 'l':
    o = new_integer(instance, va_arg(ap, long));
    break;
  case 'f':
    case 'd':
      o = new_integer(instance, va_arg(ap, double));
      break;
  case 'p': {
      char _ptrid[24];
      char *ptrid = _ptrid;
      while (*args && *args != '%')
        *ptrid++ = *args++;
      *ptrid = 0;
      if (ptrid == _ptrid) {
        err = -EINVAL;
        break;
      }
      o = new_cons_pointer(instance, _ptrid, va_arg(ap, void *));
      o = quote_object(instance, o);
      break;
    }
  default:
    err = -EINVAL;
    break;
}
if (err < 0)
  goto __args_end;
if (o == NULL) {
  err = -ENOMEM;
  goto __args_end;
}
if (p == NULL) {
    p = aargs = new_object(instance, ALISP_OBJ_CONS);
} else {
    p->value.c.cdr = new_object(instance, ALISP_OBJ_CONS);
    p = p->value.c.cdr;
}
if (p == NULL) {
    err = -ENOMEM;
    goto __args_end;
}
p->value.c.car = obj;

__args_end:
va_end(ap);
if (err < 0)
    return err;
#if 0
    snd_output_printf((instance->wout, ">>>"));
    princ_object((instance->wout, aargs);
    snd_output_printf((instance->wout, "<<<\n");
#endif

err = -ENOENT;
if (aargs == NULL)
    aargs = &alsa_lisp_nil;
if ((obj = get_object1(instance, id)) != &alsa_lisp_nil) {
    res = eval_func(instance, obj, aargs);
    err = 0;
} else {
    struct intrinsic key, *item;
    key.name = id;
    if (((item = bsearch(&key, intrinsics,
        sizeof intrinsics / sizeof intrinsics[0],
        sizeof intrinsics[0], compar)) != NULL) {
        res = item->func(instance, aargs);
        err = 0;
    } else if (((item = bsearch(&key, snd_intrinsics,
        sizeof snd_intrinsics / sizeof snd_intrinsics[0],
        sizeof snd_intrinsics[0], compar)) != NULL) {
        res = item->func(instance, aargs);
        err = 0;
    } else {
        res = &alsa_lisp_nil;
    }
}
if (res == NULL)
    err = -ENOMEM;
if (err == 0 && result) {
  *result = res;
} else {
  delete_tree(instance, res);
}

return 0;
}

void alsa_lisp_result_free(struct alisp_instance *instance,
   struct alisp_seq_iterator *result)
{
  delete_tree(instance, result);
}

int alsa_lisp_seq_first(struct alisp_instance *instance, const char *id,
   struct alisp_seq_iterator **seq)
{
  struct alisp_object * p1;

  p1 = get_object1(instance, id);
  if (p1 == NULL)
    return -ENOMEM;
  *seq = p1;
  return 0;
}

int alsa_lisp_seq_next(struct alisp_seq_iterator **seq)
{
  struct alisp_object * p1 = *seq;

  p1 = cdr(p1);
  if (p1 == &alsa_lisp_nil)
    return -ENOENT;
  *seq = p1;
  return 0;
}

int alsa_lisp_seq_count(struct alisp_seq_iterator *seq)
{
  int count = 0;

  while (seq != &alsa_lisp_nil) {
    count++;
    seq = cdr(seq);
  }
  return count;
}
int alsa_lisp_seq_integer(struct alisp_seq_iterator *seq, long *val)
{
if (alisp_compare_type(seq, ALISP_OBJ_CONS))
    seq = seq->value.c.cdr;
if (alisp_compare_type(seq, ALISP_OBJ_INTEGER))
    *val = seq->value.i;
else
    return -EINVAL;
return 0;
}

int alsa_lisp_seq_pointer(struct alisp_seq_iterator *seq, const char *ptr_id, void **ptr)
{
struct alisp_object * p2;

if (alisp_compare_type(seq, ALISP_OBJ_CONS) &&
    alisp_compare_type(seq->value.c.car, ALISP_OBJ_CONS))
    seq = seq->value.c.car;
if (alisp_compare_type(seq, ALISP_OBJ_CONS)) {
    p2 = seq->value.c.car;
    if (!alisp_compare_type(p2, ALISP_OBJ_STRING))
        return -EINVAL;
    if (strcmp(p2->value.s, ptr_id))
        return -EINVAL;
    p2 = seq->value.c.cdr;
    if (!alisp_compare_type(p2, ALISP_OBJ_POINTER))
        return -EINVAL;
    *ptr = (void *)seq->value.ptr;
} else
    return -EINVAL;
return 0;
}

From RPM File Metadata:LGPLv2+

1.109 netty 4.1.32
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1.111 slf4j-log4j 1.7.25

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1.113 e2fsprogs 1.42.9 16.el7

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)

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@mkdir -p pic

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Theodore Ts'o
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Gadi Oxman, August 1995

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<one line to give the program's name and a brief idea of what it does.>
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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
	Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /**
 - Unix SMB/CIFS implementation.
+ trivial database library - standalone version

 - trivial database library - private includes

 -
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 ** NOTE! The following LGPL license applies to the tdb
 ** library. This does NOT imply that all of Samba is released
 This package was added to the e2fsprogs debian source package by
 Theodore Ts'o <ttypso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

 http://sourceforge.net/projects/e2fsprogs

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

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

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1.115 dropwizard-core 0.9.2

1.116 cracklib 2.9.0-11.el7
1.116.1 Available under license :

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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...)
----------

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

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike
Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

-- Nathan

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33
Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
applications are also GPL-2 which imo is just wrong. it isn't the place of a library to dictate to application writes what license they should be using. thus LGPL-2.1 enters to fill this void.

=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme you'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 you'all come up with is fine by me.

-- Nathan

Nathan Neulinger
EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec
directly
> and see if he wants to relicense his code as LGPL... but at this
point,
> it was enough to just get it consistent and documented as to what
it was
> released under. This wasn't actually a license change, just a
clarification of the licensing that was already in place.
> the original license (before moving to sourceforge -- aka, 2.7) was
not
> GPL-2 ... it was a modified artistic license ... i didn't 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 isn't the
place of a
library to dictact to application writes what license they should
be using.
thus LGPL-2.1 enters to fill this void.
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
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GPL would permit applications which were released under version 3 of the
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In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

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

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yes. go for it. thanks++

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

Attachments: Message as HTML
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Nathan Neulinger is the only one who can actually make said change ...
-mike

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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.
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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it under the terms of the GNU Lesser General Public License as
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A copy of the GNU Lesser General Public License 2.1 is available as /usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux distribution or on the World Wide Web at http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also obtain it by writing to the Free Software Foundation, Inc., 51 Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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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. Cracklib's license was changed from the GPL to the LGPL after consensus of all previous developers in October 2008, effective with release 2.8.15 released on 2009-11-19. See the email discussion below for both license changes.

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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...)
-----------

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

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
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-- Nathan

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
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unlike the old license, GPL-2 prevents people from using cracklib unless th=20
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Dmike

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that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k1ldac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k1ldac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=floowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBEFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
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that the license is being changed to GPL, so I could include that
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in the repository and clean up the repository/tarballs? I have all the
original discussion, but something succinct and self contained
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ideal.

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

Happy now? :-)  

-a

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA  02110-1301  USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

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

Preamble

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

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

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

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

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

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

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

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

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

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

^L

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.119 python 3.7.6

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

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

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

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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c, file_io/unix/mktemp.c, strings/apr_strings.c:

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

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

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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* encoding:  US-ASCII
* tab size:  8 (not used)
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*
* created on: 2005jan16
* created by: Markus W. Scherer
*
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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

For a subclass to support metadata, typical behavior of
<code>replace()</code> is the following:
<ul>
<li>Set the metadata of the new text to the metadata of the first
character replaced</li>
<li>If no characters are replaced, use the metadata of the
previous character</li>
<li>If there is no previous character (i.e. start == 0), use the
following character</li>
<li>If there is no following character (i.e. the replaceable was
empty), use default metadata</li>
<li>If the code point U+FFFF is seen, it should be interpreted as
a special marker having no metadata</li>
</ul>
If this is not the behavior, the subclass should document any differences.

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@author Alan Liu
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the
<code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p><em>Note:</em> This class does not support attributes and is not
intended for general use. Most clients will need to implement
{@link Replaceable} in their text representation class.

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@see Replaceable
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import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {

}
public Permission(String name) {} 

public final String getName() { return null; } 

public void checkGuard(Object obj) throws SecurityException {} 

public PermissionCollection newPermissionCollection() {
    return new AllPermissionCollection();
}

public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

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1.143 libffi 3.0.13-18

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- com.fasterxml.jackson.core:jackson-core:2.10.1
- com.fasterxml.jackson.core:jackson-databind:2.10.1
- com.fasterxml.jackson.module:jackson-module-jsonSchema:2.10.1
- javax.validation:validation-api:1.1.0.Final

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- io.netty:netty-tcnative:2.0.25.Final

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- com.fasterxml.jackson.core:jackson-core:2.10.1
- com.fasterxml.jackson.core:jackson-databind:2.10.1
- com.fasterxml.jackson.dataformat:jackson-dataformat-csv:2.10.1
- com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:2.10.1
- org.yaml:snakeyaml:1.24
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- commons-beanutils:commons-beanutils:1.9.3
- commons-cli:commons-cli:1.3.1
- commons-codec:commons-codec:1.10
- commons-collections:commons-collections:3.2.2
- commons-configuration:commons-configuration:1.7
- commons-daemon:commons-daemon:1.0.13
- commons-digester:commons-digester:1.8.1
- commons-io:commons-io:2.4
- commons-lang:commons-lang:2.6
- commons-logging:commons-logging:1.1.3
- commons-net:commons-net:3.1
- org.apache.avro:avro:1.8.2
- org.apache.commons:commons-compress:1.18
- org.apache.commons:commons-math3:3.5
- org.apache.zookeeper:zookeeper:3.4.10
- org.codehaus.jackson:jackson-core-asl:1.9.13
- org.codehaus.jackson:jackson-mapper-asl:1.9.13
- org.xerial.snappy:snappy-java:1.1.4

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- com.thoughtworks.paranamer:paranamer:2.7
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ASM: a very small and fast Java bytecode manipulation framework

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1.149 minlog 1.2

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1.150 perl-scalar-list-utils 1.27 248.el7

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1.151 jctools-core 2.1.2

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1.155 jetty-continuation 9.2.22.v20170606

1.156 util-linux 2.23.2 61.el7_7.1
1.156.1 Available under license:

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
/*
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df05d05067c18f2cf9 bsd.img

---layout---------

Device Boot Start End Blocks Id System
---------
__ts_dev__ 2048 4095 1024 83 Linux

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout---------

Device Boot Start End Blocks Id System
---------
__ts_dev__1 2048 4095 1024 83 Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8df51a88a045db233418dd73f8b bsd.img

---layout---------

__ts_dev__ 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot Start End Blocks Id System
__ts_dev__1 2048 4095 1024 83 Linux
__ts_dev__2 4096 20479 8192 a5 FreeBSD

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

---layout--------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):

b5c121c2091b2ff26b880551feac7112 bsd.img

---layout--------
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0
BSD disklabel command (m for help):
Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

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<td>5</td>
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<tr>
<td>1</td>
<td>swap</td>
<td>6</td>
<td>Eighth Edition</td>
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<td>Version 6</td>
<td>7</td>
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<td>Version 7</td>
<td>8</td>
<td>MS-DOS</td>
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<tr>
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<td>System V</td>
<td>9</td>
<td>4.4LFS</td>
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That's all there is to it!

1.161 jackson-module-parameter-names 2.9.8

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1.163 xorg-x11-font-utils 7.5 21.el7

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1.164 cpio 2.11 27.el7
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1.170 queue v1.1.0

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1.171 zlib 1.2.11

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

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1.173 jackson-dataformat-yaml 2.10.1

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1.175 gtk 3.22.30 3.el7
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From friedman@cli.com Thu May 25 12:19:06 1995
Flags: 10
Return-Path: friedman@cli.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)
Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)
id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)
Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)
id AA27213; Thu, 25 May 95 11:18:25 CDT
Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT
Message-Id: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
From: friedman@gnu.ai.mit.edu (Noah Friedman)
To: chet@po.cwru.edu
Subject: Bash scripts
Reply-To: friedman@gnu.ai.mit.edu
In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400
References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>
Date: Thu, 25 May 95 11:18:21 CST
>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. :-)

From speecdtd@armory.com Wed May 10 10:21:11 1995
Flags: 10
Return-Path: speecdtd@armory.com
Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)
id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from speecdtd@armory.com for <chet@odin.INS.CWRU.Edu>)
Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with
SMTP (8.6.10+cwru/CWRU-2.3)
id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from speecdtd@armory.com for <chet@po.cwru.edu>)
From: John DuBois <speecdtd@armory.com>
Date: Tue, 9 May 1995 22:33:12 -0700
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>
   "ksh scripts" (May 9, 1:36pm)
X-Www: http://www.armory.com/~speecdtd/
X-Mailer: Mail User's Shell (7.2.5 10/14/92)
To: chet@po.cwru.edu
Subject: Re: ksh scripts
Message-ID: <9505092233.aq13001@deepthought.armory.com>

   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:
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa2336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
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

-- End of excerpt from Chet Ramey


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From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP (8.6.12+cwr u/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
Received: (from fax@localhost) by ruby.ora.com (8.6.12/8.6.11) with UUCP id MAA23251; Tue, 1 Aug 1995 12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400

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).

