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1.1 acl 2.2.52 :r0

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Version 2.1, February 1999

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer's own use and reverse
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directing the user to the copy of this License. Also, you must do one
of these things:

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

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

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
Subsection 6a, above, for a charge no more than the cost of
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For an executable, the required form of the "work that uses the
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1.16 bridge-utils 1.5 :r3.3
1.16.1 Available under license :

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1.17 bsdutils 1:2.17.2-0ubuntu1
1.17.1 Available under license:

size: 8388608, sector size: 512, PT: dos, offset: 446
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
size: 4456448, sector size: 512, PT: bsd, offset: 512
---
#1: 7936 4864 0x7
#2: 12544 3584 0x7

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1.20 bzip2 1.0.6 :r5
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1.23 chkconfig 11.0-79.1-2

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1.25 console-terminus 4.30-2

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1.26 coreutils 8.5-1ubuntu3

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1.29 cron 3.0pl1-114ubuntu1

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1.37 debianutils 3.2.3

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### 1.45 dtc 1.4.1+git0+302fca9f4c :r0

#### 1.45.1 Available under license:

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David Gibson <david@gibson.dropbear.id.au>
(principal original author of dtc and libfdt)
2 November 2007

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 * *
 * This quote is just too good to not pass on: *
 * */
* "BTW, I would have rejected the name Story Server because its
* initials are SS, the name of the secret police in Nazi
* Germany, probably the most despised pair of letters in western
* culture." --- http://scriptingnewsarchive.userland.com/1999/12/13

* Let no one say political correctness isn't dead....
*/

#ifndef _ss_h
#define _ss_h __FILE__

#include <ss/ss_err.h>

#define __SS_CONST const
#define __SS_PROTO (int, const char * const *, int, void *)

#ifndef __GNUC__
#define __SS_ATTR(x) __attribute__(x)
#else
#define __SS_ATTR(x)
#endif

typedef __SS_CONST struct _ss_request_entry {
    __SS_CONST char * __SS_CONST *command_names; /* whatever */
    void (* __SS_CONST function) __SS_PROTO; /* foo */
    __SS_CONST char * __SS_CONST info_string; /* NULL */
    int flags; /* 0 */
} ss_request_entry;

typedef __SS_CONST struct _ss_request_table {
    int version;
    ss_request_entry *requests;
} ss_request_table;

#define SS_RQT_TBL_V2 2

typedef struct _ss_rp_options { /* DEFAULT VALUES */
    int version; /* SS_RP_V1 */
    void (*unknown) __SS_PROTO; /* call for unknown command */
    int allow_suspend;
    int catch_int;
} ss_rp_options;

#define SS_RP_V1 1

#define SS_OPT_DONT_LIST 0x0001
#define SS_OPT_DONT_SUMMARIZE 0x0002
void ss_help __SS_PROTO;
#if 0
char *ss_current_request();/* This is actually a macro */
#endif

char *ss_name(int sci_idx);
void ss_error (int, long, char const *, ...)
__SS_ATTR((format(printf, 3, 4)));
void ss_perror (int, long, char const *);

int ss_create_invocation(const char *, const char *, void *,
ss_request_table *, int *);
void ss_delete_invocation(int);
int ss_listen(int);
int ss_execute_line(int, char *);
void ss_add_request_table(int, ss_request_table *, int, int *);
void ss_delete_request_table(int, ss_request_table *, int *);
void ss_abort_subsystem(int sci_idx, int code);
void ss_quit(int argc, const char * const *argv, int sci_idx, void *infop);
void ss_self_identify(int argc, const char * const *argv, int sci_idx, void *infop);
void ss_subsystem_name(int argc, const char * const *argv,
int sci_idx, void *infop);
void ss_subsystem_version(int argc, const char * const *argv,
int sci_idx, void *infop);
void ss_unimplemented(int argc, const char * const *argv,
int sci_idx, void *infop);
void ss_set_prompt(int sci_idx, char *new_prompt);
char *ss_get_prompt(int sci_idx);
void ss_get_readline(int sci_idx);
char *ss_safe_getenv(const char *arg);

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

- trivial database library - private includes
-
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#
# 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) $(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)

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Gadi Oxman, August 1995

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o
23-June-2007

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1.48 eee-acpi-scripts 1.1.12+git0+9d4ced6ca2
:r0

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@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:

1.54 gcc-4.5-base 4.5.1-7ubuntu2

1.54.1 Available under license :

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

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

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

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

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that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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

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

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

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

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

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

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

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

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

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

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

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

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The modified work must itself be a software library.

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

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

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

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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In addition, mere aggregation of another work not based on the Library
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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

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

- 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.)

- 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.

- 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.

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

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```

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1.57 glib-2.0 2.44.1 :r0.1

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/*************************************************/
/* Perl-Compatible Regular Expressions */
***********************************************************/

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

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

#ifndef _PCRE_H
#define _PCRE_H

#ifndef _PCRE_H
#define _PCRE_H

# ifndef _PCRE_H
#define _PCRE_H

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/* The current PCRE version information. */

#define PCRE_MAJOR 8
#define PCRE_MINOR 31
#define PCRE_PRERELEASE
#define PCRE_DATE 2012-07-06

/* When an application links to a PCRE DLL in Windows, the symbols that are
imported have to be identified as such. When building PCRE, the appropriate
export setting is defined in pcre_internal.h, which includes this file. So we
don't change existing definitions of PCRE_EXP_DECL and PCRECCEXPDECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
  #if defined(PCRE_EXP_DECL)
    # define PCRE_EXP_DECL extern __declspec(dllimport)
  # endif
  # if defined(__cplusplus)
    #ifndef PCRECPP_EXP_DECL
      #define PCRECPP_EXP_DECL extern __declspec(dllimport)
    #endif
    #ifndef PCRECPP_EXP_DEFN
      #define PCRECPP_EXP_DEFN __declspec(dllimport)
    #endif
  # endif
#endif

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

#if defined(PCRE_EXP_DECL)
  # if defined(__cplusplus)
    #define PCRE_EXP_DECL extern "C"
  # else
    # define PCRE_EXP_DECL extern
  # endif
#endif

#ifndef PCRE_EXP_DECL
  # if defined(__cplusplus)
    # define PCRE_EXP_DECL extern
  # endif
#endif

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

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

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

#define PCRE_CASELESS 0x00000001 /* Compile */
#define PCRE_MULTILINE 0x00000002 /* Compile */
#define PCRE_DOTALL 0x00000004 /* Compile */
#define PCRE_EXTENDED 0x00000008 /* Compile */
#define PCRE_ANCHORED 0x00000010 /* Compile, exec, DFA exec */
#define PCRE_DOLLAR_ENDONLY 0x00000020 /* Compile, used in exec, DFA exec */
#define PCRE_EXTRA 0x00000040 /* Compile */
#define PCRE_NOTBOL 0x00000080 /* Exec, DFA exec */
#define PCRE_NOTEOL 0x00000100 /* Exec, DFA exec */
#define PCRE_UNGREEDY 0x00000200 /* Compile */
#define PCRE_NOTEMPTY 0x00000400 /* Exec, DFA exec */
/* The next two are also used in exec and DFA exec */
#define PCRE_UTF8 0x00000800 /* Compile (same as PCRE_UTF16) */
#define PCRE_UTF16 0x00000800 /* Compile (same as PCRE_UTF8) */
#define PCRE_NO_AUTO_CAPTURE 0x00001000 /* Compile */
/* The next two are also used in exec and DFA exec */
#define PCRE_NO_UTF8_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF16_CHECK) */
#define PCRE_NO_UTF16_CHECK 0x00002000 /* Compile (same as PCRE_NO_UTF8_CHECK) */
#define PCRE_AUTO_CALLOUT 0x00004000 /* Compile */
#define PCRE_PARTIAL_SOFT 0x00008000 /* Exec, DFA exec */
#define PCRE_PARTIAL 0x00008000 /* Backwards compatible synonym */
#define PCRE_DFA_SHORTEST 0x00010000 /* DFA exec */
#define PCRE_DFA_RESTART 0x00020000 /* DFA exec */
#define PCRE_FIRSTLINE 0x00040000 /* Compile, used in exec, DFA exec */
#define PCRE_DUPNAMES 0x00080000 /* Compile */
#define PCRE_NEWLINE_CR 0x00100000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_LF 0x00200000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_CRLF 0x00300000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANY 0x00400000 /* Compile, exec, DFA exec */
#define PCRE_NEWLINE_ANYCRLF 0x00500000 /* Compile, exec, DFA exec */
#define PCRE_BSR_ANYCRLF 0x00800000 /* Compile, exec, DFA exec */
#define PCRE_BSR_UNICODE 0x01000000 /* Compile, exec, DFA exec */
#define PCRE_JAVASCRIPT_COMPAT 0x02000000 /* Compile, used in exec */
#define PCRE_NO_START_OPTIMIZE 0x04000000 /* Compile, exec, DFA exec */
#define PCRE_NO_START_OPTIMISE 0x04000000 /* Synonym */
#define PCRE_PARTIAL_HARD 0x08000000 /* Exec, DFA exec */
#define PCRE_NOTEMPTY_ATSTART 0x10000000 /* Exec, DFA exec */
#define PCRE_UCP 0x20000000 /* Compile, used in exec, DFA exec */

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

#define PCRE_ERROR_NOMATCH (-1)
#define PCRE_ERROR_NULL (-2)
#define PCRE_ERROR_BADOPTION (-3)
#define PCRE_ERROR_BADMAGIC (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY (-6)
#define PCRE_ERROR_NOSUBSTRING (-7)
#define PCRE_ERROR_MATCHLIMIT (-8)
#define PCRE_ERROR_CALLOUT (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL (-12)
#define PCRE_ERROR_BADPARTIAL (-13)
#define PCRE_ERROR_INTERNAL (-14)
#define PCRE_ERROR_BADCOUNT (-15)
#define PCRE_ERROR_DFA_UITEM (-16)
#define PCRE_ERROR_DFA_UCOND (-17)
#define PCRE_ERROR_DFA_UMLIMIT (-18)
#define PCRE_ERROR_DFA_WSSIZE (-19)
#define PCRE_ERROR_DFA_RECOURSE (-20)
#define PCRE_ERROR_DFA_RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE (-23)
#define PCRE_ERROR_BADOFFSET (-24)
#define PCRE_ERROR_SHORTUTF8 (-25)
#define PCRE_ERROR_SHORTUTF16 (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELIMIT (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)

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

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

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

/* Request types for pcre_fullinfo() */

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

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

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

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

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

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

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

/* Types */

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

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

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

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

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

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

/* The structure for passing additional data to pcre_exec(). This is defined in
such as way as to be extensible. Always add new fields at the end, in order to
remain compatible. */
yntdef struct pcre_extra {
    unsigned long int flags;  /* Bits for which fields are set */
    void *study_data;         /* Opaque data from pcre_study() */
    unsigned long int match_limit; /* Maximum number of calls to match() */
    void *callout_data;       /* Data passed back in callouts */
    const unsigned char *tables;  /* Pointer to character tables */
    unsigned long int match_limit_recursion; /* Max recursive calls to match() */
    unsigned char **mark;     /* For passing back a mark pointer */
    void *executable_jit;     /* Contains a pointer to a compiled jit code */
} pcre_extra;

/* Same structure as above, but with 16 bit char pointers. */
yntdef struct pcre16_extra {
    unsigned long int flags;  /* Bits for which fields are set */
    void *study_data;         /* Opaque data from pcre_study() */
    unsigned long int match_limit; /* Maximum number of calls to match() */
    void *callout_data;       /* Data passed back in callouts */
} pcre16_extra;
const unsigned char *tables;    /* Pointer to character tables */
unsigned long int match_limit_recursion; /* Max recursive calls to match() */
PCRE_UCHAR16 **mark;       /* For passing back a mark pointer */
void *executable_jit;        /* Contains a pointer to a compiled jit code */
}
}
pcre16_extra;

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

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

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

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

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/* ------------------- Added for Version 2 -------------------------- */
const PCRE_UCHAR16 *mark;    /* Pointer to current mark or NULL    */
/* ------------------------------------------------------------------ */
} pcre16_callout_block;

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

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

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

/* User defined callback which provides a stack just before the match starts. */
typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **, int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **, int *, const unsigned char *);
PCRE_EXP_DECL int pcre_config(int, void *);
PCRE_EXP_DECL int pcre16_config(int, void *);
PCRE_EXP_DECL int pcre_copy_named_substring(const pcre *, const char *, int *, int, const char *, char *, int);
PCRE_EXP_DECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16, int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_copy_substring(const char *, int *, int, int, char *, int);
PCRE_EXP_DECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_dfa_exec(const pcre *, const pcre_extra *, const char *, int, int, int, int *, int, int *, int);
PCRE_EXP_DECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *, PCRE_SPTR16, int, int, int, int *, int, int *, int);
PCRE_EXP_DECL int pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR, int, int, int, int *, int);
PCRE_EXP_DECL int pcre16_exec(const pcre16 *, const pcre16_extra *, PCRE_SPTR16, int, int, int, int *, int, int *, int);
PCRE_EXP_DECL void pcre_free_substring(const char *);
PCRE_EXP_DECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_fullinfo(const pcre *, const pcre_extra *, int, void *);
PCRE_EXP_DECL int pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int, void *);
PCRE_EXP_DECL int pcre_get_named_substring(const pcre *, const char *, int *, int, const char *, const char **);
PCRE_EXP_DECL int pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16, int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXP_DECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXP_DECL int pcre_get_stringtable_entries(const pcre *, const char *, char **, char **);
PCRE_EXP_DECL int pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16, PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXP_DECL int pcre_get_substring(const char *, int *, int, int, const char **);
PCRE_EXP_DECL int pcre16_get_substring(PCRE_SPTR16, int *, int, PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre_get_substring_list(const char *, int *, int, const char **);
PCRE_EXP_DECL int pcre16_get_substring_list(PCRE_SPTR16, int *, int, PCRE_SPTR16 **);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int  pcre_refcount(pcre *, int);
PCRE_EXP_DECL int  pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

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

/* JIT compiler related functions. */
PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
            pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
            pcre16_jit_callback, void *);

#endif /* End of pcre.h */
PCRE LICENCE

Please see the file LICENCE in the PCRE distribution for licensing details.

End
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1.59 gnutls 3.3.17.1 :r0

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1.70 initscripts 2.87dsf-4ubuntu18

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This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org>
integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software
92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
92K sysvinit-2.86.tar.gz

The sysvinit package in Debian is maintained as an alioth project. The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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1.76 klibc-utils 1.5.20-1

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

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

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1.81 libblkid1 2.17.2-0ubuntu1
1.81.1 Available under license :
size: 8388608, sector size: 512, PT: dos, offset: 446
---
#1:     32   7648   0x83
#2:    7680    8704   0xa5
Open Source Used In IoT 15.9(3)M

---
#1: 7936  4864  0x7
#2: 12544  3584  0x7

size: 4456448, sector size: 512, PT: bsd, offset: 512

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```
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```

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

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This is the Debian GNU/Linux prepackaged version of util-linux.

This package was put together by Guy Maor <maor@debian.org> and later
maintained by Sean 'Shaleh' Perry <shaleh@debian.org>, and Adrian Bunk
<bunk@stusta.de>.

The current maintainer is LaMont Jones <lamont@debian.org>.
See also: git://git.debian.org/~lamont/util-linux.git

It was downloaded from:

Upstream maintainers include:
Maintainer: Karel Zak <kzak@redhat.com>
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This code is derived from section 17.1 of Applied Cryptography,
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Here the stream cipher has been modified always to include the time
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This code implements the MD5 message-digest algorithm.
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Equivalent code is available from RSA Data Security, Inc.
This code has been tested against that, and is equivalent,
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To compute the message digest of a chunk of bytes, declare an
MD5Context structure, pass it to MD5Init, call MD5Update as
needed on buffers full of bytes, and then call MD5Final, which
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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used for encryption, but will generate good random numbers.

RC4 is a registered trademark of RSA Laboratories.

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This code implements the MD5 message-digest algorithm. The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed. This code is in the public domain; do with it what you wish.

Equivalent code is available from RSA Data Security, Inc. This code has been tested against that, and is equivalent, except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as
needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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1.84 libbz2-1.0 1.0.5-4ubuntu1
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

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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.)

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

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

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

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1.89 libcap2 1:2.19-2

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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[This is the first released version of the library GPL. It is
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1184
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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

#
# 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)
(cdd pic; ld -Bshareable -o $(BSD_LIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cdd ..; $(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) \

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$(DESTDIR)$(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)

Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
*/
/*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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<one line to give the program’s name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
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This is Debian GNU's prepackaged version of the FSF's GNU DBM library.

