Open Source Used In the IR800 Series Release 15.7(3)M2

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```
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```

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```
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### 1.4 adduser 3.112ubuntu1

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1.5 apt 0.8.3ubuntu7
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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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changes were used in the work (which must be distributed under
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with the Library, with the complete machine-readable "work that
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copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.9 base-files 5.0.0ubuntu23

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.10 base-files 3.0.14 :r89.1

1.10.1 Available under license:

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

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

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

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
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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
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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If I've missed anyone, it's due to oversight. Drop me a line and I'll
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1.17 bsdutils 1:2.17.2-0ubuntu1

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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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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:
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This is libblkid, previously part of e2fsprogs this is now part of util-linux-ng and has thus moved to the util-linux Debian source package.

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

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1.26 coreutils 8.5-1ubuntu3

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1.29 cron 3.0pl1-114ubuntu1

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 *
* "BTW, I would have rejected the name Story Server because its
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* 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 *)

#ifdef __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 *);
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;
#endif /* _ss_h */
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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:$($(BSDLIB_LIB))

$(BSDLIB_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSDLIB_LIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$(BSDLIB_LIB) .
$(RM) -f ../$(BSDLIB_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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Theodore Ts'o
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Upstream Authors:

Eric Cooper <ecc@cmu.edu>
Ben Armstrong <synrg@sanctuary.nslug.ns.ca>
Nico Golde <nion@debian.org>
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1.49 elfutils 0.163 :r0.1

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Upstream Authors:
* GNU find was written by Eric Decker <cire@cisco.com>, with enhancements by David MacKenzie <djm@gnu.org>, Jay Plett <jay@silence.princeton.nj.us>, and Tim Wood <axolotl!tim@toad.com>.
The idea for -print0 and xargs -0 came from Dan Bernstein <brnstnd@kramden.acf.nyu.edu>.
Improvements have been made by James Youngman <jay@gnu.org>.

* GNU xargs
was originally written by Mike Rendell, with enhancements by David
MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally
written by James Woods, with enhancements by David MacKenzie, James Youngman
and Bas van Gompel.

Upstream's AUTHORS lists these major contributors:
Eric B. Decker
Michael Rendell
David J. MacKenzie
Jim Meyering
Tim Wood
Kevin Dalley <kevind@rahul.net>
Paul Eggert <eggert@cs.ucla.edu>
James Youngman <jay@gnu.org>
Jay Plett
Paul Sheer
Dmitry V. Levin
Bas van Gompel
Eric Blake <ebb9@byu.net>

Current upstream maintainer is James Youngman <jay@gnu.org>.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object
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**1.57 glib-2.0 2.44.1 :r0.1**

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OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.
/*****************************************************************************/
*                  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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POSSIBILITY OF SUCH DAMAGE.
***************************************************************************/

/#ifndef _PCRE_H
#define _PCRE_H

/#ifndef _PCRE_H
#define _PCRE_H

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699
/* The current PCRE version information. */

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

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

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

/* Have to include stdlib.h in order to ensure that size_t is defined;
it is needed here for malloc. */
/* 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_RECURSE (-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_RECURSELOOP (-26)
# define PCRE_ERROR_JIT_STACKLIMIT (-27)
# define PCRE_ERROR_BADMODE (-28)
# define PCRE_ERROR_BADENDIANNESS (-29)
# define PCRE_ERROR_DFA_BADRESTART (-30)