1.179 libice 1.0.9 9.el7

1.179.1 Available under license:

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1.180 apache-log4j 2.11.1

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1.181 spring-boot-starter-cache 2.0.1

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1.182 expat 2.1.0-10.el7_3.0atomix1
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1.183 tomcat-embed-el 9.0.8

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Other developers who have contributed code are:

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1.191 jackson-module-jaxb-annotations 2.6.3

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### 1.192 jackson-databind 2.10.2

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1.193 sed 4.2.2 5.el7

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

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The End

1.195 dropwizard-jersey 0.9.2

1.196 fdisk 2.23.2-61.el7_7.1

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img
---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
-----------  -------  ------  ------  ---  --------
__ts_dev__  2048   4095  1024   83  Linux

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
-----------  -------  ------  ------  ---  --------
__ts_dev__1  2048   4095  1024   83  Linux

Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e87f5a88a045db233418dd73fbeb

---layout--------
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001

Device Boot  Start  End  Blocks  Id  System
-----------  -------  ------  ------  ---  --------
__ts_dev__1  2048   4095  1024   83  Linux
__ts_dev__2  4096  20479  8192   a5  FreeBSD

Create default BSD
2e1cee529cb59e9341afe0443f196a11 bsd.img

---layout--------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------
b5c121c2091b2ff26b880551feac7112 bsd.img
---layout---------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
4 partitions:
# start end size fstype [fsize bsize cpg]
a: 4096 6144 2049 4.2BSD 0 0 0
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0

BSD disklabel command (m for help):
Command (m for help):
-------------------
Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):
0 unused 5 4.1BSD 9 4.4LFS d boot
BSD disklabel command (m for help):

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---

#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)

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<signature of Ty Coon>, 1 April 1989
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1.207 protobuf-java 3.9.1

1.208 argparse 0.7.0

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1.209 lz4-java 1.6.0

1.210 netty-buffer 4.1.13
1.211 simpleclient-hotspot 0.6.0

1.212 libxfont 7.5 21.el7

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1.215 errors 0.8.1

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

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

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

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

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

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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

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

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

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a) Accompany the work with the complete corresponding
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changes were used in the work (which must be distributed under
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that the user who changes the contents of definitions files in the
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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
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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
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For an executable, the required form of the "work that uses the
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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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

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

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   (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
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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.

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

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

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

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

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

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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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1.246 perl-socket 2.010-4.el7

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1.247 cglib 3.2.4-4.2

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1.256 pcre 2.56.1 5.el7

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1.258 pip 19.2.3

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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

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1.263 lz4 2.2.0

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1.266 coreutils 8.22 24.el7

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/* chown-core.c -- core functions for changing ownership.
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/* Extracted from chown.c/chgrp.c and librarified by Jim Meyering. */
/* defined in system.h */
#define FTSENT_IS_DIRECTORY(E)
    (E)->fts_info == FTS_D
    || (E)->fts_info == FTS_DC
    || (E)->fts_info == FTS_DP
    || (E)->fts_info == FTS_DNR)

enum RCH_status
{
    /* we called fchown and close, and both succeeded */
    RC_ok = 2,

    /* required_uid and/or required_gid are specified, but don't match */
    RC_excluded,

    /* SAME_INODE check failed */
    RC_inode_changed,

    /* open/fchown isn't needed, isn't safe, or doesn't work due to
     permissions problems; fall back on chown */
    RC_do_ordinary_chown,

    /* open, fstat, fchown, or close failed */
    RC_error
};

extern void
chopt_init (struct Chown_option *chopt)
{
    chopt->verbosity = V_off;
    chopt->root_dev_ino = NULL;
    chopt->affect_symlink_referent = true;
    chopt->recurse = false;
    chopt->force_silent = false;
extern void
chopt_free (struct Chown_option *chopt _GL_UNUSED)
{
    /* Deliberately do not free chopt->user_name or ->group_name.  
     * They're not always allocated.  */
}

/* Convert the numeric group-id, GID, to a string stored in xmalloc’d memory, 
and return it.  If there’s no corresponding group name, use the decimal 
representation of the ID.  */

extern char *
 gid_to_name (gid_t gid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct group *grp = getgrgid (gid);
    return xstrdup (grp ? grp->gr_name
            : TYPE_SIGNED (gid_t) ? imaxtostr (gid, buf)
            : umaxtostr (gid, buf));
}

/* Convert the numeric user-id, UID, to a string stored in xmalloc’d memory, 
and return it.  If there’s no corresponding user name, use the decimal 
representation of the ID.  */

extern char *
uid_to_name (uid_t uid)
{
    char buf[INT_BUFSIZE_BOUND (intmax_t)];
    struct passwd *pwd = getpwuid (uid);
    return xstrdup (pwd ? pwd->pw_name
            : TYPE_SIGNED (uid_t) ? imaxtostr (uid, buf)
            : umaxtostr (uid, buf));
}

/* Allocate a string representing USER and GROUP.  */

static char *
user_group_str (char const *user, char const *group)
{
    char *spec = NULL;

    if (user)
if (group)
{
    spec = xmalloc (strlen (user) + 1 + strlen (group) + 1);
    stpcpy (stpcpy (stpcpy (spec, user), ":"), group);
}
else
{
    spec = xstrdup (user);
}
}
else if (group)
{
    spec = xstrdup (group);
}
}
return spec;
}
/* Tell the user how/if the user and group of FILE have been changed.
If USER is NULL, give the group-oriented messages.
CHANGED describes what (if anything) has happened. */
static void
describe_change (const char *file, enum Change_status changed,
                char const *old_user, char const *old_group,
                char const *user, char const *group)
{
    const char *fmt;
    char *old_spec;
    char *spec;

    if (changed == CH_NOT_APPLIED)
    {
        printf (_("neither symbolic link %s nor referent has been changed\n"),
                quote (file));
        return;
    }

    spec = user_group_str (user, group);
    old_spec = user_group_str (user ? old_user : NULL, group ? old_group : NULL);

    switch (changed)
    {
    case CH_SUCCEEDED:
        fmt = (user ? _("changed ownership of %s from %s to %s\n")
                     : group ? _("changed group of %s from %s to %s\n")
                     : _("no change to ownership of %s\n")));
        break;
    }
case CH_FAILED:
if (old_spec)
{
fmt = (user ? _("failed to change ownership of %s from %s to %s\n")
: group ? _("failed to change group of %s from %s to %s\n")
: _("failed to change ownership of %s\n"));
}
else
{
fmt = (user ? _("failed to change ownership of %s to %s\n")
: group ? _("failed to change group of %s to %s\n")
: _("failed to change ownership of %s\n"));
free (old_spec);
old_spec = spec;
spec = NULL;
}
break;
case CH_NO_CHANGE_REQUESTED:
fmt = (user ? _("ownership of %s retained as %s\n")
: group ? _("group of %s retained as %s\n")
: _("ownership of %s retained\n"));
break;
default:
abort ();
}
printf (fmt, quote (file), old_spec, spec);
free (old_spec);
free (spec);
}
/* Change the owner and/or group of the FILE to UID and/or GID (safely)
only if REQUIRED_UID and REQUIRED_GID match the owner and group IDs
of FILE. ORIG_ST must be the result of 'stat'ing FILE.
The 'safely' part above means that we can't simply use chown(2),
since FILE might be replaced with some other file between the time
of the preceding stat/lstat and this chown call. So here we open
FILE and do everything else via the resulting file descriptor.
We first call fstat and verify that the dev/inode match those from
the preceding stat call, and only then, if appropriate (given the
required_uid and required_gid constraints) do we call fchown.
Return RC_do_ordinary_chown if we can't open FILE, or if FILE is a
special file that might have undesirable side effects when opening.
In this case the caller can use the less-safe ordinary chown.

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Return one of the RCH_status values. */

static enum RCH_status
restricted_chown (int cwd_fd, char const *file,
    struct stat const *orig_st,
    uid_t uid, gid_t gid,
    uid_t required_uid, gid_t required_gid)
{
    enum RCH_status status = RC_ok;
    struct stat st;
    int open_flags = O_NONBLOCK | O_NOCTTY;
    int fd;

    if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1)
        return RC_do_ordinary_chown;

    if (! S_ISREG (orig_st->st_mode))
    {
        if (S_ISDIR (orig_st->st_mode))
            open_flags |= O_DIRECTORY;
        else
            return RC_do_ordinary_chown;
    }

    fd = openat (cwd_fd, file, O_RDONLY | open_flags);
    if (! (0 <= fd
        || (errno == EACCES && S_ISREG (orig_st->st_mode)
            && 0 <= (fd = openat (cwd_fd, file, O_WRONLY | open_flags))))))
        return (errno == EACCES ? RC_do_ordinary_chown : RC_error);

    if (fstat (fd, &st) != 0)
        status = RC_error;
    else if (! SAME_INODE (*orig_st, st))
        status = RC_inode_changed;
    else if ((required_uid == (uid_t) -1 || required_uid == st.st_uid)
        && (required_gid == (gid_t) -1 || required_gid == st.st_gid))
    {
        if (fchown (fd, uid, gid) == 0)
            { status = (close (fd) == 0 ? RC_ok : RC_error);
                return status;
            }
        else
            { status = RC_error;
                }
    }
int saved_errno = errno;
close (fd);
errno = saved_errno;
return status;
}

/* Change the owner and/or group of the file specified by FTS and ENT to UID and/or GID as appropriate.
   If REQUIRED_UID is not -1, then skip files with any other user ID.
   If REQUIRED_GID is not -1, then skip files with any other group ID.
   CHOPT specifies additional options.
   Return true if successful. */
static bool
change_file_owner (FTS *fts, FTSENT *ent,
  uid_t uid, gid_t gid,
  uid_t required_uid, gid_t required_gid,
  struct Chown_option const *chopt)
{
  char const *file_full_name = ent->fts_path;
  char const *file = ent->fts_accpath;
  struct stat const *file_stats;
  struct stat stat_buf;
  bool ok = true;
  bool do_chown;
  bool symlink_changed = true;

  switch (ent->fts_info)
  {
    case FTS_D:
      if (chopt->recurse)
      {
        if (ROOT_DEV_INO_CHECK (chopt->root_dev_ino, ent->fts_statp))
        {
          /* This happens e.g., with "chown -R --preserve-root 0 /"
             and with "chown -RH --preserve-root 0 symlink-to-root". */
          ROOT_DEV_INO_WARN (file_full_name);
          /* Tell fts not to traverse into this hierarchy. */
          fts_set (fts, ent, FTS_SKIP);
          /* Ensure that we do not process "/" on the second visit. */
          ignore_value (fts_read (fts));
          return false;
        }
        return true;
      }
    break;
  }
  return false;
  case FTS_DP:
if (! chopt->recurse)
    return true;
break;

case FTS_NS:
    /* For a top-level file or directory, this FTS_NS (stat failed)
       indicator is determined at the time of the initial fts_open call.
       With programs like chmod, chown, and chgrp, that modify
       permissions, it is possible that the file in question is
       accessible when control reaches this point. So, if this is
       the first time we've seen the FTS_NS for this file, tell
       fts_read to stat it "again". */
    if (ent->fts_level == 0 && ent->fts_number == 0)
        {
            ent->fts_number = 1;
            fts_set (fts, ent, FTS_AGAIN);
            return true;
        }
    if (! chopt->force_silent)
        error (0, ent->fts_errno, _("cannot access \%s"),
            quote (file_full_name));
    ok = false;
break;

case FTS_ERR:
    if (! chopt->force_silent)
        error (0, ent->fts_errno, _("cannot read directory \%s"),
            quote (file_full_name));
    ok = false;
break;

case FTS_DNR:
    if (! chopt->force_silent)
        error (0, ent->fts_errno, _("cannot read directory \%s"),
            quote (file_full_name));
    ok = false;
break;

case FTS_DC: /* directory that causes cycles */
    if (cycle_warning_required (fts, ent))
        {
            emit_cycle_warning (file_full_name);
            return false;
        }
    break;

default:
    break;
}
if (!ok)
{
    do_chown = false;
    file_stats = NULL;
}
else if (required_uid == (uid_t) -1 && required_gid == (gid_t) -1 &&
    chopt->verbosity == V_off &&
    ! chopt->root_dev_ino &&
    ! chopt->affect_symlink_referent)
{
    do_chown = true;
    file_stats = ent->fts_statp;
}
else
{
    file_stats = ent->fts_statp;
}
/* If this is a symlink and we're dereferencing them,
stat it to get info on the referent. */
if (chopt->affect_symlink_referent && S_ISLNK (file_stats->st_mode))
{
    if (fstatat (fts->fts_cwd_fd, file, &stat_buf, 0) != 0)
    {
        if (! chopt->force_silent)
            error (0, errno, _("cannot dereference %s"),
                quote (file_full_name));
        ok = false;
    }
    file_stats = &stat_buf;
}
do_chown = (ok
    && (required_uid == (uid_t) -1
        || required_uid == file_stats->st_uid)
    && (required_gid == (gid_t) -1
        || required_gid == file_stats->st_gid));
/* This happens when chown -LR --preserve-root encounters a symlink-to-/. */
if (ok
    && FTSENT_IS_DIRECTORY (ent)
    && ROOT_DEV_INO_CHECK (chopt->root_dev_ino, file_stats))
{
    ROOT_DEV_INO_WARN (file_full_name);
    return false;
}
if (do_chown)
{
    if ( ! chopt->affect_symlink_referent)
    {
        ok = (lchownat (fts->fts_cwd_fd, file, uid, gid) == 0);
    }