This package was put together by James Troup <james@nocrew.org> from the GNU sources:

It was previously maintained by Ray Dassen <jdassen@wi.LeidenUniv.nl>, Mark W. Eichin <eichin@kitten.gen.ma.us> and Christoph Lameter <clameter@debian.org>.

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

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

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

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"Source code" for a work means the preferred form of the work for
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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.

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

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

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a) Accompany the work with the complete corresponding
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
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to use the modified definitions.)

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

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

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

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

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

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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_dap_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
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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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
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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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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in src/lib/gssapi, including the following files:

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
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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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
@end smallexample
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the following new or changed files:

```
@smallexample
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
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1.105 libkeyutils1 1.4-1
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
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1.106 libklibc 1.5.20-1

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

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

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lib/gssapi/mechglue/g_rel_creds.c
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lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_creds.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
and the initial implementation of incremental propagation, including
the following new or changed files:

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

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in src/lib/gssapi, including the following files:

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
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
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@code{src/lib/gssapi}, including the following files:

@smallexample
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
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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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Maintainer: Lasse Collin <lasse.collin@tukaani.org>
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Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
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1.116 libpam 1.2.1 :r5.3.1

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1.117 libpam-modules 1.1.1-4ubuntu1

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1.119 libpam0g 1.1.1-4ubuntu1

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1.121 libpci3 1:3.1.7-4ubuntu2
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1.122 libpciaccess 0.13.4 :r0

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1.123 libpcre 8.38 :r09.1

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June 26, 2010

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

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

Otherwise, if the work is a derivative of the Library, you may
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Motorolla 68020 20mhz, NetBSD

SSLeay 0.9.0t 29-May-1998
built on Fri Jun  5 12:42:23 EST 1998
options:bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)
C flags:gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN
The 'numbers' are in 1000s of bytes per second processed.

<table>
<thead>
<tr>
<th>type</th>
<th>8 bytes</th>
<th>64 bytes</th>
<th>256 bytes</th>
<th>1024 bytes</th>
<th>8192 bytes</th>
</tr>
</thead>
<tbody>
<tr>
<td>md2</td>
<td>2176.00</td>
<td>5994.67</td>
<td>8079.73</td>
<td>8845.18</td>
<td>9077.01</td>
</tr>
<tr>
<td>mdc2</td>
<td>5730.67</td>
<td>6122.67</td>
<td>6167.66</td>
<td>6176.51</td>
<td>6174.87</td>
</tr>
<tr>
<td>md5</td>
<td>29.10k</td>
<td>127.31k</td>
<td>209.66k</td>
<td>250.50k</td>
<td>263.99k</td>
</tr>
<tr>
<td>hmac(md5)</td>
<td>12.33k</td>
<td>73.02k</td>
<td>160.17k</td>
<td>228.04k</td>
<td>261.15k</td>
</tr>
<tr>
<td>sha1</td>
<td>11.27k</td>
<td>49.37k</td>
<td>84.31k</td>
<td>102.40k</td>
<td>109.23k</td>
</tr>
<tr>
<td>rmd160</td>
<td>11.69k</td>
<td>48.62k</td>
<td>78.76k</td>
<td>93.15k</td>
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<tr>
<td>rc4</td>
<td>117.96k</td>
<td>148.94k</td>
<td>152.57k</td>
<td>153.09k</td>
<td>152.92k</td>
</tr>
<tr>
<td>des cbc</td>
<td>27.13k</td>
<td>30.06k</td>
<td>30.38k</td>
<td>30.38k</td>
<td>30.53k</td>
</tr>
<tr>
<td>des ede3</td>
<td>10.51k</td>
<td>10.94k</td>
<td>11.01k</td>
<td>11.01k</td>
<td>11.01k</td>
</tr>
<tr>
<td>idea cbc</td>
<td>26.74k</td>
<td>29.23k</td>
<td>29.45k</td>
<td>29.60k</td>
<td>29.74k</td>
</tr>
<tr>
<td>rc2 cbc</td>
<td>34.27k</td>
<td>39.39k</td>
<td>40.03k</td>
<td>40.07k</td>
<td>40.16k</td>
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<tr>
<td>rc5-32/12 cbc</td>
<td>64.31k</td>
<td>83.18k</td>
<td>85.70k</td>
<td>86.70k</td>
<td>87.09k</td>
</tr>
<tr>
<td>blowfish cbc</td>
<td>48.86k</td>
<td>59.18k</td>
<td>60.07k</td>
<td>60.42k</td>
<td>60.78k</td>
</tr>
<tr>
<td>cast cbc</td>
<td>42.67k</td>
<td>50.01k</td>
<td>50.86k</td>
<td>51.20k</td>
<td>51.37k</td>
</tr>
<tr>
<td>sign</td>
<td>512 bits</td>
<td>0.7738s</td>
<td>0.0774s</td>
<td>1.3</td>
<td>12.9</td>
</tr>
<tr>
<td>rsa 1024 bits</td>
<td>4.3967s</td>
<td>0.2615s</td>
<td>0.2</td>
<td>3.8</td>
<td></td>
</tr>
<tr>
<td>rsa 2048 bits</td>
<td>29.5200s</td>
<td>0.9664s</td>
<td>0.0</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>dsa 512 bits</td>
<td>0.7862s</td>
<td>0.9709s</td>
<td>1.3</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>dsa 1024 bits</td>
<td>2.5375s</td>
<td>3.1625s</td>
<td>0.4</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>dsa 2048 bits</td>
<td>9.2150s</td>
<td>11.8200s</td>
<td>0.1</td>
<td>0.1</td>
<td></td>
</tr>
</tbody>
</table>

Pentium Pro 200mhz
FreeBSD 2.1.5
gcc 2.7.2.2

SSLey 0.7.0 30-Jan-1997
built on Tue Apr 22 12:14:36 EST 1997
options:bn(64,32) md2(int) rc4(idx,int) des(ptr,risc1,16,long) idea(int) blowfish(ptr2)
C flags:gcc -DTERMIOS -D_ANSI_SOURCE -fomit-frame-pointer -O3 -m486 -Wall

The 'numbers' are in 1000s of bytes per second processed.

<table>
<thead>
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<th>256 bytes</th>
<th>1024 bytes</th>
<th>8192 bytes</th>
</tr>
</thead>
<tbody>
<tr>
<td>md2</td>
<td>130.99k</td>
<td>367.68k</td>
<td>499.09k</td>
<td>547.04k</td>
<td>566.50k</td>
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<tr>
<td>mdc2</td>
<td>1924.98k</td>
<td>8293.50k</td>
<td>13464.41k</td>
<td>16010.39k</td>
<td>16820.68k</td>
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<tr>
<td>md5</td>
<td>1250.75k</td>
<td>5330.43k</td>
<td>8636.88k</td>
<td>10227.36k</td>
<td>10779.14k</td>
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<tr>
<td>sha1</td>
<td>1071.55k</td>
<td>4572.50k</td>
<td>7459.98k</td>
<td>8791.96k</td>
<td>9341.61k</td>
</tr>
<tr>
<td>rc4</td>
<td>10724.22k</td>
<td>14546.25k</td>
<td>15240.18k</td>
<td>15259.50k</td>
<td>15265.63k</td>
</tr>
<tr>
<td>des cbc</td>
<td>3309.11k</td>
<td>3883.01k</td>
<td>3968.25k</td>
<td>3971.86k</td>
<td>3979.14k</td>
</tr>
<tr>
<td>des ede3</td>
<td>1442.98k</td>
<td>1548.33k</td>
<td>1562.48k</td>
<td>1562.00k</td>
<td>1563.33k</td>
</tr>
<tr>
<td>idea cbc</td>
<td>2195.69k</td>
<td>2506.39k</td>
<td>2529.59k</td>
<td>2545.66k</td>
<td>2546.54k</td>
</tr>
<tr>
<td>rc2 cbc</td>
<td>806.00k</td>
<td>833.52k</td>
<td>837.58k</td>
<td>838.52k</td>
<td>836.69k</td>
</tr>
<tr>
<td>blowfish cbc</td>
<td>4687.34k</td>
<td>5949.97k</td>
<td>6182.43k</td>
<td>6248.11k</td>
<td>6226.09k</td>
</tr>
<tr>
<td>rsa 512 bits</td>
<td>0.010s</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>rsa 2048 bits</td>
<td>0.260s</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>rsa 4096 bits</td>
<td>1.690s</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
1.137 libstdc++6 4.5.1-7ubuntu2

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Version 2.1, February 1999

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That's all there is to it!

1.145 libuuid1 2.17.2-0ubuntu1

1.145.1 Available under license:

size: 8388608, sector size: 512, PT: dos, offset: 446
---
#1: 32  7648  0x83
#2: 7680  8704  0xa5
#5: 7936  4864  0x7 (freebsd)
#6: 12544  3584  0x7 (freebsd)
size: 4456448, sector size: 512, PT: bsd, offset: 512
---
#1: 7936  4864  0x7
#2: 12544  3584  0x7

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Version 2, June 1991

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be
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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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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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Firmware provided as part of an XC5000 Linux developers kit by Brian
Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org>
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agere_sta_fw.bin -- 9.48 Hermes I
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single nxt200x frontend driver.
(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
* 
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
* 
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* 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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single nxt200x frontend driver.

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

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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in libsensors and sensors.
* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
* Jean Delvare
  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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/*
 * imap_gssapi.c is partially derived from sample code in:
 * GSS-API Programming Guide
 * Part No: 816-1331-11
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Network Working Group    H. Krawczyk
Request for Comments: 2104    IBM
Category: Informational    M. Bellare
    UCSD
    R. Canetti
    IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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Appendix -- Sample Code
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Parts of nss.c are derived from the Mozilla NSS 3.9.2 source, mozilla/security/nss/cmd/smimetools/cmsutil.c. Therefore:

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No explicit copyright is asserted. Nick Holloway is the earliest author recorded in the source code. I queried him for an explicit statement regarding the license status of this work, and this is his reply:

Date: Tue, 21 Jul 1998 19:57:10 +0100
From: Nick Holloway <Nick.Holloway@alfie.demon.co.uk>
Message-Id: <199807211857.TAA19068@alfie.demon.co.uk>
To: Bdale Garbee <bdale@gag.com>
Subject: Re: makedev license?

> I maintain the makedev package for Debian GNU/Linux. I am about to move
> from the ill-fated makedev-1.6 to the makedev-2.3.1 derived from your work
> by the folks at Redhat. I don't see any evidence of a copyright assertion
> or explicit license statement in the source. Your name appears to be the
> earliest attached to the current source code. Am I correct in assuming the
> GPL? We try to be meticulous about having our base system be compliant
> with our Debian Free Software Guidelines, so I'd like an explicit statement.

It was never explicitly released as GPL, as that would have required
including the file COPYING which would have been much larger than the
actual MAKEDEV script (I was also too lazy to find out what incantations
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(see MAKEDEV.lsm from any of the releases I made).

The more recent modifications were done by Michael K. Johnson at
Redhat. I think the understanding was that he would be taking over the
maintenance of MAKEDEV (our discussion took place last September).

The only previous history was (according to an old posting to
comp.os.linux) that I started with Jim Winstead's script.

So, as far as I am concerned, it is consistent with the Debian FSG.

--
`O O' | Home: Nick.Holloway@alfie.demon.co.uk http://www.alfie.demon.co.uk/
// ^ \ | Work: Nick.Holloway@parallax.co.uk

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1.167 mawk 1.3.3-15ubuntu2

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1.170 mount 2.17.2-0ubuntu1

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size: 8388608, sector size: 512, PT: dos, offset: 446
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
size: 4456448, sector size: 512, PT: bsd, offset: 512
---
#1: 7936 4864 0x7
#2: 12544 3584 0x7

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.3 2015/01/03 20:12:01 tom Exp $

1.173 ncurses-base 5.7+20100626-0ubuntu1

1.174 ncurses-bin 5.7+20100626-0ubuntu1

1.175 net-tools 1.60-23ubuntu3

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1.176 netbase 5.3 :r0

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29. Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
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31. Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code
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1.182 openssh-client 1:5.5p1-4ubuntu4

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This package contains a Gnome based implementation of ssh-askpass written by Damien Miller.

It is split out from the main package to isolate the dependency on the Gnome and X11 libraries.

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- MD5 is now external, in the OpenSSL library
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@version 3.0 (December 2000)

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@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.183 openssh-server 1:5.5p1-4ubuntu4

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1.184 openssl 1.0.2h :r0.4

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1.187 OpenSSL 0.9.8j
1.187.1 Available under license:
   Pentium Pro 200mhz
   FreeBSD 2.1.5
   gcc 2.7.2.2

   SSLae 0.7.0 30-Jan-1997
   built on Tue Apr 22 12:14:36 EST 1997
   options:bn(64,32) md2(int) rc4(idx,int) des(ptr,risc1,16,long) idea(int) blowfish(ptr2)
C flags: gcc -DTERMIOS -D_ANSI_SOURCE -fomit-frame-pointer -O3 -m486 -Wall

<table>
<thead>
<tr>
<th>type</th>
<th>8 bytes</th>
<th>64 bytes</th>
<th>256 bytes</th>
<th>1024 bytes</th>
<th>8192 bytes</th>
</tr>
</thead>
<tbody>
<tr>
<td>md2</td>
<td>130.99k</td>
<td>367.68k</td>
<td>499.09k</td>
<td>547.04k</td>
<td>566.50k</td>
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<tr>
<td>md5</td>
<td>1924.98k</td>
<td>8293.50k</td>
<td>13464.41k</td>
<td>16010.39k</td>
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<tr>
<td>sha</td>
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<td>5330.43k</td>
<td>8636.88k</td>
<td>10227.36k</td>
<td>10779.14k</td>
</tr>
<tr>
<td>sha1</td>
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<td>4572.50k</td>
<td>7459.98k</td>
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<td>rc4</td>
<td>10724.22k</td>
<td>14546.25k</td>
<td>15240.18k</td>
<td>15259.50k</td>
<td>15265.63k</td>
</tr>
<tr>
<td>des cbc</td>
<td>3309.11k</td>
<td>3883.01k</td>
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<tr>
<td>des ede3</td>
<td>1442.98k</td>
<td>1548.33k</td>
<td>1562.48k</td>
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<td>1563.33k</td>
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<tr>
<td>idea cbc</td>
<td>2195.69k</td>
<td>2506.39k</td>
<td>2529.59k</td>
<td>2545.66k</td>
<td>2546.54k</td>
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<td>rc2 cbc</td>
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<td>837.58k</td>
<td>838.52k</td>
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<td>blowfish cbc</td>
<td>4687.34k</td>
<td>5949.97k</td>
<td>6182.43k</td>
<td>6248.11k</td>
<td>6226.09k</td>
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<td>rsa 512 bits</td>
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<tr>
<td>rsa 1024 bits</td>
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</tr>
<tr>
<td>rsa 4096 bits</td>
<td>1.690s</td>
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</tr>
</tbody>
</table>

Motorola 68020 20mhz, NetBSD

SSLeay 0.9.0t 29-May-1998
built on Fri Jun  5 12:42:23 EST 1998
options: bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)

C flags: gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN

<table>
<thead>
<tr>
<th>type</th>
<th>8 bytes</th>
<th>64 bytes</th>
<th>256 bytes</th>
<th>1024 bytes</th>
<th>8192 bytes</th>
</tr>
</thead>
<tbody>
<tr>
<td>md2</td>
<td>2176.00</td>
<td>5994.67</td>
<td>8079.73</td>
<td>8845.18</td>
<td>9077.01</td>
</tr>
<tr>
<td>md2c</td>
<td>5730.67</td>
<td>6122.67</td>
<td>6167.66</td>
<td>6176.51</td>
<td>6174.87</td>
</tr>
<tr>
<td>md5</td>
<td>29.10k</td>
<td>127.31k</td>
<td>209.66k</td>
<td>250.50k</td>
<td>263.99k</td>
</tr>
<tr>
<td>hmac(md5)</td>
<td>12.33k</td>
<td>73.02k</td>
<td>160.17k</td>
<td>228.04k</td>
<td>261.15k</td>
</tr>
<tr>
<td>sha1</td>
<td>11.27k</td>
<td>49.37k</td>
<td>84.31k</td>
<td>102.40k</td>
<td>109.23k</td>
</tr>
<tr>
<td>rmd160</td>
<td>11.69k</td>
<td>48.62k</td>
<td>78.76k</td>
<td>93.15k</td>
<td>98.41k</td>
</tr>
<tr>
<td>rc4</td>
<td>117.96k</td>
<td>148.94k</td>
<td>152.57k</td>
<td>153.09k</td>
<td>152.92k</td>
</tr>
<tr>
<td>des cbc</td>
<td>27.13k</td>
<td>30.06k</td>
<td>30.38k</td>
<td>30.53k</td>
<td>30.53k</td>
</tr>
<tr>
<td>des ede3</td>
<td>10.51k</td>
<td>10.94k</td>
<td>11.01k</td>
<td>11.01k</td>
<td>11.01k</td>
</tr>
<tr>
<td>idea cbc</td>
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<td>29.23k</td>
<td>29.45k</td>
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<td>29.74k</td>
</tr>
<tr>
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<td>39.39k</td>
<td>40.03k</td>
<td>40.07k</td>
<td>40.16k</td>
</tr>
<tr>
<td>rc5-32/12 cbc</td>
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<td>83.18k</td>
<td>85.70k</td>
<td>86.70k</td>
<td>87.09k</td>
</tr>
<tr>
<td>blowfish cbc</td>
<td>48.86k</td>
<td>59.18k</td>
<td>60.07k</td>
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</tr>
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<tr>
<td>verify</td>
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<tr>
<td>sign/s</td>
<td>0.260s</td>
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</tr>
<tr>
<td>verify/s</td>
<td>1.690s</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

dsa 512 bits | 0.7862s | 0.9709s | 1.3 | 1.0 |
| dsa 1024 bits | 2.5375s | 3.1625s | 0.4 | 0.3 |
| dsa 2048 bits | 9.2150s | 11.8200s | 0.1 | 0.1 |
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OSSP uuid - Universally Unique Identifier
Version 1.6.2 (04-Jul-2008)

ABSTRACT

OSSP uuid is a ISO-C:1999 application programming interface (API)
and corresponding command line interface (CLI) for the generation of
DCE 1.1, ISO/IEC 11578:1996 and IETF RFC-4122 compliant Universally
Unique Identifier (UUID). It supports DCE 1.1 variant UUIDs of version
1 (time and node based), version 3 (name based, MD5), version 4
(random number based) and version 5 (name based, SHA-1). Additional
API bindings are provided for the languages ISO-C++:1998, Perl:5 and
PHP:4/5. Optional backward compatibility exists for the ISO-C DCE-1.1
and Perl Data::UUID APIs.

UUIDs are 128 bit numbers which are intended to have a high likelihood
of uniqueness over space and time and are computationally difficult
to guess. They are globally unique identifiers which can be locally
generated without contacting a global registration authority. UUIDs
are intended as unique identifiers for both mass tagging objects
with an extremely short lifetime and to reliably identifying very
persistent objects across a network.
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**
** uuid_md5.c: MD5 API implementation
*/

/* own headers (part 1/2) */
#include "uuid_ac.h"

/* system headers */
#include <stdlib.h>
#include <string.h>

/* own headers (part 2/2) */
#include "uuid_md5.h"

/* This is a RFC 1321 compliant Message Digest 5 (MD5) algorithm
* implementation. It is directly derived from the RSA code published in
* RFC 1321 with just the following functionality preserving changes:
* - converted function definitions from K&R to ANSI C
* - included contents of the "global.h" and "md5.h" headers
* - moved the SX5 defines into the MD5Transform function
* - replaced MD5_memcpy() with memcpy(3) and MD5_memset() with memset(3)
* - renamed "index" variables to "idx" to avoid namespace conflicts
* - reformatted C style to conform with OSSP C style
* - added own OSSP style frontend API
*/

/*
** ===== BEGIN RFC 1321 CODE =====
*/

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*/

/* POINTER defines a generic pointer type */
typedef unsigned char *POINTER;

/* UINT4 defines a four byte word */
#if sizeof(unsigned short)  == 4
typedef unsigned short int UINT4;
#elif sizeof(unsigned int)   == 4
typedef unsigned int UINT4;
#elif sizeof(unsigned long)  == 4
typedef unsigned long int UINT4;
#elif sizeof(unsigned long long) == 4
typedef unsigned long long int UINT4;
#else
#error ERROR: unable to determine UINT4 type (four byte word)
#endif

/* MD5 context. */
typedef struct {
    UINT4 state[4];   /* state (ABCD) */
    UINT4 count[2];  /* number of bits, modulo 2^64 (lsb first) */
    unsigned char buffer[64]; /* input buffer */
} MD5_CTX;

/* prototypes for internal functions */
static void MD5Init (MD5_CTX *ctx);
static void MD5Update (MD5_CTX *ctx, unsigned char *, unsigned int);
static void MD5Final (unsigned char [], MD5_CTX *);
static void MD5Transform (UINT4 [], unsigned char []);
static void Encode (unsigned char *, UINT4 *, unsigned int);
static void Decode (UINT4 *, unsigned char *, unsigned int);
/* finalization padding */
static unsigned char PADDING[64] = {
    0x80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
    0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
};

/* F, G, H and I are basic MD5 functions. */
#define F(x, y, z) (((x) & (y)) | ((~x) & (z)))
#define G(x, y, z) (((x) & (z)) | ((y) & (~z)))
#define H(x, y, z) ((x) ^ (y) ^ (z))
#define I(x, y, z) ((y) ^ ((x) | (~z)))

/* ROTATE_LEFT rotates x left n bits. */
#define ROTATE_LEFT(x, n) (((x) << (n)) | ((x) >> (32-(n))))

/* FF, GG, HH, and II transformations for rounds 1, 2, 3, and 4. 
   Rotation is separate from addition to prevent recomputation. */
#define FF(a, b, c, d, x, s, ac) { 
    (a) += F ((b), (c), (d)) + (x) + (UINT4)(ac); 
    (a) = ROTATE_LEFT ((a), (s)); 
    (a) += (b); 
 }
#define GG(a, b, c, d, x, s, ac) { 
    (a) += G ((b), (c), (d)) + (x) + (UINT4)(ac); 
    (a) = ROTATE_LEFT ((a), (s)); 
    (a) += (b); 
 }
#define HH(a, b, c, d, x, s, ac) { 
    (a) += H ((b), (c), (d)) + (x) + (UINT4)(ac); 
    (a) = ROTATE_LEFT ((a), (s)); 
    (a) += (b); 
 }
#define II(a, b, c, d, x, s, ac) { 
    (a) += I ((b), (c), (d)) + (x) + (UINT4)(ac); 
    (a) = ROTATE_LEFT ((a), (s)); 
    (a) += (b); 
 }

/* MD5 initialization. Begins an MD5 operation, writing a new context. */
static void MD5Init(
    MD5_CTX *context)
{ 
    context->count[0] = context->count[1] = 0;
}

/* Load magic initialization constants. */
context->state[0] = 0x67452301; 
context->state[1] = 0xefcdbab89;
context->state[2] = 0x98badcfe;
context->state[3] = 0x10325476;
return;
}

/* MD5 block update operation. Continues an MD5 message-digest operation, processing another message block, and updating the context. */
static void MD5Update(
    MD5_CTX *context,            /* context */
    unsigned char *input,        /* input block */
    unsigned int inputLen)       /* length of input block */
{
    unsigned int i, idx, partLen;

    /* Compute number of bytes mod 64 */
    idx = (unsigned int)((context->count[0] >> 3) & 0x3F);

    /* Update number of bits */
    if ((context->count[0] += ((UINT4)inputLen << 3)) < ((UINT4)inputLen << 3))
        context->count[1]++;
    context->count[1] += ((UINT4)inputLen >> 29);
    partLen = (unsigned int)64 - idx;

    /* Transform as many times as possible. */
    if (inputLen >= partLen) {
        memcpy((POINTER)&context->buffer[idx], (POINTER)input, (size_t)partLen);
        MD5Transform(context->state, context->buffer);
        for (i = partLen; i + 63 < inputLen; i += 64)
            MD5Transform(context->state, &input[i]);
        idx = 0;
    } else
        i = 0;

    /* Buffer remaining input */
    memcpy((POINTER)&context->buffer[idx], (POINTER)&input[i], (size_t)(inputLen - i));
}

/* MD5 finalization. Ends an MD5 message-digest operation, writing the message digest and zeroizing the context. */
static void MD5Final(
    unsigned char digest[],      /* message digest */
    MD5_CTX *context)             /* context */
{
    unsigned char bits[8];
    unsigned int idx, padLen;

/* Save number of bits */
Encode(bits, context->count, 8);

/* Pad out to 56 mod 64. */
idx = (unsigned int)((context->count[0] >> 3) & 0x3f);
padLen = (idx < 56) ? ((unsigned int)56 - idx) : ((unsigned int)120 - idx);
MD5Update(context, PADDING, padLen);

/* Append length (before padding) */
MD5Update(context, bits, 8);

/* Store state in digest */
Encode(digest, context->state, 16);

/* Zeroize sensitive information. */
memset((POINTER)context, 0, sizeof(*context));
}

/* MD5 basic transformation. Transforms state based on block. */
static void MD5Transform(
    UINT4 state[],
    unsigned char block[])
{
    UINT4 a = state[0], b = state[1], c = state[2], d = state[3], x[16];

    Decode(x, block, 64);

    /* Round 1 */
    #define S11 7
    #define S12 12
    #define S13 17
    #define S14 22
    FF (a, b, c, d, x[ 0], S11, 0xd76aa478); /* 1 */
    FF (d, a, b, c, x[ 1], S12, 0xe8c7b756); /* 2 */
    FF (c, d, a, b, x[ 2], S13, 0x242070db); /* 3 */
    FF (b, c, d, a, x[ 3], S14, 0x1bceeece); /* 4 */
    FF (a, b, c, d, x[ 4], S11, 0xf57c0faf); /* 5 */
    FF (d, a, b, c, x[ 5], S12, 0x8b44f7af); /* 6 */
    FF (c, d, a, b, x[ 6], S13, 0x895cd7be); /* 7 */
    FF (b, c, d, a, x[ 7], S14, 0x698098d8); /* 8 */
    FF (a, b, c, d, x[ 8], S11, 0x895cd7be); /* 9 */
    FF (d, a, b, c, x[ 9], S12, 0x698098d8); /* 10 */
    FF (c, d, a, b, x[10], S13, 0xf57c0faf); /* 11 */
    FF (b, c, d, a, x[11], S14, 0x8b44f7af); /* 12 */
    FF (a, b, c, d, x[12], S11, 0x895cd7be); /* 13 */
    FF (d, a, b, c, x[13], S12, 0x698098d8); /* 14 */
    FF (c, d, a, b, x[14], S13, 0xf57c0faf); /* 15 */
/* Round 2 */
#define S21 5
#define S22 9
#define S23 14
#define S24 20
GG (a, b, c, d, x[1], S21, 0xf61e2562); /* 17 */
GG (d, a, b, c, x[ 6], S22, 0xce040b340); /* 18 */
GG (c, d, a, b, x[11], S23, 0x265e5a51); /* 19 */
GG (b, c, d, a, x[ 0], S24, 0xe9b6c7aa); /* 20 */
GG (a, b, c, d, x[ 5], S21, 0xd62f105d); /* 21 */
GG (d, a, b, c, x[10], S22, 0x2441453); /* 22 */
GG (c, d, a, b, x[15], S23, 0xd8a1e681); /* 23 */
GG (b, c, d, a, x[ 4], S24, 0x7d3fbc8); /* 24 */
GG (a, b, c, d, x[ 9], S21, 0x21e1cde6); /* 25 */
GG (d, a, b, c, x[14], S22, 0xc33707d6); /* 26 */
GG (c, d, a, b, x[ 3], S23, 0xf4d50d87); /* 27 */
GG (b, c, d, a, x[ 8], S24, 0x455a14ed); /* 28 */
GG (a, b, c, d, x[13], S21, 0xea9e3e905); /* 29 */
GG (d, a, b, c, x[ 2], S22, 0x7cefa3f8); /* 30 */
GG (c, d, a, b, x[ 7], S23, 0x676f02d9); /* 31 */
GG (b, c, d, a, x[12], S24, 0x8d2a4c8a); /* 32 */
/* Round 3 */
#define S31 4
#define S32 11
#define S33 16
#define S34 23
HH (a, b, c, d, x[ 5], S31, 0x289b7ec6); /* 33 */
HH (d, a, b, c, x[ 8], S32, 0x8771f681); /* 34 */
HH (c, d, a, b, x[11], S33, 0x6d9d6122); /* 35 */
HH (b, c, d, a, x[14], S34, 0xfd5380c); /* 36 */
HH (a, b, c, d, x[ 1], S31, 0xa4beea44); /* 37 */
HH (d, a, b, c, x[ 4], S32, 0x4bdecfa9); /* 38 */
HH (c, d, a, b, x[ 7], S33, 0x6bb4b60); /* 39 */
HH (b, c, d, a, x[10], S34, 0xbebfbc70); /* 40 */
HH (a, b, c, d, x[13], S31, 0x289b7ec6); /* 41 */
HH (d, a, b, c, x[ 0], S32, 0x9eaal27fa); /* 42 */
HH (c, d, a, b, x[ 3], S33, 0xd4e3085); /* 43 */
HH (b, c, d, a, x[ 6], S34, 0x4881d05); /* 44 */
HH (a, b, c, d, x[ 9], S31, 0xd9d4d039); /* 45 */
HH (d, a, b, c, x[12], S32, 0xe6db99e5); /* 46 */
HH (c, d, a, b, x[15], S33, 0x1fa27cf8); /* 47 */
HH (b, c, d, a, x[ 2], S34, 0xc4ac5665); /* 48 */
/* Round 4 */
#define S41 6