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

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

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

/* Request types for pcre_fullinfo() */

#define PCRE_INFO_OPTIONS            0
#define PCRE_INFO_SIZE               1
#define PCRE_INFO_CAPTURECOUNT       2
#define PCRE_INFO_BACKREFMAX         3
#define PCRE_INFO_FIRSTBYTE          4
#define PCRE_INFO_FIRSTCHAR          4  /* For backwards compatibility */
#define PCRE_INFO_FIRSTTABLE         5
#define PCRE_INFO_LASTLITERAL        6
#define PCRE_INFO_NAMEENTRYSIZE      7
#define PCRE_INFO_NAMECOUNT          8
#define PCRE_INFO_NAMETABLE          9
#define PCRE_INFO_STUDYSIZE         10
#define PCRE_INFO_DEFAULT_TABLES    11
#define PCRE_INFO_OKPARTIAL         12
```
#define PCRE_INFO_JCHANGED 13
#define PCRE_INFO_HASCRORLF 14
#define PCRE_INFO_MINLENGTH 15
#define PCRE_INFO_JIT 16
#define PCRE_INFO_JITSIZE 17
#define PCRE_INFO_MAXLOOKBEHIND 18

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

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

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

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

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

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

/* Types */

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

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

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

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

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

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

/* 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. */
typedef struct pcre_extra {
    unsigned long int flags; /* Bits for which fields are set */
    void *study_data; /* Opaque data from pcre_study() */
    unsigned long int match_limit; /* Maximum number of calls to match() */
    void *callout_data; /* Data passed back in callouts */
    const unsigned char *tables; /* Pointer to character tables */
    unsigned long int match_limit_recursion; /* Max recursive calls to match() */
    unsigned char **mark; /* For passing back a mark pointer */
    void *executable_jit; /* Contains a pointer to a compiled jit code */
} pcre_extra;

typedef 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 */
const PCRE_UCHAR16 *mark;  /* Pointer to current mark or NULL  */

/* 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_EXPDECL int *(pcre_callout)(pcre_callout_block *);

PCRE_EXPDECL void *(pcre16_malloc)(size_t);
PCRE_EXPDECL void *(pcre16_free)(void *);
PCRE_EXPDECL void *(pcre16_stack_malloc)(size_t);
PCRE_EXPDECL void *(pcre16_stack_free)(void *);
PCRE_EXPDECL int *(pcre16_callout)(pcre16_callout_block *);
#else   /* VPCOMPAT */
PCRE_EXPDECL void *pcre_malloc(size_t);
PCRE_EXPDECL void *pcre_free(void *);
PCRE_EXPDECL void *pcre_stack_malloc(size_t);
PCRE_EXPDECL void *pcre_stack_free(void *);
PCRE_EXPDECL 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_EXPDECL pcre *pcre_compile(const char *, int, const char **, int *,
const unsigned char *);
PCRE_EXPDECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **, int *, const unsigned char *);
PCRE_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);
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 */

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End

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1.59 gnutls 3.3.17.1 :r0

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Authors: Adam Conrad <adconrad@ubuntu.com>,
        Ben Collins <bcollins@ubuntu.com>,
        David Hrdeman <david@hardeman.nu>,
        Jeff Bailey <jbailey@ubuntu.com>,
        maximilian attems <maks@debian.org>,
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Authors: Adam Conrad <adconrad@ubuntu.com>,
        Ben Collins <bcollins@ubuntu.com>,
        David Hrdeman <david@hardeman.nu>,
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This package was first put together by Bruce Perens <Bruce@Pixar.com>
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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,
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The upstream source is available at:

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1.75 kbd 1.15-1ubuntu3
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# 0 leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x%d

# PC Screen (console) Fonts - psf2 header
#
0 lelong 0x864ab572 psf2 screen font data
>12lelong&1 with Unicode index
>16lelongxb, %d glyphs
>28lelongxb, %dx
>24lelongxb%d

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man/man1/setmetamode.1, man/man8/getkeycodes.8, man/man8/loadunimap.8,
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1.76 klibc-utils 1.5.20-1

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size: 8388608, sector size: 512, PT: dos, offset: 446
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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
---
#1: 7936 4864 0x7
#2: 12544 3584 0x7

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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:
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This is libblkid, previously part of e2fsprogs this is now part of
util-linux-ng and has thus moved to the util-linux Debian source
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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.

--

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

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**1.85 libc-bin 2.12.1-0ubuntu6**

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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.)

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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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1.90 libcgroup 0.41 :r0.3
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Description library. It is currently distributed together with the EXT2 file
system utilities, which are otherwise packaged as "e2fsprogs".
This package was put together by Yann Dirson <dirson@debian.org>,
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Theodore Ts'o
23-June-2007

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Because of this blurred distinction, using the ordinary General
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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
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image: $(BSD_LIB)

$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(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-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
-
- Copyright (C) Andrew Tridgell 2005
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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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_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
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lib/gssapi/mechglue/g_imp_sec_context.c
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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
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
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@vskip 12pt
The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `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
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
@end smallexample
```

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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@vskip 12pt
@hrule
@vskip 12pt
@end ifnextline

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lib/gss_mechs/mecg_krb5/et/kdb5_err.c

lib/gss_mechs/mecg_spnego/mech/gssapiP_spnego.h

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lib/krb5/kdb/kdb_hdr.h

lib/krb5/kdb/kdb_log.c

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lib/libgss/g_accept_sec_context.c

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lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
lib/libgss/g_export_name.c
lib/libgss/g_glue.c
lib/libgss/g_imp_name.c
lib/libgss/g_imp_sec_context.c
lib/libgss/g_init_sec_context.c
lib/libgss/g_initialize.c
lib/libgss/g_inquire_context.c
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1.103 libice 1.0.9 :r0