    /* Ignore any error due to lack of support; POSIX requires
     * this behavior for top-level symbolic links with -h, and
     * implies that it's required for all symbolic links. */
    if (ok && errno == EOPNOTSUPP)
        { ok = true;
          symlink_changed = false;
        }
}
else
{
    /* If possible, avoid a race condition with --from=O:G and without the
     * (-h) --no-dereference option. If fts's stat call determined
     * that the uid/gid of FILE matched the --from=O:G-selected
     * owner and group IDs, blindly using chown(2) here could lead
     * chown(1) or chgrp(1) mistakenly to dereference a *symlink*
     * to an arbitrary file that an attacker had moved into the
     * place of FILE during the window between the stat and
     * chown(2) calls. If FILE is a regular file or a directory
     * that can be opened, this race condition can be avoided safely. */

    enum RCH_status err
    = restricted_chown (fts->fts_cwd_fd, file, file_stats, uid, gid,
                        required_uid, required_gid);
    switch (err)
    {
    case RC_ok:
        break;

    case RC_do_ordinary_chown:
        ok = (chownat (fts->fts_cwd_fd, file, uid, gid) == 0);
        break;

    case RC_error:
        ok = false;
        break;

    case RC_inode_changed:
        /*FIXME: give a diagnostic in this case? */
    case RC_excluded:
        do_chown = false;
ok = false;
break;

default:
    abort ();
}

/* On some systems (e.g., GNU/Linux 2.4.x),
the chown function resets the 'special' permission bits.
Do *not* restore those bits; doing so would open a window in
which a malicious user, M, could subvert a chown command run
by some other user and operating on files in a directory
where M has write access. */

if (do_chown && !ok && !chopt->force_silent)
    error (0, errno, (uid != (uid_t) -1
        ? _("changing ownership of %s")
        : _("changing group of %s")),
    quote (file_full_name));

if (chopt->verbosity != V_off)
{
    bool changed =
        ((do_chown && ok && symlink_changed)
        && ! ((uid == (uid_t) -1 || uid == file_stats->st_uid)
            && (gid == (gid_t) -1 || gid == file_stats->st_gid)));

    if (changed || chopt->verbosity == V_high)
    {
        enum Change_status ch_status =
            (!ok ? CH_FAILED : !symlink_changed ? CH_NOT_APPLIED
                : !changed ? CH_NO_CHANGE_REQUESTED
                    : CH_SUCCEEDED);
        char *old_usr = file_stats ? uid_to_name (file_stats->st_uid) : NULL;
        char *old_grp = file_stats ? gid_to_name (file_stats->st_gid) : NULL;
        describe_change (file_full_name, ch_status,
            old_usr, old_grp,
            chopt->user_name, chopt->group_name);
        free (old_usr);
        free (old_grp);
    }
}

if ( ! chopt->recurse)
    fts_set (fts, ent, FTS_SKIP);
/* Change the owner and/or group of the specified FILES. 
BIT_FLAGS specifies how to treat each symlink-to-directory 
that is encountered during a recursive traversal. 
CHOPT specifies additional options. 
If UID is not -1, then change the owner id of each file to UID. 
If GID is not -1, then change the group id of each file to GID. 
If REQUIRED_UID and/or REQUIRED_GID is not -1, then change only 
files with user ID and group ID that match the non-(-1) value(s). 
Return true if successful. */

extern bool chown_files (char **files, int bit_flags, 
                        uid_t uid, gid_t gid, 
                        uid_t required_uid, gid_t required_gid, 
                        struct Chown_option const *chopt) { 
    bool ok = true; 

    /* Use lstat and stat only if they’re needed. */
    int stat_flags = ((required_uid != (uid_t) -1 || required_gid != (gid_t) -1 
                        || chopt->affect_symlink_referent 
                        || chopt->verbosity != V_off) ? 0 : FTS_NOSTAT); 

    FTS *fts = xfts_open (files, bit_flags | stat_flags, NULL); 

    while (1) { 
        FTSENT *ent; 

        ent = fts_read (fts); 
        if (ent == NULL) 
            { 
            if (errno != 0) 
                { 
                /* FIXME: try to give a better message */
                if (! chopt->force_silent) 
                    error (0, errno, _("fts_read failed"); 
                    ok = false; 
            } 
            break; 
        } 

        ok &= change_file_owner (fts, ent, uid, gid, 
                                      required_uid, required_gid, 
                                      chopt); 

        if (! ok) 
            break; 

    } 

required_uid, required_gid, chopt);

} else if (fts_close (fts) != 0)
{
    error (0, errno, _("fts_close failed"));
    ok = false;
}

return ok;
}

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Version 3, 29 June 2007

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

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

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From RPM File Metadata:GPLv3+

1.267 zlib 1.2.3

1.267.1 Available under license :

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

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Voice phone: (33) 93.65.77.71, Fax: (33) 93 65 77 66, Telex: 97 00 50 F

Ven syntax file
Language:Software Distributor product specification file
(POSIX 1387.2-1995).
Maintainer:Rex Barzee <rex_barzee@hp.com>
Last change:25 Apr 2001

if version < 600
  " Remove any old syntax stuff hanging around
  syn clear
elseif exists("b:current_syntax")
  finish
endif

" Product specification files are case sensitive
syn case match

syn keyword psfObject bundle category control_file depot distribution
syn keyword psfObject end file fileset host installed_software media
syn keyword psfObject product root subproduct vendor

syn match  psfUnquotString +[^" # ][^#]*+ contained
syn region psfQuotString  start=+""+ skip=+\"+ end=+""+ contained

syn match  psfObjTag  "\([-+_A-Z0-9a-z]\)+\([-+_A-Z0-9a-z]\)+" contained
syn match  psfAttAbbrev  "\(<\(fa|fr|aclqrvy\)<\|\<\|=<\|=<\|=<\|=<\|=<\|^\|+" contained
syn match  psfObjTags  "\([-+_A-Z0-9a-z]\)+\([-+_A-Z0-9a-z]\)+\([-+_A-Z0-9a-z]\)+\([-+_A-Z0-9a-z]\)+\([-+_A-Z0-9a-z]\)+\([-+_A-Z0-9a-
Some of the attributes covered by attUnquotString and attQuotString:

- architecture
- category_tag
- control_directory
- copyright
- create_date
- description
- directory
- file_permissions
- install_source
- install_type
- location
- machine_type
- mod_date
- number
- os_name
- os_release
- os_version
- pose_as_os_name
- pose_as_os_release
- readme
- revision
- share_link
- title
- vendor_tag

These regions are defined in attempt to do syntax checking for some of the attributes.

The regions are:

- psfAttUnquotString
- psfAttQuotString
- psfAttTag
- psfAttSpec
- psfAttTags
- psfAttNumber
- psfAttTime
- psfAttFloat
" Define the default highlighting.
" For version 5.7 and earlier: only when not done already
" For version 5.8 and later: only when an item doesn't have highlighting yet
if version >= 508 || !exists("did_psf_syntax_inits")
    if version < 508
        let did_psf_syntax_inits = 1
        command -nargs=+ HiLink hi link <args>
    else
        command -nargs=+ HiLink hi def link <args>
    endif
endif

HiLink psfObject Statement
HiLink psfAttrib Type
HiLink psfQuotString String
HiLink psfObjTag Identifier
HiLink psfAttAbbrev PreProc
HiLink psfObjTags Identifier

HiLink psfComment Comment
delcommand HiLink
endif

" Long descriptions and copyrights confuse the syntax highlighting, so
" force vim to backup at least 100 lines before the top visible line
" looking for a sync location.
syn sync lines=100

let b:current_syntax = "psf"
*uganda.txt*   For Vim version 7.4. Last change: 2013 Jul 06
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see [kcc] below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See [sponsor]. The money goes to Uganda anyway.

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Note:

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- If you want to support further Vim development consider becoming a [sponsor]. The money goes to Uganda anyway.

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

Kibaale Children's Centre	*kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.
The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

*donate*

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my
personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o. box 1658
Masaka, Uganda, East Africa

Sending money:*iccf-donations*

Check the ICCF web site for the latest information! See [iccf] for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly.
Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.
Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:ft=help:norl:
1.270 jersey-guava 2.25.1

1.271 texinfo 5.1 5.el7

1.271.1 Available under license:

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Version 3, 29 June 2007

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1.281 jersey-client 2.22.1

1.282 libsemanage 2.5-14.el7.0atomix1

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# Jackson JSON processor

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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diff --git a/yum/update_md.py b/yum/update_md.py
--- a/yum/update_md.py 2015-01-19 07:44:35.567107008 -0500
@@ -398,6 +399,9 @@ class UpdateMetadata(object):
 except Errors.RepoMDError:
     continue # No metadata found for this repo

+    self.arch_storage = ArchStorage()
+    self.archlist = self.arch_storage.archlist
+
    def get_notices(self, name=None):
        """ Return all notices. """
        if name is None:
@@ -434,16 +438,29 @@ class UpdateMetadata(object):
             name = oldpkguptup[0]
             arch = oldpkguptup[1]
             ret = []
+            other_arch_list = []
+            notices = set()
            for notice in self.get_notices(name):
                for upkg in notice['pkglist']:
                    for pkg in upkg['packages']:
                        +                        other_arch = False
                        if pkg['name'] != name or pkg['arch'] != arch:
                            continue
if (notice not in notices and pkg['name'] == name and pkg['arch'] in self.archlist):
    other_arch = True
else:
    continue
pkgtup = (pkg['name'], pkg['arch'], pkg['epoch'] or '0',
           pkg['version'], pkg['release'])
if _rpm_tup_vercmp(pkgtup, oldpkgtup) <= 0:
    continue
- ret.append((pkgtup, notice))
+ if other_arch:
+     other_arch_list.append((pkgtup, notice))
+ else:
+     ret.append((pkgtup, notice))
+         notices.add(notice)
for pkgtup, notice in other_arch_list:
    if notice not in notices:
        ret.append((pkgtup, notice))
ret.sort(cmp=_rpm_tup_vercmp, key=lambda x: x[0], reverse=True)
return ret

import rpmUtils.miscutils
from rpmUtils.arch import ArchStorage

class UpdateNotice(object):
    def __init__(self, elem=None):  
        self._md = {'from': '',
                    'type': '',

if elem:
    self._parse(elem)

if elem:
    self._parse(elem)


```python
self._vlogger = vlogger

def __getitem__(self, item):
    """ Allows scriptable metadata access (ie: un['update_id']). """
    if type(item) is int:
        return un[item]

    return super().__getitem__(item)

@ -103,6 +106,7 @
class UpdateNotice(object):
    # Tests to see if it's "the same data", which means that the
    # packages can be different (see add_notice).

    def _rid(un):
        if hasattr(un, '_repoid') and un._repoid is not None:
            return un._repoid
        else:
            return '<unknown>'

    def _log_failure(data):
        """Log the mismatched data similarly to conflict markers in git."""
        if self._vlogger is None:
            return
        msg = _('Duplicate of %s differs in some fields:
')
        msg += '<<<<<<< %s:%s
' % (_rid(other), data)
        msg += '%r
=======
%r
' % (other._md[data], self._md[data])
        msg += '>>>>>>> %s:%s' % (_rid(self), data)
        # --verbose mode enables this
        self._vlogger.log(logginglevels.DEBUG_3, msg)
        return False

    if not other or not hasattr(other, '_md'):
        return False

    if data == 'status': # FIXME: See below...
        continue
    if self._md[data] != other._md[data]:
        _log_failure(data)
        return False
    if self._md[data] not in ('stable', 'testing'):
        _log_failure(data)
        return False
    if other._md[data] not in ('stable', 'testing'):
        _log_failure(data)
        return False

    # They are both really "stable" ...
```

---

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

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1.296 jetty-xml 9.2.13.v20150730

1.297 mesa 18.3.4-6.el7_7

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Yes to both questions.

Thanks,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:49 PM
To: Jorge Jimenez <iryoku@gmail.com>
CC: jorge@iryoku.com
Subject: Re: Question about Mesa MLAA license

On 01/08/2013 12:39 PM, Jorge Jimenez wrote:
> Hi Tom,
>
> What we meant with that is that we made an exception for clause 2.
> Instead of clause 2, in the case of the Mesa project, you have to name
> the technique Jimenez's MLAA in the config options of Mesa. We did that
> just to allow them to solve license issues. This exception should be for
> the Mesa project, and any project using Mesa, like Fedora.
>
> We want to widespread usage of our MLAA, so we want to avoid any kind of
> license complications. Hope current one is good for Fedora, if not
> please tell, and we'll see what we can do!

Okay, a few more questions:

* If Fedora decides to simply reproduce the quoted statement:
  "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
  Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."

