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In your requests please include the following reference number 78EE117C99-1284673169

Contents

1.1 nettle 3.4-1
   1.1.1 Available under license
1.2 libxau 1.0.8-1ubuntu1
   1.2.1 Available under license
1.3 grpc-go 1.30.0
   1.3.1 Available under license
1.4 systemd 237 3ubuntu10.53
   1.4.1 Available under license
1.5 findutils 4.6.0+git+20170828 2
   1.5.1 Available under license
1.6 libx11 1.6.4-3ubuntu0.4
   1.6.1 Available under license
1.7 cpp 8.4.0 1ubuntu1~18.04
   1.7.1 Available under license
1.8 json-java 20210307
   1.8.1 Available under license
1.9 libxdmcp 1.1.2-3
   1.9.1 Available under license
1.10 golang-genproto 0.0.0-20200526211855-cb27e3aa2013
   1.10.1 Available under license
1.11 x-sys 0.0.0-20210615035016-665e8c7367d1
   1.11.1 Available under license
1.12 libpsl 0.19.1-5build1
   1.12.1 Available under license
1.13 mitchellh-mapstructure 1.4.1
   1.13.1 Available under license
1.14 libpcap 1.8.1 6ubuntu1.18.04.2
   1.14.1 Available under license
1.15 bash 4.4.18 2ubuntu1.2
   1.15.1 Available under license
1.16 base-files 10.1ubuntu2.11
   1.16.1 Available under license
1.17 glibc 2.27-3ubuntu1.5
   1.17.1 Available under license
1.18 debconf 1.5.66ubuntu1
1.19 log4j-api 2.17.1
   1.19.1 Available under license
1.20 e2fsprogs 1.44.1 1ubuntu1.1
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1.21 linux-libc-dev 4.15.0-176.185
   1.21.1 Available under license
1.22 libseccomp 2.3.1-2.1ubuntu4
   1.22.1 Available under license
1.23 libfile-fcntllock-perl 0.22-3build2
   1.23.1 Available under license
1.24 fdisk 2.31.1
   1.24.1 Available under license
1.25 nettle 3.4.1-0ubuntu0.18.04.1
   1.25.1 Available under license
1.26 glibc 2.27 3ubuntu1
   1.26.1 Available under license
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   1.28.1 Available under license
1.29 pam 1.1.8 3.6ubuntu2.18.04.1
   1.29.1 Available under license
1.30 build-essential 12.4ubuntu1
   1.30.1 Available under license
1.31 gnutls 3.5.18-1ubuntu1.1
   1.31.1 Available under license
1.32 prometheus-common 0.15.0
   1.32.1 Available under license
1.33 go v0.4.0
   1.33.1 Available under license
1.34 openorb master
  1.34.1 Available under license
1.35 libalgorithm-merge-perl 0.08-3
  1.35.1 Available under license
1.36 tar 1.29b 2ubuntu0.1
  1.36.1 Available under license
1.37 error_prone_annotations 2.1.3
  1.37.1 Available under license
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  1.38.1 Available under license
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1.40 xorg 7.7+19ubuntu7.1
  1.40.1 Available under license
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  1.41.1 Available under license
1.42 make-dfsg 4.1-9.1ubuntu1
  1.42.1 Available under license
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  1.43.1 Available under license
1.44 jwalterweatherman 1.1.0
  1.44.1 Available under license
1.45 go-ldap-client v0.0.3
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1.46 cpp 7.5.0 3ubuntu1~18.04
  1.46.1 Available under license
1.47 openssl 1.1.1 1ubuntu2.1~18.04.15
  1.47.1 Available under license
1.48 xauth 1.0.10-1
  1.48.1 Available under license
1.49 eapache-channels 1.1.0
  1.49.1 Available under license
1.50 spf13-pflag 1.0.5
  1.50.1 Available under license
1.51 binutils 2.30 21ubuntu1~18.04.7
  1.51.1 Available under license
1.52 dpkg 1.19.0.5ubuntu2.1
  1.52.1 Available under license
1.53 slf4j 1.7.7
1.53.1 Available under license
1.54 libtasn 4.13 2
   1.54.1 Available under license
1.55 go-units 0.4.0
   1.55.1 Available under license
1.56 openssh 7.6p1-4ubuntu0.1
   1.56.1 Available under license
1.57 gopacket 1.1.19
   1.57.1 Available under license
1.58 patch 2.7.6-2ubuntu1
   1.58.1 Available under license
1.59 nghttp2 1.30.0-1ubuntu1
   1.59.1 Available under license
1.60 go-errors-errors v1.0.2
   1.60.1 Available under license
1.61 logback-core 1.1.7
   1.61.1 Available under license
1.62 openssl 1.1.1-1ubuntu2.1~18.04.4
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1.63 tar 1.29b 2ubuntu0.2
   1.63.1 Available under license
1.64 roaring 0.5.5
   1.64.1 Available under license
1.65 keyutils 1.5.9-9.2ubuntu2.1
   1.65.1 Available under license
1.66 heimdal 7.5.0+dfsg-1
   1.66.1 Available under license
1.67 mawk 1.3.3 17ubuntu3
   1.67.1 Available under license
1.68 libsemanage 2.7 2build2
   1.68.1 Available under license
1.69 netbase 5.4
   1.69.1 Available under license
1.70 alsa 1.1.3-5ubuntu0.2
1.71 jaeger-client-go v2.22.1
   1.71.1 Available under license
1.72 apache-log4j 2.17.1
   1.72.1 Available under license
1.73 coreutils 8.28 1ubuntu1
1.73.1 Available under license
1.74 open-ldap 2.4.45+dfsg 1ubuntu1.1
   1.74.1 Available under license
1.75 expat 2.2.5 3ubuntu0.7
   1.75.1 Available under license
1.76 xz 5.2.2 1.3
   1.76.1 Available under license
1.77 git 2.17.1-1ubuntu0.9
   1.77.1 Available under license
1.78 x-net 0.0.0-20211112202133-69e39bad7dc2
   1.78.1 Available under license
1.79 libxext 1.3.3-1
   1.79.1 Available under license
1.80 base-files 10.1ubuntu2.6
   1.80.1 Available under license
1.81 java-common 0.63ubuntu1~02
   1.81.1 Available under license
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   1.82.1 Available under license
1.83 dpkg 1.19.0.5ubuntu2.3
   1.83.1 Available under license
1.84 jaeger-client-go 2.22.1+incompatible
   1.84.1 Available under license
1.85 lcms 2.9
   1.85.1 Available under license
1.86 audit 2.8.2 1ubuntu1
   1.86.1 Available under license
1.87 go-ping master
   1.87.1 Available under license
1.88 liblocale-gettext-perl 1.07 3build2
   1.88.1 Available under license
1.89 kr-fs 0.1.0
   1.89.1 Available under license
1.90 sysv-init 2.88df5 59.10ubuntu1
   1.90.1 Available under license
1.91 xxhash 2.1.1
   1.91.1 Available under license
1.92 thrift 0.12.0
1.93 debconf 1.5.66
1.93.1 Available under license
1.94 libjpeg 6b
   1.94.1 Notifications
   1.94.2 Available under license
1.95 jaxb-core 2.2.11
   1.95.1 Available under license
1.96 libgcrypt 1.8.1 4ubuntu1.3
   1.96.1 Available under license
1.97 httpcomponents-mime 4.3.2
   1.97.1 Available under license
1.98 libgpg-error 1.27 6
   1.98.1 Available under license
1.99 systemd 237 3ubuntu10.33
   1.99.1 Available under license
1.100 libxtst 1.2.3-1
   1.100.1 Available under license
1.101 libpng 1.6.34-1ubuntu0.18.04.1
   1.101.1 Available under license
1.102 zipkin-go-opentracing v0.3.4
   1.102.1 Available under license
1.103 sed 4.4 2
   1.103.1 Available under license
1.104 afero 1.5.1
   1.104.1 Available under license
1.105 xmlsec-java 2.1.4
   1.105.1 Available under license
1.106 ubuntu-keyring 2018.09.18.1~18.04.2
   1.106.1 Available under license
1.107 sensible-utils 0.0.12
   1.107.1 Available under license
1.108 ca-certificates 20180409
   1.108.1 Available under license
1.109 gnupg 2.2.4 1ubuntu1.4
   1.109.1 Available under license
1.110 fwd 1.1.1
   1.110.1 Available under license
1.111 xml-commons-resolver 1.2
   1.111.1 Available under license
1.112 cpp 8.2.0-1ubuntu2~18.04
1.112.1 Available under license

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1.113.1 Available under license

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1.114.1 Available under license

1.115 shadow 4.5-1ubuntu1
1.115.1 Available under license

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1.116.1 Available under license

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1.117.1 Available under license

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1.118.1 Available under license

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1.119.1 Available under license

1.120 bcel 5.2
1.120.1 Available under license

1.121 gnupg 2.2.4 1ubuntu1.2
1.121.1 Available under license

1.122 properties 1.8.4
1.122.1 Available under license

1.123 attr 2.4.47-2build1
1.123.1 Available under license

1.124 libxmu 1.1.2-2
1.124.1 Available under license

1.125 go-grpc-middleware v1.0.0
1.125.1 Available under license

1.126 libidn 2.0.4-1.1build2
1.126.1 Available under license

1.127 libxi 1.7.9-1
1.127.1 Available under license

1.128 x-sys master
1.128.1 Available under license

1.129 queue 1.1.0
1.129.1 Available under license

1.130 patch 2.7.6 2ubuntu1.1
1.130.1 Available under license

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| Version | Description | License
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<thead>
<tr>
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<td>commons-lang3 3.7</td>
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</tr>
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<td>1.139</td>
<td>systemd 237-3ubuntu10.38</td>
<td>Available under license</td>
</tr>
<tr>
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<td>Available under license</td>
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<td>1.141</td>
<td>slf4j-log4j 1.7.7</td>
<td>Available under license</td>
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<td>1.142</td>
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<td>Available under license</td>
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<td>1.147</td>
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<td>1.148</td>
<td>go-uber-org-multier 1.6.0</td>
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<td>hostname 3.20</td>
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1.153 less 487 0.1
  1.153.1 Available under license
1.154 libxcb 1.13 1
  1.154.1 Available under license
1.155 zlib 1.2.11.dfsg 0ubuntu2
  1.155.1 Available under license
1.156 viper 1.7.1
  1.156.1 Available under license
1.157 openssl 1.1.1l
  1.157.1 Notifications
  1.157.2 Available under license
1.158 p11-kit 0.23.9-2
  1.158.1 Available under license
1.159 h2c master
  1.159.1 Available under license
1.160 cdebconf 0.213ubuntu1
  1.160.1 Available under license
1.161 systemd 237 3ubuntu10.11
  1.161.1 Available under license
1.162 k-sone-critbitgo 1.4.0
  1.162.1 Available under license
1.163 x-text 0.3.6
  1.163.1 Available under license
1.164 libidn 2.0.4-1.1ubuntu0.2
  1.164.1 Available under license
1.165 libbsd 0.8.7-1
  1.165.1 Available under license
1.166 readline 7.0 3
  1.166.1 Available under license
1.167 go-asn1-ber-asn1-ber 1.5.4
  1.167.1 Available under license
1.168 bzip2 1.0.6-8.1
  1.168.1 Available under license
1.169 go-spew v1.1.1
  1.169.1 Available under license
1.170 opentracing-go 1.1.0
<table>
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<tr>
<th>Package</th>
<th>Version</th>
<th>License</th>
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<td>libassuan</td>
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<td>2.7.1</td>
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<td>fsnotify</td>
<td>1.4.9</td>
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<td>libksba</td>
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<td>0.2.5</td>
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<td>6.1-1ubuntu1.18.04</td>
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<td><code>init-system-helpers</code></td>
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1.8 json-java 20210307
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1.12 libpsl 0.19.1-5build1

1.12.1 Available under license:

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Upstream-Name: libpsl
Source: https://github.com/rockdaboot/libpsl

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<signature of Ty Coon>, 1 April 1989
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1.18 debconf 1.5.66ubuntu1

1.19 log4j-api 2.17.1
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1.20 e2fsprogs 1.44.1 1ubuntu1.1

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Index: t dbsa/tdb.c
--- t dbsa.orig/tdb.c
+++ t dbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
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Theodore Ts'o
23-June-2007

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That's all there is to it!
This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on 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 <tytso@mit.edu>

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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:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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

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

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

all:: image

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

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

image::$(BSD_LIB)

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

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

install-shlibs-strip: install-shlibs

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

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

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

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

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Gadi Oxman, August 1995

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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
 *
 * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
 * http://www.hypermall.com/
 * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
 * 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
 * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
 *
 * Linux driver for the IDT77201 NICStAR PCI ATM controller.
 * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
 * see init_nicstar() for PHY initialization to change this. This driver
 * expects the Linux ATM stack to support scatter-gather lists
 * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
Implementing minimal-copy of received data:

IDT always receives data into a small buffer, then large buffers as needed. This means that data must always be copied to create the linear buffer needed by most non-ATM protocol stacks (e.g. IP).

Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer.

Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:

1) skb->destructor / skb->atm.recycle_buffer combined, allow nicstar_free_rx_skb to be called to recycle large data buffers

2) skb_clone of received buffers

See nicstar_free_rx_skb and linearize_buffer for implementation details.

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* M. Welsh, 6 July 1996

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NAME

File::FcntlLock - File locking with L<fcntl(2)>

This text also documents the following sub-packages:

over 2

item File::FcntlLock::XS

item File::FcntlLock::Pure

item File::FcntlLock::Inline

DESCRIPTION

File locking in Perl is usually done using the C<flock> function.
Unfortunately, this only allows locks on whole files and is often
implemented in terms of the \texttt{flock(2)} system function which has some shortcomings (especially concerning locks on remotely mounted file systems) and slightly different behaviour than \texttt{fcntl(2)}.

Using this module file locking via \texttt{fcntl(2)} can be done (obviously, this restricts the use of the module to systems that have a \texttt{fcntl(2)} system call). Before a file (or parts of a file) can be locked, an object simulating a flock structure, containing information in a binary format to be passed to \texttt{fcntl(2)} for locking requests, must be created and its properties set. Afterwards, by calling the \texttt{lock()} method a lock can be set and removed or it can be determined if and which process currently holds the lock.

\texttt{File::FcntlLock} (or its alias \texttt{File::FcntlLock::XS}) uses a shared library, build during installation, to call the \texttt{fcntl(2)} system function directly. If this is unsuitable there are two alternatives, \texttt{File::FcntlLock::Pure} and \texttt{File::FcntlLock::Inline}. Both call the Perl \texttt{fcntl} function instead and use Perl code to assemble and disassemble the structure. For this at some time the (system-dependent) binary layout of the flock structure must have been determined via a program written in C. The difference between \texttt{File::FcntlLock::Pure} and \texttt{File::FcntlLock::Inline} is that for the former this happened when the package is installed while for the latter it is done each time the package is loaded (e.g., with \texttt{use}). Thus, for \texttt{File::FcntlLock::Inline} to work a C compiler must be available. There are some minor differences in the functionality and the behaviour on passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=over 4
=item \texttt{C<new()>}

To create a new object, representing a flock structure, call \texttt{new()}:

$fs = new File::FcntlLock;

The object has a number of properties, reflecting the members of the flock structure to be passed to \texttt{fcntl(2)} (see below). Per default on object creation the \texttt{\_type} property is set to \texttt{F_RDLCK}, \texttt{\_whence} to \texttt{SEEK_SET}, and both \texttt{\_start} and \texttt{\_len} to 0, i.e., the settings for a read lock on the whole file.

These defaults can be overruled by passing the \texttt{new()} method a set of key-value pairs to initialize the objects properties, e.g. use

$fs = new File::FcntlLock( \_type => F_WRLCK,
l_whence => SEEK_SET,
l_start  => 0,
l_len   => 100);

if you intend to obtain a write lock for the first 100 bytes of a file.

=head2 Object properties

Once the object simulating the flock structure has been created
the following methods allow to query and, in most cases, to also
modify its properties.

=item C<l_type()>

If called without an argument the method returns the current setting
of the lock type, otherwise the lock type is set to the argument's value
which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock,
write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence>
property of the flock object, determining if the L<l_start> value
is relative to the start of the file, to the current position in
the file or to the end of the file. These values are C<SEEK_SET>,
C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<lseek(2)>).
If called with no argument the current value of the property is
returned.

=item C<l_start()>

Queries or sets the start position (offset) of the lock in the file
according to the mode selected by the L<l_whence> member. See also
the man page for L<lseek(2)>.

=item C<l_len()>

Queries or sets the length of the region (in bytes) in the file to
be locked. A value of 0 is interpreted to mean a lock, starting at
C<l_start>, to the end of the file. E.g., a lock obtained with
L<l_whence> set to C<SEEK_SET> and both L<l_start> and L<l_len> set
to 0 locks the complete file.
According to SUSv3 support for negative values for L<l_len> are permitted, resulting in a lock ranging from C<l_start+l_len> up to and including C<l_start-1>. But not all systems support negative values for L<l_len> and will return an error when you try to obtain such a lock, so please read the L<fcntl(2)> man page of the system carefully for details.

=item C<l_pid()>  
If a call of the L<lock()> method with C<F_GETLK> indicates that another process is holding the lock (in which case the L<l_type> property will be either C<F_WRLCK> or C<F_RDLCK>) a call of the L<l_pid()> method returns the PID of the process holding the lock. This method does not accept any arguments.

=back

=head2 Locking

After having set up the object representing a flock structure one can then try to obtain a lock, release it or determine the current holder of the lock by invoking the L<lock()> method:

=over 4

=item C<lock()>  
This method expects two arguments. The first one is a file handle (or typeglob). File::FcntlLock, and thus File::FcntlLock::XS (but neither File::FcntlLock::Pure nor File::FcntlLock::Inline), also accepts a "raw" integer file descriptor. The second argument is a flag indicating the action to be taken. So call it as in

$fs->lock( $fh, F_SETLK );

There are three values that can be used as the second argument:

=over 4

=item C<F_SETLK>  
With C<F_SETLK> the L<lock()> method tries to obtain a lock (when L<l_type> is set to either C<F_WRLCK> or C<F_RDLCK>) or releases it (if L<l_type> is set to C<F_UNLCK>). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns C<undef> and C<errno> is set to C<EACCESS> or C<EAGAIN> (please see the the man page for L<fcntl(2)> for more details).
is similar to \texttt{F_SETLK}, but instead of returning an error if the lock can't be obtained immediately it puts the calling process to sleep, i.e., it blocks, until the lock is obtained at some later time. If a signal is received while waiting for the lock the method returns \texttt{undef} and \texttt{errno} is set to \texttt{EINTR}.

\begin{itemize}
  
  \item \texttt{F_SETLKW}

  \texttt{F_SETLKW} is similar to \texttt{F_SETLK}, but instead of returning an error if the lock can't be obtained immediately it puts the calling process to sleep, i.e., it blocks, until the lock is obtained at some later time. If a signal is received while waiting for the lock the method returns \texttt{undef} and \texttt{errno} is set to \texttt{EINTR}.

  \item \texttt{F_GETLK}

  \texttt{F_GETLK} the \texttt{lock()} method determines if and which process currently is holding the lock. If there's no other lock the \texttt{l_type} property will be set to \texttt{F_UNLCK}. Otherwise the flock structure object is set to the values that would prevent us from obtaining a lock. There may be several processes that keep us from getting a lock, including some that themselves are blocked waiting to obtain a lock. \texttt{F_GETLK} will only make details of one of these processes visible, and one has no control over which process this is.

\end{itemize}

\begin{verbatim}
On success the \texttt{lock()} method returns the string "0 but true", i.e., a value that is true in boolean but 0 in numeric context. If the method fails (as indicated by an \texttt{undef} return value) you can either immediately evaluate the error number (using \texttt{$!}, \texttt{SERRNO} or \texttt{SOS_ERROR}) or check for it via the methods discussed below at some later time.

\end{verbatim}

\begin{head2} Error handling \end{head2}

There are minor differences between \texttt{File::FcntlLock} on the one hand and \texttt{File::FcntlLock::Pure} and \texttt{File::FcntlLock::Inline} on the other, due to the first calling the system function \texttt{fcntl(2)} directly while the latter two invoke the Perl \texttt{fcntl} function. Perl's \texttt{fcntl} function already returns a Perl error on some types of invalid arguments. In contrast \texttt{File::FcntlLock} passes them on to the \texttt{fcntl(2)} system call and then returns the systems response to the caller.

There are three methods for obtaining information about the reason the a call of the \texttt{lock()} method failed:

\begin{verbatim}
=over 4

\end{verbatim}
=item C<lock_errno()>

Returns the C<errno> error number from the latest call of L<lock()>.
If the last call did not result in an error C<undef> is returned.

=item C<error()>

Returns a short description of the error that happened during the
latest call of L<lock()>). Please take the messages with a grain of
salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux,
TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers
mean. There could be differences (and additional error numbers) on
other systems. If there was no error the method returns C<undef>.

=item C<system_error()>

While the L<error()> method tries to return a string with some direct
relevance to the locking operation (i.e., "File or segment already
locked by other process(es)" instead of "Permission denied") this method
returns the "normal" system error message associated with C<errno>. The
method returns C<undef> if there was no error.

=back

=head2 EXPORT

The package exports the following constants:

=over 2

=item F_GETLK F_SETLK F_SETLKW

=item F_RDLCK F_WRLCK F_UNLCK

=item SEEK_SET SEEK_CUR SEEK_END

=back

=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a L<fcntl(2)> system
call. Note also that under certain circumstances the File::FcntlLock::Pure
and File::FcntlLock::Inline modules may not have been installed. This
happens on 32-bit systems that use 64-bit integers in their flock
structure but where the installed Perl version doesn't support the 'q'
format for its C<pack> and C<unpack> functions.
=head1 CREDITS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd which seems to have only very rudimentary support for locking with L<fcntl(2)>. Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to an XS-only approach which hopefully will make the module more useful under certain circumstances.

=head1 AUTHOR

Jens Thoms Toerring <jt@toerring.de>

=head1 SEE ALSO

L<perl(1)>, L<fcntl(2)>, L<lseek(2)>.

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File::FcntlLock

=============
File::FcntlLock is a module to do file locking in an object oriented fashion using the fcntl(2) system call. This allows locks on parts of a file as well as on the whole file and overcomes some known problems with flock(2), on which Perl's flock() function is based per default.

Since version 0.15 there are slightly different ways this can be done with using this package. Per default a method is used where a shared library build creation of the package is called from the Perl code to invoke the fcntl(2) system function. This method can also be used by employing the File::FcntlLock::XS module (which basically an alias for File::FcntlLock). Two further methods instead use calls of the Perl fcntl() function. In both cases at some time a C program must be run to determine the binary layout of the C flock struct used by fcntl() for locking. For the one package, File::FcntlLock::Pure, this is done while making the package. For the other, File::FcntlLock::Inline, this happens each time the package is loaded (e.g. with the use function). Of course, for this to work a C compiler must be installed on the system!

Unfortunately, there seem to be a few 32-bit systems where the off_t type, used in the flock struct, is a 64-bit integer but which use a Perl version that hasn't 64-bit support enabled. On these systems the 'q' format for Perl's pack() and unpack() function isn't available and thus a "pure Perl" approach is thus not possible. On such systems the File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get installed.

PORTABILITY

To use the module the system must support the fcntl() system call which probably will restrict its use to POSIX compliant systems.

INSTALLATION

To install this module type the following:

    perl Makefile.PL
    make
    make test
    make install

DEPENDENCIES

The module requires the following other modules:
To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For File::FcntlLock::Inline the C compiler must also be available when the module is used. The installation of the File::FcntlLock::Pure and File::FcntlLock::Inline modules require that the Perl pack() and unpack() function support the 'q' format if the off_t type on the system is 64-bit wide.

ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with fcntl(2), at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module more useful under certain circumstances.