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
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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lib/krb5/os/hst Realm.c

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lib/gssapi/mechglue/g_accept_sec_context.c
@end smallexexample
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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
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cmd/krb5/kproplog/kproplog.c
cmd/krb5/kserv/kpropd_svc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/meth/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/meth/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
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1.105 libkeyutils1 1.4-1

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lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
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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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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
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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
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- lib/kdb/prop.h
- lib/kdb/kdb_convert.c
- lib/kdb/kdb_log.c
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lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
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lib/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
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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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lib/krb5/os/hst_realm.c

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 cmd/krb5/iprop/iprop_hdr.h
 cmd/krb5/kadmin/server/ipropd_svc.c
 cmd/krb5/kproplog/kproplog.c
 cmd/krb5/slave/kpropd_rpc.c
 lib/gss_mechs/mech_krb5/et/kdb5_err.c
 lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
 lib/gss_mechs/mech_spnego/mech/spnego_mech.c
 lib/krb5/kadm5/kadm_host_srv_names.c
 lib/krb5/kdb/kdb_convert.c
 lib/krb5/kdb/kdb_hdr.h
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lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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Name: XZ Utils
Maintainer: Lasse Collin <lasse.collin@tukaani.org>
Source: http://tukaani.org/xz
git://ctrl.tukaani.org/xz.git

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To: Jonathan Nieder <jrnieder@gmail.com>
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X-Authors: Bruno Haible
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and 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:

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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.

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

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

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1.114 libnih1 1.0.2-1ubuntu2
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c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based
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   c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, 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 executable. 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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convey the exclusion of warranty; and each file should have at least
the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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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:

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This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

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

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1.115 libnl 3.2.25 :r1
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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

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

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

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

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

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

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

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

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

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

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

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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
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of these things:

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

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

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

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

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

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1.116 libpam 1.2.1 :r5.3.1

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1.117 libpam-modules 1.1.1-4ubuntu1

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1.118 libpam-runtime 1.1.1-4ubuntu1

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1.119 libpam0g 1.1.1-4ubuntu1

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1.120 libpcap 1.6.2 :r0

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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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Email local part: ph10  
Email domain:     cam.ac.uk

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1.124 libpcre3 8.02-1

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1.125 libplymouth2 0.8.2-2ubuntu5

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Upstream Authors:

Chet Ramey <chet.ramey@case.edu>
Jeff Solomon <jsolomon@stanford.edu> (examples/excallback.c)
Harold Levy <Harold.Levy@synopsys.com> (examples/rl-fgets.c)
Juergen Weigert <jnweiger@immd4.informatik.uni-erlangen.de> (examples/rlfe)
Michael Schroeder <mlschroe@immd4.informatik.uni-erlangen.de> (examples/rlfe)
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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>
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<td>2176.00</td>
<td>5994.67</td>
<td>8079.73</td>
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<td>mdc2</td>
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<td>6122.67</td>
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<tr>
<td>md5</td>
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<td>209.66k</td>
<td>250.50k</td>
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<td>hmac(md5)</td>
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<td>des ede3</td>
<td>10.51k</td>
<td>10.94k</td>
<td>11.01k</td>
<td>11.01k</td>
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<td>26.74k</td>
<td>29.23k</td>
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<td>85.70k</td>
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<td>cast cbc</td>
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<td>50.01k</td>
<td>50.86k</td>
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<tr>
<td>sign</td>
<td>0.7738s</td>
<td>0.0774s</td>
<td>1.3</td>
<td>12.9</td>
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<tr>
<td>rsa 512 bits</td>
<td>4.3967s</td>
<td>0.2615s</td>
<td>0.2</td>
<td>3.8</td>
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<tr>
<td>rsa 1024 bits</td>
<td>29.5200s</td>
<td>0.9664s</td>
<td>0.0</td>
<td>1.0</td>
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<tr>
<td>dsa 512 bits</td>
<td>2.5375s</td>
<td>3.1625s</td>
<td>0.4</td>
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<tr>
<td>dsa 1024 bits</td>
<td>9.2150s</td>
<td>11.8200s</td>
<td>0.1</td>
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Pentium Pro 200mhz
FreeBSD 2.1.5
gcc 2.7.2.2

SSLeay 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.