```c
#define S42 10
#define S43 15
#define S44 21

II (a, b, c, d, x[ 0], S41, 0xf4292244); /* 49 */
II (d, a, b, c, x[ 7], S42, 0x432aff97); /* 50 */
II (c, d, a, b, x[14], S43, 0xab9423a7); /* 51 */
II (b, c, d, a, x[ 5], S44, 0xfc93a039); /* 52 */
II (a, b, c, d, x[12], S41, 0x655b59c3); /* 53 */
II (d, a, b, c, x[ 3], S42, 0x8f0ccc92); /* 54 */
II (c, d, a, b, x[10], S43, 0xffeff47d); /* 55 */
II (b, c, d, a, x[ 1], S44, 0x85845dd1); /* 56 */
II (a, b, c, d, x[ 8], S41, 0x6f6a87e4f); /* 57 */
II (d, a, b, c, x[15], S42, 0x8f0ccc92); /* 58 */
II (c, d, a, b, x[ 6], S43, 0xa3014314); /* 59 */
II (b, c, d, a, x[13], S44, 0x4e0811a1); /* 60 */
II (a, b, c, d, x[ 4], S41, 0x7f537e82); /* 61 */
II (d, a, b, c, x[11], S42, 0xb63af235); /* 62 */
II (c, d, a, b, x[ 2], S43, 0x2ad7d2bb); /* 63 */
II (b, c, d, a, x[ 9], S44, 0xeb86d391); /* 64 */

state[0] += a;
state[1] += b;
state[2] += c;
state[3] += d;

/* Zeroize sensitive information. */
memset((POINTER)x, 0, sizeof(x));
}

/* Encodes input (UINT4) into output (unsigned char).
   Assumes len is a multiple of 4. */
static void Encode(
    unsigned char *output,
    UINT4 *input,
    unsigned int len)
{
    unsigned int i, j;

    for (i = 0, j = 0; j < len; i++, j += 4) {
        output[j]   = (unsigned char)( input[i]        & 0xff);
        output[j+1] = (unsigned char)((input[i] >> 8)  & 0xff);
        output[j+2] = (unsigned char)((input[i] >> 16) & 0xff);
        output[j+3] = (unsigned char)((input[i] >> 24) & 0xff);
    }
    return;
}