Specifically, if this is done as part of documentation included with
Mesa, is that sufficient to meet clause 2 even if the Mesa config option is not set as described in your exception?

* Currently, the Mesa config option for MLAA says: "Morphological anti-aliasing based on Jimenez's MLAA. 0 to disable, 8 for default quality". Is this in compliance with your exception?

Thanks again,

~tom

==
Fedora Project

Subject: RE: Question about Mesa MLAA license
From: Jorge Jimenez <iryoku@gmail.com>
Date: 01/08/2013 12:39 PM
To: "jorge@iryoku.com" <jorge@iryoku.com>, Tom Callaway <tcallawa@redhat.com>

Hi Tom,

What we meant with that is that we made an exception for clause 2. Instead of clause 2, in the case of the Mesa project, you have to name the technique Jimenez's MLAA in the config options of Mesa. We did that just to allow them to solve license issues. This exception should be for the Mesa project, and any project using Mesa, like Fedora.

We want to widespread usage of our MLAA, so we want to avoid any kind of license complications. Hope current one is good for Fedora, if not please tell, and we'll see what we can do!

Cheers,
Jorge

From: Tom Callaway <tcallawa@redhat.com>
Sent: January 8, 2013 6:30 PM
To: jorge@iryoku.com
Subject: Question about Mesa MLAA license

Jorge,

Thanks for all of your fantastic graphics work! I have been auditing Fedora (a popular distribution of Linux) for license compliance and I came across your MLAA code in Mesa.

The license says:

* 2. Redistributions in binary form must reproduce the following
statement:
*
* "Uses Jimenez's MLAA. Copyright (C) 2010 by Jorge Jimenez, Belen Masia,
* Jose I. Echevarria, Fernando Navarro and Diego Gutierrez."
* Only for use in the Mesa project, this point 2 is filled by naming the
* technique Jimenez's MLAA in the Mesa config options.

That wording is unclear. When you say "Only for use in the Mesa
project...", it seems like you could either be saying:

- This code may only be used as part of Mesa.

OR

- In Mesa, you can comply with clause 2 by simply selecting "Jimenez's
MLAA" in the Mesa config options.

*****

If the first item is true, then we may have to remove the MLAA code from
Fedora's copy of Mesa. However, looking at the license on your SMAA
code, I do not believe it to be the case. Please let me know either way!

Thanks in advance,

Tom Callaway
Fedora Legal

==
Fedora Project

1.298 openssl 1.1.1g
1.298.1 Available under license :

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

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-----------------------

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1.299 perl-pathtools 3.40 5.el7

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

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using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

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

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particular problem was addressed when the [Modified BSD
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(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

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

## MIT Kerberos

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### 1.301 systemd-shim 219-67.el7_7.4

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1.303 commons-cli 1.4

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

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

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

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

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

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

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

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

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

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

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

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

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

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
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It may happen that this requirement contradicts the license
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1.314 libdevmapper 1.02.149-10

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

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

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

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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.321 libjpeg 1.2.90 8.el7
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README for release 6b of 27-Mar-1998

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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.

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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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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

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

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


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

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

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

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

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

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

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

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

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

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

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

If you are on a Unix machine, we highly recommend Jef Poskanzer's free 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.

1.322 metrics-json 3.1.2
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Mesa 3-D graphics library
Version:  7.0

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1.326 joda-time 2.10.1

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1.327 protobuf-java-format 1.4

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1.328 calcite-core 1.20.0

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The initial code for shuffling an array (originally in class
"org.apache.commons.math3.random.RandomDataGenerator", now replaced by
a method in class "org.apache.commons.math3.util.MathArrays") was
inspired from the algorithm description provided in
"Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).
The textbook (containing a proof that the shuffle is uniformly random) is
available here:
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krb4

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libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

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notice like this when it starts in an interactive mode:

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******************************************************************************

****include/GL/gl.h :****

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include/GL/wglxext.h :

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Mailing Address: 1800 McGill College Avenue, Suite 800, H3A 3J6 Montreal, Quebec (Canada)

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Date:

Signature:

Name: Gordon King

Positions: Chief Operational Officer

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<table>
<thead>
<tr>
<th>Name</th>
<th>Date added</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
</tr>
</tbody>
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Oracle

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

javax.servlet:javax.servlet-api
javax.servlet.jsp:javax.servlet.jsp-api
org.glassfish.web:javax.servlet.jsp
org.glassfish.web:javax.servlet.jsp
org.glassfish.web:javax.servlet.jsp.jstl
org.eclipse.jetty.orbit:javax.servlet.jsp.jstl

------
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
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The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli
org.apache.tomcat:tomcat-jsp-api
org.apache.tomcat:tomcat-el-api
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el
org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Mailing Address: 7/9-11 Cook St, Sutherland, NSW 2232, Australia

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1.346 cryptsetup 2.0.3 5.el7

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Ian Fleming was a UNIX fan!
How do I know? Well, James Bond had the (license to kill) number 007,
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1.354 nss-util 3.44.0-4.el7_7
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# here. Please keep the list sorted by first names.

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1.374 findutils 4.5.11 6.el7

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1.379 metrics 3.1.2

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The End

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abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'
built_reQUIRES:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

--------------------------------------------------------------------------

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

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Version 3, 19 November 2007

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=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

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

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

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

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

  $year;
}

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

  $year;
}

1.385 libcap 219-67.el7_7.4
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#!perl

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
    open my $readme, '<', '../README' or die "Opening README failed: $!";

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

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

    $year;
}

sub v_year
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---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the Module-Build mailing list at <module-build@perl.org>.

build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49

generated_by: 'Module::Build version 0.3608'
license: gpl

meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
  name: Module-Build

resources:
  MailingList: mailto:module-build@perl.org
  license: http://dev.perl.org/licenses/
  repository: http://github.com/dagolden/module-build/
  version: 3

------------------------------------------------------------------

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

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1.393 flink-shaded-netty 4.1.32.final
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1.394 jackson-dataformat-yaml 2.8.6
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# SFC64

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

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# PCG64

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PCG Random Number Generation for C.

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# SPLITMIX64

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# MT19937

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The rk_random and rk_seed functions algorithms and the original design of the Mersenne Twister RNG:

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Original algorithm for the implementation of rk_interval function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the rk_double implementation by Isaku Wada.

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Not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
  or consider a pattern matching anonymous function: `\{ case (a, b) => ... \}
val x: ((Int, Int) => Int) = (((a, b)) => a)
^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
  or consider a pattern matching anonymous function: `\{ case (param1, param2) => ... \}
val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)
^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple3, or consider a pattern matching anonymous function: `case (param1, ..., param3) => ...`

val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

three errors found

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1.408 animal-sniffer-annotation 1.14

1.409 jersey-server 2.22.1

1.410 perl-podlators 2.5.1 3.el7
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The snowball stemmers in analysis/common/src/java/net/sf/snowball were developed by Martin Porter and Richard Boulton.
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The full snowball package is available from http://snowball.tartarus.org/

The KStem stemmer in
The Arabic, Persian, Romanian, Bulgarian, Hindi and Bengali analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
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- analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt
- analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt


The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:
- analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
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- analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
- analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
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===========================================================================
Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

This software includes a binary and/or source version of data from

mecab-ipadic-2.7.0-20070801

which can be obtained from

http://atilika.com/releases/mecab-ipadic/mecab-ipadic-2.7.0-20070801.tar.gz

or

http://jaist.dl.sourceforge.net/project/mecab/mecab-ipadic/2.7.0-20070801/mecab-ipadic-2.7.0-20070801.tar.gz

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https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

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VERSION: 2.1 PoliMorf
BUILD: 2016-02-13 19:37:50+01:00
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* Mark M. Hoffman
Many improvements to the libsensors configuration file scanner.

* Jean Delvare

New libsensors API, and migration of sensors and sensord thereto.
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Configuration file converter.
Rewrite of sensors-detect.
Support for multiple configuration files in libsensors.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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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, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was 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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The End

1.452 cyrus-sasl 2.1.26 23.el7

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 * Rob Earhart
 * Rob Siemborski
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 * Tim Martin
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 * Rob Siemborski
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1.453 libutempter 1.1.6 4.el7

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1.454 cups 1.6.3 40.el7

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

one line to give the program's name and an idea of what it does.

Copyright (C) yyyy name of author

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You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

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

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

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

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

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

H2 CLASS="title">GNU LIBRARY GENERAL PUBLIC LICENSE</A></H2>

P>Version 2, June 1991

PRE
Copyright (C) 1991 Free Software Foundation, Inc.
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Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]
</PRE>

H3>Preamble</H3>

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

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

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

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

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

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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

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

In addition, mere aggregation of another work not based on the Library
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This option is useful when you wish to copy part of the code of
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

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link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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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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<H3>How to Apply These Terms to Your New Libraries</H3>

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</pre>

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school, if any, to sign a "copyright disclaimer" for the library, if
necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the library 'Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

1.455 python-iniparse 0.4-9.el7

1.455.1 Available under license :

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iniparse/compat.py and tests/test_compat.py contain code derived from lib/python-2.3/ConfigParser.py and lib/python-2.3/test/test_cfgparse.py respectively. Other code may contain small snippets from those two files as well. The Python license (LICENSE-PSF) applies to that code.

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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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<th>Owner</th>
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Footnotes:

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1.456 goprotobuf v1.2.0

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1.458 argparse 0.6.0

1.459 jetty-io 9.2.22.v20170606

1.460 hppc 0.8.1

1.461 less 458 9.el7

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1.463 google-protobuf 3.9.1

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1.464 pygpgme 0.3 9.el7

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procfs provides functions to retrieve system, kernel and process
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jloup@gzip.org     madler@alumni.caltech.edu

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1.476 bzip2 1.0.6-13.el7atomix1

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bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.477 xorg-server 1.0.9 9.el7

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1.478 libtirpc 0.2.4 0.16.el7

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1.479 checker-compat-qual 2.5.2

1.480 spring-boot-starter-json 2.0.1

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1.481 libxcursor 1.1.15-1.el7.0atomix1

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1.482 dropwizard-configuration 0.9.2
1.483 commons-lang3 3.5

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1.487 bean-validation-api 1.1.0

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.491 simpleclient-dropwizard 0.6.0

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1.492 device-mapper-multipath 0.4.9-127.el7

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[This is the first released version of the library GPL. It is
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1.494 dropwizard-util 0.9.2

1.495 centos-release 7-7.1908.0.el7.centos

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## Special Recognition ##

One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks : but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.

Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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1.506 libsm 1.2.2 2.el7
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1.509 openssl 1.0.2r

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1.518 joda-time 2.5
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1.520 jersey-bean-validation 2.22.1

1.521 jackson-databind 2.6.3

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
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1.522 p11-kit 0.23.5-3.el7

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1.523 libgpg-error 1.12-3.el7atomix1

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1.537 bean-validation-api 2.0.1

1.537.1 Available under license:

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1.538 netty-handler 4.1.13
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1.539 nginx 1.12.2

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1.540 hibernate-validator 6.0.9

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1.552 protobuf-java 2.6.1

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1.553 diffutils 3.3 5.el7
1.553.1 Available under license:

From RPM File Metadata:GPLv3+
/* diff - compare files line by line

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the Free Software Foundation, either version 3 of the License, or
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along with this program.  If not, see <http://www.gnu.org/licenses/>.  */

#define GDIFF_MAIN
#include "diff.h"
#include <assert.h>
#include "paths.h"
#include <c-stack.h>
#include <dirname.h>
#include <error.h>
#include <exclude.h>
#include <exitfail.h>
#include <filenamecat.h>
#include <file-type.h>
#include <fnmatch.h>
#include <getopt.h>
#include <hard-locale.h>
#include <prepargs.h>
#include <progsame.h>
#include <sh-quote.h>
#include <stat-time.h>
#include <timespec.h>
#include <version-etc.h>
#include <xalloc.h>
#include <xreadlink.h>
#include <binary-io.h>

/* The official name of this program (e.g., no 'g' prefix). */
#define PROGRAM_NAME "diff"

#define AUTHORS \
    proper_name ("Paul Eggert"), \
    proper_name ("Mike Haertel"), \
    proper_name ("David Hayes"), \
    proper_name ("Richard Stallman"), \
proper_name ("Len Tower")

#ifndef GUTTER_WIDTH_MINIMUM
# define GUTTER_WIDTH_MINIMUM 3
#endif

struct regexp_list
{
    char *regexps;/* chars representing disjunction of the regexps */
    size_t len;/* chars used in 'regexps' */
    size_t size;/* size malloc'ed for 'regexps'; 0 if not malloc'ed */
    bool multiple_regexps;/* Does 'regexps' represent a disjunction? */
    struct re_pattern_buffer *buf;
};

static int compare_files (struct comparison const *, char const *, char const *);
static void add_regexp (struct regexp_list *, char const *);
static void summarize_regexp_list (struct regexp_list *);
static void specify_style (enum output_style);
static void specify_value (char const **, char const *, char const *);
static void try_help (char const *, char const *) __attribute__((noreturn));
static void check_stdout (void);
static void usage (void);

/* If comparing directories, compare their common subdirectories recursively. */
static bool recursive;

/* In context diffs, show previous lines that match these regexps. */
static struct regexp_list function_regexp_list;