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<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>
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<td>rc4</td>
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<td>3968.25k</td>
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<tr>
<td>des ede3</td>
<td>1442.98k</td>
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<td>1562.00k</td>
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<td>2195.69k</td>
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<td>2529.59k</td>
<td>2545.66k</td>
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</tr>
<tr>
<td>rc2 cbc</td>
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<td>833.52k</td>
<td>837.58k</td>
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<tr>
<td>blowfish cbc</td>
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<td>rsa 512 bits</td>
<td>0.010s</td>
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</tr>
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<td>rsa 2048 bits</td>
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<td>rsa 4096 bits</td>
<td>1.690s</td>
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1.137 libstdc++6 4.5.1-7ubuntu2

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Version 3, 29 June 2007


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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.
threshold for this to be true is not precisely defined by law.

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

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

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

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

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(For example, a function in a library to compute square roots has
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1.145 libuuid1 2.17.2-0ubuntu1

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

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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:
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1.149 libxau 1.0.8 :r0

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1.154 libyaml-perl 0.71-1

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The End

1.155 linux-firmware 1.38

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agere_sta_fw.bin -- 9.48 Hermes I
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Hope this helps.

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---
Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.

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Contributors to btvt:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@1xorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)
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for his LIRC infrared handler

Andreas Oberritter <ohi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
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for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

Oliver Endriss <o.endriss@gmx.de>
for many bugfixes

Andrew de Quincey <adq_dvb@lidskialf.net>
for the tda1004x frontend driver, and various bugfixes

Peter Schildmann <peter.schildmann@web.de>
for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>
Roberto Ragusa <r.ragusa@libero.it>
Augusto Cardoso <augusto@carhil.net>
for all the work for the FlexCopII chipset by B2C2,Inc.

Davor Emard <emard@softhome.net>
for his work on the budget drivers, the demux code,
the module unloading problems, ...

Hans-Frieder Vogt <hfvoigt@arcor.de>
for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

Michael Dreher <michael@5dot1.de>
Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>
Peter Beutner <p.beutner@gmx.net>
for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

Michael Krufty <mkrufty@m1k.net>
for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
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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Temple Place - Suite 330, Boston, MA 02111-1307, USA.
/* 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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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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

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

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

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

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

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would
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Steve Brown <sbrown@cortland.com>
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Christoph Martin <martin@uni-mainz.de>
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>
Dennis Noermann <dennis.noermann@noernet.de>
Felix Domke <tmbinc@elitedvb.net>
Florian Schirmer <jolt@tuxbox.org>
Ronny Strutz <3des@elitedvb.de>
Wolfram Joost <dbox2@frokaschwei.de>
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for the driver for the Technisat SkyStar2 PCI DVB card

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Michael Dreher <michael@5dot1.de>
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Kenneth Aafly <ke-aa@frisurf.no>
for adding support for Typhoon DVB-S budget card

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for the IR code for the ttusb-dec driver

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for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 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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Version 2, June 1991

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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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* GSS-API Programming Guide
* Part No: 816-1331-11
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Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
HMAC: Keyed-Hashing for Message Authentication

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1.166 makedev 2.3.1-89ubuntu1

1.166.1 Available under license:

This package is maintained for Debian by Bdale Garbee, <bdale@gag.com>.

It was downloaded from ftp.redhat.com, as a source .rpm from the 5.1 release.

Copyright:

No explicit copyright is asserted. Nick Holloway is the earliest author recorded in the sourcecode. 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 sourcecode. 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 needed to be made). However, it is intended to be used as anyone sees fit, and the statement under "Copying Policy" is "Freely Redistributable" (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

A complete copy of the GPL is provided on Debian systems in the file /usr/share/common-licenses/GPL.

1.167 mawk 1.3.3-15ubuntu2

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1.168 module-init-tools 3.12-1ubuntu2

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1.169 modutils-initscripts 1.0 :r7.1
1.169.1 Available under license :
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1.170 mount 2.17.2-0ubuntu1
1.170.1 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
BZh91AY&SYf"~@H R h%CFTC@OQ6_@
{TJmlAH1][F0HA]BAk@
BZh91AY&SY"hC+[H]yL*UT[JDCCMhd?TPJ
4b"LLLD3Mf0h
4JM&hC&A
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sUE)H:Eu:jGD;r
#XZ:J(9/1]jB)X(8Hxo<@>@]bdo:6BFJNRVZ"\8y
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y|{/^FH:ZaZ:Cv}BbaISISISISISB<A<8aU’17UUUU33333330ISISISPur88@>}"@ISISIS~M#:qr|x[[@jVZ:a
H-kFWULR&vL1;Hlz1p07R@mb’bIIE2m"DSyP(Ejwq_X5u fBgXH mr*)5’QndC.;,1Ju@@-h@@IC-1^A5a -
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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 is libblkid, previously part of e2fsprogs this is now part of
util-linux-ng and has thus moved to the util-linux Debian source
package.