/* Decodes input (unsigned char) into output (UINT4). */
```
Assumes len is a multiple of 4. */
static void Decode(
    UINT4 *output,
    unsigned char *input,
    unsigned int len)
{
    unsigned int i, j;

    for (i = 0, j = 0; j < len; i++, j += 4)
    output[i] = ((UINT4)input[j]) |
                (((UINT4)input[j+1]) << 8 ) |
                (((UINT4)input[j+2]) << 16) |
                (((UINT4)input[j+3]) << 24);
    return;
}

/**
** ===== END RFC 1321 CODE =====
*/

struct md5_st {
    MD5_CTX ctx;
};

md5_rc_t md5_create(md5_t **md5)
{
    if (md5 == NULL)
        return MD5_RC_ARG;
    if (((*md5 = (md5_t *)malloc(sizeof(md5_t))) == NULL)
        return MD5_RC_MEM;
    MD5Init(&((*md5)->ctx));
    return MD5_RC_OK;
}

md5_rc_t md5_init(md5_t *md5)
{
    if (md5 == NULL)
        return MD5_RC_ARG;
    MD5Init(&(md5->ctx));
    return MD5_RC_OK;
}

md5_rc_t md5_update(md5_t *md5, const void *data_ptr, size_t data_len)
{
    if (md5 == NULL)
        return MD5_RC_ARG;
    MD5Update(&(md5->ctx), (unsigned char *)data_ptr, (unsigned int)data_len);
    return MD5_RC_OK;
}
md5_store(md5_t *md5, void **data_ptr, size_t *data_len)
{
    MD5_CTX ctx;

    if (md5 == NULL || data_ptr == NULL)
        return MD5_RC_ARG;
    if (*data_ptr == NULL) {
        if ((*data_ptr = malloc(MD5_LEN_BIN)) == NULL)
            return MD5_RC_MEM;
        if (data_len != NULL)
            *data_len = MD5_LEN_BIN;
    }
    else {
        if (data_len != NULL) {
            if (*data_len < MD5_LEN_BIN)
                return MD5_RC_MEM;
            *data_len = MD5_LEN_BIN;
        }
    }
    memcpy((void *)(&ctx), (void *)(&(md5->ctx)), sizeof(MD5_CTX));
    MD5Final((unsigned char *)(*data_ptr), &(ctx));
    return MD5_RC_OK;
}

md5_format(md5_t *md5, char **data_ptr, size_t *data_len)
{
    static const char hex[] = "0123456789abcdef";
    unsigned char buf[MD5_LEN_BIN];
    unsigned char *bufptr;
    size_t buflen;
    md5_rc_t rc;
    int i;

    if (md5 == NULL || data_ptr == NULL)
        return MD5_RC_ARG;
    if (*data_ptr == NULL) {
        if ((*data_ptr = (char *)malloc(MD5_LEN_STR+1)) == NULL)
            return MD5_RC_MEM;
        if (data_len != NULL)
            *data_len = MD5_LEN_STR+1;
    }
    else {
        if (data_len != NULL) {
            if (*data_len < MD5_LEN_STR+1)
                return MD5_RC_MEM;
            *data_len = MD5_LEN_STR+1;
        }
    }
    }
bufptr = buf;
buflen = sizeof(buf);
if ((rc = md5_store(md5, (void **)((void *)&bufptr), &buflen)) != MD5_RC_OK)
    return rc;
for (i = 0; i < (int)buflen; i++) {
    (*data_ptr)[(i*2)+0] = hex[(int)(bufptr[i] >> 4)];
    (*data_ptr)[(i*2)+1] = hex[(int)(bufptr[i] & 0x0f)];
}
(*data_ptr)[(i*2)] = '\0';
return MD5_RC_OK;
}

md5_rc_t md5_destroy(md5_t *md5)
{
    if (md5 == NULL)
        return MD5_RC_ARG;
    free(md5);
    return MD5_RC_OK;
}

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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Open Source Used In IoT 15.9(3)M

2232
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<one line to give the program's name and a brief idea of what it does.>
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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
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
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You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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That's all there is to it!

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

1.194 perl 5.22.0 :r0.1
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The End

#!/perl

copyright.t

=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 TestInit;
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) = $output =~ /copyright 1987.*\b\d{4,}\b/i
        or die "Copyright statement not found in perl -v output '$output'";
    $year;
}

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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
    Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007
1.196 perl-modules 5.10.1-12ubuntu2

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

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

That's all there is to it!

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.197 pixman 0.32.6 :r0

1.197.1 Available under license:
/*
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 *
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 * DEALINGS IN THE SOFTWARE.
 *
 * Author: Siarhei Siamashka (siarhei.siamashka@nokia.com)
 */

/*
 * This file contains a macro ('generate_composite_function') which can
 * construct 2D image processing functions, based on a common template.
 * Any combinations of source, destination and mask images with 8bpp,
* 16bpp, 24bpp, 32bpp color formats are supported.
* This macro takes care of:
* - handling of leading and trailing unaligned pixels
* - doing most of the work related to L2 cache preload
* - encourages the use of software pipelining for better instructions
* scheduling
*
* The user of this macro has to provide some configuration parameters
* (bit depths for the images, prefetch distance, etc.) and a set of
* macros, which should implement basic code chunks responsible for
* pixels processing. See 'pixman-arm-neon-asm.S' file for the usage
* examples.
*
* TODO:
* - try overlapped pixel method (from Ian Rickards) when processing
* exactly two blocks of pixels
* - maybe add an option to do reverse scanline processing
*/

/*
* Bit flags for 'generate_composite_function' macro which are used
* to tune generated functions behavior.
*/
.set FLAG_DST_WRITEONLY,       0
.set FLAG_DST_READWRITE,       1
.set FLAG_DEINTERLEAVE_32BPP,  2

/*
* Offset in stack where mask and source pointer/stride can be accessed
* from 'init' macro. This is useful for doing special handling for solid mask.
*/
.set ARGS_STACK_OFFSET,        40

/*
* Constants for selecting preferable prefetch type.
*/
.set PREFETCH_TYPE_NONE,       0 /* No prefetch at all */
.set PREFETCH_TYPE_SIMPLE,     1 /* A simple, fixed-distance-ahead prefetch */
.set PREFETCH_TYPE_ADVANCED,   2 /* Advanced fine-grained prefetch */

/*
* Definitions of supplementary pixld/pixst macros (for partial load/store of
* pixel data).
*/

.macro pixldst1 op, elem_size, reg1, mem_operand, abits
.if abits > 0
.macro pixldst2 op, elem_size, reg1, reg2, mem_operand, abits
  .if abits > 0
    op&.&elem_size {d&reg1, d&reg2}, [&mem_operand&, :&abits&]
  .else
    op&.&elem_size {d&reg1}, [&mem_operand&]
  .endif
.endm

.macro pixldst4 op, elem_size, reg1, reg2, reg3, reg4, mem_operand, abits
  .if abits > 0
    op&.&elem_size {d&reg1, d&reg2, d&reg3, d&reg4}, [&mem_operand&, :&abits&]
  .else
    op&.&elem_size {d&reg1, d&reg2}, [&mem_operand&]
  .endif
.endm

.macro pixldst0 op, elem_size, reg1, idx, mem_operand, abits
  op&.&elem_size {d&reg1[idx]}, [&mem_operand&]
.endm

.macro pixldst3 op, elem_size, reg1, reg2, reg3, mem_operand
  op&.&elem_size {d&reg1, d&reg2, d&reg3}, [&mem_operand&]
.endm

.macro pixldst30 op, elem_size, reg1, reg2, reg3, idx, mem_operand
  op&.&elem_size {d&reg1[idx], d&reg2[idx], d&reg3[idx]}, [&mem_operand&]
.endm

.macro pixldst numbytes, op, elem_size, basereg, mem_operand, abits
  .if numbytes == 32
    pixldst4 op, elem_size, %basereg+4, %basereg+5, %basereg+6, %basereg+7, &mem_operand, abits
  .elseif numbytes == 16
    pixldst2 op, elem_size, %basereg+2, %basereg+3, &mem_operand, abits
  .elseif numbytes == 8
    pixldst1 op, elem_size, %basereg+1, &mem_operand, abits
  .elseif numbytes == 4
    .if !RESPECT_STRICT_ALIGNMENT || (elem_size == 32)
      pixldst0 op, 32, %basereg+0, 1, &mem_operand, abits
    .elseif elem_size == 16
      pixldst0 op, 16, %basereg+0, 2, &mem_operand, abits
      pixldst0 op, 16, %basereg+0, 3, &mem_operand, abits
    .endif
  .endif
.endm
.else
    pixldst0 op, 8, (%basereg+0), 4, mem_operand, abits
    pixldst0 op, 8, (%basereg+0), 5, mem_operand, abits
    pixldst0 op, 8, (%basereg+0), 6, mem_operand, abits
    pixldst0 op, 8, (%basereg+0), 7, mem_operand, abits
.endif
.elseif numbytes == 2
    .if !RESPECT_STRICT_ALIGNMENT || (elem_size == 16)
        pixldst0 op, 16, (%basereg+0), 1, mem_operand, abits
    .else
        pixldst0 op, 8, (%basereg+0), 2, mem_operand, abits
        pixldst0 op, 8, (%basereg+0), 3, mem_operand, abits
    .endif
.elseif numbytes == 1
    pixldst0 op, 8, (%basereg+0), 1, mem_operand, abits
.else
    .error "unsupported size: numbytes"
.endif
.endm

 McKenzie pixld numpix, bpp, basereg, mem_operand, abits=0
.if bpp > 0
    .if (bpp == 32) && (numpix == 8) && (DEINTERLEAVE_32BPP_ENABLED != 0)
        pixld vld4, 8, (%basereg+4), (%basereg+5), 
             (%basereg+6), (%basereg+7), mem_operand, abits
    .elseif (bpp == 32) && (numpix == 4)
        pixld vld3, 8, (%basereg+4), (%basereg+5), mem_operand
    .elseif (bpp == 32) && (numpix == 2)
        pixld vld3, 8, (%basereg+4), (%basereg+5), mem_operand
    .elseif (bpp == 32) && (numpix == 1)
        pixld vld1, 8, (%basereg+5), mem_operand
    .else
        pixld (%numpix * bpp / 8), vld1, %bpp, basereg, mem_operand, abits
    .endif
.endif
.endm

 McKenzie pixst numpix, bpp, basereg, mem_operand, abits=0
.if bpp > 0
    .if (bpp == 32) && (numpix == 8) && (DEINTERLEAVE_32BPP_ENABLED != 0)
        pixld vst4, 8, (%basereg+4), (%basereg+5), 
             (%basereg+6), (%basereg+7), mem_operand, abits
    .elseif (bpp == 32) && (numpix == 4)
        pixld vst30 vld3, 8, (%basereg+4), (%basereg+5), mem_operand
    .elseif (bpp == 32) && (numpix == 2)
        pixld vst30 vld3, 8, (%basereg+4), (%basereg+5), mem_operand
    .elseif (bpp == 32) && (numpix == 1)
        pixld vst30 vld1, 8, (%basereg+5), mem_operand
    .else
        pixld (%numpix * bpp / 8), vld1, %bpp, basereg, mem_operand, abits
    .endif
.endif
.endm
.elseif (bpp == 24) && (numpix == 8)
pixldst3 vst3, 8, %(basereg+3), %(basereg+4), %(basereg+5), mem_operand
.elseif (bpp == 24) && (numpix == 4)
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 4, mem_operand
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 5, mem_operand
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 6, mem_operand
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 7, mem_operand
.elseif (bpp == 24) && (numpix == 2)
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 2, mem_operand
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 3, mem_operand
.elseif (bpp == 24) && (numpix == 1)
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 1, memOperand
.else
pixld %((numpix * bpp / 8)), vst1, %(bpp), basereg, mem_operand, abits
.endif
.endif
.endm

.macro pixld_a numpix, bpp, basereg, mem_operand
.if (bpp * numpix) <= 128
pixld numpix, bpp, basereg, mem_operand, %(bpp * numpix)
.else
pixld numpix, bpp, basereg, mem_operand, 128
.endif
.endm

.macro pixst_a numpix, bpp, basereg, mem_operand
.if (bpp * numpix) <= 128
pixst numpix, bpp, basereg, mem_operand, %(bpp * numpix)
.else
pixst numpix, bpp, basereg, mem_operand, 128
.endif
.endm

/*
* Pixel fetcher for nearest scaling (needs TMP1, TMP2, VX, UNIT_X register
* aliases to be defined)
*/
.macro pixld1_s elem_size, reg1, mem_operand
.if elem_size == 16
mov  TMP1, VX, asr #16
adds VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
  bpl 5b
  add TMP1, mem_operand, TMP1, asl #1
  mov TMP2, VX, asr #16
  adds VX, VX, UNIT_X
  5: subpls VX, VX, SRC_WIDTH_FIXED
*/
bpl 5b
add TMP2, mem_operand, TMP2, asl #1
vld1.16 {d&reg1&[0]}, [TMP1, :16]
mov TMP1, VX, asr #16
adds VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
  bpl 5b
add TMP1, mem_operand, TMP1, asl #1
vld1.16 {d&reg1&[1]}, [TMP2, :16]
mov TMP2, VX, asr #16
adds VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
  bpl 5b
add TMP2, mem_operand, TMP2, asl #1
vld1.16 {d&reg1&[2]}, [TMP1, :16]
vld1.16 {d&reg1&[3]}, [TMP2, :16]
elseif elem_size == 32
  mov TMP1, VX, asr #16
  adds VX, VX, UNIT_X
  5: subpls VX, VX, SRC_WIDTH_FIXED
  bpl 5b
  add TMP1, mem_operand, TMP1, asl #2
  mov TMP2, VX, asr #16
  adds VX, VX, UNIT_X
  5: subpls VX, VX, SRC_WIDTH_FIXED
  bpl 5b
  add TMP2, mem_operand, TMP2, asl #2
  vld1.32 {d&reg1&[0]}, [TMP1, :32]
vld1.32 {d&reg1&[1]}, [TMP2, :32]
else
  .error "unsupported"
.endif
.endm

.macros pixld2_s elem_size, reg1, reg2, mem_operand
.if 0 /* elem_size == 32 */
  mov TMP1, VX, asr #16
  add VX, VX, UNIT_X, asl #1
  add TMP1, mem_operand, TMP1, asl #2
  mov TMP2, VX, asr #16
  sub VX, VX, UNIT_X
  add TMP2, mem_operand, TMP2, asl #2
  vld1.32 {d&reg1&[0]}, [TMP1, :32]
  mov TMP1, VX, asr #16
  add VX, VX, UNIT_X, asl #1
  add TMP1, mem_operand, TMP1, asl #2
  vld1.32 {d&reg2&[0]}, [TMP2, :32]
  mov TMP2, VX, asr #16
.endm
add VX, VX, UNIT_X
add TMP2, mem_operand, TMP2, asl #2
vld1.32 {d&reg1&[1]}, [TMP1, :32]
vld1.32 {d&reg2&[1]}, [TMP2, :32]
.else
pixld1_s elem_size, reg1, mem_operand
pixld1_s elem_size, reg2, mem_operand
endif
.endm

.macro pixld0_s elem_size, reg1, idx, mem_operand
.if elem_size == 16
  mov TMP1, VX, asr #16
  adds VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl 5b
    add TMP1, mem_operand, TMP1, asl #1
    vld1.16 {d&reg1&[idx]}, [TMP1, :16]
.elseif elem_size == 32
  mov TMP1, VX, asr #16
  adds VX, VX, UNIT_X
5: subpls VX, VX, SRC_WIDTH_FIXED
    bpl 5b
    add TMP1, mem_operand, TMP1, asl #2
    vld1.32 {d&reg1&[idx]}, [TMP1, :32]
.endif
.endm

.macro pixld_s_internal numbytes, elem_size, basereg, mem_operand
.if numbytes == 32
  pixld2_s elem_size, %(basereg+4), %(basereg+5), mem_operand
  pixld2_s elem_size, %(basereg+6), %(basereg+7), mem_operand
  pixdeinterleave elem_size, %(basereg+4)
.elseif numbytes == 16
  pixld2_s elem_size, %(basereg+2), %(basereg+3), mem_operand
  .elseif numbytes == 8
    pixld1_s elem_size, %(basereg+1), mem_operand
.elseif numbytes == 4
  .if elem_size == 32
    pixld0_s elem_size, %(basereg+0), 1, mem_operand
  .elseif elem_size == 16
    pixld0_s elem_size, %(basereg+0), 2, mem_operand
    pixld0_s elem_size, %(basereg+0), 3, mem_operand
  .else
    pixld0_s elem_size, %(basereg+0), 4, mem_operand
    pixld0_s elem_size, %(basereg+0), 5, mem_operand
    pixld0_s elem_size, %(basereg+0), 6, mem_operand
    pixld0_s elem_size, %(basereg+0), 7, mem_operand
.ifdef
unless numbytes == 2
  .if elem_size == 16
    pixld0_s elem_size, %(basereg+0), 1, mem_operand
  .else
    pixld0_s elem_size, %(basereg+0), 2, mem_operand
  pixld0_s elem_size, %(basereg+0), 3, mem_operand
  .endif
.elseif numbytes == 1
  pixld0_s elem_size, %(basereg+0), 1, mem_operand
.else
  .error "unsupported size: numbytes"
.endif
.endm

.macros pixld_s numpix, bpp, basereg, mem_operand
  .if bpp > 0
    pixld_s_internal %numpix * bpp / 8, %(bpp), basereg, mem_operand
  .endif
.endm

.macros vuzp8 reg1, reg2
  vuzp.8 d&reg1, d&reg2
.endm

.macros vzip8 reg1, reg2
  vzip.8 d&reg1, d&reg2
.endm

/* deinterleave B, G, R, A channels for eight 32bpp pixels in 4 registers */
.macros pixdeinterleave bpp, basereg
  .if bpp == 32 && (DEINTERLEAVE_32BPP_ENABLED != 0)
    vuzp8 %basereg+0, %basereg+1
    vuzp8 %basereg+2, %basereg+3
    vuzp8 %basereg+1, %basereg+3
    vuzp8 %basereg+0, %basereg+2
  .endif
.endm

/* interleave B, G, R, A channels for eight 32bpp pixels in 4 registers */
.macros pixinterleave bpp, basereg
  .if bpp == 32 && (DEINTERLEAVE_32BPP_ENABLED != 0)
    vzip8 %basereg+0, %basereg+2
    vzip8 %basereg+1, %basereg+3
    vzip8 %basereg+2, %basereg+3
    vzip8 %basereg+0, %basereg+1
  .endif
.endm
/*
 * This is a macro for implementing cache preload. The main idea is that
 * cache preload logic is mostly independent from the rest of pixels