/* Ignore changes affecting only lines that match these regexps. */
static struct regexp_list ignore_regexp_list;

#if O_BINARY
/* Use binary I/O when reading and writing data (--binary). On POSIX hosts, this has no effect. */
static bool binary;
#else
enum { binary = true };
#endif

/* If one file is missing, treat it as present but empty (-N). */
static bool new_file;

/* If the first file is missing, treat it as present but empty
   (--unidirectional-new-file). */
static bool unidirectional_new_file;
/ * Report files compared that are the same (-s). 
 * Normally nothing is output when that happens. */ 
static bool report_identical_files;

static char const shortopts[] =
"0123456789abCcD:efG:hiIL:nPqrsSTuU:vwW:x:yZ";

/* Values for long options that do not have single-letter equivalents. */
enum
{
  BINARY_OPTION = CHAR_MAX + 1,
  FROM_FILE_OPTION,
  HELP_OPTION,
  HORIZON_LINES_OPTION,
  IGNORE_FILE_NAME_CASE_OPTION,
  INHIBIT_HUNK_MERGE_OPTION,
  LEFT_COLUMN_OPTION,
  LINE_FORMAT_OPTION,
  NO_DEREFERENCE_OPTION,
  NO_IGNORE_FILE_NAME_CASE_OPTION,
  NORMAL_OPTION,
  SDIFF_MERGE_ASSIST_OPTION,
  STRIP_TRAILING_CR_OPTION,
  SUPPRESS_BLANK_EMPTY_OPTION,
  SUPPRESS_COMMON_LINES_OPTION,
  TABSIZE_OPTION,
  TO_FILE_OPTION,

  /* These options must be in sequence. */
  UNCHANGED_LINE_FORMAT_OPTION,
  OLD_LINE_FORMAT_OPTION,
  NEW_LINE_FORMAT_OPTION,

  /* These options must be in sequence. */
  UNCHANGED_GROUP_FORMAT_OPTION,
  OLD_GROUP_FORMAT_OPTION,
  NEW_GROUP_FORMAT_OPTION,
  CHANGED_GROUP_FORMAT_OPTION
};

static char const group_format_option[][sizeof "--unchanged-group-format"] =
{"--unchanged-group-format",
"--old-group-format",
"--new-group-format",
"--changed-group-format"};
static char const line_format_option[] =
{
    "--unchanged-line-format",
    "--old-line-format",
    "--new-line-format"
};

static struct option const longopts[] =
{
    {"binary", 0, 0, BINARY_OPTION},
    {"brief", 0, 0, 'q'},
    {"changed-group-format", 1, 0, CHANGED_GROUP_FORMAT_OPTION},
    {"context", 2, 0, 'C'},
    {"ed", 0, 0, 'e'},
    {"exclude", 1, 0, 'x'},
    {"exclude-from", 1, 0, 'X'},
    {"expand-tabs", 0, 0, 't'},
    {"forward-ed", 0, 0, 'f'},
    {"from-file", 1, 0, FROM_FILE_OPTION},
    {"help", 0, 0, HELP_OPTION},
    {"horizon-lines", 1, 0, HORIZON_LINES_OPTION},
    {"ifdef", 1, 0, 'D'},
    {"ignore-all-space", 0, 0, 'w'},
    {"ignore-blank-lines", 0, 0, 'B'},
    {"ignore-case", 0, 0, 'i'},
    {"ignore-file-name-case", 0, 0, IGNORE_FILE_NAME_CASE_OPTION},
    {"ignore-matching-lines", 1, 0, 'I'},
    {"ignore-space-change", 0, 0, 'b'},
    {"ignore-tab-expansion", 0, 0, 'E'},
    {"ignore-trailing-space", 0, 0, 'Z'},
    {"inhibit-hunk-merge", 0, 0, INHIBIT_HUNK_MERGE_OPTION},
    {"initial-tab", 0, 0, 'T'},
    {"label", 1, 0, 'L'},
    {"left-column", 0, 0, LEFT_COLUMN_OPTION},
    {"line-format", 1, 0, LINE_FORMAT_OPTION},
    {"minimal", 0, 0, 'd'},
    {"new-file", 0, 0, 'N'},
    {"new-group-format", 1, 0, NEW_GROUP_FORMAT_OPTION},
    {"new-line-format", 1, 0, NEW_LINE_FORMAT_OPTION},
    {"no-dereference", 0, 0, NO_DEREFERENCE_OPTION},
    {"no-ignore-file-name-case", 0, 0, NO_IGNORE_FILE_NAME_CASE_OPTION},
    {"normal", 0, 0, NORMAL_OPTION},
    {"old-group-format", 1, 0, OLD_GROUP_FORMAT_OPTION},
    {"old-line-format", 1, 0, OLD_LINE_FORMAT_OPTION},
    {"paginate", 0, 0, 'T'},
    {"rcs", 0, 0, 'n'},
    {"recursive", 0, 0, 'r'},
static char *
option_list (char **optionvec, int count)
{
    int i;
    size_t size = 1;
    char *result;
    char *p;

    for (i = 0; i < count; i++)
        size += 1 + shell_quote_length (optionvec[i]);

    p = result = xmalloc (size);

    for (i = 0; i < count; i++)
    {
        *p++ = ' ';
        p = shell_quote_copy (p, optionvec[i]);
    }

    /* Return a string containing the command options with which diff was invoked.
     * Spaces appear between what were separate ARGV-elements.
     * There is a space at the beginning but none at the end.
     * If there were no options, the result is an empty string.
     *
     * Arguments: OPTIONVEC, a vector containing separate ARGV-elements, and COUNT,
     * the length of that vector. */

    return result;
}
static int
exclude_options (void)
{
    return EXCLUDE_WILDCARDS | (ignore_file_name_case ? FNM_CASEFOLD : 0);
}

int
main (int argc, char **argv)
{
    int exit_status = EXIT_SUCCESS;
    int c;
    int i;
    int prev = -1;
    lin ocontext = -1;
    bool explicit_context = false;
    size_t width = 0;
    bool show_c_function = false;
    char const *from_file = NULL;
    char const *to_file = NULL;
    uintmax_t numval;
    char *numend;

    /* Do our initializations. */
    exit_failure = EXIT_TROUBLE;
    initialize_main (&argc, &argv);
    set_program_name (argv[0]);
    setlocale (LC_ALL, "");
    bindtextdomain (PACKAGE, LOCALEDIR);
    textdomain (PACKAGE);
    c_stack_action (0);
    function_regexp_list.buf = &function_regexp;
    ignore_regexp_list.buf = &ignore_regexp;
    re_set_syntax (RE_SYNTAX_GREP | RE_NO_POSIX_BACKTRACKING);
    excluded = new_exclude ();

    /* Decode the options. */

    while ((c = getopt_long (argc, argv, shortopts, longopts, NULL)) != -1)
    {
        switch (c)
{  
  case 0:  
    break;
  case '0':  
    break;
  case '1':  
    break;
  case '2':  
    break;
  case '3':  
    break;
  case '4':  
    break;
  case '5':  
    break;
  case '6':  
    break;
  case '7':  
    break;
  case '8':  
    break;
  case '9':  
    if (! ISDIGIT (prev))  
      ocontext = c - '0';  
    else if (LIN_MAX / 10 < ocontext  
            || ((ocontext = 10 * ocontext + c - '0') < 0))  
      ocontext = LIN_MAX;  
    break;
  case 'a':  
    text = true;  
    break;
  case 'b':  
    if (ignore_white_space < IGNORE_SPACE_CHANGE)  
      ignore_white_space = IGNORE_SPACE_CHANGE;  
    break;
  case 'Z':  
    if (ignore_white_space < IGNORE_SPACE_CHANGE)  
      ignore_white_space |= IGNORE_TRAILING_SPACE;  
    break;
  case 'B':  
    ignore_blank_lines = true;  
    break;
  case 'C':  
  case 'U':  
  {  
    if (optarg)  
    {  
      numval = strtoumax (optarg, &numend, 10);  
      if (*numend)  
        try_help ("invalid context length \"%s\", optarg);  
      if (LIN_MAX < numval)
numval = LIN_MAX;
}
else
numval = 3;

specify_style (c == 'U' ? OUTPUT_UNIFIED : OUTPUT_CONTEXT);
if (context < numval)
context = numval;
explicit_context = true;
}
break;

case 'c':
specify_style (OUTPUT_CONTEXT);
if (context < 3)
context = 3;
break;

case 'd':
minimal = true;
break;

case 'D':
specify_style (OUTPUT_IFDEF);
{
static char const C_ifdef_group_formats[] =
"%%=%c#ifndef %s
%%<#endif /* ! %s */
%c#ifdef %s
%%>#endif /* %s */
%c#ifndef %s
%%<#else /* %s */
%%>#endif /* %s */
";
char *b = xmalloc (sizeof C_ifdef_group_formats
+ 7 * strlen (optarg) - 14 /* 7*"%s" */
- 8 /* 5*"%c" + 3*"%s" */);
sprintf (b, C_ifdef_group_formats,
0,
optarg, optarg, 0,
optarg, optarg, 0,
optarg, optarg, optarg);
for (i = 0; i < sizeof group_format / sizeof group_format[0]; i++)
{
specify_value (&group_format[i], b, ":-D");
b += strlen (b) + 1;
}
break;

case 'e':
specify_style (OUTPUT_ED);
break;
case 'E':
    if (ignore_white_space < IGNORE_SPACE_CHANGE)
        ignore_white_space |= IGNORE_TAB_EXPANSION;
    break;

case 'T':
    specify_style (OUTPUT_FORWARD_ED);
    break;

case 'F':
    add_regexp (&function_regexp_list, optarg);
    break;

case 'h':
    /* Split the files into chunks for faster processing.
       Usually does not change the result.
       This currently has no effect. */
    break;

case 'H':
    speed_large_files = true;
    break;

case 'i':
    ignore_case = true;
    break;

case 'I':
    add_regexp (&ignore_regexp_list, optarg);
    break;

case 't':
    if (!pr_program[0])
        try_help ("pagination not supported on this host", NULL);
    paginate = true;
    #ifdef SIGCHLD
    /* Pagination requires forking and waiting, and
       System V fork+wait does not work if SIGCHLD is ignored. */
    signal (SIGCHLD, SIG_DFL);
    #endif
    break;

case 'L':
    if (!file_label[0])
        file_label[0] = optarg;
    else if (!file_label[1])
        file_label[1] = optarg;
else
    fatal("too many file label options");
break;

case 'n':
    specify_style (OUTPUT_RCS);
    break;

case 'N':
    new_file = true;
    break;

case 'p':
    show_c_function = true;
    add_regexp (&function_regexp_list, "^[[:alpha:]$_.]");
    break;

case 'P':
    unidirectional_new_file = true;
    break;

case 'q':
    brief = true;
    break;

case 'r':
    recursive = true;
    break;

case 's':
    report_identical_files = true;
    break;

case 'S':
    specify_value (&starting_file, optarg, "-S");
    break;

case 't':
    expand_tabs = true;
    break;

case 'T':
    initial_tab = true;
    break;

case 'u':
    specify_style (OUTPUT_UNIFIED);
    if (context < 3)
context = 3;
break;

case 'v':
    version_etc (stdout, PROGRAM_NAME, PACKAGE_NAME, Version, AUTHORS, (char *) NULL);
    check.stdout ();
    return EXIT_SUCCESS;

case 'w':
    ignore_white_space = IGNORE_ALL_SPACE;
    break;

case 'x':
    add_exclude (excluded, optarg, exclude_options ());
    break;

case 'X':
    if (add_exclude_file (add_exclude, excluded, optarg, exclude_options (), '\n'))
        pfatal_with_name (optarg);
    break;

case 'y':
    specify_style (OUTPUT_SDIFF);
    break;

case 'W':
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid width '\%s'", optarg);
    if (width != numval)
        fatal ("conflicting width options");
    width = numval;
    break;

case BINARY_OPTION:
    #if O_BINARY
    binary = true;
    if (! isatty (STDOUT_FILENO))
        set_binary_mode (STDOUT_FILENO, O_BINARY);
    #endif
    break;

case FROM_FILE_OPTION:
specify_value (&from_file, optarg, "--from-file");
break;

case HELP_OPTION:
    usage ();
    check_stdout ();
    return EXIT_SUCCESS;

case HORIZON_LINES_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (*numend)
        try_help ("invalid horizon length '%s'", optarg);
    horizon_lines = MAX (horizon_lines, MIN (numval, LIN_MAX));
    break;

case IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = true;
    break;

case INHIBIT_HUNK_MERGE_OPTION:
    /* This option is obsolete, but accept it for backward
     * compatibility. */
    break;

case LEFT_COLUMN_OPTION:
    left_column = true;
    break;

case LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        specify_value (&line_format[i], optarg, "--line-format");
    break;

case NO_DEREFERENCE_OPTION:
    no_dereference_symlinks = true;
    break;

case NO_IGNORE_FILE_NAME_CASE_OPTION:
    ignore_file_name_case = false;
    break;

case NORMAL_OPTION:
    specify_style (OUTPUT_NORMAL);
    break;

case SDIFF_MERGE_ASSIST_OPTION:
    specify_style (OUTPUT_SDIFF);
sdiff_merge_assist = true;
break;