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

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This is libuuid, previously part of e2fsprogs this is now part of
util-linux-ng and has thus moved to the util-linux Debian source
package.

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

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-- $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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This package is maintained for Debian by:
Bruce Walker <w1bw@debian.org>
Bdale Garbee <bdale@gag.com>
Matthias Urlichs <smurf@debian.org>
Peter Eisentraut <petere@debian.org>
Kurt Roeckx <kurt@roeckx.be>

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.
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   <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
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5. Jean-Francois Boudreault  
<Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
6. Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
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9. Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
11. Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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15. Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
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18. Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
19. Mike Iglesias <iglesias@uci.edu> DEC Alpha port
20. Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
21. Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
22. Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntpsweep
23. Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
24. Frank Kardel <kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
25. William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
26. Dave Katz <dkatz@cisco.com> RS/6000 AIX port
27. Craig Leres <1eres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
28. George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
29. Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
30. Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
31. Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
32. David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWV/H, IRIG
33. Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
34. Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
35. Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
36. Derek Mulcaby <derek@toybox.demon.co.uk> and Damon Hart-Davis
   <d@hd.org> ARCROM MSF clock driver
37. Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
38. Derek Mulcaby <derek@toybox.demon.co.uk> and Damon Hart-Davis
   <d@hd.org> ARCROM MSF clock driver
39. Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
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41. Derek Mulcaby <derek@toybox.demon.co.uk> and Damon Hart-Davis
   <d@hd.org> ARCROM MSF clock driver
42. Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
   monitoring/trap scripts, statistics file handling
43. Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
44. Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
45. Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
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49. Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
50. Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure
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51. Kenneth Stone <ken@sdd.hp.com> HP-UX port
52. Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
53. Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
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***********************************************************************

The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1] Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
2. [2] Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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8. [9] Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10] Piete Brooks <Piete.Brooks@el.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11] Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
11. [12] Steve Clift <clift@ml.csiro.au> OMEGA clock driver
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15. [16] Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
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17. [18] John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
18. [19] Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
19. [20] Mike Iglesias <iglesias@uci.edu> DEC Alpha port
20. [21] Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
21. [22] Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
22. [23] Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [24] H.Lambermont@chello.nl> ntpswep
23. [25] Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
24. [26] Frank Kardel <kardel (at) ntp (dot) org> PARSE <GENERIC> driver (>14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
25. [28] William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
26. [29] Dave Katz <dkatz@cisco.com> RS/6000 AIX port
27. [30] Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
28. [31] George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
29. [32] Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
30. [33] Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
31. [34] Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance
33. [36] Wolfgang Moeller <moeller@gwdg1.dnet.gwdg.de> VMS port
34. [37] Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
35. [38] Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
36. [39] Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
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38. [42] Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
39. [43] Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
40. [44] Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
41. [45] Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
42. [46] Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
43. [47] Ray Schnitzler <schnitz@unixpress.com> Unixware1 port
44. [48] Michael Shields <shields@tembel.org> USNO clock driver
45. [49] Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
46. [50] Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
47. [51] Kenneth Stone <ken@sdd.hp.com> HP-UX port
48. [52] Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
49. [53] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
50. [54] Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
51. [55] Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD
References

1. mailto:%20mark_andrews@isc.org
2. mailto:%20altmeier@atlsoft.de
3. mailto:%20vbais@mailman1.intel.co
4. mailto:%20kirkwood@striderfm.intel.com
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1.181 openssh 7.1p2 :r0.5.6

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*
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*
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1.182 openssh-client 1:5.5p1-4ubuntu4

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

It was packaged for Debian by Philip Hands <phil@hands.com>.

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The Debian specific parts of the package are mostly taken from the
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1.185 OpenSSL 1.0.2h :1

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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

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>
<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>
</tr>
<tr>
<td>md5</td>
<td>1924.98k</td>
<td>8293.50k</td>
<td>13464.41k</td>
<td>16010.39k</td>
<td>16820.68k</td>
</tr>
<tr>
<td>sha</td>
<td>1250.75k</td>
<td>5330.43k</td>
<td>8636.88k</td>
<td>10227.36k</td>
<td>10779.14k</td>
</tr>
<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</td>
<td>512 bits</td>
<td>0.010s</td>
<td>0.045s</td>
<td>0.260s</td>
<td>1.690s</td>
</tr>
<tr>
<td>rsa 1024 bits</td>
<td>0.010s</td>
<td>0.045s</td>
<td>0.260s</td>
<td>1.690s</td>
<td></td>
</tr>
<tr>
<td>rsa 2048 bits</td>
<td>0.260s</td>
<td>1.690s</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Motorola 68020 20mhz, NetBSD