AUTHOR

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/* set jmp is implemented in setjmp.S */

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1.27 libalgorithm-diff-xs-perl 0.04-5

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1.28 golang-genproto 0.0.0-20190819201941-24fa4b261c55
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1.29 pam 1.1.8 3.6ubuntu2.18.04.1

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Patch for Ubuntu bug #399071

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

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
+ int retval = PAM_IGNORE, rc;
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != \0)
+ {  
+     PAM_MODUTIL_DEF_PRIVS(privs);
+  
+  /* Get the password entry */
+  pwd = pam_modutil_getpwnam (pamh, user);
+  if (pwd != NULL)
+  {  
+      if (pam_modutil_drop_priv(pamh, &privs, pwd))
+      {  
+          pam_syslog(pamh, LOG_ERR,
+                  "Unable to change UID to %d temporarily\n",
+                  pwd->pw_uid);
+          retval = PAM_SESSION_ERR;
+          goto finished;
+      }
+      if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+         goto finished;
+      if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+         goto finished;
+      if (stat(flag, &s) != 0)
+      {  
+          display_file(pamh, "/etc/legal");
+          mkdir(dir, 0700);
+          f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                  S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+          if (f>=0) close(f);
+      }
+  }
+  
+  if (asprintf(&dir, "%s/cache", pwd->pw_dir) == -1 || !dir)
+      goto finished;
+  if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+      goto finished;
+  
+  if (stat(flag, &s) != 0)
+  {  
+      display_file(pamh, "/etc/legal");
+      mkdir(dir, 0700);
+      f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                 S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+      if (f>=0) close(f);
+  }
+  
+finished:
+  if (pam_modutil_regain_priv(pamh, &privs))
+  {  
+      pam_syslog(pamh, LOG_ERR,
+              "Unable to change UID back to %d\n", privs.old_uid);
+      retval = PAM_SESSION_ERR;
+  }
+  
+  _pam_drop(flag);
+  _pam_drop(dir);
+    return retval;
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);
+
    /* Display the legal disclaimer only if necessary */
    retval = display_legal(pamh);
+
    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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**1.30 build-essential 12.4ubuntu1**

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

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

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

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1.35 libalgorithm-merge-perl 0.08-3

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```perl
#
# For testing:
#
sub main::diag {  
    warn join(
        ", @_, "n"
    )
}

print join(" ", merge(  
    #print Data::Dumper -> Dump(
    #    merge(  
    #        qw(a b c d h i j]), # ancestor  
    #        qw(a b c d f h i j)), # left  
    #        qw(a b c e g)), # right  
        
    qw(0 1 2 3 4 7 9 b)),  
    qw(0 6 8 a b)),  
    qw(0 1 2 3 5 8 a b)),
    
    CONFLICT => sub ($$) {  
        q{<}, @{$_[0]}, q{|}, @{$_[1]}, q{>}
    )
    )},  
"n";
    #)
), "n";
    #print join( 
    qw(0 1 @ < 3 | # > 6)]
    # )}, "n";

1;
```
use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
});

@merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
}, $key_generation_function);

$merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
});

$merged = merge(@ancestor, @a, @b, {
    CONFLICT => sub { }
}, $key_generation_function);

@diff = diff3(@ancestor, @a, @b);

@diff = diff3(@ancestor, @a, @b, $key_generation_function);

$diff = diff3(@ancestor, @a, @b);

$diff = diff3(@ancestor, @a, @b, $key_generation_function);

@trav = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
});

@trav = traverse_sequences3(@ancestor, @a, @b, {
    # callbacks
}, $key_generation_function);

$strav = traverse_sequences3(@ancestor, @a, @b, {
This module complements L<Algorithm::Diff|Algorithm::Diff> by providing three-way merge and diff functions.

In this documentation, the first list to C<diff3>, C<merge>, and C<traverse_sequences3> is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in L<Algorithm::Diff|Algorithm::Diff>. See L<Algorithm::Diff> for more information.

Given references to three lists of items, C<diff3> performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

| original: | a b c e f h i k |
| left:     | a b d e f g i j k |
| right:    | a b c d e h i j k |

we have the following result from diff3:

```
[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
```
The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are C<$@ancestor$>, C<$@a$>, and C<$@b$>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way merge. The C<merge> function uses the C<diff3> function to do most of the work.

The only callback currently used is C<CONFLICT> which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default C<CONFLICT> callback returns the following:

q{<!-- ------ START CONFLICT ------ -->},
(@left),
q{<!-- ---------------------------- -->},
(@right),
q{<!-- ------  END  CONFLICT ------ -->},

=head2 traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

=over 4
=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B_DIFF

This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item C_DIFF

This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the
third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

=back 4

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

L<<Algorithm::Diff|Algorithm::Diff>>`s implementation of C<traverse_sequences> may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, C<traverse_sequences3> will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...` warning. It will try to handle this, but there may be some cases where it can't.

=head1 SEE ALSO

L<<Algorithm::Diff>>.

=head1 AUTHOR

James G. Smith, <jsmith@cpan.org>

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NAME
   Algorithm::Merge - Three-way merge and diff

SYNOPSIS
   use Algorithm::Merge qw(merge diff3 traverse_sequences3);

   @merged = merge(\@ancestor, \@a, \@b, {
       CONFLICT => sub { }
   });

   @merged = merge(\@ancestor, \@a, \@b, {
       CONFLICT => sub { }
   }, $key_generation_function);

   $merged = merge(\@ancestor, \@a, \@b, {
       CONFLICT => sub { }
   });

   $merged = merge(\@ancestor, \@a, \@b, {
       CONFLICT => sub { }
   }, $key_generation_function);

   @diff = diff3(\@ancestor, \@a, \@b);

   @diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

   $diff = diff3(\@ancestor, \@a, \@b);

   $diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

   @trav = traverse_sequences3(\@ancestor, \@a, \@b, {
       # callbacks
   });

   @trav = traverse_sequences3(\@ancestor, \@a, \@b, {
       # callbacks
   }, $key_generation_function);

   $trav = traverse_sequences3(\@ancestor, \@a, \@b, {
       # callbacks
   });

   $trav = traverse_sequences3(\@ancestor, \@a, \@b, {
# callbacks
} , Skey_generation_function);

**USAGE**

This module complements Algorithm::Diff by providing three-way merge and
diff functions.

In this documentation, the first list to "diff3", "merge", and
"traverse_sequences3" is called the ‘original’ list. The second list is
the ‘left’ list. The third list is the ‘right’ list.

The optional key generation arguments are the same as in
Algorithm::Diff. See Algorithm::Diff for more information.

diff3

Given references to three lists of items, "diff3" performs a three-way
difference.

This function returns an array of operations describing how the left and
right lists differ from the original list. In scalar context, this
function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

```
original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k
merge: a b d e g i j k
```

we have the following result from diff3:

```
[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'T', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]
```

The first element in each row is the array with the difference:

```
c - conflict (no two are the same)
```
The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

merge
Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

\[
\begin{align*}
q\langle!-------&\text{START CONFLICT}------\rightarrow\rangle, \\
(@\text{left}), \\
q\langle!-&\text{------------------------}------\rightarrow\rangle, \\
(@\text{right}), \\
q\langle!-------&\text{END CONFLICT}------\rightarrow\rangle,
\end{align*}
\]

traverse_sequences3
This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

NO_CHANGE
This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

A_DIFF
This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.
If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

**B_DIFF**
This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

**C_DIFF**
This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.

If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

**CONFLICT**
This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.
BUGS
Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO
Algorithm::Diff.

AUTHOR
James G. Smith, <jsmith@cpan.org>

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Found in path(s):
* /opt/cola/permits/1176105893_1624619075.97/0/libalgorithm-merge-perl-0-08-orig-1-tar-gz/Algorithm-Merge-0.08/README

1.36 tar 1.29b 2ubuntu0.1
1.36.1 Available under license :
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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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1.41 pkg-sftp 1.10.1

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.
Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

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

--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
close(fd);
}

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily\n",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                goto finished;
+
+            if (stat(flag, &s) != 0)
+            {
+                display_file(pamh, "/etc/legal");
+                mkdir(dir, 0700);
+                retval = PAM_FAILURE;
+                goto finished;
+            }
+        }
+    }
+    f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+          S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+    if (f>=0) close(f);
+  }
+
+finished:
+  if (pam_modutil_regain_priv(pamh, &privs)) {
+    pam_syslog(pamh, LOG_ERR,
+               "Unable to change UID back to %d\n", privs.old_uid);
+    retval = PAM_SESSION_ERR;
+  }
+
+  __pam_drop(flag);
+  __pam_drop(dir);
+}
+
+return retval;
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);
+
+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
+
This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.46 cpp 7.5.0 3ubuntu1~18.04

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3.1, 31 March 2009

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1.49 eapache-channels 1.1.0

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1.50 spf13-pflag 1.0.5

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1.51 binutils 2.30 21ubuntu1~18.04.7

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

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

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

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

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

The Intel 80386 machine description was written by Eliot Dresselhaus.

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

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

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

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

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

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

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of
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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

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

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

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

typedef unsigned int nfds_t;

#define POLLIN0x0001
#define POLLOUT0x0004
#define POLLERR0x0008
#define POLLHUP0x0010
#define POLLNVAL0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI0x0002
#define POLLRDNORM0x0040
#define POLLNORMPOLLRDNORM
#define POLLWRNORM   POLLOUT
#define POLLRDBAND0x0080
#define POLLWRBAND0x0100
#endif

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

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

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* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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* /

 ifndef HAVE_SETREGID
int setregid(gid_t, gid_t, gid_t);
#endif
 ifndef HAVE_SETREUID
int setreuid(uid_t, uid_t, uid_t);
#endif
/
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*
#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

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

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

/* Prototype */
pid_t waitpid(int, int *, int);
#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */

1.57 gopacket 1.1.19
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1.58 patch 2.7.6-2ubuntu1

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1.60 go-errors-errors v1.0.2

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1.61 logback-core 1.1.7

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1.65 keyutils 1.5.9-9.2ubuntu2.1

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@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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D3DES (V5.09) -

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Written with Symantec’s THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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That's all there is to it!

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Version 2.1, February 1999

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Version 3, 29 June 2007

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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
* public domain.

1.91 xxhash 2.1.1

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README for release 6b of 27-Mar-1998

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

This file contains the following sections:

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

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

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

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

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


The 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.
The TIFF 6.0 file format specification can be obtained by FTP from
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

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

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

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

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

FILE FORMAT WARS

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

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.
The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

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

**TO DO**

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.

1.95 jaxb-core 2.2.11

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.111 xml-commons-resolver 1.2

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@example
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[applies only to hppa*-.*-pro* targets]

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1.116 e2fsprogs 1.44.1 1ubuntu1.3
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*/
Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
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-
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Theodore Ts'o
23-June-2007

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

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

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

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

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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:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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

all:: image

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

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

image:$ (BSD_LIB)

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

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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

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

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Gadi Oxman, August 1995

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1.120 bcel 5.2

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

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1.124 libxmu 1.1.2-2

1.124.1 Available under license :

No license file was found, but licenses were detected in source scan.

--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#!/bin/sh
+
+srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
+    cd $srcdir
+    cd $ORIGDIR
+    autoreconf -v --install || exit 1
+    cd $ORIGDIR
+    $srcdir/configure "$@"
+fi
--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
when building in parallel (closes: #801059). Thanks, Matthias Klose!

[ Julien Cristau ]

* Remove Cyril from Uploaders.
* Bump Standards-Version to 3.9.6, update Vcs-* control fields.

-- Julien Cristau <jcristau@debian.org> Sat, 14 Nov 2015 10:04:44 +0100

+libxmu (2:1.1.2-1) unstable; urgency=low

+ * New upstream release.
+ * Add ${misc:Depends} to libxmu-headers.
+ * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ * Add build-{arch,indep} debian/rules targets.
+ * Bump debhelper compat level from 5 to 7.

-- Julien Cristau <jcristau@debian.org> Mon, 05 May 2014 14:13:01 +0200

+libxmu (2:1.1.1-1) unstable; urgency=low

+ * New upstream release.
+ * Don't require (fake)root for debian/rules clean.
+ * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per
  + configure.ac.
+ * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call
  + from debian/rules.
+ * Remove David Nusinow from Uploaders.
+ * Bump debhelper build-dep for ${misc:Pre-Depends} usage.

-- Julien Cristau <jcristau@debian.org> Sat, 21 Apr 2012 10:50:11 +0200

+libxmu (2:1.1.0-3) unstable; urgency=low

+ * Build for multiarch.

-- Steve Langasek <vorlon@debian.org> Fri, 21 Oct 2011 14:47:59 -0700

+libxmu (2:1.1.0-2) unstable; urgency=low

+ [ Christopher James Halse Rogers ]
+ * debian/patches/01_dont_export_private_deps.patch:
  - The Xmu.h header uses libXt symbols in a #define, so libXt is not a
    private dep. With binutils-gold, the indirect dependency on Xt is not
    considered when linking with Xmu so this causes build failures.

+ [ Julien Cristau ]
+ * Drop Pre-Depends on x11-common, only needed for upgrades from the
  monolith.
+ + -- Julien Cristau <jcristau@debian.org> Thu, 28 Apr 2011 14:10:11 +0200
+ +libxmu (2:1.1.0-1) unstable; urgency=low
+ + * New upstream release.
+ * Bump xutils-dev build-dep for new macros.
+ * Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.
+ * Pass --with-xmlto and --without-fop (we want html and txt only).
+ * Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
  + libxmu-headers.install file.
+ * Remove the hardcoded path to the X logo in the Xmu.html file.
+ * Kill *.xml in the doc directory, no point in shipping them.
+ * Switch from --list-missing to --fail-missing for additional safety.
+ + -- Cyril Brulebois <kibi@debian.org> Fri, 19 Nov 2010 08:42:29 +0100
+ +libxmu (2:1.0.5-2) unstable; urgency=high
+ + + [ Julien Cristau ]
+ * Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
  + good reason. Thanks, Colin Watson!
+ * Remove myself from Uploaders
+ * Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
  + libxmuu1-dbg (Closes: #594500). Thanks to Luca Falavigna for the report.
+ + [ Cyril Brulebois ]
+ * Add myself to Upuploaders.
+ * Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
  + for the report.
+ + -- Cyril Brulebois <kibi@debian.org> Sat, 04 Sep 2010 14:32:30 +0200
+ +libxmu (2:1.0.5-1) unstable; urgency=low
+ + + [ Timo Aaltonen ]
+ * New upstream release.
+ + Fix 64bit support (closes: #521887)
+ + [ Julien Cristau ]
+ * Bump Standards-Version to 3.8.3.
+ + -- Julien Cristau <jcristau@debian.org> Wed, 25 Nov 2009 19:20:17 +0100
+ +libxmu (2:1.0.4-2) unstable; urgency=low
+ + + [ Julien Cristau ]
+ * Drop -1 debian revisions from build-deps.
+ * libxmu6{,-dbg}, libxmu-dev, libxmuu1{,-dbg} and libxmuu-dev don't need a
  dependency on x11-common.
+ * Build libxmu-headers in binary-indep instead of binary-arch
  (closes: #486418). Thanks, Martin Köppe!
+ * Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
+ * Handle parallel builds.

[ Brice Goglin ]
+ * Add a link to www.X.org and a reference to the upstream module
  in the long description.
+ * Add upstream URL to debian/copyright.
+ * Add README.source, bump Standards-Version to 3.8.2.
+ * Use updated xsfbs, closes: #538587.
+ * Move -dbg packages to section debug.

-- Julien Cristau <jcristau@debian.org> Fri, 07 Aug 2009 14:30:36 +0200
+ libxmu (2:1.0.4-1) unstable; urgency=low
+ [ Julien Cristau ]
+ * New upstream release.
  + * Make libxmu*-dev depend on libxmu-headers (= ${source:Version}). Thanks,
    Josh Triplett.
  + * Don't export private dependencies in xmu.pc and xmuu.pc. These
dependencies are handled by Requires.private.
  + * Due to the above, build-depend on quilt and apply the xsfbs patch rules.
  + * Update xsfbs to the latest version as of 2008-01-06.
  + * Add myself to Uploaders, and remove Branden and Fabio with their
    permission.
  + * Bump Standards-Version to 3.7.3 (no changes).
  + * s/^XS-Vcs/Vcs/

[ Timo Aaltonen ]
+ * Bump the epoch so that this can be synced to Ubuntu in the future.

-- Julien Cristau <jcristau@debian.org> Thu, 17 Jan 2008 14:57:47 +0100
+ libxmu (1:1.0.3-1) unstable; urgency=low
+ [ Julien Cristau ]
+ * New upstream release.
  + * Install the upstream changelog.
  + * Remove outdated CVS information from the package descriptions, and add
    XS-Vcs-Git and XS-Vcs-Browser.
  + * Fix package sections (libraries in libs, development stuff in libdevel).
  + * Use ${binary:Version} instead of ${Source-Version}.

-- Julien Cristau <jcristau@debian.org> Thu, 12 Apr 2007 13:40:07 +0200
+
+libxmu (1:1.0.2-2) unstable; urgency=low
+
+ [ Andres Salomon ]
+ * Test for obj-$(DEB_BUILD_GNU_TYPE) before creating it during build;
+ idempotency fix.
+
+ [ Drew Parsons ]
+ * dbg package has priority extra.
+
  -- David Nusinow <dnusinow@debian.org> Wed, 30 Aug 2006 16:53:25 -0400
+
+libxmu (1:1.0.2-1) experimental; urgency=low
+
+ * New upstream release
+ * Bump debhelper compat to 5
+ * Run dh_install with --list-missing
+ * Version the -headers package’s x11-common pre-dep to use version 1:7.0.0
+ * Run dh_install with --list-missing
+ * Version the -headers package’s x11-common pre-dep to use version 1:7.0.0
+ to match the rest of Debian and shut lintian up
+
  -- David Nusinow <dnusinow@debian.org> Mon, 3 Jul 2006 18:43:32 -0400
+
libxmu (1:1.0.2-2) unstable; urgency=low
+
+ * Reorder makeshlib command in rules file so that ldconfig is run
+ properlty. Thanks Drew Parsons and Steve Langasek.
+
  -- David Nusinow <dnusinow@debian.org> Tue, 18 Apr 2006 21:49:59 -0400
+
+libxmu (1:1.0.1-3) unstable; urgency=low
+
+ * Reorder makeshlib command in rules file so that ldconfig is run
+ properly. Thanks Drew Parsons and Steve Langasek.
+
  -- David Nusinow <dnusinow@debian.org> Mon, 3 Jul 2006 18:43:32 -0400
+
+libxmu (1:1.0.1-2) unstable; urgency=low
+
+ * Upload to unstable
+
+ -- David Nusinow <dnusinow@debian.org> Thu, 23 Mar 2006 22:44:59 -0500
+
+libxmu (1:1.0.1-1) experimental; urgency=low
+
+ * First upload to Debian
+
+ -- David Nusinow <dnusinow@debian.org> Thu, 29 Dec 2005 20:53:53 -0500
+
+libxmu (1:6.2.3-5) breezy; urgency=low
+
+ * Also, libxmu-dev needs to depend on libxt-dev too.
+
+ -- Adam Conrad <adconrad@ubuntu.com> Mon, 25 Jul 2005 09:43:47 +0000
+
+libxmu (1:6.2.3-4) breezy; urgency=low
Bump libxmu-dev build-dep once more, _XOPEN_SOURCE begone!

-- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 10:48:14 +0000
++

libxmu (1:6.2.3-3) breezy; urgency=low

-- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 07:56:02 +0000
++

libxmu (1:6.2.3-2) breezy; urgency=low

-- Adam Conrad <adconrad@ubuntu.com>  Sun, 24 Jul 2005 10:48:14 +0000
++

* Make libxmu-dev depend on libxext-dev, since libxmu links to it.

-- Daniel Stone <daniel.stone@ubuntu.com>  Sat, 23 Jul 2005 00:20:50 +1000
++

libxmu (1:6.2.3-1) breezy; urgency=low

-- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 16 May 2005 22:10:17 +1000
---

* First libxmu release.

-- Daniel Stone <daniel.stone@ubuntu.com>  Mon, 16 May 2005 22:10:17 +1000
---

libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
@@ -0,0 +1 @@
+9

---

libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
+  debhelper (>= 9),
+  dh-autoconf,
+  libx11-dev (>= 1:0.99.2),
+  libxt-dev (>= 1:0.99.1),
+  libxext-dev (>= 1:0.99.1),
+  pkg-config,
+  quilt,
+  automake,
+  libtool,
+  xutils-dev (>= 1:7.6+2),
+# devel-docs:
+ xmlto (>= 0.0.22),
+ xorg-sgml-doctools (>= 1:1.8),
+ w3m,
+ Standards-Version: 3.9.6
+ Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
+ Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git

+ Package: libxmu6
+ Section: libs
+ Architecture: any
+ Multi-Arch: same
+ Pre-Depends: ${misc:Pre-Depends}
+ Depends: ${shlibs:Depends}, ${misc:Depends}
+ Description: X11 miscellaneous utility library
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+ .
+ Package: libxmu6-dbgsym
+ Section: debug
+ Architecture: any
+ Multi-Arch: same
+ Priority: extra
+ Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})
+ Description: X11 miscellaneous utility library (debug package)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the debug versions of the library found in libxmu6.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+ .
+ Package: libxmu-dev
+ Section: libdevel
+ Architecture: any
+ Multi-Arch: same
+ Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-
+ headers (= ${source:Version})
Description: X11 miscellaneous utility library (development headers)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmuu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the development headers for the library found in
+ libxmu6. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+ Package: libxmuu1
+ Section: libs
+ Architecture: any
+ Multi-Arch: same
+ Pre-Depends: ${misc:Pre-Depends}
+ Depends: ${shlibs:Depends}, ${misc:Depends}
+ Description: X11 miscellaneous micro-utility library
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+ Package: libxmuu1-dbg
+ Section: debug
+ Architecture: any
+ Multi-Arch: same
+ Priority: extra
+ Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
+ Description: X11 miscellaneous micro-utility library (debug package)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the debug versions of the library found in libxmuu1.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmuu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
+ libXmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the development headers for the library found in
+ libxmuu1. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+
+Package: libxmu-headers
+Section: libdevel
+Architecture: all
+Multi-Arch: foreign
+Depends:
+ libx11-dev,
+ x11proto-core-dev,
+ ${misc:Depends},
+Description: X11 miscellaneous utility library headers
+ libXmu and libXmuu are miscellaneous utility libraries for X library
+ developers to abstract some common functions. This package provides the
+ headers for both libraries (as libXmuu is a subset of libXmu), and
+ is depended upon by both. For more information, please see libxmu-dev or
+ libxmuu-dev.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
--- libxmu-1.1.2.orig/debian/copyright
+++ libxmu-1.1.2/debian/copyright
@@ -0,0 +1,77 @@
+This package was downloaded from
+http://xorg.freedesktop.org/releases/individual/lib/
+ And Xmu/Clip.c has:
+
+ Copyright (c) 1998 by The XFree86 Project, Inc.
+
+ Permission is hereby granted, free of charge, to any person obtaining a
+ copy of this software and associated documentation files (the "Software"),
+ to deal in the Software without restriction, including without limitation