case STRIP_TRAILING_CR_OPTION:
    strip_trailing_cr = true;
    break;

case SUPPRESS_BLANK_EMPTY_OPTION:
    suppress_blank_empty = true;
    break;

case SUPPRESS_COMMON_LINES_OPTION:
    suppress_common_lines = true;
    break;

case TABSIZE_OPTION:
    numval = strtoumax (optarg, &numend, 10);
    if (! (0 < numval && numval <= SIZE_MAX) || *numend)
        try_help ("invalid tabsize " "\%s", optarg);
    if (tabsize != numval)
        { if (tabsize)
            fatal ("conflicting tabsize options");
                tabsize = numval;
        }
    break;

case TO_FILE_OPTION:
    specify_value (&to_file, optarg, "--to-file");
    break;

case UNCHANGED_LINE_FORMAT_OPTION:
case OLD_LINE_FORMAT_OPTION:
case NEW_LINE_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_LINE_FORMAT_OPTION;
    specify_value (&line_format[c], optarg, line_format_option[c]);
    break;

case UNCHANGED_GROUP_FORMAT_OPTION:
case OLD_GROUP_FORMAT_OPTION:
case NEW_GROUP_FORMAT_OPTION:
case CHANGED_GROUP_FORMAT_OPTION:
    specify_style (OUTPUT_IFDEF);
    c -= UNCHANGED_GROUP_FORMAT_OPTION;
    specify_value (&group_format[c], optarg, group_format_option[c]);
    break;
default:
try_help (NULL, NULL);
}
prev = c;
}

if (output_style == OUTPUT_UNSPECIFIED)
{
    if (show_c_function)
    {
        specify_style (OUTPUT_CONTEXT);
        if (ocontext < 0)
            context = 3;
    }
    else
        specify_style (OUTPUT_NORMAL);
}

if (output_style != OUTPUT_CONTEXT || hard_locale (LC_TIME))
{
    #if (defined STAT_TIMESPEC || defined STAT_TIMESPEC_NS \ 
        || defined HAVE_STRUCT_STAT_ST_SPARE1)
        time_format = "%Y-%m-%d %H:%M:%S.%N %z";
    #else
        time_format = "%Y-%m-%d %H:%M:%S %z";
    #endif
}
else
{
    /* See POSIX 1003.1-2001 for this format. */
    time_format = "%a %b %e %T %Y";
}

if (0 <= ocontext
         && (output_style == OUTPUT_CONTEXT \
             || output_style == OUTPUT_UNIFIED)
         && (context < ocontext \
             || (ocontext < context && ! explicit_context)))
    context = ocontext;

if (! tabsize)
    tabsize = 8;
if (! width)
    width = 130;

/* Maximize first the half line width, and then the gutter width, 
   according to the following constraints:
1. Two half lines plus a gutter must fit in a line.
2. If the half line width is nonzero:
   a. The gutter width is at least GUTTER_WIDTH_MINIMUM.
   b. If tabs are not expanded to spaces, a half line plus a gutter is an integral number of tabs, so that tabs in the right column line up. */

```c
intmax_t t = expand_tabs ? 1 : tabsize;
intmax_t w = width;
intmax_t off = (w + t + GUTTER_WIDTH_MINIMUM) / (2 * t) * t;
sdiff_half_width = MAX (0, MIN (off - GUTTER_WIDTH_MINIMUM, w - off));
sdiff_column2_offset = sdiff_half_width ? off : w;
}

/* Make the horizon at least as large as the context, so that shift_boundaries has more freedom to shift the first and last hunks. */
if (horizon_lines < context)
    horizon_lines = context;

summarize_regexp_list (&function_regexp_list);
summarize_regexp_list (&ignore_regexp_list);

if (output_style == OUTPUT_IFDEF)
{
    for (i = 0; i < sizeof line_format / sizeof line_format[0]; i++)
        if (!line_format[i])
            line_format[i] = "%\n";
        if (!group_format[OLD])
            group_format[OLD] = group_format[CHANGED] ? group_format[CHANGED] : "%<";
        if (!group_format[NEW])
            group_format[NEW] = group_format[CHANGED] ? group_format[CHANGED] : "%>";
        if (!group_format[UNCHANGED])
            group_format[UNCHANGED] = "%=";
        if (!group_format[CHANGED])
            group_format[CHANGED] = concat (group_format[OLD], group_format[NEW], "");
}

no_diff_means_no_output =
(output_style == OUTPUT_IFDEF ?
    (!*group_format[UNCHANGED]
     || (STREQ (group_format[UNCHANGED], "%==")
        && !*line_format[UNCHANGED]))
    : (output_style != OUTPUT_SDIFF) | suppress_common_lines);
```
files_can_be_treated_as_binary =
(brief & binary
 & ~ (ignore_blank_lines | ignore_case | strip_trailing_cr
 | (ignore_regexp_list.regexps || ignore_white_space)));

switch_string = option_list (argv + 1, optind - 1);

if (from_file)
{
    if (to_file)
fatal ("--from-file and --to-file both specified");
else
for (; optind < argc; optind++)
{
    int status = compare_files (NULL, from_file, argv[optind]);
    if (exit_status < status)
        exit_status = status;
}
}
else
{
    if (to_file)
for (; optind < argc; optind++)
{
    int status = compare_files (NULL, argv[optind], to_file);
    if (exit_status < status)
        exit_status = status;
}
else
{
    if (argc - optind != 2)
    {
        if (argc - optind < 2)
try_help ("missing operand after ""%s"", argv[argc - 1]);
        else
try_help ("extra operand ""%s"", argv[optind + 2]);
    }
    exit_status = compare_files (NULL, argv[optind], argv[optind + 1]);
}
}

/* Print any messages that were saved up for last. */
print_message_queue ();

cHECK_STDOUT ();
exit (exit_status);
return exit_status;
/* Append to REGLIST the regexp PATTERN. */

static void
add_regexp (struct regexp_list *reglist, char const *pattern)
{
    size_t patlen = strlen (pattern);
    char const *m = re_compile_pattern (pattern, patlen, reglist->buf);

    if (m != 0)
        error (0, 0, "%s: %s", pattern, m);
    else
    {
        char *regexps = reglist->regexps;
        size_t len = reglist->len;
        bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
        size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
        size_t size = reglist->size;

        if (size <= newlen)
        {
            if (!size)
                size = 1;

            do size *= 2;
            while (size <= newlen);

            reglist->size = size;
            reglist->regexps = regexps = xrealloc (regexps, size);
        }
        if (multiple_regexps)
        {
            regexps[len++] = '\';
            regexps[len++] = '|';
        }
        memcpy (regexps + len, pattern, patlen + 1);
    }
}

/* Ensure that REGLIST represents the disjunction of its regexps.  
   This is done here, rather than earlier, to avoid O(N^2) behavior. */

static void
summarize_regexp_list (struct regexp_list *reglist)
{
    if (reglist->regexps)
    {
        /* Append to REGLIST the regexp PATTERN. */

        static void
        add_regexp (struct regexp_list *reglist, char const *pattern)
        {
            size_t patlen = strlen (pattern);
            char const *m = re_compile_pattern (pattern, patlen, reglist->buf);

            if (m != 0)
                error (0, 0, "%s: %s", pattern, m);
            else
            {
                char *regexps = reglist->regexps;
                size_t len = reglist->len;
                bool multiple_regexps = reglist->multiple_regexps = regexps != 0;
                size_t newlen = reglist->len = len + 2 * multiple_regexps + patlen;
                size_t size = reglist->size;

                if (size <= newlen)
                {
                    if (!size)
                        size = 1;

                    do size *= 2;
                    while (size <= newlen);

                    reglist->size = size;
                    reglist->regexps = regexps = xrealloc (regexps, size);
                }
                if (multiple_regexps)
                {
                    regexps[len++] = '\';
                    regexps[len++] = '|';
                }
                memcpy (regexps + len, pattern, patlen + 1);
            }
        }
    }
}
/* At least one regexp was specified. Allocate a fastmap for it. */
reglist->buf->fastmap = xmalloc (1 << CHAR_BIT);
if (reglist->multiple_regexps)
{
/* Compile the disjunction of the regexps.
(If just one regexp was specified, it is already compiled.) */
char const *m = re_compile_pattern (reglist->regexps, reglist->len,
reglist->buf);
if (m)
error (EXIT_TROUBLE, 0, "%s: %s", reglist->regexps, m);
}
}
}
static void
try_help (char const *reason_msgid, char const *operand)
{
if (reason_msgid)
error (0, 0, _(reason_msgid), operand);
error (EXIT_TROUBLE, 0, _("Try '%s --help' for more information."),
program_name);
abort ();
}
static void
check_stdout (void)
{
if (ferror (stdout))
fatal ("write failed");
else if (fclose (stdout) != 0)
pfatal_with_name (_("standard output"));
}
static char const * const option_help_msgid[] = {
N_(" --normal
output a normal diff (the default)"),
N_("-q, --brief
report only when files differ"),
N_("-s, --report-identical-files report when two files are the same"),
N_("-c, -C NUM, --context[=NUM] output NUM (default 3) lines of copied context"),
N_("-u, -U NUM, --unified[=NUM] output NUM (default 3) lines of unified context"),
N_("-e, --ed
output an ed script"),
N_("-n, --rcs
output an RCS format diff"),
N_("-y, --side-by-side
output in two columns"),
N_("-W, --width=NUM
output at most NUM (default 130) print columns"),
N_(" --left-column
output only the left column of common lines"),
N_(" --suppress-common-lines do not output common lines"),
"",
N_("-p, --show-c-function
show which C function each change is in"),
N_("-F, --show-function-line=RE show the most recent line matching RE"),

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N_("  --label LABEL     use LABEL instead of file name
      (can be repeated")
N_="  --expand-tabs expand tabs to spaces in output",
N_="  --initial-tab make tabs line up by prepending a tab",
N_="  --tabsize=NUM    tab stops every NUM (default 8) print columns",
N_="  --suppress-blank-empty suppress space or tab before empty output lines",
N_="  --paginate pass output through 'pr' to paginate it",
N_="  --recursive recursively compare any subdirectories found",
N_="  --no-dereference don't follow symbolic links",
N_="  --new-file treat absent files as empty",
N_="  --unidirectional-new-file treat absent first files as empty",
N_="  --ignore-file-name-case ignore case when comparing file names",
N_="  --no-ignore-file-name-case consider case when comparing file names",
N_="  --exclude=PAT exclude files that match PAT",
N_="  --exclude-from=FILE exclude files that match any pattern in FILE",
N_="  --starting-file=FILE start with FILE when comparing directories",
N_="  --from-file=FILE1 compare FILE1 to all operands
        FILE1 can be a directory",
N_="  --to-file=FILE2 compare all operands to FILE2
        FILE2 can be a directory",
N_="  --ignore-case ignore case differences in file contents",
N_="  --ignore-tab-expansion ignore changes due to tab expansion",
N_="  --ignore-trailing-space ignore white space at line end",
N_="  --ignore-space-change ignore changes in the amount of white space",
N_="  --ignore-all-space ignore all white space",
N_="  --ignore-blank-lines ignore changes where lines are all blank",
N_="  --ignore-matching-lines=RE ignore changes where all lines match RE",
N_="  --text treat all files as text",
N_="  --strip-trailing-cr strip trailing carriage return on input",
#if O_BINARY
N_="  --binary read and write data in binary mode",
#endif
N_="  --ifdef=NAME output merged file with '#ifdef NAME' diffs",
N_="  --GTYPE-group-format=GFMT format GTYPE input groups with GFMT",
N_="  --line-format=LFMT format all input lines with LFMT",
N_="  --LTYPE-line-format=LFMT format LTYPE input lines with LFMT",
These format options provide fine-grained control over the output
  of diff, generalizing -D/--ifdef.
  LTYPE is 'old', 'new', or 'unchanged'. GTYPE is LTYPE or 'changed'.

GFMT (only) may contain:
  %<  lines from FILE1
  %>  lines from FILE2
  %= lines common to FILE1 and FILE2
LETTERs are as follows for new group, lower case for old group:

F  first line number
L  last line number
N  number of lines = L-F+1
E  F-1
M  L+1

%(A=B?T:E)  if A equals B then T else E

LFMT (only) may contain:
%L  contents of line
%l  contents of line, excluding any trailing newline

Both GFMT and LFMT may contain:
%%  %
%c'C'  the single character C
%c'\OOO'  the character with octal code OOO
C    the character C (other characters represent themselves)

-d, --minimal            try hard to find a smaller set of changes
--horizon-lines=NUM  keep NUM lines of the common prefix and suffix
--speed-large-files  assume large files and many scattered small changes

--help               display this help and exit
--version            output version information and exit

FILES are ‘FILE1 FILE2’ or ‘DIR1 DIR2’ or ‘DIR FILE...’ or ‘FILE... DIR’.
If --from-file or --to-file is given, there are no restrictions on FILE(s).
If a FILE is '-', read standard input.
Exit status is 0 if inputs are the same, 1 if different, 2 if trouble.
else
{
char const *msg = _(*p);
char const *nl;
while ((nl = strchr (msg, '\n')))
{
int msglen = nl + 1 - msg;
printf (" %.*s", msglen, msg);
msg = nl + 1;
}
printf (" %s\n" + 2 * (*msg != ' ' && *msg != '-'), msg);
}
}
emit_bug_reporting_address ();
}
/* Set VAR to VALUE, reporting an OPTION error if this is a
conflict. */
static void
specify_value (char const **var, char const *value, char const *option)
{
if (*var && ! STREQ (*var, value))
{
error (0, 0, _("conflicting %s option value '%s'"), option, value);
try_help (NULL, NULL);
}
*var = value;
}
/* Set the output style to STYLE, diagnosing conflicts. */
static void
specify_style (enum output_style style)
{
if (output_style != style)
{
if (output_style != OUTPUT_UNSPECIFIED)
try_help ("conflicting output style options", NULL);
output_style = style;
}
}
/* Set the last-modified time of *ST to be the current time. */
static void
set_mtime_to_now (struct stat *st)
{
#ifdef STAT_TIMESPEC

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gettime (&STAT_TIMESPEC (st, st_mtim));
#else
struct timespec t;
gettime (&t);
st->st_mtime = t.tv_sec;
#endif
#if defined STAT_TIMESPEC_NS
STAT_TIMESPEC_NS (st, st_mtim) = t.tv_nsec;
#endif
# endif
#endif
}

/* Compare two files (or dirs) with parent comparison PARENT and names NAME0 and NAME1.  (If PARENT is null, then the first name is just NAME0, etc.)  This is self-contained; it opens the files and closes them.