SSLey 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>
<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>30.38k</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>
</tbody>
</table>
Open Source Used in Open Source Used in the IR800 Series 15.7(3)M2

<table>
<thead>
<tr>
<th>Algorithm</th>
<th>Sign</th>
<th>Verify</th>
<th>Sign/s</th>
<th>Verify/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDEA CBC</td>
<td></td>
<td></td>
<td>26.74k</td>
<td>29.23k</td>
</tr>
<tr>
<td>RC2 CBC</td>
<td></td>
<td></td>
<td>34.27k</td>
<td>39.39k</td>
</tr>
<tr>
<td>RC5-32/12 CBC</td>
<td></td>
<td></td>
<td>64.31k</td>
<td>83.18k</td>
</tr>
<tr>
<td>BLOWFISH CBC</td>
<td></td>
<td></td>
<td>48.68k</td>
<td>59.18k</td>
</tr>
<tr>
<td>CAST CBC</td>
<td></td>
<td></td>
<td>42.67k</td>
<td>50.01k</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Algorithm</th>
<th>RSA 512 Bits</th>
<th>RSA 1024 Bits</th>
<th>RSA 2048 Bits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sign/Verify</td>
<td>1.3s</td>
<td>1.0s</td>
<td>0.4s</td>
</tr>
<tr>
<td>Sign/Verify</td>
<td>0.0s</td>
<td>0.3s</td>
<td>0.1s</td>
</tr>
</tbody>
</table>

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**1.189 ossp-uuid 1.6.2 :r2**

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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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This file is part of OSSP uuid, a library for the generation of UUIDs which can found at http://www.ossp.org/pkg/lib/uuid/

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HOME AND DOCUMENTATION

The documentation and latest release can be found on

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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 SXX 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 [], 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
};

/* 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))

#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));
}
#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] = 0xefcdab89;
    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
```c
#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, 0xc1bdccee); /* 4 */
FF (a, b, c, d, x[ 4], S11, 0xf57c0fa0); /* 5 */
FF (d, a, b, c, x[ 5], S12, 0x47876c62a); /* 6 */
FF (c, d, a, b, x[ 6], S13, 0xa8304613); /* 7 */
FF (b, c, d, a, x[ 7], S14, 0xfd469501); /* 8 */
FF (a, b, c, d, x[ 8], S11, 0x698098d8); /* 9 */
FF (d, a, b, c, x[ 9], S12, 0x8b44f7af); /* 10 */
FF (c, d, a, b, x[10], S13, 0xffff5bb1); /* 11 */
FF (b, c, d, a, x[11], S14, 0x895cd7be); /* 12 */
FF (a, b, c, d, x[12], S11, 0x6b901122); /* 13 */
FF (d, a, b, c, x[13], S12, 0xfd987193); /* 14 */
FF (c, d, a, b, x[14], S13, 0xa679438e); /* 15 */
FF (b, c, d, a, x[15], S14, 0x49b40821); /* 16 */

/* 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, 0xc040b340); /* 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, 0xda8a1e681); /* 23 */
GG (b, c, d, a, x[ 4], S24, 0xe7d3fbc8); /* 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, 0x55a14ed); /* 28 */
GG (a, b, c, d, x[13], S21, 0xa9e3e905); /* 29 */
GG (d, a, b, c, x[ 2], S22, 0xfcefa3f8); /* 30 */
GG (c, d, a, b, x[ 7], S23, 0x8771f681); /* 31 */
GG (b, c, d, a, x[12], S24, 0x8d2a48a); /* 32 */

/* Round 3 */
#define S31 4
#define S32 11
#define S33 16
#define S34 23
HH (a, b, c, d, x[ 5], S31, 0xfffa3942); /* 33 */
HH (d, a, b, c, x[ 8], S32, 0x8771f681); /* 34 */
```
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HH (c, d, a, b, x[11], S33, 0x6d9d6122); /* 35 */
HH (b, c, d, a, x[14], S34, 0xfde5380c); /* 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, 0xf6bb4b60); /* 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, 0xeaa127fa); /* 42 */
HH (c, d, a, b, x[ 3], S33, 0xd4ef3085); /* 43 */
HH (b, c, d, a, x[ 6], S34, 0x8f0ccc92); /* 44 */
HH (a, b, c, d, x[ 9], S31, 0x655b59c3); /* 45 */
HH (d, a, b, c, x[12], S32, 0x6f0811a1); /* 46 */
HH (c, d, a, b, x[15], S33, 0x85845dd1); /* 47 */
HH (b, c, d, a, x[ 2], S34, 0xf7537e82); /* 48 */