 * processing code. It starts at the top left pixel and moves forward
 * across pixels and can jump across scanlines. Prefetch distance is
 * handled in an 'incremental' way: it starts from 0 and advances to the
 * optimal distance over time. After reaching optimal prefetch distance,
 * it is kept constant. There are some checks which prevent prefetching
 * unneeded pixel lines below the image (but it still can prefetch a bit
 * more data on the right side of the image - not a big issue and may
 * be actually helpful when rendering text glyphs). Additional trick is
 * the use of LDR instruction for prefetch instead of PLD when moving to
 * the next line, the point is that we have a high chance of getting TLB
 * miss in this case, and PLD would be useless.
 *
 * This sounds like it may introduce a noticeable overhead (when working with
 * fully cached data). But in reality, due to having a separate pipeline and
 * instruction queue for NEON unit in ARM Cortex-A8, normal ARM code can
 * execute simultaneously with NEON and be completely shadowed by it. Thus
 * we get no performance overhead at all (*). This looks like a very nice
 * feature of Cortex-A8, if used wisely. We don't have a hardware prefetcher,
 * but still can implement some rather advanced prefetch logic in software
 * for almost zero cost!
 *
 * (*) The overhead of the prefetcher is visible when running some trivial
 * pixels processing like simple copy. Anyway, having prefetch is a must
 * when working with the graphics data.
 */

.macro PF a, x:vararg
.if (PREFETCH_TYPE_CURRENT == PREFETCH_TYPE_ADVANCED)
  a x
.endif
.endm

.macro cache_preload std_increment, boost_increment
.if (src_bpp_shift >= 0) || (dst_r_bpp != 0) || (mask_bpp_shift >= 0)
  if regs_shortage
    PF ldr ORIG_W, [sp] /* If we are short on regs, ORIG_W is kept on stack */
  .endif
  if std_increment != 0
    PF add PF_X, PF_X, #std_increment
  .endif
  PF tst PF_CTL, #0xF
  PF addne PF_X, PF_X, #boost_increment
  PF subne PF_CTL, PF_CTL, #1
  PF cmp PF_X, ORIG_W
.if src_bpp_shift >= 0

PF pld, [PF_SRC, PF_X, lsl #src_bpp_shift]
endif
.if dst_r_bpp != 0
PF pld, [PF_DST, PF_X, lsl #dst_bpp_shift]
endif
.if mask_bpp_shift >= 0
PF pld, [PF_MASK, PF_X, lsl #mask_bpp_shift]
endif
PF subge PF_X, PF_X, ORIG_W
PF subges PF_CTL, PF_CTL, #0x10
.if src_bpp_shift >= 0
PF ldrgeb DUMMY, [PF_SRC, SRC_STRIDE, lsl #src_bpp_shift]!
.endif
.if dst_r_bpp != 0
PF ldrgeb DUMMY, [PF_DST, DST_STRIDE, lsl #dst_bpp_shift]!
.endif
.if mask_bpp_shift >= 0
PF ldrgeb DUMMY, [PF_MASK, MASK_STRIDE, lsl #mask_bpp_shift]!
.endif
.endif
.endm

.macro cache_preload_simple
.if (PREFETCH_TYPE_CURRENT == PREFETCH_TYPE_SIMPLE)
.if src_bpp > 0
pld [SRC, #(PREFETCH_DISTANCE_SIMPLE * src_bpp / 8)]
.endif
.if dst_r_bpp > 0
pld [DST_R, #(PREFETCH_DISTANCE_SIMPLE * dst_r_bpp / 8)]
.endif
.if mask_bpp > 0
pld [MASK, #(PREFETCH_DISTANCE_SIMPLE * mask_bpp / 8)]
.endif
.endif
.endm

.macro fetch_mask_pixblock
pixld pixblock_size, mask_bpp, 
    (mask_basereg - pixblock_size * mask_bpp / 64), MASK
.endm

/*
 * Macro which is used to process leading pixels until destination
 * pointer is properly aligned (at 16 bytes boundary). When destination
 * buffer uses 16bpp format, this is unnecessary, or even pointless.
 */
.macro ensure_destination_ptr_alignment process_pixblock_head, 
    process_pixblock_tail, 

process_pixblock_tail_head

.irp lowbit, 1, 2, 4, 8, 16
.local skip1

.if (dst_w_bpp <= (lowbit * 8)) && ((lowbit * 8) < (pixblock_size * dst_w_bpp))
    if lowbit < 16 /* we don't need more than 16-byte alignment */
        tst DST_W, #lowbit
        beq If
    .endif
.pixld_src (lowbit * 8 / dst_w_bpp), src bpp, src basereg, SRC
.pixld (lowbit * 8 / dst_w_bpp), mask bpp, mask basereg, MASK
    .irp lowbit, 1, 2, 4, 8, 16
    .if dst_r_bpp > 0
        pixld_a (lowbit * 8 / dst_r_bpp), dst_r_bpp, dst r basereg, DST_R
    .else
        add DST_R, DST_R, #lowbit
    .endif
.pixdeinterleave src bpp, src basereg
.pixdeinterleave mask bpp, mask basereg
.pixdeinterleave dst_r_bpp, dst r basereg

process_pixblock_head
.cache_preload 0, pixblock_size
.cache_preload_simple
.process_pixblock_tail
.pixinterleave dst_w_bpp, dst_w basereg
.irp lowbit, 1, 2, 4, 8, 16
    if (dst_w_bpp <= (lowbit * 8)) && ((lowbit * 8) < (pixblock_size * dst_w_bpp))
        if lowbit < 16 /* we don't need more than 16-byte alignment */
            tst DST_W, #lowbit
            beq If
        .endif
.pixst_a (lowbit * 8 / dst_w_bpp), dst_w_bpp, dst w basereg, DST_W
1:
    .endif
.endr
.endm
/*
 * Special code for processing up to (pixblock_size - 1) remaining
 * trailing pixels. As SIMD processing performs operation on
 * pixblock_size pixels, anything smaller than this has to be loaded
 * and stored in a special way. Loading and storing of pixel data is
 * performed in such a way that we fill some 'slots' in the NEON
 * registers (some slots naturally are unused), then perform compositing
 * operation as usual. In the end, the data is taken from these 'slots'
 * and saved to memory.
 *
 * cache_preload_flag - allows to suppress prefetch if
 *                      set to 0
 * dst_aligned_flag   - selects whether destination buffer
 *                      is aligned
 */

.macro process_trailing_pixels cache_preload_flag, 
    dst_aligned_flag, 
    process_pixblock_head, 
    process_pixblock_tail, 
    process_pixblock_tail_head
    tst         W, #(pixblock_size - 1)
    beq         2f
    .irp chunk_size, 16, 8, 4, 2, 1
    .if pixblock_size > chunk_size
        tst         W, #chunk_size
        beq         1f
        pixld_src   chunk_size, src_bpp, src_basereg, SRC
        pixld       chunk_size, mask_bpp, mask_basereg, MASK
        .if dst_aligned_flag != 0
            pixld_a   chunk_size, dst_r_bpp, dst_r_basereg, DST_R
        .else
            pixld       chunk_size, dst_r_bpp, dst_r_basereg, DST_R
        .endif
        .if cache_preload_flag != 0
            cache_preload 0, pixblock_size
        .endif
        .endif
    .endr
    pixdeinterleave src_bpp, src_basereg
    pixdeinterleave mask_bpp, mask_basereg
    pixdeinterleave dst_r_bpp, dst_r_basereg

    .process_pixblock_head
    .if cache_preload_flag != 0
        cache_preload 0, pixblock_size
    .endif
process_pixblock_tail
pixinterleave dst_w_bpp, dst_w_basereg
.irp chunk_size, 16, 8, 4, 2, 1
.if pixblock_size > chunk_size
   tst W, #chunk_size
   beq 1f
   if dst_aligned_flag != 0
      pixst_a chunk_size, dst_w_bpp, dst_w_basereg, DST_W
   .else
      pixst chunk_size, dst_w_bpp, dst_w_basereg, DST_W
   .endif
1:
.endif
.endr
2:
.endm

/*
 * Macro, which performs all the needed operations to switch to the next
 * scanline and start the next loop iteration unless all the scanlines
 * are already processed.
 */
.macro advance_to_next_scanline start_of_loop_label
.if regs_shortage
   ldrd W, [sp] /* load W and H (width and height) from stack */
.else
   mov W, ORIG_W
.endif
.add DST_W, DST_W, DST_STRIDE, lsl #dst_bpp_shift
.if src_bpp != 0
   add SRC, SRC, SRC_STRIDE, lsl #src_bpp_shift
.endif
.if mask_bpp != 0
   add MASK, MASK, MASK_STRIDE, lsl #mask_bpp_shift
.endif
.if (dst_w_bpp != 24)
   sub DST_W, DST_W, W, lsl #dst_bpp_shift
.endif
.if (src_bpp != 24) && (src_bpp != 0)
   sub SRC, SRC, W, lsl #src_bpp_shift
.endif
.if (mask_bpp != 24) && (mask_bpp != 0)
   sub MASK, MASK, W, lsl #mask_bpp_shift
.endif
.sub H, H, #1
.mov DST_R, DST_W
.if regs_shortage
   str H, [sp, #4] /* save updated height to stack */
* Registers are allocated in the following way by default:
  * d0, d1, d2, d3 - reserved for loading source pixel data
  * d4, d5, d6, d7 - reserved for loading destination pixel data
  * d24, d25, d26, d27 - reserved for loading mask pixel data
  * d28, d29, d30, d31 - final destination pixel data for writeback to memory
*/

.macro generate_composite_function fname, 
  src_bpp_, 
  mask_bpp_, 
  dst_w_bpp_, 
  flags, 
  pixblock_size_, 
  prefetch_distance, 
  init, 
  cleanup, 
  process_pixblock_head, 
  process_pixblock_tail, 
  dst_w_basereg_ = 28, 
  dst_r_basereg_ = 4, 
  src_basereg_ = 0, 
  mask_basereg_ = 24

  .func fname
  .global fname
  /* For ELF format also set function visibility to hidden */
  ifdef __ELF__
    .hidden fname
  .type fname, %function
  #endif
  fname:
    push {r4-r12, lr} /* save all registers */

  /*
   * Select prefetch type for this function. If prefetch distance is
   * set to 0 or one of the color formats is 24bpp, SIMPLE prefetch
   * has to be used instead of ADVANCED.
   */
  .set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_DEFAULT
  .if prefetch_distance == 0
    .set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_NONE
  .elseif (PREFETCH_TYPE_CURRENT > PREFETCH_TYPE_SIMPLE) && 
    ((src_bpp_ == 24) || (mask_bpp_ == 24) || (dst_w_bpp_ == 24))
.set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_SIMPLE
.endif

/*
 * Make some macro arguments globally visible and accessible
 * from other macros
 */
.set src_bpp, src_bpp_
.set mask_bpp, mask_bpp_
.set dst_w_bpp, dst_w_bpp_
.set pixblock_size, pixblock_size_
.set dst_w_basereg, dst_w_basereg_
.set dst_r_basereg, dst_r_basereg_
.set src_basereg, src_basereg_
.set mask_basereg, mask_basereg_

.macro pixld_src x:vararg
  pixld x
.endm
.macro fetch_src_pixblock
  pixld_src pixblock_size, src_bpp, \
  (src_basereg - pixblock_size * src_bpp / 64), SRC
.endm

/*
 * Assign symbolic names to registers
 */
W .req r0  /* width (is updated during processing) */
H .req r1  /* height (is updated during processing) */
DST_W .req r2  /* destination buffer pointer for writes */
DST_STRIDE .req r3  /* destination image stride */
SRC .req r4  /* source buffer pointer */
SRC_STRIDE .req r5  /* source image stride */
DST_R .req r6  /* destination buffer pointer for reads */
MASK .req r7  /* mask pointer */
MASK_STRIDE .req r8  /* mask stride */
PF_CTL .req r9  /* combined lines counter and prefetch */
  /* distance increment counter */
PF_X .req r10  /* pixel index in a scanline for current */
  /* preretch position */
PF_SRC .req r11  /* pointer to source scanline start */
  /* for prefetch purposes */
PF_DST .req r12  /* pointer to destination scanline start */
  /* for prefetch purposes */
PF_MASK .req r14  /* pointer to mask scanline start */
  /* for prefetch purposes */
* Check whether we have enough registers for all the local variables.
* If we don't have enough registers, original width and height are
* kept on top of stack (and 'regs_shortage' variable is set to indicate
* this for the rest of code). Even if there are enough registers, the
* allocation scheme may be a bit different depending on whether source
* or mask is not used.
*/

.if (PREFETCH_TYPE_CURRENT < PREFETCH_TYPE_ADVANCED)
    ORIG_W .req r10 /* saved original width */
    DUMMY .req r12 /* temporary register */
    .set regs_shortage, 0
.elseif mask_bpp == 0
    ORIG_W .req r7 /* saved original width */
    DUMMY .req r8 /* temporary register */
    .set regs_shortage, 0
.elseif src_bpp == 0
    ORIG_W .req r4 /* saved original width */
    DUMMY .req r5 /* temporary register */
    .set regs_shortage, 0
.else
    ORIG_W .req r1 /* saved original width */
    DUMMY .req r1 /* temporary register */
    .set regs_shortage, 1
.endif

.set mask_bpp_shift, -1
.if src_bpp == 32
    .set src_bpp_shift, 2
.elseif src_bpp == 24
    .set src_bpp_shift, 0
.elseif src_bpp == 16
    .set src_bpp_shift, 1
.elseif src_bpp == 8
    .set src_bpp_shift, 0
.elseif src_bpp == 0
    .set src_bpp_shift, -1
.else
    .error "requested src bpp (src_bpp) is not supported"
.endif
.if mask_bpp == 32
    .set mask_bpp_shift, 2
.elseif mask_bpp == 24
    .set mask_bpp_shift, 0
.elseif mask_bpp == 8
    .set mask_bpp_shift, 0
.elseif mask_bpp == 0
    .set mask_bpp_shift, -1
.else
    .
.error "requested mask bpp (mask_bpp) is not supported"
.endif
.if dst_wbpp == 32
.set dst_bpp_shift, 2
.elseif dst_wbpp == 24
.set dst_bpp_shift, 0
.elseif dst_wbpp == 16
.set dst_bpp_shift, 1
.elseif dst_wbpp == 8
.set dst_bpp_shift, 0
.else
.error "requested dst bpp (dst_wbpp) is not supported"
.endif
.if (((flags) & FLAG_DST_READWRITE) != 0)
.set dst_r_bpp, dst_wbpp
.else
.set dst_r_bpp, 0
.endif
.if (((flags) & FLAG_DEINTERLEAVE_32BPP) != 0)
.set DEINTERLEAVE_32BPP_ENABLED, 1
.else
.set DEINTERLEAVE_32BPP_ENABLED, 0
.endif
.if prefetch_distance < 0 || prefetch_distance > 15
.error "invalid prefetch distance (prefetch_distance)"
.endif
.if src_bpp > 0
    ldr        SRC, [sp, #40]
.endif
.if mask_bpp > 0
    ldr        MASK, [sp, #48]
.endif
    PF mov        PF_X, #0
.if src_bpp > 0
    ldr        SRC_STRIDE, [sp, #44]
.endif
.if mask_bpp > 0
    ldr        MASK_STRIDE, [sp, #52]
.endif
    mov        DST_R, DST_W
.if src_bpp == 24
    sub        SRC_STRIDE, SRC_STRIDE, W
    sub        SRC_STRIDE, SRC_STRIDE, W, lsl #1
.endif
if mask_bpp == 24
    sub    MASK_STRIDE, MASK_STRIDE, W
    sub    MASK_STRIDE, MASK_STRIDE, W, lsl #1
.endif
if dst_w_bpp == 24
    sub    DST_STRIDE, DST_STRIDE, W
    sub    DST_STRIDE, DST_STRIDE, W, lsl #1
.endif

/*
 * Setup advanced prefetcher initial state
 */
PF mov    PF_SRC, SRC
PF mov    PF_DST, DST_R
PF mov    PF_MASK, MASK
/* PF_CTL = prefetch_distance | ((h - 1) << 4) */
PF mov    PF_CTL, H, lsl #4
PF add    PF_CTL, #(prefetch_distance - 0x10)

init
.if regs_shortage
    push    {r0, r1}
.endif
    subs    H, H, #1
.if regs_shortage
    str     H, [sp, #4] /* save updated height to stack */
.else
    mov     ORIG_W, W
.endif
    blt     9f
    cmp     W, #(pixblock_size * 2)
    blt     8f
/*
 * This is the start of the pipelined loop, which if optimized for
 * long scanlines
 */
0:
    ensure_destination_ptr_alignment process_pixblock_head, \
        process_pixblock_tail, \
        process_pixblock_tail_head

/* Implement "head (tail_head) ... (tail_head) tail" loop pattern */
pixld_a  pixblock_size, dst_r_bpp, \n    (dst_r_basereg - pixblock_size * dst_r_bpp / 64), DST_R
fetch_src_pixblock
pixld    pixblock_size, mask_bpp, \n    (mask_basereg - pixblock_size * mask_bpp / 64), MASK
PF add    PF_X, PF_X, #pixblock_size
process_pixblock_head

cache_preload 0, pixblock_size

cache_preload_simple

subs   W, W, #(pixblock_size * 2)

blt   2f

1:

process_pixblock_tail_head

cache_preload_simple

subs   W, W, #pixblock_size

bge  1b

2:

process_pixblock_tail

pixst_a pixblock_size, dst_w_bpp, \  
(dst_wBasereg - pixblock_size * dst_w_bpp / 64), DST_W

/* Process the remaining trailing pixels in the scanline */

process_trailing_pixels 1, 1, \  
   process_pixblock_head, \  
   process_pixblock_tail, \  
   process_pixblock_tail_head

advance_to_next_scanline 0b

.if regs_shortage
  pop   {r0, r1}
.endif

.cleanup
  pop   {r4-r12, pc}  /* exit */

/*
  * This is the start of the loop, designed to process images with small width
  * (less than pixblock_size * 2 pixels). In this case neither pipelining
  * nor prefetch are used.
  */

8:

/* Process exactly pixblock_size pixels if needed */

tst   W, #pixblock_size

beq  1f

pixld   pixblock_size, dst_r_bpp, \  
  (dst_rBasereg - pixblock_size * dst_r_bpp / 64), DST_R

fetch_src_pixblock

pixld   pixblock_size, mask_bpp, \  
  (maskBasereg - pixblock_size * mask_bpp / 64), MASK

process_pixblock_head

process_pixblock_tail

pixst   pixblock_size, dst_w_bpp, \  
  (dst_wBasereg - pixblock_size * dst_w_bpp / 64), DST_W

1:

/* Process the remaining trailing pixels in the scanline */

process_trailing_pixels 0, 0, \
process_pixblock_head, \nprocess_pixblock_tail, \nprocess_pixblock_tail_head

advance_to_next_scanline 8b
9:
.if regs_shortage
    pop   {r0, r1}
.endif
.cleanup