+ the rights to use, copy, modify, merge, publish, distribute, sublicense,
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+ dealings in this Software without prior written authorization from the
+ XFree86 Project.
--- libxmu-1.1.2.orig/debian/libxmu-dev.install
+++ libxmu-1.1.2/debian/libxmu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmu.a
+usr/lib/*/libXmu.so
+usr/lib/*/pkgconfig/xmu.pc
--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu-headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu6.headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu6.headers
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*/libXmuu.a
+usr/lib/*/libXmuu.so
+usr/lib/*/pkgconfig/xmuu.pc
--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxmuu1.install
@@ -0,0 +1 @@
+usr/lib/*/*libXmuu.so.1*
--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
+diff --git a/xmu.pc.in b/xmu.pc.in
+index a086f83..15dabbf 100644
+--- a/xmu.pc.in
++++ b/xmu.pc.in
+@@ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmu
+ Description: Xmu Library
+ Version: PACKAGE_VERSION@
+-Requires: xproto x11 xt
++Requires: xproto xt
+ Requires.private: x11 xt xext
+ Cflags: -I$[includedir]
+ Libs: -L$[libdir] -lXmu
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index 1e91ac4..72fa5f9 100644
+--- a/xmuu.pc.in
++++ b/xmuu.pc.in
+@@ -6,7 +6,7 @@ includedir=@includedir@
+ Name: Xmuu
+ Description: Mini Xmu Library
+ Version: PACKAGE_VERSION@
+-Requires: xproto x11
++Requires: xproto
+ Requires.private: x11
+ Cflags: -I$[includedir]
+ Libs: -L$[libdir] -lXmuu
--- libxmu-1.1.2.orig/debian/patches/series
+++ libxmu-1.1.2/debian/patches/series
@@ -0,0 +1 @@
+01_dont_export_private_deps.diff
--- libxmu-1.1.2.orig/debian/rules
+++ libxmu-1.1.2/debian/rules
@@ -0,0 +1,34 @@
+#!/usr/bin/make -f
+# debian/rules for the Debian libxmu package.
+# Copyright  2004 Scott James Remnant <scott@netsplit.com>
+# Copyright  2005 Daniel Stone <daniel@fooishbar.org>
+# Copyright  2005 David Nusinow <dnusinow@debian.org>
+
+# Uncomment this to turn on verbose mode.
+#export DH_VERBOSE=1
+ .PHONY: build
+build:
+dh build --with quilt,autoreconf --builddirectory=build/ --parallel
+
+%:
+dh @ --with quilt,autoreconf --builddirectory=build/ --parallel
+
+override_dh_auto_configure:
+dh_auto_configure -- \
+--disable-silent-rules \
+--docdir=$${prefix}/share/doc/libxmu-headers \
+--with-xmlto \
+--without-fop
+
+override_dh_auto_install:
+dh_auto_install
+find debian/tmp/usr/share/doc/libxmu-headers -name "*.xml" -delete
+
+override_dh_install-arch:
+dh_install --fail-missing -Xusr/include -X.la
+
+override_dh_strip:
+dh_strip -Nlibxmu6 -Nlibxmuu1
+dh_strip -plibxmu6 --dbg-package=libxmu6-dbgsym
+dh_strip -plibxmuu1 --dbg-package=libxmuu1-dbgsym
--- libxmu-1.1.2.orig/debian/watch
+++ libxmu-1.1.2/debian/watch
@@ -0,0 +1,3 @@
+#git=git://anongit.freedesktop.org/xorg/lib/libXmu
+version=3
++
+Found in path(s):
* /opt/ws_local/PERMITS_SQL/1013987576_1591897387.78/0/libxmu-1-1-2-2-diff-gz/libxmu_1.1.2-2.diff

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1.127 libxi 1.7.9-1
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1.128 x-sys master

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1.129 queue 1.1.0

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1.130 patch 2.7.6 2ubuntu1.1

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It was downloaded from https://github.com/iputils/iputils

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maven-plugin-api (3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/
* Source: https://github.com/apache/maven/tree/master/maven-plugin-api

maven-resolver-api (1.1.1)

* License: Apache-2.0

maven-resolver-util (1.1.1)

* License: Apache-2.0
maven-settings (3.5.2)

* License: Apache-2.0

mex.xsd Version: 2004/09 (n/a)

* License: Oasis Style
  * Project: https://www.w3.org/Submission/WS-MetadataExchange/#appendix-II

plexus-utils (3.1.0)

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relaxng-datatype (1.0)

* License: New BSD license

stax2-api (4.1)

* License: Pending
  * Project: https://github.com/FasterXML/stax2-api
  * Source:

testng (6.14.2)

* License: Apache-2.0 AND MIT
  * Project: https://testng.org/doc/index.html
  * Source: https://github.com/cbeust/testng

woodstox-core-asl (4.4.1)

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woodstox-core-asl (5.1.0)

* License: Apache-2.0
  * Project: https://github.com/FasterXML/woodstox
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ws-addr.wsd (1.0)

* License: W3C
  * Project: https://www.w3.org/2005/08/addressing/
  * Source: https://www.w3.org/2006/03/addressing/ws-addr.xsd
wsat.xsd Version: 2004/10 (n/a)

* License: Oasis Style
* Source: http://schemas.xmlsoap.org/ws/2004/10/wsat/wsat.xsd

wscoor.xsd (1.0)

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wscoor.xsd (1.1)

* License: Oasis (Custom)
* Project: http://docs.oasis-open.org/ws-tx/wscoor/2006/06
* Source:
  http://docs.oasis-open.org/ws-tx/wscoor/2006/06/wstx-wscoor-1.1-schema-200701.xsd

wsmr Version: 2005/02 (n/a)

* License: Oasis (Custom)
* Project: http://schemas.xmlsoap.org/ws/2005/02/rm/
* Source:
  http://schemas.xmlsoap.org/ws/2005/02/rm/wsmr.xsd;x=20http://schemas.xmlsoap.org/ws/2005/02/rm/wsmr-
policy.xsd

wsmr.xsd (1.2)

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wstx-wsat.xsd (1.1)

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xmlsec (1.5.8)

* License: Apache-2.0
* Project: http://santuario.apache.org/
* Source:
  https://repo1.maven.org/maven2/org/apache/santuario/xmlsec/1.5.8/xmlsec-1.5.8-sources.jar

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1.141 slf4j-log4j 1.7.7

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1.143 libmpc 1.1.0 1
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1.144 cyrus-sasl 2.1.27~101-g0780600+dfsg-3ubuntu2.3

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 * Rob Earhart
 * Rob Siemborski
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/* CMU libasasl
 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */

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1.146 trylock 0.0.0-20191027065348-ff7e133a5c54

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1.147 perl 5.26.1 6ubuntu0.3

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

---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>.'"
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: 1.4
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<signature of Ty Coon>, 1 April 1989
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The End

#!perl
=head1 NAME
copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

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

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

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

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

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

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

1.148 go-uber-org-multierr 1.6.0

1.148.1 Available under license:

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1.149 hostname 3.20

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hostname -- set the host name or show the host/domain name

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1.150 procps 3.3.12-3ubuntu1.1
1.150.1 Available under license:

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

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

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

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

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

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

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

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

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For an executable, the required form of the "work that uses the
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1.154 libxcb 1.13 1

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1.156 viper 1.7.1

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1.157 openssl 1.1.1l

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1.158 p11-kit 0.23.9-2

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man/bitstring.3bsd
man/errc.3bsd
man/explicit_bzero.3bsd
man/fgetln.3bsd
man/fgetwln.3bsd
man/fpurge.3bsd
man/funopen.3bsd
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man/heapsort.3bsd
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man/queue.3bsd
man/radixsort.3bsd
man/reallocarray.3bsd
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man/setmode.3bsd
man/strmode.3bsd
man/strnstr.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcslepy.3bsd
src/getbsize.c
src/heapsort.c
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man/getpeereid.3bsd
man/pidfile.3bsd
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src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
src/getentropy_bsd.c
src/getentropy_hpux.c
src/getentropy_hurd.c
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1.180 p11-kit 0.23.9-2ubuntu0.1

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1.181 netcat 1.10 41.1

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1.182 expat 2.2.5 3

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1.183 libksba 1.3.5 2

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1.185 gdbm 1.14.1-6

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man/setmode.3bsd
man/strmode.3bsd
man/strnstr.3bsd
man/unvis.3bsd
man/vis.3bsd
man/wcslepy.3bsd
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src/fmtcheck.c
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man/getpeereid.3bsd
man/pidfile.3bsd
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src/arc4random_uniform.c
src/arc4random_unix.h
src/closefrom.c
src/getentropy_aix.c
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1.190 go 1.13.7

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

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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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file name: UBiDiProps.java
Low-level Unicode bidi/shaping properties access.
Java port of ubidi.props.h/c.
This locale data is based on the ICU's Vietnamese locale data (rev. 1.38) found at:


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Replaceable 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 Replaceable 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".

Replaceable 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.

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

For a subclass to support metadata, typical behavior of replace() is the following:
<ui>
<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.</p>

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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1.196 httpcomponents-client 4.3.2

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1.197 libsepol 2.7-1

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1.198 curl 7.58.0 2ubuntu3.6

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

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1.203 pinentry 1.1.0-1

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1.205 openzipkin-contrib-zipkin-go-opentracing 0.4.5

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1.206 shadow 4.5-1ubuntu2.2

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1.209 go-ldap.v2 v2.5.1

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1.211 gzip 1.6-5ubuntu1.2

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1.212 ncurses 6.1-1ubuntu1.18.04

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cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/libgss/g_acquire_cred.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
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
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#
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#
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#
#git shortlog -se | awk '{print $2 " " $3 " " $4}'
#
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```

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

---
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author:
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- 'Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
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Also add information on how to contact you by electronic and paper mail.

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

Gnomovision version 69, Copyright (C) 19xx name of author
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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
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program.

You should also get your employer (if you work as a programmer) or your
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necessary. Here a sample; alter the names:

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End

#!/perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

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

my ($opt) = @ARGV;

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

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

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

done_testing;

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

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

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

1.222 gnutls 3.5.18-1ubuntu1
1.222.1 Available under license:
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Version 2.1, February 1999

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

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

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### 1.223 go-toml 1.8.1

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src/base/md5.h

src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
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src/pcf/module.mk
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src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk

src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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1.231 pcre 8.39-9

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1.234 libseccomp 2.4.1 0ubuntu0.18.04.2

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1.236 acl 2.2.52 3build1

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/* Use the Sequent Symmetry assembler syntax. */

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

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

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

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation. */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */

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

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

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

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

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

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

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  
  ( fputs (".lcomm ", (FILE)),
    assemble_name ((FILE), (NAME)),
    fprintf ((FILE), ",%u,%u
", (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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@c Set file name and title for man page.
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@item The work must carry prominent notices stating that you modified it, and giving a relevant date.
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@item Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy
the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

@end enumerate

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.

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Program, unless a warranty or assumption of liability accompanies a
copy of the Program in return for a fee.

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@end smallexample

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

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@smallexample
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@end smallexample

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

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========

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SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
#!/usr/bin/python
#
# Copyright (C) 2013-2017 Free Software Foundation, Inc.
#
# This script is free software; you can redistribute it and/or modify
# it under the terms of the GNU General Public License as published by
# the Free Software Foundation; either version 3, or (at your option)
# any later version.

# This script adjusts the copyright notices at the top of source files
# so that they have the form:
#
# Copyright XXXX-YYYY Free Software Foundation, Inc.
#
# It doesn't change code that is known to be maintained elsewhere or
# that carries a non-FSF copyright.
#
# The script also doesn't change testsuite files, except those in
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,
# while most tests in other directories are just things that failed at some
# point in the past.
#
# Pass --this-year to the script if you want it to add the current year
# to all applicable notices. Pass --quilt if you are using quilt and
# want files to be added to the quilt before being changed.
#
# By default the script will update all directories for which the
# output has been vetted. You can instead pass the names of individual
# directories, including those that haven't been approved. So:
#
# update-copyright.py --this-year
#
# is the command that would be used at the beginning of a year to update
# all copyright notices (and possibly at other times to check whether
# new files have been added with old years). On the other hand:
# update-copyright.py --this-year libitm
#
# would run the script on just libitm/.
#
# Note that things like --version output strings must be updated before
# this script is run. There's already a separate procedure for that.

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report(self, filename, string):
        if filename:
            string = filename + ': ' + string
        sys.stderr.write(string + '
')
        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
        ])

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def get_line_filter(self, dir, filename):
    if filename.startswith('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile(r'^$')
    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\(*\[0-9\]\]

        # 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 + ',?'

# 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'? + name +')*\s*)'

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

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

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

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

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find ('')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find ('', index + 1)
def add_external_author (self, holder):
    self.holders[holder] = None

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

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

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

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

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

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

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

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

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

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
def strip_continuation(self, line):
    line = line.lstrip()
    match = self.comment_re.match(line)
    if match:
        line = line[match.end():].lstrip()
    return line

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

def update_copyright(self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join(dir, filename)
    intro = match.group(1)
    if intro.startswith('@set '):
        # Texinfo year variables should always be on one line
        after_years = line[match.end(2):].strip()
        if after_years != '':
            self.errors.report(pathname,
                               'trailing characters in @set: ' + after_years)
            return (False, orig_line, next_line)
        else:
            # If it looks like the copyright is incomplete, add the next line.
            while not self.is_complete(match):
                try:
                    next_line = file.next()
                except StopIteration:
                    break
                # If the next line doesn't look like a proper continuation,
                # assume that what we've got is complete.
                continuation = self.strip_continuation(next_line)
                if not self.continuation_re.match(continuation):
                    break
                # Merge the lines for matching purposes.
                orig_line += next_line
                line = line.rstrip() + ' ' + continuation
                next_line = None
# Rematch with the longer line, at the original position.
match = self.copyright_re.match(line, match.start())
assert match

holder = match.group(4)

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

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

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

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

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

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

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

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

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

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

return (line != orig_line, line, next_line)

def process_file(self, dir, filename, filter):
    pathname = os.path.join(dir, filename)
    if filename.endswith('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove(pathname)
        except OSError:
            pass
        return
    lines = []
    changed = False
    line_filter = filter.get_line_filter(dir, filename)
    mode = None
    with open(pathname, 'r') as file:
        prev = None
        mode = os.fstat(file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match(line)):
                    match = self.copyright_re.search(line)
                    if match:
                        res = self.update_copyright(dir, filename, filter,
                                                     file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed
                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search(line):
                    self.errors.report(pathname,
                                       'unrecognised copyright: %s'
                                       % line.strip())
                lines.append(line)
                line = next_line
# If something changed, write the new file out.
if changed and self.errors.ok):
    tmp_pathname = pathname + '.tmp'
    with open (tmp_pathname, 'w') as file:
        for line in lines:
            file.write (line)
    os.fchmod (file.fileno(), mode)
if self.use_quilt:
    subprocess.call (["quilt", 'add', pathname])
    os.rename (tmp_pathname, pathname)

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

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

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

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

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

    def add_dir (self, dir, filter = GenericFilter()):
        self.dirs.append ((dir, filter))
def o_help (self, option = None):
    sys.stdout.write ('Usage: %s [options] dir1 dir2...

    ' % 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 + '
')
        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: ' + 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 ([]}
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',
            '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
        return GenericFilter.skip_file (self, dir, filename)

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

        self.skip_extensions |= set ("
            # Maintained by the translation project.
            'po',
            
            # Automatically-generated.
            'pot',
        ")

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)
self.skip_dirs |= set([
    # Imported from GLIBC.
    'soft-fp',
])

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

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

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

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

            # Contains imported images
            'images',
        ])

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

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

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

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

__init__ (self):  
    # 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')
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The “source code” for a work means the preferred form of the work for making modifications to it. “Object code”
means any non-source form of a work.

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1.248 openjdk 1.8.0u192

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 *
*

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### xwd utility

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GL/xlext.h       Khronos
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KHR/khrplatform.h Khronos

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

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include/GL/glext.h
include/GL/glxext.h
include/GL/wglext.h :

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1.253 tcp-dump 4.9.3-0ubuntu0.18.04.2

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It was downloaded from http://www.tcpdump.org/

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1.268 httpcomponents-core 4.3.2
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1.271 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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1.272 apt 1.6.14

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1.275 libxau 1.0.8 1

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1.276 curl 7.58.0 2ubuntu3.7

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

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DRuntime: Runtime Library for the D Programming Language

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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</tbody>
</table>

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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/stream/JsonReader.java

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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java
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* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/TypeAdapterFactory.java
* /opt/cola/permits/1000760527_1646171563.11/0/gson-2-8-2-sources-jar/com/google/gson/TypeAdapter.java
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* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/wiring/ClassNameBeanWiringInfoResolver.java
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* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/xml/XmlReaderContext.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/serviceloader/ServiceLoaderFactoryBean.java
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* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2-jar/org/springframework/beans/factory/serviceloader/AbstractServiceLoaderBasedFactoryBean.java
*/
jar/org/springframework/beans/factory/config/BeanExpressionContext.java
* /opt/cola/permits/1135863686_1613617928.48/0/spring-beans-3-2-17-release-sources-2.jar/org/springframework/beans/ConfigurablePropertyAccessor.java
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1.293 dash 0.5.8 2.10

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1.294 libalgorithm-diff-perl 1.19.03-1

1.294.1 Available under license:
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---
abstract: unknown
author:
- unknown
build_requires:
  ExtUtils::MakeMaker: '0'
configure_requires:
  ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.98, CPAN::Meta::Converter version 2.141170'
license: unknown
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: '1.4'
name: Algorithm-Diff
no_index:
directory:
  - t
  - inc
requires: {}
version: '1.1903'

Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/META.yml

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#!/usr/bin/perl -w
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
# Altered to output in `context diff' format (but without context)
# September 1998 Christian Murphy (cpm@muc.de)
#
# Command-line arguments and context lines feature added
# September 1998 Amir D. Karger (karger@bead.aecom.yu.edu)
#
# In this file, "item" usually means "line of text", and "item number" usually
# means "line number". But theoretically the code could be used more generally
use strict;
use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile

ENDUSAGE
-c will do a context diff with 3 lines of context
-C will do a context diff with 'lines' lines of context
-u will do a unified diff with 3 lines of context
-U will do a unified diff with 'lines' lines of context

ENDUSAGE

getopts('U:C:cu') or bag("$usage");
bag("$usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
  $opt_c = ''; # -c on if -C given on command line
  $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
  $opt_u = ''; # -u on if -U given on command line
  $opt_c = undef;
} else {
  $opt_c = ''; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
  $Context_Lines = defined $opt_C ? $opt_C : 3;
  $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
  $Context_Lines = defined $opt_U ? $opt_U : 3;
  $char1 = '-' x 3; $char2 = '+' x 3;
}

# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1\t", scalar localtime($st->mtime), "\n";
$st = stat($file2);
print "$char2 $file2\n", scalar localtime($st->mtime), "\n";

my ($hunk,$oldhunk);
# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
    $hunk = new Hunk ($piece, $Context_Lines);
    next unless $oldhunk;
    if ($hunk->does_overlap($oldhunk)) {
        $hunk->prepend_hunk($oldhunk);
    } else {
        $oldhunk->output_diff(\@f1, \@f2);
    }
}

} continue {
    $oldhunk = $hunk;
}

# print the last hunk
$oldhunk->output_diff(\@f1, \@f2);
exit 1;
# END MAIN PROGRAM

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
    package Hunk;

    sub new {
        # Arg1 is output from &LCS::diff (which corresponds to one Block)
        # Arg2 is the number of items (lines, e.g..) of context around each block
        #
        # This subroutine changes $File_Length_Difference
        #
        # Fields in a Hunk:
        # blocks    - a list of Block objects
        # start     - index in file 1 where first block of the hunk starts
        # end       - index in file 1 where last block of the hunk ends
        #
my $block = new Block ($piece); # this modifies $FLD!

my $before_diff = $File_Length_Difference; # BEFORE this hunk
my $after_diff = $before_diff + $block->{"length_diff"};
$File_Length_Difference += $block->{"length_diff"};

# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist
# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths
my @remove_array = $block->remove;
my @insert_array = $block->insert;
my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array[0]->{"item_no"} : -1;
$a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;
$b1 = @insert_array ? $insert_array[0]->{"item_no"} : -1;
$b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;

$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1 = $a2 == -1 ? $b2 - $after_diff : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2 = $b2 == -1 ? $a2 + $after_diff : $b2;

# At first, a hunk will have just one Block in it
my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1" => $end1,
    "end2" => $end2,
    "blocks" => [$block],
};
bless $hunk, $class;
$hunk->flag_context($context_items);

return $hunk;

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {

}
my ($hunk, $context_items) = @_;  
return unless $context_items;  # no context

# add context before  
my $start1 = $hunk->"start1";  
my $num_added = $context_items > $start1 ? $start1 : $context_items;  
$hunk->"start1" -= $num_added;  
$hunk->"start2" -= $num_added;

# context after  
my $end1 = $hunk->"end1";  
$num_added = ($end1+$context_items > $#f1) ?  
   $#f1 - $end1 :  
   $context_items;  
$hunk->"end1" += $num_added;  
$hunk->"end2" += $num_added;

# Is there an overlap between hunk arg0 and old hunk arg1?  
# Note: if end of old hunk is one less than beginning of second, they overlap  
sub does_overlap {  
   my ($hunk, $oldhunk) = @_;  
   return "" unless $oldhunk;  # first time through, $oldhunk is empty  
   # Do I actually need to test both?  
   return ($hunk->"start1" - $oldhunk->"end1" <= 1  
      ||  
      $hunk->"start2" - $oldhunk->"end2" <= 1);
}

# Prepend hunk arg1 to hunk arg0  
# Note that arg1 isn't updated! Only arg0 is.  
sub prepend_hunk {  
   my ($hunk, $oldhunk) = @_;  
   $hunk->"start1" = $oldhunk->"start1";  
   $hunk->"start2" = $oldhunk->"start2";
   unshift (@{$hunk->"blocks"}, @{$oldhunk->"blocks"});
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...  
sub output_diff {  
   if (defined $main::opt_u) {&output_unified_diff(@_)}  
   elsif (defined $main::opt_c) {&output_context_diff(@_)}  
   else {die "unknown diff"}
}
sub output_unified_diff {
    my ($hunk, $fileref1, $fileref2) = @_; 
    my @blocklist;

    # Calculate item number range.
    my $range1 = $hunk->unified_range(1);
    my $range2 = $hunk->unified_range(2);
    print "@@ -$range1 +$range2 @@\n";

    # Outlist starts containing the hunk of file 1.
    # Removing an item just means putting a '-' in front of it.
    # Inserting an item requires getting it from file2 and splicing it in.
    # We splice in $num_added items. Remove blocks use $num_added because
    # splicing changed the length of outlist.
    # We remove $num_removed items. Insert blocks use $num_removed because
    # their item numbers---corresponding to positions in file *2*--- don't take
    # removed items into account.
    my $low = $hunk->{"start1"};
    my $hi = $hunk->{"end1"};
    my ($num_added, $num_removed) = (0,0);
    my @outlist = @$fileref1[$low..$hi];
    map {s/^/ /} @outlist; # assume it's just context

    foreach my $block (@{$hunk->{"blocks"}}) {
        foreach my $item ($block->remove) {
            my $op = $item->{"sign"}; # -
            my $offset = $item->{"item_no"} - $low + $num_added;
            $outlist[$offset] =~ s/^/$op/;
            $num_removed++;
        }
        foreach my $item ($block->insert) {
            my $op = $item->{"sign"}; # +
            my $i = $item->{"item_no"};
            my $offset = $i - $hunk->{"start2"} + $num_removed;
            splice(@outlist,$offset,0,"$op$$fileref2[$i]");
            $num_added++;
        }
    }

    map {s/$/
/} @outlist; # add \n's
    print @outlist;
}

sub output_context_diff {
    my ($hunk, $fileref1, $fileref2) = @_; 
    my @blocklist;

    foreach my $block (@{$hunk->{"blocks"}}) {
        foreach my $item ($block->remove) {
            my $op = $item->{"sign"}; # -
            my $offset = $item->{"item_no"} - $low + $num_added;
            $outlist[$offset] =~ s/^/$op/;
            $num_removed++;
        }
        foreach my $item ($block->insert) {
            my $op = $item->{"sign"}; # +
            my $i = $item->{"item_no"};
            my $offset = $i - $hunk->{"start2"} + $num_removed;
            splice(@outlist,$offset,0,"$op$$fileref2[$i]");
            $num_added++;
        }
    }

    map {s/$/
/} @outlist; # add \n's
    print @outlist;
}
print "***************
# Calculate item number range.
my $range1 = $hunk->context_range(1);
my $range2 = $hunk->context_range(2);

# Print out file 1 part for each block in context diff format if there are
# any blocks that remove items
print "**** $range1 ****
my $low = $hunk->"start1";
my $hi = $hunk->"end1";
if (@blocklist = grep {$_->remove} @{$hunk->"blocks"}) {
    my @outlist = @{$fileref1}{$low..$hi};
    map {s/^/  /} @outlist; # assume it's just context
    foreach my $block (@blocklist) {
        my $op = $block->op; # - or !
        my $item = $block->remove
        $outlist[$item-1] =~ s/^ /$op/;
    }
    map {s/$/
    } @outlist; # add \n's
    print @outlist;
}

print "--- $range2 ----
$low = $hunk->"start2";
$hi = $hunk->"end2";
if (@blocklist = grep {$_->insert} @{$hunk->"blocks"}) {
    my @outlist = @{$fileref2}{$low..$hi};
    map {s/^/  /} @outlist; # assume it's just context
    foreach my $block (@blocklist) {
        my $op = $block->op; # + or !
        my $item = $block->insert
        $outlist[$item-1] =~ s/^ /$op/;
    }
    map {s/$/
    } @outlist; # add \n's
    print @outlist;
}

sub context_range {
    # Generate a range of item numbers to print. Only print 1 number if the range
    # has only one item in it. Otherwise, it's 'start,end'
    my ($shunk, $flag) = @_;;
    my ($start, $end) = ($hunk->"start$flag",$hunk->"end$flag");
    $start++; $end++;  # index from 1, not zero
    return $range = ($start < $end) ? "$start,$end" : $end;
}
}
sub unified_range {
# Generate a range of item numbers to print for unified diff
# Print number where block starts, followed by number of lines in the block
# (don't print number of lines if it's 1)
my ($hunk, $flag) = @_;
my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
$start++; $end++; # index from 1, not zero
my $length = $end - $start + 1;
my $first = $length < 2 ? $end : $start; # strange, but correct...
my $range = $length== 1 ? $first : "$first,$length";
return $range;
}
} # end Package Hunk
# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
package Block;
sub new {
# Input is a chunk from &Algorithm::LCS::diff
# Fields in a block:
# length_diff - how much longer file 2 is than file 1 due to this block
# Each change has:
# sign
- '+' for insert, '-' for remove
# item_no - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
my ($class,$chunk) = @_;
my @changes = ();
# This just turns each change into a hash.
foreach my $item (@$chunk) {
my ($sign, $item_no, $text) = @$item;
my $hashref = {"sign" => $sign, "item_no" => $item_no};
push @changes, $hashref;
}
my $block = { "changes" => \@changes };
bless $block, $class;
$block->{"length_diff"} = $block->insert - $block->remove;
return $block;
}

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# LOW LEVEL FUNCTIONS
sub op {
# what kind of block is this?
my $block = shift;
my $insert = $block->insert;
my $remove = $block->remove;
$remove && $insert and return '!';
$remove and return '-';
$insert and return '+';
warn "unknown block type";
return '^'; # context block
}
# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{shift->{"changes"}}; }
# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+'} @{shift->{"changes"}}; }
} # end of package Block
Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff1.1903/cdiff.pl
No license file was found, but licenses were detected in source scan.
=head1 NAME
Algorithm::Diff - Compute `intelligent' differences between two files / lists
=head1 SYNOPSIS
require Algorithm::Diff;
# This example produces traditional 'diff' output:
my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );
$diff->Base( 1 ); # Return line numbers, not indices
while( $diff->Next() ) {
next if $diff->Same();
my $sep = '';
if( ! $diff->Items(2) ) {
printf "%d,%dd%d\n",
$diff->Get(qw( Min1 Max1 Max2 ));

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if( ! $diff->Items(1) ) {
    printf "%d,%d,%d,%d\n",
        $diff->Get(qw( Max1 Min2 Max2 ));
} else {
    $sep = "--\n";
    printf "%d,%d,%d,%d\n",
        $diff->Get(qw( Min1 Max1 Min2 Max2 ));
}
print "< $_" for $diff->Items(1);
print $sep;
print "> $_" for $diff->Items(2);

# Alternate interfaces:

use Algorithm::Diff qw(
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs    = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count  = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

# Complicated interfaces:

@difs  = diff( \@seq1, \@seq2 );
@sdiifs = sdiff( \@seq1, \@seq2 );
@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences(
    \@seq1,
    \@seq2,
    { MATCH => \&callback1,
        DISCARD_A => \&callback2,
        DISCARD_B => \&callback3,
    },
    \&key_generator,
    @extra_args,
);

traverse_balanced(}
I once read an article written by the authors of `diff`; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the 'longest common subsequence' method. In the LCS problem, you have two sequences of items:

```
a b c d f g h j q z
```
```
a b c d e f g i j k r x y z
```

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence `I<S>` which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want `I<S>` to be as long as possible. In this case `I<S>` is

```
a b c d f g j z
```

From there it's only a small step to get diff-like output:

```
e h i k q r x y
+ - + + - + + +
```

This module solves the LCS problem. It also includes a canned function to generate `diff`-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when
the two sequences have many repeated elements. For example, consider

```
  a x b y c z p d q
  a b c a x b y c z
```

A naive approach might start by matching up the \texttt{C<a>} and \texttt{C<b>} that appear at the beginning of each sequence, like this:

```
  a x b y c z p d q
  a b c a b y c z
```

This finds the common subsequence \texttt{C<a b c z>}. But actually, the LCS is \texttt{C<a x b y c z>}:

```
  a x b y c z p d q
  a b c a x b y c z
```

or

```
  a x b y c z p d q
  a b c a x b y c z
```

=head1 USAGE

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We’ll deal with these in ascending order of difficulty: \texttt{C<LCS>}, \texttt{C<LCS_length>}, \texttt{C<LCSidx>}, OO interface, \texttt{C<prepare>}, \texttt{C<diff>}, \texttt{C<sdiff>}, \texttt{C<traverse_sequences>}, and \texttt{C<traverse_balanced>}.  

=head2 C<LCS>

Given references to two lists of items, LCS returns an array containing their longest common subsequence. In scalar context, it returns a reference to such a list.

```
@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
```

\texttt{C<LCS>} may be passed an optional third parameter; this is a \texttt{CODE} reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

```
@lcs = LCS( \@seq1, \@seq2, \&keyGen, @args );
```
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );

Additional parameters, if any, will be passed to the key generation routine.

=head2 LCS_length

This is just like LCS except it only returns the length of the longest common subsequence. This provides a performance gain of about 9% compared to LCS.

=head2 LCSidx

Like LCS except it returns references to two arrays. The first array contains the indices into @seq1 where the LCS items are located. The second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

  my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
  my @list1 = @seq1[ @$idx1 ];
  my @list2 = @seq2[ @$idx2 ];
  my @list3 = LCS( \@seq1, \@seq2 );

=head2 new

$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, \%opts );

C new computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over I<hunks>, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.

=over 4

The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

| [ ] Encloses optional arguments | : Is followed by the default value for an optional argument |
| : Separates alternate return results |

Method summary:
$obj  = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );

$pos  = $obj->Next( [ $count : 1 ] );

$revPos = $obj->Prev( [ $count : 1 ] );

$obj  = $obj->Reset( [ $pos : 0 ] );

$copy  = $obj->Copy( [ $pos, [ $newBase ] ] );

$oldBase  = $obj->Base( [ $newBase ] );

Note that all of the following methods C<die> if used on an object that is "reset" (not currently pointing at any hunk).

<bits  = $obj->Diff( );
  @items|$cnt = $obj->Same( );
  @items|$cnt = $obj->Items( $seqNum );
  @idxs |$cnt = $obj->Range( $seqNum, [ $base ] );
  $minIdx = $obj->Min( $seqNum, [ $base ] );
  $maxIdx = $obj->Max( $seqNum, [ $base ] );
  @values  = $obj->Get( @names );

Passing in C<undef> for an optional argument is always treated the same as if no argument were passed in.

=item C<Next>

$pos = $diff->Next();  # Move forward 1 hunk

$pos = $diff->Next( 2 );  # Move forward 2 hunks

$pos = $diff->Next(-5);  # Move backward 5 hunks

C<Next> moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then C<Next()> moves to the first hunk.

C<Next> returns a true value iff the move didn't go past the last hunk.
So C<Next(0)> will return true iff the object is not reset.

Actually, C<Next> returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.

=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>
$diff->Reset();    # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1);   # Move to the first hunk
$diff->Reset(-1);  # Move to the last hunk

C<Reset> returns the object, so, for example, you could use
C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

==item C<Copy>

$copy = $diff->Copy( $newPos, $newBase );

C<Copy> returns a copy of the object. The copy and the original object
share most of their data, so making copies takes very little memory.
The copy maintains its own position (separate from the original), which
is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original
object's position. But C<Copy> takes an optional first argument to set the
new position, so the following three snippets are equivalent:

$copy = $diff->Copy($pos);

$copy = $diff->Copy();
$copy->Reset($pos);

$copy = $diff->Copy()->Reset($pos);

C<Copy> takes an optional second argument to set the base for
the copy. If you wish to change the base of the copy but leave
the position the same as in the original, here are two
equivalent ways:

$copy = $diff->Copy();
$copy->Base( 0 );

$copy = $diff->Copy(undef,0);

Here are two equivalent way to get a "reset" copy:

$copy = $diff->Copy(0);

$copy = $diff->Copy()->Reset();

=item C<Diff>

<bits = $obj->Diff();
C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the following 4 values:

=over 4

=item 3

C<3==(1|2)>. This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=item 2

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=item 1

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=item 0

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar context, it returns the size of the list.

=item C<Items>

$count = $diff->Items(2);
@items = $diff->Items($seqNum);

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then
C<< $diff->Items(1) >> will return an empty list (0 in a scalar context).
If the current hunk contains only deletions, then C<< $diff->Items(2) >>
will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both C<< $diff->Items(1) >> and
C<< $diff->Items(2) >> will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following
will return the same lists:

@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();

=item C<Range>

$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );

C<Range> is like C<Items> except that it returns a list of I<indices> to
the items rather than the items themselves. By default, the index of
the first item (in each sequence) is 0 but this can be changed by
calling the C<Base> method. So, by default, the following two snippets
return the same lists:

@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];

You can also specify the base to use as the second argument. So the
following two snippets I<always> return the same lists:

@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];

=item C<Base>

$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);

C<Base> sets and/or returns the current base (usually 0 or 1) that is
used when you request range information. The base defaults to 0 so
that range information is returned as array indices. You can set the
base to 1 if you want to report traditional line numbers instead.

=item C<Min>

$min1 = $diff->Min(1);
$\text{min} = \text{diff}\rightarrow \text{Min}( \text{seqNum}, \text{base} );

\text{C<Min>} \text{ returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.}

=\text{item C<Max>}

\text{C<Max>} \text{ returns the last value that C<Range> would return or C<undef>}. 

=\text{item C<Get>}

( \text{Sn, Sx, Sr} ) = \text{diff}\rightarrow \text{Get}(\text{qw( min1 max1 range1 )});
\text{@values} = \text{diff}\rightarrow \text{Get}(\text{qw( 0min2 1max2 range2 same base )});

\text{C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:}

\text{/(^-?d+)?(min|max)\[12]\$/i}
\text{/(^range\[12]\|same|diff|base$/i}

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

$\text{diff}\rightarrow \text{Get('min1')} == \text{diff}\rightarrow \text{Min}(1)
$\text{diff}\rightarrow \text{Get('0min2')} == \text{diff}\rightarrow \text{Min}(2,0)

Using \text{C<Get>} in a scalar context when you've passed in more than one name is a fatal error (\text{C<die>} is called).

=back

=head2 \text{C<prepare>}

Given a reference to a list of items, \text{C<prepare>} returns a reference to a hash which can be used when comparing this sequence to other sequences with \text{C<LCS>} or \text{C<LCS_length>}.

$\text{prep} = \text{prepare( \text{@seq1 } );}
\text{for Si ( 0 .. 10_000 )}
\{ 
    \text{@lcs = LCS( $prep, $seq[Si] );}
    \text{# do something useful with @lcs}
\}

\text{C<prepare>} may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

$prep = prepare( \@seq1, \&keyGen );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $seq[$i], $prep, \&keyGen );
    # do something useful with @lcs
}

Using C<prepare> provides a performance gain of about 50% when calling LCS many times compared with not preparing.

=head2 C<diff>

@diffs     = diff( \@seq1, \@seq2 );
$diffs_ref = diff( \@seq1, \@seq2 );

C<diff> computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of I<hunks>; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of C<diff> is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling C<diff> for the following two sequences:

a b c e h j l m n p
b c d e f j k l m r s t

would produce the following list:

(  
    [ [ '-', 0, 'a' ] ],  
    [ [ '+', 2, 'd' ] ],  
    [ [ '-', 4, 'h' ],  
        [ '+', 4, 'f' ] ],  
    [ [ '-', 8, 'n' ],  
        [ '-', 9, 'p' ] ],


There are five hunks here. The first hunk says that the C<a> at position 0 of the first sequence should be deleted (C<->). The second hunk says that the C<d> at position 2 of the second sequence should be inserted (C<+>). The third hunk says that the C<h> at position 4 of the first sequence should be removed and replaced with the C<f> from position 4 of the second sequence. And so on.

C<diff> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<sdiff>

@sdiffs = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );

C<sdiff> computes all necessary components to show two sequences and their minimized differences side by side, just like the Unix-utility I<sdiff> does:

<table>
<thead>
<tr>
<th>same</th>
<th>same</th>
<th>before</th>
<th>after</th>
</tr>
</thead>
<tbody>
<tr>
<td>old</td>
<td>&lt;</td>
<td>-</td>
<td>new</td>
</tr>
</tbody>
</table>

It returns a list of array refs, each pointing to an array of display instructions. In scalar context it returns a reference to such a list. If there are no differences, the list will have one entry per item, each indicating that the item was unchanged.

Display instructions consist of three elements: A modifier indicator (C<+>: Element added, C<->: Element removed, C<u>: Element unmodified, C<c>: Element changed) and the value of the old and new elements, to be displayed side-by-side.

An C<sdiff> of the following two sequences:

```
a b c e h j l m n p
b c d e f j k l m r s t
```

---
results in
( [ '-', 'a', '' ],
[ 'u', 'b', 'b' ],
[ 'u', 'c', 'c' ],
[ '+', '', 'd' ],
[ 'u', 'e', 'e' ],
[ 'c', 'h', 'f' ],
[ 'u', 'j', 'j' ],
[ '+', '', 'k' ],
[ 'u', 'l', 'l' ],
[ 'u', 'm', 'm' ],
[ 'c', 'n', 'r' ],
[ 'c', 'p', 's' ],
[ '+', '', 't' ],
)
C<sdiff> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.
Additional parameters, if any, will be passed to the key generation
routine.
=head2 C<compact_diff>
C<compact_diff> is much like C<sdiff> except it returns a much more
compact description consisting of just one flat list of indices. An
example helps explain the format:
my @a = qw( a b c e h j l m n p
);
my @b = qw( b c d e f j k l m r s t );
@cdiff = compact_diff( \@a, \@b );
# Returns:
# @a
@b
@a
@b
# start start values values
( 0, 0, #
=
0,
0, # a !
1,
0, # b c = b c
3,
2, #
! d
3,
3, # e = e
4,
4, # f ! h
5,
5, # j = j
6,
6, #
! k
6,
7, # l m = l m
8,
9, # n p ! r s t
10, 12, #
);

Open Source Used In Cloud Native 5G Mobile - BNG cnBNG 2022.02 3725


The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items C<$diff[0]$> through C<$diff[2]-1$> of the first sequence and contains items C<$diff[1]$> through C<$diff[3]-1$> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```
#  1st pair     2nd pair
# of indices   of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```
@hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];
```

And C<0..-1> returns the empty list.
Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since `C<@diff[2..5]>` contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```perl
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
```

# or

```perl
@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];
```

# or

```perl
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];
```

# or

```perl
@hunk2a = ( 'a' );
@hunk2b = ( );
```

That is, we would delete item 0 ('a') from @a.

Since `C<@diff[4..7]>` contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```perl
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
```

# or

```perl
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3a = @b[ 0 .. 2-1 ];
```

# or

```perl
@hunk3a = @a[ 1 .. 2 ];
@hunk3a = @b[ 0 .. 1 ];
```

# or

```perl
@hunk3a = qw( b c );
@hunk3a = qw( b c );
```

Note that this third hunk contains unchanged items as our convention demands.

You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 C<traverse_sequences>

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).
Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. `traverse_sequences` will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements \( A[i] \) and \( B[j] \) which are equal and which are part of the LCS, there will be some moment during the execution of `traverse_sequences` when arrow A is pointing to \( A[i] \) and arrow B is pointing to \( B[j] \). When this happens, `traverse_sequences` will call the `MATCH` callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. `traverse_sequences` will advance that arrow and will call the `DISCARD_A` or the `DISCARD_B` callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then `traverse_sequences` will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to `traverse_sequences` are the two sequences to traverse, and a hash which specifies the callback functions, like this:

```perl
traverse_sequences(
    \@seq1, \@seq2,
    {   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
    }
);
```

Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.

Callbacks for A_FINISHED and B_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, `traverse_sequences` will call the `A_FINISHED` callback when it advances arrow B, if there is such a function; if not it will call `DISCARD_B` instead. Similarly if arrow B finishes first. `traverse_sequences` returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure. At present there is no way to fail.
C<traverse_sequences> may be passed an optional fourth parameter; this
is a CODE reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don’t
need a custom key generation function, you can get the default by
passing undef:

    traverse_sequences(       
    \@seq1, \@seq2,       
    \{   MATCH => $callback_1,       
         DISCARD_A => $callback_2,       
         DISCARD_B => $callback_3,       
    },       
    undef,   # default key-gen       
    $myArgument1,       
    $myArgument2,       
    $myArgument3,       
    );

C<traverse_sequences> does not have a useful return value; you are
expected to plug in the appropriate behavior with the callback
functions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It
uses a different algorithm to iterate through the entries in the
computed LCS. Instead of sticking to one side and showing element changes
as insertions and deletions only, it will jump back and forth between
the two sequences and report I<changes> occurring as deletions on one
side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C<MATCH> callbacks
supported by C<traverse_sequences>, C<traverse_balanced> supports
a C<CHANGE> callback indicating that one element got C<replaced> by another:

    traverse_balanced(       
    \@seq1, \@seq2,       
    \{   MATCH => $callback_1,       
         DISCARD_A => $callback_2,       
         DISCARD_B => $callback_3,       
         CHANGE => $callback_4,       
    }       
    );
If no `<CHANGE>` callback is specified, `<traverse_balanced>` will map `<CHANGE>` events to `<DISCARD_A>` and `<DISCARD_B>` actions, therefore resulting in a similar behaviour as `<traverse_sequences>` with different order of events.

`<traverse_balanced>` might be a bit slower than `<traverse_sequences>`, noticeable only while processing huge amounts of data.

The `<sdiff>` function of this module is implemented as call to `<traverse_balanced>`.

`<traverse_balanced>` does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator "".

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```perl
package Person;

sub new
{
    my $package = shift;
    return bless { name => '', ssn => '', @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}
```

Open Source Used In Cloud Native 5G Mobile - BNG cnBNG 2022.02 3730
sub hash
{
  return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2 );

$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

    my $array1 = [ $person1, $person2, $person4 ];
    my $array2 = [ $person1, $person3, $person4->clone(), $person5 ];
    Algorithm::Diff::diff( $array1, $array2, \&Person::hash );

This would use the 'ssn' field in each Person as a comparison key, and so would consider $person4 and $person4->clone() as equal.

You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR
This version released by Tye McQueen (http://perlmonks.org/?node=tye).

=head1 LICENSE

Parts Copyright (c) 2000-2004 Ned Konz. All rights reserved.
Parts by Tye McQueen.

This program is free software; you can redistribute it and/or modify it
under the same terms as Perl.

=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing
list for announcements related to diff and Algorithm::Diff, send an
empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

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This version borrows some documentation and routine names from
Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko
<mario@wolczko.com>, which is available at
ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st

C<diff> and C<traverse_balanced> were written by Mike Schilli
<m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few
minor improvements to improve the speed.

Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-
  1.1903/lib/Algorithm/Diff.pm
No license file was found, but licenses were detected in source scan.
#!/usr/bin/perl
#
#
# `Diff` program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {
    foreach $line (@$chunk) {
        my ($sign, $lineno, $text) = @$line;
        printf "%4d$sign %s
", $lineno+1, $text;
    }
    print "--------
";
}
exit 1;
sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

Found in path(s):
* /opt/cola/permits/1136205540_1613708310.0/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl

1.295 go-diameter v4.0.0

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#
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#

---
# The email address is not required for organizations.
#
# Please keep the list sorted.
#
# Use the following command to generate the list
#
#git shortlog -se | awk '{print $2 " " $3 " " $4}'
#
# and do appropriate cleanups.

DanB <danb@cgrates.org>
David Wilkie <dwilkie@gmail.com>
Seyi Ogunyemi <micrypt@users.noreply.github.com>
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1.297 ubuntu-keyring 2018.09.18.1~18.04.0

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1.300 opentracing-contrib-go-observer 0.0.0-20170622124052-a52f23424492

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# same person when interacting with Gerrit.

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1.303 kerberos 1.16 2ubuntu0.1

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cmd/krb5/iprop/iprop.x
cmd/krb5/iprop/iprop_hdr.h
```
```
cmd/krb5/kadmin/server/ipropd_svc.c
cmd/krb5/kproplib/kproplib.c
```
```
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
```
```
lib/krb5/kdb/kdb_hdr.h
```
```
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
```
```
lib/gss/g_accept_sec_context.c
lib/gss/g_acquire_cred.c
```
```
lib/gss/g_canon_name.c
```
```
lib/gss/g_compare_name.c
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lib/gss/g_context_time.c
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```
lib/gss/g_delete_sec_context.c
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lib/gss/g_dsp_name.c
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lib/gss/g_dsp_status.c
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```
lib/gss/g_dup_name.c
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lib/gss/g_exp_sec_context.c
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lib/gss/g_export_name.c
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lib/gss/g_glue.c
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lib/gss/g_imp_name.c
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lib/gss/g_imp_sec_context.c
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lib/gss/g_init_sec_context.c
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lib/gss/g_initialize.c
```
```
lib/gss/g_inquire_context.c
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lib/gss/g_inquire_cred.c
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lib/gss/g_inquire_names.c
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lib/gss/g_process_context.c
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```
lib/gss/g_rel_buffer.c
```
```
lib/gss/g_rel_cred.c
```
```
lib/gss/g_rel_name.c
```
```
lib/gss/g_rel_oid_set.c
```
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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   lib/gssapi/mechglue/g_acquire_cred.c
   lib/gssapi/mechglue/g_canon_name.c
   lib/gssapi/mechglue/g_compare_name.c
   lib/gssapi/mechglue/g_context_time.c
   lib/gssapi/mechglue/g_delete_sec_context.c
   lib/gssapi/mechglue/g_dsp_name.c
   lib/gssapi/mechglue/g_dsp_status.c
   lib/gssapi/mechglue/g_dup_name.c
   lib/gssapi/mechglue/g_exp_sec_context.c
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.. parsed-literal::

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   kadmin/server/ipropd_svc.c
   lib/kdb/iprop.x
   lib/kdb/kdb_convert.c
   lib/kdb/kdb_log.c
   lib/kdb/kdb_log.h
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```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
```
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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import sys
import re

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

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

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1
    # Check filename comment if present.
    m = re.match(r'/\* ([^ \*]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1
    # Scan for license statements.
    in_comment = False
    code_seen = False
    nonlicense_seen = False
    for line in lines[ln:]:
        # Strip out whitespace and comments contained within a line.
        if not in_comment:
            line = re.sub(r'\s*.*?\*/', '', line)
            line = line.strip()
        if not in_comment and '/\*\* in line:
            (line, sep, comment_part) = line.partition('/\*')
            comment = [comment_part.strip()]
            comment_starts_at = ln
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1.304 go-errors-errors 1.0.2

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.
Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

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

--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
     close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != \0)
+    {
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                           "Unable to change UID to %d temporarily\n",
+                           pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                goto finished;
+            if (stat(flag, &s) != 0)
+            {
+                display_file(pamh, "/etc/legal");
+                mkdir(dir, 0700);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                goto finished;
+            if (stat(flag, &s) != 0)
+            {
+                display_file(pamh, "/etc/legal");
+                mkdir(dir, 0700);
+            }
            display_file(pamh, "/etc/legal");
            /* This is the easy, non-privileged version */
+            /* We drop all privileges below */
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                /* Print the disclaimer if it exists */
+                /* Set the flag as a way to exit out of this function */
+                /* Set the flag as a way to exit out of this function */
+                display_file(pamh, "/etc/legal");
+                mkdir(dir, 0700);
+            }
+            /* Print the disclaimer if it exists */
+            /* Set the flag as a way to exit out of this function */
+            /* Set the flag as a way to exit out of this function */
+            /* Set the flag as a way to exit out of this function */
+        }
+    }
+    /* Print the disclaimer if it exists */
+    /* Set the flag as a way to exit out of this function */
+    /* Set the flag as a way to exit out of this function */
+    /* Set the flag as a way to exit out of this function */
+    if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+        goto finished;
+    if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+        goto finished;
+    if (stat(flag, &s) != 0)
+    {
+        display_file(pamh, "/etc/legal");
+        mkdir(dir, 0700);
+    }
+ f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+         S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+ if (f>=0) close(f);
+ }
+
+ finished:
+ if (pam_modutil_regain_priv(pamh, &privs)) {
+ pam_syslog(pamh, LOG_ERR,
+           "Unable to change UID back to %d\n", privs.old_uid);
+     retval = PAM_SESSION_ERR;
+ }
+
+ _pam_drop(flag);
+ _pam_drop(dir);
+ }
+
+ return retval;
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
int argc, const char **argv)
@@ -116,6 +171,9 @@
/* Display the updated motd */
    display_file(pamh, motd_path);
+
+ /* Display the legal disclaimer only if necessary */
+     retval = display_legal(pamh);
+ 
+     return retval;
+
This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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1.307 mongo-go-driver 0.2.0

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BSON library for Go

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1.308 zlib 1.2.11.dfsg-0ubuntu2.1

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This is the pre-packaged Debian Linux version of the zlib compression library. It was packaged by Michael Alan Dorman <mdorman@debian.org> from sources originally retrieved from ftp.uu.net in the directory /pub/archiving/zip/zlib as the file zlib-1.0.4.tar.gz.

There is a homepage at http://www.gzip.org/zlib/

Acknowledgments:
The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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```
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```

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1.324 util-linux 2.31.1 0.4ubuntu3.3

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