/* Round 4 */
#define S41 6
#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, 0xc4ac5665); /* 50 */
II (c, d, a, b, x[14], S43, 0xc4ac5665); /* 51 */
II (b, c, d, a, x[ 5], S44, 0xf4292244); /* 52 */
II (a, b, c, d, x[12], S41, 0x432aff97); /* 53 */
II (d, a, b, c, x[ 3], S42, 0x432aff97); /* 54 */
II (c, d, a, b, x[10], S43, 0x432aff97); /* 55 */
II (b, c, d, a, x[ 1], S44, 0x432aff97); /* 56 */
II (a, b, c, d, x[ 8], S41, 0x289b7ec6); /* 57 */
II (d, a, b, c, x[15], S42, 0xc4ac5665); /* 58 */
II (c, d, a, b, x[ 6], S43, 0x432aff97); /* 59 */
II (b, c, d, a, x[13], S44, 0x655b59c3); /* 60 */
II (a, b, c, d, x[ 4], S41, 0x655b59c3); /* 61 */
II (d, a, b, c, x[11], S42, 0xc4ac5665); /* 62 */
II (c, d, a, b, x[ 2], S43, 0x655b59c3); /* 63 */
II (b, c, d, a, x[ 9], S44, 0x655b59c3); /* 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;
}
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 Rc_t 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 Rc_t 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;