    pop   {r4-r12, pc} /* exit */

.purgem   fetch_src_pixblock
.purgem   pixld_src
.unreq   SRC
.unreq   MASK
.unreq   DST_R
.unreq   DST_W
.unreq   ORIG_W
.unreq   W
.unreq   H
.unreq   SRC_STRIDE
.unreq   DST_STRIDE
.unreq   MASK_STRIDE
.unreq   PF_CTL
.unreq   PF_X
.unreq   PF_SRC
.unreq   PF_DST
.unreq   PF_MASK
.unreq   DUMMY
.endfunc
.endm

/*
 * A simplified variant of function generation template for a single
 * scanline processing (for implementing pixman combine functions)
 */
.macro generate_composite_function_scanline        use_nearest_scaling, 
    fname, 
    src_bpp__, 
    mask_bpp__, 
    dst_w_bpp__, 
    flags, 
    pixblock_size__, 
    init, 
    cleanup, 
    process_pixblock_head, 
    process_pixblock_tail, 
    process_pixblock_tail_head, 
    process_pixblock_tail_head
.func fname
.globl fname
/* For ELF format also set function visibility to hidden */
#ifdef __ELF__
.hidden fname
.type fname, %function
#endif
fname:
    .set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_NONE
*/
* Make some macro arguments globally visible and accessible
* from other macros
*/
    .set src_bpp, src_bpp_
    .set mask_bpp, mask_bpp_
    .set dst_w_bpp, dst_w_bpp_
    .set pixblock_size, pixblock_size_
    .set dst_w_basereg, dst_w_basereg_
    .set dst_r_basereg, dst_r_basereg_
    .set src_basereg, src_basereg_
    .set mask_basereg, mask_basereg_

#if use_nearest_scaling != 0
/*
 * Assign symbolic names to registers for nearest scaling
 */
    W .req r0
    DST_W .req r1
    SRC .req r2
    VX .req r3
    UNIT_X .req ip
    MASK .req lr
    TMP1 .req r4
    TMP2 .req r5
    DST_R .req r6
    SRC_WIDTH_FIXED .req r7

.macro pixld_src x:vararg
    pixld_s x
.endm

ldr UNIT_X, [sp]
push {r4-r8, lr}
ldr SRC_WIDTH_FIXED, [sp, #(24 + 4)]
.if mask_bpp != 0
ldr MASK, [sp, #(24 + 8)]
.endif
.else
/*
* Assign symbolic names to registers
*/
W .req r0 /* width (is updated during processing) */
DST_W .req r1 /* destination buffer pointer for writes */
SRC .req r2 /* source buffer pointer */
DST_R .req ip /* destination buffer pointer for reads */
MASK .req r3 /* mask pointer */

.macro pixld_src x:vararg
    pixld x
.endm
.endif

.if (((flags) & FLAG_DST_READWRITE) != 0)
    .set dst_r_bpp, dst_w_bpp
.else
    .set dst_r_bpp, 0
.endif
.if (((flags) & FLAG_DEINTERLEAVE_32BPP) != 0)
    .set DEINTERLEAVE_32BPP_ENABLED, 1
.else
    .set DEINTERLEAVE_32BPP_ENABLED, 0
.endif

.macro fetch_src_pixblock
    pixld_src pixblock_size, src_bpp, \(src_basereg - pixblock_size * src_bpp / 64), SRC
.endm

init
mov DST_R, DST_W

cmp W, #pixblock_size
blt 8f

ensure_destination_ptr_alignment process_pixblock_head, \process_pixblock_tail, \process_pixblock_tail_head

subs W, W, #pixblock_size
blt 7f
/* Implement "head (tail_head) ... (tail_head) tail" loop pattern */

pixld_a pixblock_size, dst_r_bpp, 
    (dst_r_basereg - pixblock_size * dst_r_bpp / 64), DST_R
fetch_src_pixblock
pixld pixblock_size, mask_bpp, 
    (mask_basereg - pixblock_size * mask_bpp / 64), MASK
process_pixblock_head
subs   W, W, #pixblock_size
blt 2f
1:

process_pixblock_tail_head
subs   W, W, #pixblock_size
bge 1b
2:

process_pixblock_tail
pixst_a pixblock_size, dst_w_bpp, 
    (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W
7:

/* Process the remaining trailing pixels in the scanline (dst aligned) */
process_trailing_pixels 0, 1, 
    process_pixblock_head, 
    process_pixblock_tail, 
    process_pixblock_tail_head

cleanup
.if use_nearest_scaling != 0
pop   {r4-r8, pc} /* exit */
.else
bx    lr /* exit */
endif
8:

/* Process the remaining trailing pixels in the scanline (dst unaligned) */
process_trailing_pixels 0, 0, 
    process_pixblock_head, 
    process_pixblock_tail, 
    process_pixblock_tail_head

cleanup
.if use_nearest_scaling != 0
pop   {r4-r8, pc} /* exit */

.unreq DST_R
.unreq SRC
.unreq W
.unreq VX
.unreq UNIT_X
.unreq     TMP1
.unreq     TMP2
.unreq     DST_W
.unreq     MASK
.unreq     SRC_WIDTH_FIXED

.else
  bx      lr /* exit */

.unreq     SRC
.unreq     MASK
.unreq     DST_R
.unreq     DST_W
.unreq     W
.endif

.purgem    fetch_src_pixblock
.purgem    pixld_src

.endfunc
.endm

.macro generate_composite_function_single_scanline x:vararg
  generate_composite_function_scanline 0, x
.endm

.macro generate_composite_function_nearest Scanline x:vararg
  generate_composite_function_scanline 1, x
.endm

/* Default prologue/epilogue, nothing special needs to be done */

.macro default_init
.endm

.macro default_cleanup
.endm

/*
 * Prologue/epilogue variant which additionally saves/restores d8-d15
 * registers (they need to be saved/restored by callee according to ABI).
 * This is required if the code needs to use all the NEON registers.
 */

.macro default_init_need_all_regs
  vpush     {d8-d15}
.endm
.macro default_cleanup_need_all_regs
  vpop {d8-d15}
.endm

/******************************************************************************/
/*
* Conversion of 8 r5g6b6 pixels packed in 128-bit register (in)
* into a planar a8r8g8b8 format (with a, r, g, b color components
* stored into 64-bit registers out_a, out_r, out_g, out_b respectively).
* Warning: the conversion is destructive and the original
*          value (in) is lost.
*/
.macro convert_0565_to_8888 in, out_a, out_r, out_g, out_b
  vshrn.u16 out_r, in, #8
  vshrn.u16 out_g, in, #3
  vsli.u16 in, in, #5
  vmov.u8 out_a, #255
  vsri.u8 out_r, out_r, #5
  vsri.u8 out_g, out_g, #6
  vshrn.u16 out_b, in, #2
.endm

.macro convert_0565_to_x888 in, out_r, out_g, out_b
  vshrn.u16 out_r, in, #8
  vshrn.u16 out_g, in, #3
  vsli.u16 in, in, #5
  vsri.u8 out_r, out_r, #5
  vsri.u8 out_g, out_g, #6
  vshrn.u16 out_b, in, #2
.endm

/******************************************************************************/
/*
* Conversion from planar a8r8g8b8 format (with a, r, g, b color components
* in 64-bit registers in_a, in_r, in_g, in_b respectively) into 8 r5g6b6
* requires two temporary 128-bit registers (tmp1, tmp2)
*/
.macro convert_8888_to_0565 in_r, in_g, in_b, out, tmp1, tmp2
  vshll.u8 tmp1, in_g, #8
  vshll.u8 out, in_r, #8
  vshll.u8 tmp2, in_b, #8
  vsri.u16 out, tmp1, #5
  vsri.u16 out, tmp2, #11
.endm

/*
* Conversion of four r5g6b5 pixels (in) to four x8r8g8b8 pixels
* returned in (out0, out1) registers pair. Requires one temporary
* 64-bit register (tmp). 'out1' and 'in' may overlap, the original
* value from 'in' is lost
*/
.macro convert_four_0565_to_x888_packed in, out0, out1, tmp
vshl.u16    out0, in,   #5 /* G top 6 bits */
vshl.u16    tmp,  in,   #11 /* B top 5 bits */
vsri.u16    in,   in,   #5 /* R is ready in top bits */
vsri.u16    out0, out0, #6 /* G is ready in top bits */
vshr.u16    out1, in,   #8 /* R is in place */
vsri.u16    out0, tmp,  #8 /* G & B is in place */
vzip.u16    out0, out1  /* everything is in place */
.endm

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1.202 python 2.7.9 :r1.4
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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
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All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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1.205 python-pam 0.1.4 :r0

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from setuptools import setup, find_packages
import sys, os

version = '0.1.4'

setup(name='pam',
      version=version,
      description="PAM interface using ctypes",
      long_description="")
An interface to the Pluggable Authentication Modules (PAM) library on linux, written in pure python (using ctypes). classifiers=["Development Status :: 3 - Alpha",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: MIT License",
    "Operating System :: POSIX :: Linux",
    "Operating System :: MacOS :: MacOS X",
    "Programming Language :: Python",
    "Topic :: Software Development :: Libraries :: Python Modules",
    "Topic :: System :: Systems Administration :: Authentication/Directory"
],
keywords='',
author='Chris AtLee',
author_email='chris@atlee.ca',
url='http://atlee.ca/software/pam',
download_url = "http://atlee.ca/software/pam/dist/%s" % version,
license='MIT',
py_modules=["pam"],
zip_safe=True,
install_requires=[],
entry_points=""
#
" Entry points: "")

1.206 python-psutil 2.2.1 :r0
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1.207 python-pyudev 0.16.1 :r0

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Version 2.1, February 1999

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1.208 python-pyyaml 3.11 :r0
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1.209 python-smartpm 1.5+git0+407a7eca76 :r0.4
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Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void)
 {
     if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+        if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+            x86emu_dump_xregs();
+        } else {
+            x86emu_dump_regs();
+        }
+    }
+
x86emu_dump_regs();
+}
}
if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
- printk("%-20s",buf1);
+ printk("%-20s ",buf1);
}
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;

Open Source Used In IoT 15.9(3)M

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+}
+
+void x86emuOp2_bswap(u8 op2)
+
+ /* byte swap 32 bit register */
+ START_OF_INSTR();
+ DECODE_PRINTF("BSWAP\t");
+ switch (op2) {
+ case 0xc8:
+ DECODE_PRINTF("EAX\n");
+ M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+ break;
+ case 0xc9:
+ DECODE_PRINTF("ECX\n");
+ M.x86.R(ECX = x86emu_bswap(M.x86.R_ECX);
+ break;
+ case 0xca:
+ DECODE_PRINTF("EDX\n");
+ M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+ break;
+ case 0xcb:
+ DECODE_PRINTF("EBX\n");
+ M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+ break;
+ case 0xcc:
+ DECODE_PRINTF("ESP\n");
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+ break;
+ case 0xcd:
+ DECODE_PRINTF("EBP\n");
+ M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+ break;
+ case 0xce:
+ DECODE_PRINTF("ESI\n");
+ M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+ break;
+ case 0xcf:
+ DECODE_PRINTF("EDI\n");
+ M.x86.REDI = x86emu_bswap(M.x86.REDI);
+ break;
+ }
+ TRACE_AND_STEP();
+ DECODE_CLEAR_SEG_OVR();
+ END_OF_INSTR();
}
/* 0xc7 */ x86emuOp2_illegal_op,
/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc8 */ x86emuOp2_bswap,
/* 0xc9 */ x86emuOp2_bswap,
/* 0xca */ x86emuOp2_bswap,
/* 0xcb */ x86emuOp2_bswap,
/* 0xcc */ x86emuOp2_bswap,
/* 0xcd */ x86emuOp2_bswap,
/* 0xce */ x86emuOp2_bswap,
/* 0xcf */ x86emuOp2_bswap,
/* 0xd0 */ x86emuOp2_illegal_op,
/* 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
   imm = (s8)fetch_byte_imm();
   DECODE_PRINTF2("PUSH\t%d\n", imm);
   TRACE_AND_STEP();
-  push_word(imm);
+  if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+      push_long(imm);
+  } else {
+      push_word(imm);
+  }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
   target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-  if (cond)
+  if (cond) {
      M.x86.R_IP = target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    if (M.x86.R_CX)
        /* move them until CX is ZERO. */
        count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    +count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
    +M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    -/* move them until CX is ZERO. */
    -count = M.x86.R_CX;
    /* move them until (E)CX is ZERO. */
    +count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
+if (M.x86.mode & SYSMODE_32BIT_REP)
    +M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} while (count--) {
store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
M.x86.R_SI += inc;
M.x86.R_DI += inc;
+if (M.x86.intr & INTR_HALTED)
        break;
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    // REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val1 = fetch_data_byte(M.x86.R_SI);
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(val1, val2);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        +                M.x86.R_ECX -= 1;
        + else
        +                M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_DATA) )
            break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) )
            break;
        + if (M.x86.intr & INTR_HALTED)
        +                break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    @@ -2644,8 +2663,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        // REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        } else {
            val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
        }
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        +                M.x86.R_ECX -= 1;
        + else
        +                M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
    }
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+  if (M.x86.intr & INTR_HALT)
+    break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2741,11 +2765,16 @@
TRACE_AND_STEP();
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
 /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
+ /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
  store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
- M.x86.R_CX -= 1;
+ M.x86.R_ECX -= 1;
+   else
+     M.x86.R_CX -= 1;
M.x86.R_DI += inc;
+   if (M.x86.intr & INTR_HALT)
+     break;
}
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
  count = 1;
  if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
+ /* dont care whether REPE or REPNE */
- /* move them until CX is ZERO. */
- count = M.x86.R_CX;
+ /* move them until (E)CX is ZERO. */
+ count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
M.x86.R_CX = 0;
+   if (M.x86.mode & SYSMODE_32BIT_REP)
+      M.x86.R_ECX = 0;
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2795,6 +2826,8 @@
  store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
}
M.x86.R_DI += inc;
+ if (M.x86.intr & INTR_HALT)
+   break;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

@@ -2817,11 +2850,16 @@
    inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
-               M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-               M.x86.R_CX -= 1;
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+               M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
+               if (M.x86.mode & SYSMODE_32BIT_REP)
+                   M.x86.R_ECX -= 1;
+               else
+                   M.x86.R_CX -= 1;
+               M.x86.R_SI += inc;
+               if (M.x86.intr & INTR_HALTED)
+                   break;
+       }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2859,9 +2897,11 @@
        count = 1;
        if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
-           /* move them until CX is ZERO. */
-           count = M.x86.R_CX;
-           while (count--) {
+           /* move them until (E)CX is ZERO. */
+           count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+           while (count--) {
+               count -= 1;
+               if (M.x86.intr & INTR_HALTED)
+                   break;
+           }
            M.x86.R_CX = 0;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX = 0;
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        }
    while (count--) {
@@ -2871,6 +2911,8 @@
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
+   if (M.x86.intr & INTR_HALTED)
+       break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        + M.x86.R_ECX -= 1;
        + else
        + M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
        + if (M.x86.intr & INTR_HALTED)