Value is EXIT_SUCCESS if files are the same, EXIT_FAILURE if different, EXIT_TROUBLE if there is a problem opening them. */

static int
compare_files (struct comparison const *parent, char const *name0, char const *name1)
{
    struct comparison cmp;
#define DIR_P(f) (S_ISDIR (cmp.file[f].stat.st_mode) != 0)
    register int f;
    int status = EXIT_SUCCESS;
    bool same_files;
    char *free0;
    char *free1;

    /* If this is directory comparison, perhaps we have a file that exists only in one of the directories.
    If so, just print a message to that effect. */
    if (! ((name0 && name1) || (unidirectional_new_file && name1) || new_file))
    {
        char const *name = name0 ? name0 : name1;
        char const *dir = parent->file[!name0].name;

        /* See POSIX 1003.1-2001 for this format. */
        message ("Only in %s: %s\n", dir, name);
/* Return EXIT_FAILURE so that diff_dirs will return EXIT_FAILURE ("some files differ"). */
return EXIT_FAILURE;
}

memset (cmp.file, 0, sizeof cmp.file);
cmp.parent = parent;

/* cmp.file[f].desc markers */
#define NONEXISTENT (-1) /* nonexistent file */
#define UNOPENED (-2) /* unopened file (e.g. directory) */
#define ERRNO_ENCODE(errno) (-3 - (errno)) /* encoded errno value */
#define ERRNO_DECODE(desc) (-3 - (desc)) /* inverse of ERRNO_ENCODE */

cmp.file[0].desc = name0 ? UNOPENED : NONEXISTENT;
cmp.file[1].desc = name1 ? UNOPENED : NONEXISTENT;

/* Now record the full name of each file, including nonexistent ones. */
if (!name0)
  name0 = name1;
if (!name1)
  name1 = name0;

if (!parent)
{
  free0 = NULL;
  free1 = NULL;
  cmp.file[0].name = name0;
  cmp.file[1].name = name1;
}
else
{
  cmp.file[0].name = free0
  = file_name_concat (parent->file[0].name, name0, NULL);
  cmp.file[1].name = free1
  = file_name_concat (parent->file[1].name, name1, NULL);
}

/* Stat the files. */

for (f = 0; f < 2; f++)
{
  if (cmp.file[f].desc != NONEXISTENT)
  {
    if (f && file_name_cmp (cmp.file[f].name, cmp.file[0].name) == 0)
    {

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cmp.file[f].desc = cmp.file[0].desc;
cmp.file[f].stat = cmp.file[0].stat;
}
else if (STREQ (cmp.file[f].name, "-"))
{
    cmp.file[f].desc = STDIN_FILENO;
    if (binary && ! isatty (STDIN_FILENO))
        set_binary_mode (STDIN_FILENO, O_BINARY);
    if (fstat (STDIN_FILENO, &cmp.file[f].stat) != 0)
        cmp.file[f].desc = ERRNO_ENCODE (errno);
    else
        {
            if (S_ISREG (cmp.file[f].stat.st_mode))
                {
                    off_t pos = lseek (STDIN_FILENO, 0, SEEK_CUR);
                    if (pos < 0)
                        cmp.file[f].desc = ERRNO_ENCODE (errno);
                    else
                        cmp.file[f].stat.st_size =
                            MAX (0, cmp.file[f].stat.st_size - pos);
                }
        }
/* POSIX 1003.1-2001 requires current time for stdin. */
    set_mtime_to_now (&cmp.file[f].stat);
}
else if ((no_dereference_symlinks
    ? lstat (cmp.file[f].name, &cmp.file[f].stat)
    : stat (cmp.file[f].name, &cmp.file[f].stat))
    != 0)
    cmp.file[f].desc = ERRNO_ENCODE (errno);
}

/* Mark files as nonexistent as needed for -N and -P, if they are
 inaccessible empty regular files (the kind of files that 'patch'
 creates to indicate nonexistent backups), or if they are
 top-level files that do not exist but their counterparts do
 exist. */
for (f = 0; f < 2; f++)
    if ((new_file || (f == 0 && unidirectional_new_file))
        && (cmp.file[f].desc == UNOPENED
            ? (S_ISREG (cmp.file[f].stat.st_mode)
                && ! (cmp.file[f].stat.st_mode & (S_IRWXU | S_IRWXG | S_IRWXO))
                && cmp.file[f].stat.st_size == 0)
            : ((cmp.file[f].desc == ERRNO_ENCODE (ENOENT)
                || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
            || cmp.file[f].desc == ERRNO_ENCODE (ENOENT))
            || cmp.file[f].desc == ERRNO_ENCODE (EBADF))
for (f = 0; f < 2; f++)
    if (cmp.file[f].desc == NONEXISTENT)
        memset (&cmp.file[f].stat, 0, sizeof cmp.file[f].stat);
    cmp.file[f].stat.st_mode = cmp.file[1 - f].stat.st_mode;
}

for (f = 0; f < 2; f++)
{
    int e = ERRNO_DECODE (cmp.file[f].desc);
    if (0 <= e)
    {
        errno = e;
        perror_with_name (cmp.file[f].name);
        status = EXIT_TROUBLE;
    }
}

if (status == EXIT_SUCCESS && ! parent && DIR_P (0) != DIR_P (1))
{
    /* If one is a directory, and it was specified in the command line,
    use the file in that dir with the other file's basename. */

    int fnm_arg = DIR_P (0);
    int dir_arg = 1 - fnm_arg;
    char const *fnm = cmp.file[fnm_arg].name;
    char const *dir = cmp.file[dir_arg].name;
    char const *filename = cmp.file[dir_arg].name = free0
        = find_dir_file_pathname (dir, last_component (fnm));

    if (STREQ (fnm, "-"))
        fatal ("cannot compare '-' to a directory");

    if ((no_dereference_symlinks
        ? lstat (filename, &cmp.file[dir_arg].stat)
        : stat (filename, &cmp.file[dir_arg].stat))
        != 0)
    {
        perror_with_name (filename);
        status = EXIT_TROUBLE;
    }
}
if (status != EXIT_SUCCESS)
{
    /* One of the files should exist but does not. */
}
else if (cmp.file[0].desc == NONEXISTENT
    && cmp.file[1].desc == NONEXISTENT)
{
    /* Neither file "exists", so there's nothing to compare. */
}
else if ((same_files
    = (cmp.file[0].desc != NONEXISTENT
        && cmp.file[1].desc != NONEXISTENT
        && 0 < same_file (&cmp.file[0].stat, &cmp.file[1].stat)
        && same_file_attributes (&cmp.file[0].stat,
            &cmp.file[1].stat))
        && no_diff_means_no_output)
{
    /* The two named files are actually the same physical file.
     * We know they are identical without actually reading them. */
}
else if (DIR_P (0) & DIR_P (1))
{
    if (output_style == OUTPUT_IFDEF)
        fatal ("-D option not supported with directories");

    /* If both are directories, compare the files in them. */

    if (parent && !recursive)
    {
        /* But don't compare dir contents one level down
         * unless -r was specified.
         * See POSIX 1003.1-2001 for this format. */
        message ("Common subdirectories: %s and %s\n",
            cmp.file[0].name, cmp.file[1].name);
    }
    else
    status = diff_dirs (&cmp, compare_files);
}
else if ((DIR_P (0) | DIR_P (1))
    || (parent
        && !((S_ISREG (cmp.file[0].stat.st_mode)
            || S_ISLNK (cmp.file[0].stat.st_mode))
        && (S_ISREG (cmp.file[1].stat.st_mode)
            || S_ISLNK (cmp.file[1].stat.st_mode))))
{
    if (cmp.file[0].desc == NONEXISTENT || cmp.file[1].desc == NONEXISTENT)
    {
        /* We have a subdirectory that exists only in one directory. */
    }
if ( (DIR_P (0) | DIR_P (1))
    && recursive
    && (new_file
        || (unidirectional_new_file
            && cmp.file[0].desc == NONEXISTENT)))
status = diff_dirs (&cmp, compare_files);
else
    {
        char const *dir;

        /* PARENT must be non-NULL here. */
        assert (parent);
        dir = parent->file[cmp.file[0].desc == NONEXISTENT].name;

        /* See POSIX 1003.1-2001 for this format. */
        message5 ("Only in %s: %s
                    , dir, name0);

        status = EXIT_FAILURE;
    }
else
    {
        /* We have two files that are not to be compared. */
        /* See POSIX 1003.1-2001 for this format. */
        message5 ("File %s is a %s while file %s is a %s
                    , file_label[0] ? file_label[0] : cmp.file[0].name,
                    file_type (&cmp.file[0].stat),
                    file_type (&cmp.file[1].stat));

        /* This is a difference. */
        status = EXIT_FAILURE;
    }
else if (S_ISLNK (cmp.file[0].stat.st_mode)
    || S_ISLNK (cmp.file[1].stat.st_mode))
    {
        /* We get here only if we use lstat(), not stat(). */
        assert (no_dereference_symlinks);

        if (S_ISLNK (cmp.file[0].stat.st_mode)
            && S_ISLNK (cmp.file[1].stat.st_mode))
            {
                /* Compare the values of the symbolic links. */
                char *link_value[2] = { NULL, NULL };
for (f = 0; f < 2; f++)
{
    link_value[f] = xreadlink (cmp.file[f].name);
    if (link_value[f] == NULL)
    {
        perror_with_name (cmp.file[f].name);
        status = EXIT_TROUBLE;
        break;
    }
}
if (status == EXIT_SUCCESS)
{
    if ( ! STREQ (link_value[0], link_value[1]))
    {
        message ("Symbolic links %s and %s differ\n", cmp.file[0].name, cmp.file[1].name);
        /* This is a difference. */
        status = EXIT_FAILURE;
    }
    for (f = 0; f < 2; f++)
    {
        free (link_value[f]);
    }
}
else
{
    /* We have two files that are not to be compared, because
     one of them is a symbolic link and the other one is not. */
    message5 ("File %s is a %s while file %s is a %s\n", file_label[0] ? file_label[0] : cmp.file[0].name, file_type (&cmp.file[0].stat), file_label[1] ? file_label[1] : cmp.file[1].name, file_type (&cmp.file[1].stat));
    /* This is a difference. */
    status = EXIT_FAILURE;
}
else if (files_can_be_treated_as_binary
     && S_ISREG (cmp.file[0].stat.st_mode)
     && S_ISREG (cmp.file[1].stat.st_mode)
     && cmp.file[0].stat.st_size != cmp.file[1].stat.st_size)
{
    message ("Files %s and %s differ\n", file_label[0] ? file_label[0] : cmp.file[0].name, file_label[1] ? file_label[1] : cmp.file[1].name);
    status = EXIT_FAILURE;
}
else
{
    /* Both exist and neither is a directory. */

    /* Open the files and record their descriptors. */

    int oflags = O_RDONLY | (binary ? O_BINARY : 0);

    if (cmp.file[0].desc == UNOPENED)
    {
        if ((cmp.file[0].desc = open (cmp.file[0].name, oflags, 0)) < 0)
        {
            perror_with_name (cmp.file[0].name);
            status = EXIT_TROUBLE;
        }
        if (cmp.file[1].desc == UNOPENED)
        {
            if (same_files)
                cmp.file[1].desc = cmp.file[0].desc;
            else if ((cmp.file[1].desc = open (cmp.file[1].name, oflags, 0)) < 0)
            {
                perror_with_name (cmp.file[1].name);
                status = EXIT_TROUBLE;
            }
        }
    }

    /* Compare the files, if no error was found. */

    if (status == EXIT_SUCCESS)
        status = diff_2_files (&cmp);

    /* Close the file descriptors. */

    if (0 <= cmp.file[0].desc && close (cmp.file[0].desc) != 0)
    {
        perror_with_name (cmp.file[0].name);
        status = EXIT_TROUBLE;
    }
    if (0 <= cmp.file[1].desc && cmp.file[0].desc != cmp.file[1].desc
        && close (cmp.file[1].desc) != 0)
    {
        perror_with_name (cmp.file[1].name);
        status = EXIT_TROUBLE;
    }

    /* Now the comparison has been done, if no error prevented it,
        and STATUS is the value this function will return. */
if (status == EXIT_SUCCESS)
{
    if (report_identical_files && !DIR_P (0))
        message("Files %s and %s are identical\n", file_label[0] ? file_label[0] : cmp.file[0].name,
}
else
{
    /* Flush stdout so that the user sees differences immediately.
       This can hurt performance, unfortunately. */
    if (fflush (stdout) != 0)
        pfatal_with_name (_("standard output"));
}
free (free0);
free (free1);
return status;

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Version 3, 29 June 2007

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@end enumerate

@end enumerate

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@example
@example
@var{one line to give the program's name and a brief idea of what it does.}
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@end example

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

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

@example
@example
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY; for details type @samp{show w}.
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under certain conditions; type @samp{show c} for details.
@end example

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the appropriate parts of the General Public License.  Of course, your
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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Version 3, 29 June 2007

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/* Use the Sequent Symmetry assembler syntax. */

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

#define LPREFIX "L"

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

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#define USER_LABEL_PREFIX "_

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

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

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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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#
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# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
#   update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
#
#   update-copyright.py --this-year libitm
import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__ (self):
        self.num_errors = 0

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

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

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

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

            # Skip auto- and libtool-related files
            'aclocal.m4',
            'compile',
        "

            # Note that things like --version output strings must be updated before
            # this script is run. There's already a separate procedure for that.

            # would run the script on just libitm/.
'config.guess',
'config.sub',
'depcomp',
'install-sh',
'libtool.m4',
'ltmain.sh',
'lt~obsolete.m4',
'lt--obsolete.m4',
'missing',
'mkdep',
'mkinstalldirs',
'move-if-change',
'shlibpath.m4',
'symlink-tree',
'ylwrap',

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

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

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')
    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True
    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True
    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True
# Skip files produced by autogen
if (os.path.exists (base + '.def')
    and os.path.exists (base + '.tpl')):
    return True

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

return False

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

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

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

class Copyright:
    def __init__ (self, errors):
        self.errors = errors
        # Characters in a range of years.  Include "." for typos.
        ranges = '[0-9][?[-0-9_,\s]\s+and\s+]*[0-9]'
        # Non-whitespace characters in a copyright holder's name.
        name = '[\w,.-]'
        # Matches one year.
        self.year_re = re.compile ('[0-9]+')
        # Matches part of a year or copyright holder.
        self.continuation_re = re.compile (ranges + '|' + name)
        # Matches a full copyright notice:
        self.copyright_re = re.compile (  
            # 1: 'Copyright (C)', etc.
            '(\[Cc\]opyright'
# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'(\s*{?:' + ranges + ',?'}
'[@value\{{[^{}]*\}}\s]*)'

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

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

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

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

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

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

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find ('')
    while index > 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find ('', index + 1)

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

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

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

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

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

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

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

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

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

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

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)
def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end()::].lstrip()
    return line

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

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

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

            continuation = self.strip_continuation(next_line)
            if not self.continuation_re.match(continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

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

holder = match.group(4)

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

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

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

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

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

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

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

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

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

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

return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    mode = None
    with open(pathname, 'r') as file:
        prev = None
        mode = os.fstat(file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                             file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search(line):
                    self.errors.report(pathname,
                                       'unrecognised copyright: %s'
                                       % line.strip())
                    lines.append(line)
                    line = next_line

                # If something changed, write the new file out.
                if changed and self.errors.ok():
tmp_pathname = pathname + '.tmp'
with open (tmp_pathname, 'w') as file:
for line in lines:
file.write (line)
os.fchmod (file.fileno(), mode)
if self.use_quilt:
subprocess.call (['quilt', 'add', pathname])
os.rename (tmp_pathname, pathname)
def process_tree (self, tree, filter):
for (dir, subdirs, filenames) in os.walk (tree):
# Don't recurse through directories that should be skipped.
for i in xrange (len (subdirs) - 1, -1, -1):
if filter.skip_dir (dir, subdirs[i]):
del subdirs[i]
# Handle the files in this directory.
for filename in filenames:
if filter.skip_file (dir, filename):
sys.stdout.write ('Skipping %s\n'
% os.path.join (dir, filename))
else:
self.process_file (dir, filename, filter)
class CmdLine:
def __init__ (self, copyright = Copyright):
self.errors = Errors()
self.copyright = copyright (self.errors)
self.dirs = []
self.default_dirs = []
self.chosen_dirs = []
self.option_handlers = dict()
self.option_help = []
self.add_option ('--help', 'Print this help', self.o_help)
self.add_option ('--quilt', '"quilt add" files before changing them',
self.o_quilt)
self.add_option ('--this-year', 'Add the current year to every notice',
self.o_this_year)
def add_option (self, name, help, handler):
self.option_help.append ((name, help))
self.option_handlers[name] = handler
def add_dir (self, dir, filter = GenericFilter()):
self.dirs.append ((dir, filter))
def o_help (self, option = None):

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sys.stdout.write ('Usage: %s [options] dir1 dir2...

' % sys.argv[0])
format = '%-15s %s

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

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

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

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

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

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

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

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

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

            # Handled separately.
            'testsuite',
        )

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

            # Automatically-generated.
            '.pot',
        )

        self.fossilised_files |= set (
            # Old news won't be updated.
            'ONEWS',
        )
class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

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

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

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

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

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

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
self.skip_dirs |= set (
    # Imported from GLIBC.
    'soft-fp',
)

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

        self.skip_files |= set (
            # Source module imported from upstream.
            'object.d',
        )

        self.skip_dirs |= set (
            # Contains sources imported from upstream.
            'core',
            'etc',
            'gc',
            'gcstub',
            'rt',
            'std',
        )

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

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

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

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

            # Contains imported images
            'images',
        )

        self.own_files |= set (
            # Contains markup around the copyright owner.
            'spine.xml',
        )
def get_line_filter(self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile('// (C) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter(self, dir, filename)

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

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

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

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

        self.add_dir('.', TopLevelFilter())
        # boehm-gc is imported from upstream.
        self.add_dir('config', ConfigFilter())
        # contrib isn't really part of GCC.
        self.add_dir('fixincludes')
        self.add_dir('gcc', GCCFilter())
        self.add_dir(os.path.join('gcc', 'testsuite'), TestsuiteFilter())
        self.add_dir('gnattools')
        self.add_dir('gotools')
        self.add_dir('include')
        # intl is imported from upstream.
        self.add_dir('libada')
        self.add_dir('libatomic')
        self.add_dir('libbacktrace')
        self.add_dir('libc1')
        self.add_dir('libcpp', LibCppFilter())
        self.add_dir('libdecnumber')
        # libffi is imported from upstream.
        self.add_dir('libgcc', LibGCCFilter())
        self.add_dir('libgfortran')
        # libgo is imported from upstream.
        self.add_dir('libgomp')
        self.add_dir('libhsail-rt')
        self.add_dir('libiberty')
        self.add_dir('libitm')
        self.add_dir('libobjc')
        # liboffloadmic is imported from upstream.
        self.add_dir('libphobos', LibPhobosFilter())
        self.add_dir('libquadmath')
        # libsanitizer is imported from upstream.
        self.add_dir('libssp')
        self.add_dir('libstdc++-v3', LibStdCxxFilter())
        self.add_dir('libvtv')
        self.add_dir('lto-plugin')
        # maintainer-scripts maintainer-scripts
        # zlib is imported from upstream.

        self.default_dirs = [
            'gcc',
            'include',
        ]
GCCCmdLine().main()
\emph{%tool}s, The \%name%s Development Environment

\emph{%edition}s

\begin{DUlineblock}{0em}
\item Version \%(version)s
\item Date: \%(date)s
\end{DUlineblock}

AdaCore

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

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<table>
<thead>
<tr>
<th>Program</th>
<th>Directory</th>
</tr>
</thead>
<tbody>
<tr>
<td>mach_override</td>
<td>lib/interception/mach_override</td>
</tr>
</tbody>
</table>

DRuntime: Runtime Library for the D Programming Language
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Automatically generated by Pod::Man 4.11 (Pod::Simple 3.35)

Standard preamble:

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

d Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp

.de Vb " Begin verbatim text
.ft CW
.nf
.ne \$1

.de Ve " End verbatim text
.ft R
.fi

Set up some character translations and predefined strings. \*(- will give an unbreakable dash, \*(PI will give pi, \*(L" will give a left double quote, and \*(R" will give a right double quote. \*(C+ will give a nicer C++. Capital omega is used to do unbreakable dashes and \* therefore won't be available. \*(C" and \*(C` expand to ` in nroff, \* nothing in troff, for use with C<>.

.tr \*(-W-
.ds C+ C\v-.1v\h'-1p\v-.2+\h'-1p'+\v-.0\v\h'-1p'
.ie n \n
  ds -- \*(-W-
  ds PI pi
... & (1u=24u) .ds -- \(\*\text{W\'h'-12u}\) \(\*\text{W\'h'-12u}'\) " diablo 10 pitch
  . ds L'u" "
  . ds R'u" "
  . ds C'u" "
  . ds C'" "
}br}
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.SS "\&ls-1END OF TERMS AND CONDITIONS\ls0"

.IX Subsection "END OF TERMS AND CONDITIONS"

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1.559 unzip 6.0-20.el7.0atomix2
1.559.1 Available under license:

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FIRST NOTE:
This file contains some details about the copyright history of contributions to the UnZip project. Additionally, it summarises some exceptions to the general BSD-like copyright found in LICENSE that covers our generic code and most of the system specific ports. Please read LICENSE first to find out what is allowed to do with Info-ZIP's UnZip code.

There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans'
MacBinaryIII coding code (for the MacOS port).. These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus that performs LZW encoding_, but the patent appears to exempt a stand-alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed otherwise, but the issue has never been tested in court. Since this point is unclear, unshrinking is not enabled by default. It is the responsibility of the user to make his or her peace with Unisys and its licensing requirements. (unshrink.c may be removed from future releases altogether.)

__________________________________________________________________________

The original unzip source code has been extensively modified and almost entirely rewritten (changes include random zipfile access rather than sequential; replacement of unimplode() with explode(); replacement of old unshrink() with new (unrelated) unshrink(); replacement of output routines; addition of inflate(), wildcards, filename-mapping, text translation, ...; etc.). As far as we can tell, only the core code of the unreduce method remained substantially similar to Mr. Smith's original source. As of UnZip 5.42, the complete core code is now covered by the Info-ZIP Licence. Therefore, support for the reduce method has been removed. The drop of the reduce method should only affect some test archives, reducing was never used in any publicly distributed Zip program. For pathologic cases where support for reduced archive entries is needed, the unreduce code copyrighted by Samuel H. Smith is available as a separate distribution (the restricted copyright of this code is cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code (macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:
* MoreFiles
* A collection of File Manager and related routines
* by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
* with significant code contributions by Nitin Ganatra
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* MacBinaryIII.h
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* (available at ftp://ftp.lazerware.com/MacBinaryIII_src_C.sit
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Regarding the first stipulation, Mr. Smith was tracked down in southern California some years back [Samuel H. Smith, The Tool Shop; as of mid-May 1994, (213) 851-9969 (voice), (213) 887-2127(?) (subscription BBS), 71150.2731@compuserve.com]:

"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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-----

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The remaining code was written by many people associated with the
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
mapping/portability, etc.), Mark Adler (inflate, explode, funzip),
Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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1.560 libsepol 2.5 10.el7

1.560.1 Available under license:

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Version 2.1, February 1999

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1.563 guava 26.0

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1.564 commons-compiler 3.0.9

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.soloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.583 jackson-annotations 2.9.6

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1.584 perl-http-tiny 0.033-3.el7

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1.585 libx11 1.6.7 2.el7

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1.588 pam 1.1.8 22.el7
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1.589 jersey-container-servlet-core 2.22.1
1.590 gdk-pixbuf 2.36.12-3.el7

1.590.1 Available under license:

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Version 2, June 1991

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1.600 spring-boot-autoconfigure 2.0.1

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<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the appropriate
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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here is a sample; alter the names:

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

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

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library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.604 binutils 2.27-41.base.el7_7.3

1.604.1 Available under license :

(This file is under construction.)

If you've contributed to gas and your name isn't listed here, it is
not meant as a slight. I just don't know about it. Email me,
nickc@redhat.com and I'll correct the situation.

This file will eventually be deleted: The general info will go into
the documentation, and info on specific files will go into an AUTHORS
file, as requested by the FSF.
Dean Elsner wrote the original gas for vax. [more details?]

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

The Motorola 88k machine description was contributed by Devon Bowen of
Buffalo University and Torbjorn Granlund of the Swedish Institute of
Computer Science.

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

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors
(tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format
(obj-ieee), was written by Steve Chamberlain of Cygnus Solutions.
Steve also modified the COFF back end (obj-coffbfd) to use BFD for
some low-level operations, for use with the Hitachi, 29k and Zilog
targets.
John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's opcodes always produced fixed-size instructions (e.g., jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.
Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't intentionally leaving anyone out.

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Version 3, 29 June 2007

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

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