        + break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        + M.x86.R_ECX -= 1;
        + else
        + M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
            break; /* zero flag set means equal */
        + if (M.x86.intr & INTR_HALTED)
        + break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    @@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
    }
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
    }
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_word(M.x86.R_AX, (u16)val);
    }
    M.x86.R_CX -= 1;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX -= 1;
    else
        M.x86.R_CX -= 1;
    M.x86.R_DI += inc;
    if (ACCESS_FLAG(F_ZF) == 0)
        break;
    if (M.x86.intr & INTR_HALTED)
        break;
}
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
        }
        M.x86.R_CX -= 1;
        if (M.x86.mode & SYSMODE_32BIT_REP)
            M.x86.R_ECX -= 1;
        else
            M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
            break;
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else {
    DECODE_PRINTF("RET\t");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
  
  START_OF_INSTR();
  DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
  TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
  +RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
  
@@ -3471,10 +3533,10 @@
DECODE_PRINTF("RETF\n");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
  
  START_OF_INSTR();
  DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
  TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
  M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
  
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)      /* CX != 0 */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x
", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)      /* CX != 0 */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    ip += (s16) M.x86.R_IP;
    DECODE_PRINTF2("%04x
", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0)      /* CX != 0 */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.R_ECX -= 1;
+ else
+    M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x
", target);
    TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
-    M.x86.R_IP = target;
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+ } 
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:\", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,14 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+    M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;

case 4:     /* jmp word ptr */
            destval = fetch_data_word(destoffset);
            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
            TRACE_AND_STEP();
            M.x86.R_IP = destval;
            break;

case 5:     /* jmp far ptr */
            destval = fetch_data_word(destoffset);
            destval2 = fetch_data_word(destoffset + 2);
            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
            TRACE_AND_STEP();
            M.x86.R_IP = destval;
            M.x86.R_CS = destval2;

Index: prim_ops.c

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c	7 Sep 2007 10:01:21 -0000	1.1
+++ prim_ops.c	16 Jan 2008 14:18:15 -0000	1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
    #ifdef  __HAS_LONG_LONG__
-        s64 res = (s64)d * (s64)s;
+        s64 res = (s32)d * (s64)(s32)s;
*res_lo = (u32)res;
*res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
    #ifdef  __HAS_LONG_LONG__
-        u64 res = (u32)M.x86.R_EAX * (u32)s;
+        u64 res = (u64)M.x86.R_EAX * s;
    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@}
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-            /* in until CX is ZERO. */
-            u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+            /* in until (E)CX is ZERO. */
+            u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
     M.x86.R_ECX : M.x86.R_CX);
while (count--) {
    single_in(size);
    M.x86.R_DI += inc;
}
M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* out until CX is ZERO. */
    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
        /* out until (E)CX is ZERO. */
        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
        M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
  DB(if (DEBUG_IO_TRACE()))
  printk("inb %#04x \n", addr);
  -return inb(addr);
  +return 0;
  }

/**************************************************************************
@@ -235,7 +230,7 @@
{
  DB(if (DEBUG_IO_TRACE()))
  printk("inw %#04x \n", addr);
  -return inw(addr);
  +return 0;
  }

/**************************************************************************
@@ -250,7 +245,7 @@
{
  DB(if (DEBUG_IO_TRACE()))
  printk("inl %#04x \n", addr);
  -return inl(addr);
  +return 0;
  }

/**************************************************************************
@@ -264,7 +259,6 @@
{
  DB(if (DEBUG_IO_TRACE()))
  printk("outb %#02x -> %#04x \n", val, addr);
  -outb(val, addr);
  return;
  }

@@ -279,7 +273,6 @@
{
  DB(if (DEBUG_IO_TRACE()))
  printk("outw %#04x -> %#04x \n", val, addr);
  -outw(val, addr);
  return;
  }

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE()))
  printk("outl %#08x -> %#04x \n", val, addr);)
void X86EMU_setMemBase(void *base, size_t size)
{
    M.mem_base = (unsigned long) base;
    M.mem_size = size;
}

Index: include/x86emu/debug.h

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@

#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H
/*---------------------- Macros and type definitions ----------------------*/
@@ -78,6 +76,8 @@
#define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
#define DEBUG_SYSINT()       0
#define DEBUG_TRACECALL()    0
#define DEBUG_TRACECALLREGS() 0
+#define DEBUG_TRACEJMP()   0
+#define DEBUG_TRACEJMPREGS() 0
#define DEBUG_SYS()          0
#define DEBUG_MEM_TRACE()    0
#define DEBUG_IO_TRACE()     0
@@ -169,14 +171,20 @@
x86emu_dump_regs();
if (DEBUG_TRACECALL())
   printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x);
+# define RETURN_TRACE(u,v)
   +# define RETURN_TRACE(u,v,w,x,s)
if (DEBUG_TRACECALLREGS())
x86emu_dump_regs();
if (DEBUG_TRACECALL())
   -printk("%04x:%04x: %s\n",u,v,n);
+   printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+   # define  JMP_TRACE(u,v,w,x,s)
+      if (DEBUG_TRACEJMPREGS())
+         x86emu_dump_regs();
+      if (DEBUG_TRACEJMP())
+         printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-# define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h	7 Sep 2007 10:01:21 -0000	1.1
+++ include/x86emu/regs.h	15 Jan 2008 13:46:40 -0000	1.4
@@ -231,6 +231,9 @@
     #define SYSMODE_PREFIX_REPNE 0x00000100
     #define SYSMODE_PREFIX_DATA 0x00000200
     #define SYSMODE_PREFIX_ADDR 0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+     #define SYSMODE_32BIT_REP 0x00000800
     #define SYSMODE_INTR_PENDING 0x10000000
     #define SYSMODE_EXTRN_INTR 0x20000000
     #define SYSMODE_HALTED 0x40000000
- SYSMODE_SEGOVR_GS      | 
- SYSMODE_SEGOVR_SS      | 
+ SYSMODE_PREFIX_DATA    | 
+ SYSMODE_PREFIX_ADDR    | 
     SYSMODE_PREFIX_DATA    | 
     SYSMODE_PREFIX_ADDR    | 
     SYSMODE_SEGOVR_GS      | 
     SYSMODE_SEGOVR_SS      | 
     SYSMODE_EXTRN_INTR     | 
     SYSMODE_HALTED         | 
     SYSMODE_INTR_PENDING   | 
     SYSMODE_EXTRN_INTR     | 
     SYSMODE_HALTED         | 

/*
 *include/x86emu/x86emu.h

 RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
 retrieving revision 1.1
 retrieving revision 1.3
 diff -u -u -r1.1 -r1.3
 --- include/x86emu/x86emu.h7 Sep 2007 10:01:21 -0000 1.1
 +++ include/x86emu/x86emu.h19 Oct 2007 08:42:15 -0000 1.3
 @@ -47,6 +47,7 @@
 #include <console.h>
 #define printk(x...) printk(BIOS_DEBUG, x)
 #else
+    int                         check;
+    volatile int                         debug;
  #ifdef DEBUG
-    int                         check;
+    int                         debug;
    #ifdef DEBUG

 void X86EMU_trace_regs(void);
 @@ -189,6 +181,8 @@
 #define DEBUG_TRACECALL_REGS_F  0x004000
 #define DEBUG_DECODE_NOPRINT_F  0x008000
 #define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F       0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
 #define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

 #define INTR_SYNCH 0x1
 #define INTR_ASYNCH 0x2
 */

 u32                         mode;
 volatile int                 intr; /* mask of pending interrupts */
 -    int                         debug;
+    int                         debug;
 #ifdef DEBUG
-    int                         check;
+    int                         check;
    u16                         saved_ip;
    u16                         saved_cs;
    int                         enc_pos;
 Index: include/x86emu/x86emu.h

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while
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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
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{ TARGET_FREEBSD_NR_fhstatts, "fhstatts", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,"%s", %#x, %d)", NULL, NULL },
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[ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL ],
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Author: Per Bothner

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1.214 rpm 5.4.14 :r0.6

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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I would like to thank the following people (in alphabetical order):

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If I’ve missed anyone, it’s due to oversight. Drop me a line and I’ll rectify the situation as quickly as possible.

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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS
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PCRE JUST-IN-TIME COMPILATION SUPPORT

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THE C++ WRAPPER FUNCTIONS

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==========
Test 1.1:101
==========

Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
e1_l1_7
e1_l1_8
e1_l1_8
e1_l1_9
e1_l1_9
e1_l1_10
e1_l1_10
e1_l1_11
e1_l1_11
e1_l1_12
e1_l1_12
e1_l1_13
e1_l1_13
e1_l1_14
e1_l1_14
Test 1.2:102

==============
e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
ne1_l1_11
e1_l1_12
e1_l1_13
e1_l1_14

==============
Test 1.3:103

==============
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
e1_l1_7
e1_l1_8
e1_l1_8
e1_l1_9
e1_l1_9
e1_l1_10
e1_l1_10
e1_l1_11
e1_l1_11
e1_l1_12
e1_l1_12
e1_l1_13
e1_l1_13
e1_11_14
e1_11_14

==============
Test 1.4:104
==============
e1_11_1
e1_11_2
e1_11_3
e1_11_4
e1_11_5
e1_11_6
e1_11_7
e1_11_8
e1_11_9
e1_11_10
e1_11_11
e1_11_12
e1_11_13
e1_11_14
Second type

==============
Test 1.4.1:105
==============
l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

==============
Test 1.5:106
==============
s1_l1_1
s1_l1_1
s1_l1_2
s1_l1_2
s1_l1_3
Test 1.6:107
Test 1.7: 108

Test 1.8: 109
Test 1.9:110

Test 1.10:111
s1_l1_4
s1_l1_5
s1_l1_6
s1_l1_7
s1_l1_8
s1_l1_9
s1_l1_10
s1_l1_11
s1_l1_12
s1_l1_13
s1_l1_14

==============
Test 1.11:112
==============
e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
e1_l1_11
e1_l1_12
e1_l1_13
e1_l1_14

==============
Test 1.12:113
==============
e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
e1_l1_11
e1_l1_12
e1_l1_13
e1_l1_14
Test 1.13:114

--------------
e1_l1_1
e2_e1_l1_1
e2_e1_l1_1
e1_l1_2
e2_e1_l1_2
e2_e1_l1_2
e1_l1_3
e2_e1_l1_3
e2_e1_l1_3
e1_l1_4
e2_e1_l1_4
e2_e1_l1_4
e1_l1_5
e2_e1_l1_5
e2_e1_l1_5
e1_l1_6
e2_e1_l1_6
e2_e1_l1_6
e1_l1_7
e2_e1_l1_7
e2_e1_l1_7
e1_l1_8
e2_e1_l1_8
e2_e1_l1_8
e1_l1_9
e2_e1_l1_9
e2_e1_l1_9
e1_l1_10
e2_e1_l1_10
e2_e1_l1_10
e1_l1_11
e2_e1_l1_11
e2_e1_l1_11
e1_l1_12
e2_e1_l1_12
e2_e1_l1_12
e1_l1_13
e2_e1_l1_13
e2_e1_l1_13
e1_l1_14
e2_e1_l1_14
e2_e1_l1_14

--------------
Test 1.14:115
s1_l1_1
s2_s1_l1_1
s2_s1_l1_1
s1_l1_2
s2_s1_l1_2
s2_s1_l1_2
s1_l1_3
s2_s1_l1_3
s2_s1_l1_3
s1_l1_4
s2_s1_l1_4
s2_s1_l1_4
s1_l1_5
s2_s1_l1_5
s2_s1_l1_5
s1_l1_6
s2_s1_l1_6
s2_s1_l1_6
s1_l1_7
s2_s1_l1_7
s2_s1_l1_7
s1_l1_8
s2_s1_l1_8
s2_s1_l1_8
s1_l1_9
s2_s1_l1_9
s2_s1_l1_9
s1_l1_10
s2_s1_l1_10
s2_s1_l1_10
s1_l1_11
s2_s1_l1_11
s2_s1_l1_11
s1_l1_12
s2_s1_l1_12
s2_s1_l1_12
s1_l1_13
s2_s1_l1_13
s2_s1_l1_13
s1_l1_14
s2_s1_l1_14
s2_s1_l1_14

=============  
Test 1.15:116

=============  
e1_l1_1
Test 1.16:117

=============
Testing address ranges

=======
Test 2.1:120
=======
11_4

=======
Test 2.2:121
=======
12_6

=======
Test 2.3:122
=======
11_14

=======
Test 2.4:123
=======
12_9

=======
Test 2.5:124
=======

=======
Test 2.6:125
=======
12_9

=======
Test 2.7:126
=======

=======
Test 2.9:127
=======
11_7
Test 2.10:128

11_7

Test 2.11:129

11_7

Test 2.12:130

11_1
11_2
11_3
11_4

Test 2.13:131

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

Test 2.14:132

11_1
Test 2.15:133

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

Test 2.15:133
Test 2.16:134
-------------
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6

-------------
Test 2.17:135
-------------
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

-------------
Test 2.18:136
-------------
12_3
12_4
12_5
12_6
12_7
12_8
12_9

=============
Test 2.19:137
=============
11_12

=============
Test 2.20:138
=============
11_7
Brace and other grouping

=============
Test 3.1:139
=============
11_1
11_2
11_3
^11T4$
^11T5$
^11T6$
^11T7$
^11T8$
^11T9$
^11T10$
^11T11$
^11T12$
11_13
11_14

============= Test 3.2:140
=============
11_1
11_2
11_3
^11_4
^11_5
^11_6$
^11_7$
^11T8$
^11_9$
^11_10$
^11_11
^11_12
Test 3.3:141

^l1T1$
^l1T2$
^l1T3$
l_1_4
l_1_5
l_1_6
l_1_7
l_1_8
l_1_9
l_1_10
l_1_11
l_1_12
^l1T13$
^l1T14$

Test 3.4:142

^l1_1
^l1_2
^l1_3
l_1_4
l_1_5
l_1_6
l_1_7
l_1_8
l_1_9
l_1_10
l_1_11
l_1_12
^l1_13
^l1_14
Testing a c d and i commands

Test 4.1:143

before_i1_1
after_i1_1
before_i1_2
after_i1_2
before_i1_3
Test 4.2:144

before_al1_1
after_abefore_al1_1

before_il1_3
after_ibefore_il1_3
before_il1_4
after_ibefore_il1_4
before_il1_5
after_ibefore_il1_5
before_il1_6
after_ibefore_il1_6
before_il1_7
after_ibefore_il1_7
before_il1_8
after_ibefore_il1_8
before_il1_9
after_ibbefore_il1_9
before_il1_10
after_ibbefore_il1_10
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after_ibbefore_il1_11
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after_ibbefore_il2_4
before_il2_5
after_ibbefore_il2_5
before_il2_6
inserted
after_ibbefore_il2_6
before_il2_7
after_ibbefore_il2_7
before_il2_8
after_ibbefore_il2_8
before_il2_9
after_ibbefore_il2_9
before_al2_8
after_abefore_al2_8
before_al2_9
after_abefore_al2_9

============
Test 4.3:145
============
^\text{l1}_1$
\text{appended}
^\text{l1}_2$
\text{appended}
^\text{l1}_3$
\text{appended}
^\text{l1}_4$
\text{appended}
^\text{l1}_5$
\text{appended}
^\text{l1}_6$
\text{appended}
^\text{l1}_7$
\text{appended}
^\text{l1}_8$
\text{appended}
^\text{l1}_9$
\text{appended}
^\text{l1}_10$
\text{appended}
^\text{l1}_11$
\text{appended}
^\text{l1}_12$
\text{appended}
^\text{l1}_13$
\text{appended}
^\text{l1}_14$
\text{appended}
^\text{l2}_1$
\text{appended}
Test 4.4:146

hello

Test 4.5:147

hello

Test 4.6:148

hello

Test 4.7:149

hello
hello

Test 4.8:150

Testing labels and branching

Test 5.1:151

label2_l1_1
label3_label2_l1_1
label1_l1_2
label1_l1_3
label1_l1_4
label1_l1_5
label1_l1_6
label1_l1_7
label1_l1_8
label1_l1_9
label1_l1_10
label1_l1_11
label1_l1_12
label2_l1_13
label3_label2_l1_13
label2_l1_14
label3_label2_l1_14

Test 5.2:152

tested l2_1
tested l2_2
tested l2_3
tested l2_4
tested l2_5
tested l2_6
tested l2_7
tested l2_8
tested l2_9
tested l2_10
tested l2_11
tested l2_12
tested l2_13
tested l2_14

Test 5.3:153
11_5

=================
Test 5.7:157
=================
11_1
11_2
11_3
11_4
hello
11_5

=================
Test 5.8:158
=================
m1_1
m1_2
m1_3
m1_4
m1_5
m1_6
m1_7
m1_8
m1_9
m1_10
m1_11
m1_12
m1_13
m1_14
Pattern space commands

=================
Test 6.1:159
=================
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
changed
Test 6.2: 160

------------------
11_1
11_2
11_3
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

------------------
Test 6.3: 161

------------------
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

------------------
Test 6.4: 162

------------------
11_1
11_2
11_3
11_2
11_3
11_5
11_2
11_3
11_2
11_3
11_6
11_6
11_7
Test 6.5:163

Test 6.6:164

Testing print and file routines

Test 7.1:165
Test 7.2:166

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
15
12_1
16
12_2
17
12_3
18
12_4
19
12_5
20
12_6
21
12_7
22
12_8
23
12_9

Test 7.3:167

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
Test 7.4:168

Test 7.5:169
Testing substitution commands
Test 8.2:173

Test 8.3:174

Test 8.4:175

11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

==========
Test 8.5:176
==========
11X1
11X2
11X3
11X4
11X5
11X6
11X7
11X8
11X9
11X10
11X11
11X12
11X13
11X14

==========
Test 8.6:177
==========
(0)(1)_(1)(1)
(0)(1)_(1)(2)
(0)(1)_(1)(3)
(0)(1)_(1)(4)
(0)(1)_(1)(5)
(0)(1)_(1)(6)
(0)(1)_(1)(7)
(0)(1)_(1)(8)
(0)(1)_(1)(9)
(0)(1)_(1)(1)(0)
(0)(1)_(1)(1)(1)
(0)(1)_(1)(1)(2)
(0)(1)_(1)(1)(3)
Test 8.7: 178

Test 8.8: 179

Test 8.9: 180
11_X0
11_X1
11_X2
11_X3
11_X4

=============
Test 8.11:182
=============  
IX_1
IX_2
IX_3
IX_4
IX_5
IX_6
IX_7
IX_8
IX_9
IX_10
IX_11
IX_12
IX_13
IX_14
s wfile results
IX_1
IX_2
IX_3
IX_4
IX_5
IX_6
IX_7
IX_8
IX_9
IX_10
IX_11
IX_12
IX_13
IX_14

=============
Test 8.12:183
=============  
IX_X
IX_X
IX_X
IX_X
IX_4
IX_5
IX_6
1X_7
1X_8
1X_9
1X_X0
1X_XX
1X_XX
1X_XX
1X_X4

===============
Test 8.13:184
===============
18_8
18_7
18_6
18_5
18_4
18_3
18_2
18_1
18_0
18_89
18_88
18_87
18_86
18_85

===============
Test 8.14:185
===============
18_8
18_7
18_6
18_5
18_4
18_3
18_2
18_1
18_0
18_89
18_88
18_87
18_86
18_85

===============
Test 8.15:186
===============

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This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software

Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init

The sysvinit package in Debian is maintained as an alioth project. The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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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>,
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This is the Debian GNU/Linux prepackaged version of System V Init.

Init was written by Miquel van Smoorenburg <miquels@cistron.nl>.

This package was first put together by Bruce Perens <Bruce@Pixar.com> from pre-distribution sources. Ian Murdock <imurdock@debian.org> integrated it into the base system maintained it until the end of 1995. Miquel van Smoorenburg <miquels@cistron.nl> implemented Debian support. In version 2.85 the package was split into three (sysvinit, sysv-rc, and initscripts) in order to make room for alternative rc mechanisms.

The upstream source is available at:

Primary-Site:   ftp.cistron.nl /pub/people/miquels/software
29K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
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The sysvinit package in Debian is maintained as an alioth project. The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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1.229 tcp-wrappers 7.6 :r10

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1.231 tunctl 1.5 :r0
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/* Copyright 2002 Jeff Dike
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*/

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <errno.h>
#include <fcntl.h>
#include <unistd.h>
#include <pwd.h>
#include <grp.h>
#include <net/if.h>
#include <sys/ioctl.h>
#include <linux/if_tun.h>

/* TUNSETGROUP appeared in 2.6.23 */
ifndef TUNSETGROUP
#define TUNSETGROUP _IOW('T', 206, int)
#endif

static void Usage(char *name)
{
    fprintf(stderr, "Create: %s [-b] [-u owner] [-g group] [-t device-name] 
    [-p|-n] [-f tun-clone-device]\n", name);
    fprintf(stderr, "Delete: %s -d device-name [-f tun-clone-device]\n\n", name);
    fprintf(stderr, "The default tun clone device is /dev/net/tun - some systems" 
    " use\n/dev/misc/net/tun instead\n\n");
    fprintf(stderr, "-b will result in brief output (just the device name)\n");
    fprintf(stderr, "-n will result in a point-to-point tun device.\n"");
    fprintf(stderr, "-p in an ethernet tap device. Default is a tap,\n"");
    fprintf(stderr, " except the device contains \"tun\" in the name.\n");
    exit(1);
}

int main(int argc, char **argv)
{
    struct ifreq ifr;
    struct passwd *pw;
    struct group *gr;
    uid_t owner = -1;
    gid_t group = -1;
    int tap_fd, opt, delete = 0, brief = 0, type = 0;
    char *tun = "", *file = "/dev/net/tun", *name = argv[0], *end;

    while((opt = getopt(argc, argv, "bd:f:npt:u:g:h")) > 0){
        switch(opt) {
            case 'b':
                brief = 1;
                break;
            case 'd':
                delete = 1;
                tun = optarg;
                break;
            case 'n':
                if(type != 0)
                    Usage(name);
                type = IFF_TAP;
                break;
            case 't':
                if(type != 0)
                    Usage(name);
                break;
            case 'p':
                if(type != 0)
                    Usage(name);
                break;
        }
    }
}
type = IFF_TUN;
break;
case 'u':
pw = getpwnam(optarg);
if(pw != NULL){
    owner = pw->pw_uid;
    break;
}
    owner = strtol(optarg, &end, 0);
if(*end != \0){
    fprintf(stderr, "%s is neither a username nor a numeric uid.\n", optarg);
    Usage(name);
} 
    break;
case 'g':
gr = getgrnam(optarg);
if(gr != NULL){
    group = gr->gr_gid;
    break;
}
    group = strtol(optarg, &end, 0);
if(*end != \0){
    fprintf(stderr, "%s is neither a groupname nor a numeric group.\n", optarg);
    Usage(name);
} 
    break;

case 't':
tun = optarg;
break;
case '?':
case 'h':
default:
    Usage(name);
}
argv += optind;
argc -= optind;

if(argc > 0)
    Usage(name);

if((tap_fd = open(file, O_RDWR)) < 0){
    fprintf(stderr, "Failed to open '%s' : ", file);
    perror(""");
exit(1);
}

if(type == 0) {
    type = strstr(tun, "tun") ? IFF_TUN : IFF_TAP;
}

memset(&ifr, 0, sizeof(ifr));

ifr.ifr_flags = type | IFF_NO_PI;
strncpy(ifr.ifr_name, tun, sizeof(ifr.ifr_name) - 1);
if(ioctl(tap_fd, TUNSETIFF, (void *) &ifr) < 0){
    perror("TUNSETIFF");
    exit(1);
}

if(delete){
    if(ioctl(tap_fd, TUNSETPERSIST, 0) < 0){
        perror("disabling TUNSETPERSIST");
        exit(1);
    }
    printf("Set '%s' nonpersistent\n", ifr.ifr_name);
}
else {
    /* emulate behaviour prior to TUNSETGROUP */
    if(owner == -1 && group == -1) {
        owner = geteuid();
    }
    if(owner != -1) {
        if(ioctl(tap_fd, TUNSETOWNER, owner) < 0){
            perror("TUNSETOWNER");
            exit(1);
        }
    }
    if(group != -1) {
        if(ioctl(tap_fd, TUNSETGROUP, group) < 0){
            perror("TUNSETGROUP");
            exit(1);
        }
    }
    if(ioctl(tap_fd, TUNSETPERSIST, 1) < 0){
        perror("enabling TUNSETPERSIST");
        exit(1);
    }
}

if(brief)
printf("%s\n", ifr.ifr_name);
else {
    printf("Set '%s' persistent and owned by", ifr.ifr_name);
    if(owner != -1)
        printf(" uid %d", owner);
    if(group != -1)
        printf(" gid %d", group);
    printf("\n");
}
return(0);
}

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Version 2, June 1991

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1.235 update-rc.d 0.7 :r5
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#!/bin/sh
#
# update-rc.d Update the links in /etc/rc[0-9S].d/
#
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initd="/etc/init.d"
etcd="/etc/rc"
notreally=0
force=0
dostart=0
verbose=0

usage()
{
  cat >&2 <<EOF
  update-rc.d [-n] [-r <root>] [-s] <basename> defaults [NN | sNN kNN]
  update-rc.d [-n] [-r <root>] [-s] <basename> start|stop NN runlvl1 [runlvl1] [...].
  -n: not really
  -f: force
  -v: verbose
  -r: alternate root path (default is /)
  -s: invoke start methods if appropriate to current runlevel
  EOF
}

checklinks()
{
  local i dn fn remove=0
  if [ "x$1" = "xremove" ]; then
    echo " Removing any system startup links for $bn ...
  remove=1

for i in 0 1 2 3 4 5 6 7 8 9 S; do
dn="${etcd}$i.d"
if [ ! -d $dn ]; then
  continue;
fi
for f in ${dn}/[SK]?${bn}; do
  if [ -L $f ]; then
    if [ $remove -eq 0 ]; then
      return 1
    fi
  fi
  rm $f
done
dolink()
{
  startstop=$1
  lev=`echo $2 | cut -d/ -f1`
nn=`echo $2 | cut -d/ -f2`
  fn="${etcd}$lev.d/${startstop}${nn}${bn}"
  [ $verbose -eq 1 ] && echo "$fn -> ../init.d/$bn"
  if [ $notreally -eq 0 ]; then
    mkdir -p `dirname $fn`
    ln -s ../init.d/$bn $fn
  fi
  if [ $dostart -eq 1 ] && [ $startstop = "S" ] && [ $lev = $RUNLEVEL ]; then
    $fn start || true
  fi
}

makelinks()
{
  if ! checklinks; then
    echo " System startup links for $initd/$bn already exist."
  fi
  if [ $dostart -eq 1 ] && [ $notreally -eq 0 ] && [ -L ${etcd}${RUNLEVEL}.d/S??${bn} ]; then
    $fn restart || true
  fi
}

return 0
}
echo "Adding system startup for $initd/$bn."

for i in $startlinks; do
dolink S $i
done
for i in $stoplinks; do
dolink K $i
done
}

while [ $# -gt 0 ]; do
  case $1 in
    -n)
      notreally=1
      shift
      continue
      ;;
    -v)
      verbose=1
      shift
      continue
      ;;
    -f)
      force=1
      shift
      continue
      ;;
    -s)
      dostart=1
      shift
      continue
      ;;
    -r)
      shift
      root=$1
      initd="$root$initd"
      etcd="$root$etcd"
      shift
      ;;
    -h | --help)
      usage
      exit 0
      ;;
    -*)
      usage
      exit 1
      ;;
    *)
      break
      ;;
  esac
  esac
fi
bn=$1
shift

sn=$initd/$bn
if [-L "$sn" -a -n "$root" ]; then
if which readlink >/dev/null; then
while true; do
  linksn="$(readlink "$sn")"
  if [ -z "$linksn" ]; then
    break
  fi
  case "$linksn" in
  *) sn="$linksn" ;;
  *) sn="$initd/$bn" ;;
  esac
done
else
  echo "update-rc.d: readlink tool not present, cannot check whether \
$sn symlink points to a valid file." >&2
fi
fi

if [ $1 != "remove" ]; then
if [ ! -f "$sn" ]; then
  echo "update-rc.d: $initd/$bn: file does not exist" >&2
  exit 1
else
if [ -f "$sn" ]; then
  if [ $force -eq 1 ]; then
    echo "update-rc.d: $initd/$bn exists during rc.d purge (continuing)" >&2
  else
    echo "update-rc.d: $initd/$bn exists during rc.d purge (use -f to force)" >&2
    exit 1
  fi
fi
fi

if [ $dostart -eq 1 ]; then

#RUNLEVEL=`sed 's/.*\[\(.*\)\]\]\]\]*/ /proc/1/cmdline`
RUNLEVEL=`runlevel | cut -d" " -f2`
if [ "x$RUNLEVEL" = "x" ]; then
    echo "Unable to determine current runlevel" >&2
    exit 1
fi

if [ "$1" = "remove" ]; then
    checklinks "remove"
    ;;

(defaults)
if [ $# -gt 3 ]; then
    echo "defaults takes only one or two arguments" >&2
    usage
    exit 1
fi
start=20
stop=20
if [ $# -gt 1 ]; then
    start=$2
    stop=$2
    fi
if [ $# -gt 2 ]; then
    stop=$3
    fi
start=`printf %02d $start`
stop=`printf %02d $stop`
stoplinks="0/$stop 1/$stop 6/$stop"
startlinks="2/$start 3/$start 4/$start 5/$start"
makelinks
;;

start | stop)
while [ $# -gt 0 ]; do
    if [ $1 = "start" ]; then
        letter=S
    elif [ $1 = "stop" ]; then
        letter=K
    else
        echo "expected start or stop" >&2
        usage
        exit 1
    fi
    shift
    NN=`printf %02d $(expr $1 + 0)`
shift
while [ "x$1" != "x." ]; do
    if [ $# -eq 0 ]; then
        echo "action with list of runlevels not terminated by "." >&2
        exit 1
    fi
    level=$1
    shift
case $letter in
    S) startlinks="$startlinks $level/$NN" ;;
    K) stoplinks="$stoplinks $level/$NN" ;;
esac
done
shift
done
makelinks
;;

*)
usage
exit 1
;;
esac

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

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

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

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

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

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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

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

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1.240.1 Available under license:
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#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
size: 4456448, sector size: 512, PT: bsd, offset: 512
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#1: 7936 4864 0x7
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<bunk@stusta.de>.

The current maintainer is LaMont Jones <lamont@debian.org>.
See also: git://git.debian.org/~lamont/util-linux.git

It was downloaded from:

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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2ef9 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout----------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

---layout--------
Disk <removed>: 10 MiB, 10485760 bytes, 20480 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: dos
Disk identifier: <removed>

Device Boot Start End Sectors Size Id Type
<removed>1 2048 4095 2048 1M 83 Linux
<removed>2 4096 20479 16384 8M a5 FreeBSD
-------------------

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

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

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors
Geometry: 255 heads, 63 sectors/track, 1 cylinders
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: bsd
partitions: 4

Slice Start End Sectors Size Type Fsize Bsize Cpg
c 4096 20479 16384 8M unused 0 0 0
d 0 16064 16065 7.9M unused 0 0 0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
---layout-------

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

Command (m for help): Entering nested BSD disklabel.

Command (m for help): Disk <removed>2: 10 MiB, 10485760 bytes, 20480 sectors  
Geometry: 255 heads, 63 sectors/track, 1 cylinders  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: bsd  
partitions: 4

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>4096</td>
<td>6144</td>
<td>2049</td>
<td>1M</td>
<td>BSD</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16385</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16065</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

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

Command (m for help): Entering nested BSD disklabel.

Command (m for help):

| 0     | unused | 5     | 4.1BSD | 9 | 4.4LFS | d | boot |
| 1     | swap   | 6     | Eighth Edition | a | unknown | e | ADOS |
| 2     | Version 6 | 7   | 4.2BSD | b | HPFS  | f | HFS  |
| 3     | Version 7 | 8   | MS-DOS  | c | ISO-9660 | 10 | AdvFS |
| 4     | System V | | | | | | |
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To: Jonathan Nieder <jrnieder@gmail.com>
Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

[..]

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1.247 zlib1g 1:1.2.3.4.dfsg-3ubuntu1

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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
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