    MD5_Final(&ctx, (unsigned char *)buf,

    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));
    MD5_Final((unsigned char *)(*data_ptr), &(ctx));
    return MD5_RC_OK;
}
```c
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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1.192 pciutils 1:3.1.7-4ubuntu2

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

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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
1.194.1 Available under license :

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The End

#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut

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

  $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

  my $output = runperl switches => [\'-v\'];

  my ($year) = $output =~ /\b(\d{4,})\b\b\d\b/;  # or die "Copyright statement not found in perl -v output \'$output\';

  $year;
}

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Version 1, February 1989

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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\n  Module-Build mailing list at <module-build@perl.org>."
buildRequires:
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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repository: http://github.com/dagolden/module-build/
version: 3

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    This is free software, and you are welcome to redistribute it
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    <signature of Ty Coon>, 1 April 1989
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1.195 perl-base 5.10.1-12ubuntu2

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

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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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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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* 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
*  
* 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
    op&.&elem_size {d&reg1}, [&mem_operand&, :&abits&]!
  .else
    op&.&elem_size {d&reg1}, [&mem_operand&]!
  .endif
.endm

.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, d&reg2}, [&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, d&reg3, d&reg4}, [&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
  .else
    pixldst0 op, 8, %(basereg+0), 1, mem_operand, abits
    pixldst0 op, 8, %(basereg+0), 2, mem_operand, abits
    pixldst0 op, 8, %(basereg+0), 3, 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, 16, %(basereg+0), 2, mem_operand, abits
      pixldst0 op, 16, %(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

.macro pixld numpix, bpp, basereg, mem_operand, abits=0
  .if bpp > 0
    .if (bpp == 32) && (numpix == 8) && (DEINTERLEAVE_32BPP_ENABLED != 0)
      pixldst4 vld4, 8, %(basereg+4), %(basereg+5), \
      %(basereg+6), %(basereg+7), mem_operand, abits
    .endif
  .endif
.endm
.elseif (bpp == 24) && (numpix == 8)
    pixldst3 vld3, 8, %(basereg+3), %(basereg+4), %(basereg+5), mem_operand
.elseif (bpp == 24) && (numpix == 4)
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 4, mem_operand
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 5, mem_operand
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 6, mem_operand
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 7, mem_operand
.elseif (bpp == 24) && (numpix == 2)
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 2, mem_operand
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 3, mem_operand
.elseif (bpp == 24) && (numpix == 1)
    pixldst30 vld3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 1, mem_operand
.else
    pixldst %(numpix * bpp / 8), vld1, %(bpp), basereg, mem_operand, abits
.endif
.endif
.endm

.macro pixst numpix, bpp, basereg, mem_operand, abits=0
    .if bpp > 0
        .if (bpp == 32) && (numpix == 8) && (DEINTERLEAVE_32BPP_ENABLED != 0)
            pixldst4 vst4, 8, %(basereg+4), %(basereg+5), % (basereg+6), % (basereg+7), mem_operand, abits
        .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, mem_operand
        .else
            pixldst %(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]}, [TMP1, :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 #1
        vld1.16 {d&reg1&[0]}, [TMP1, :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&[1]}, [TMP1, :16]
        vld1.16 {d&reg1&[2]}, [TMP2, :16]
        vld1.16 {d&reg1&[3]}, [TMP2, :16]
  .else
    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
        vld1.16 {d&reg1&[0]}, [TMP1, :16]
        vld1.16 {d&reg1&[1]}, [TMP1, :16]
        vld1.16 {d&reg1&[2]}, [TMP2, :16]
        vld1.16 {d&reg1&[3]}, [TMP2, :16]
    .endif
.endm
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

.macro 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
        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 #1
                vld1.16 {d&reg1&[idx]}, [TMP1, :16]
        .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]
.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
        .endif
    .elseif 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

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

.macro vuzp8 reg1, reg2
    vuzp.8 d&reg1, d&reg2
.endm
/* deinterleave B, G, R, A channels for eight 32bpp pixels in 4 registers */
.macro pixdeinterleave bpp, basereg
    .if (bpp == 32) && (DEINTERLEAVE_32BPP_ENABLED != 0)
        vuzp8 %0, %2
        vuzp8 %1, %3
        vuzp8 %2, %0
        vuzp8 %3, %1
    .endif
.endm

/* interleave B, G, R, A channels for eight 32bpp pixels in 4 registers */
.macro pixinterleave bpp, basereg
    .if (bpp == 32) && (DEINTERLEAVE_32BPP_ENABLED != 0)
        vzip8 %0, %2
        vzip8 %1, %3
        vzip8 %2, %3
        vzip8 %0, %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
 .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
.if dst_w_bpp != 24
    tst         DST_R, #0xF
    beq         2f
    .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_R, #lowbit
        beq         1f
    .endif
    pixld_src   (lowbit * 8 / dst_w_bpp), src_bpp, src_basereg, SRC
    pixld       (lowbit * 8 / dst_w_bpp), mask_bpp, mask_basereg, MASK
    .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
    PF add      PF_X, PF_X, #(lowbit * 8 / dst_w_bpp)
    sub         W, W, #(lowbit * 8 / dst_w_bpp)
    1:
.endif
.endr
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         1f
    .endif
  .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
  endif
  .endif
  .endm
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
PF add PF_X, PF_X, #chunk_size
.endif
1:
.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
  cache_preload_simple
.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 */
/* 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, \
    process_pixblock_tail_head, \
    dst_w_basereg_ = 28, \
    dst_r_basereg_ = 4, \
    ...
src_basereg_ = 0, \nmask_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, \n        (src_basereg - pixblock_size * src_bpp / 64), SRC
.endm
/*
* Assign symbolic names to registers
/* 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_w_bpp == 32
 .set dst_bpp_shift, 2
.elseif dst_w_bpp == 24
 .set dst_bpp_shift, 0
.elseif dst_w_bpp == 16
 .set dst_bpp_shift, 1
.elseif dst_w_bpp == 8
 .set dst_bpp_shift, 0
.else
 .error "requested dst bpp (dst_w_bpp) is not supported"
.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
.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, \n                (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W

        /* Process the remaining trailing pixels in the scanline */
        process_trailing_pixels 1, 1, \n            process_pixblock_head, \n            process_pixblock_tail, \n            process_pixblock_tail_head
        advance_to_next_scanline 0b

    .if regs_shortage
        pop {r0, r1}
    .endif
clean up
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_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
process_pixblock_tail
pixst pixblock_size, dst_w_bpp, \ 
      (dst_w_basereg - 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, \ 
      process_pixblock_tail, \ 
      process_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
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, \ 
    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:
    .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
.endsm

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
.endsm

.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
/*
 * 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 pixels packed in 128-bit register (out). 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, #5 /* R is ready in top bits */
vsri u16 out0, out0, #6 /* G is ready in top bits */
vsri u16 tmp, tmp, #5 /* B 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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1.198 plymouth 0.8.2-2ubuntu5

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.
In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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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'

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      long_description="An interface to the Pluggable Authentication Modules (PAM) library on linux, written in pure python (using ctypes)",
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                  "Intended Audience :: Developers",
                  "License :: OSI Approved :: MIT License",
                  "Operating System :: POSIX :: Linux",
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                  "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",
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      zip_safe=True,
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      # -*- 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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/* Copyright (c) 2008 Max Krasnyansky */
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* Major rewrite to support fully async operation
* 
* Copyright 2008 TJ <linux@tjworld.net>
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* Magor rewrite of the UHCI data structures parser and frame processor
* Support for fully async operation and multiple outstanding transactions
* 
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Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
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();
+        }
     }
     if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
         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
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -0000.1

+++ ops2.c 20 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;

+void x86emuOp2_bswap(u8 op2)
+
    /* byte swap 32 bit register */
    START_OF_INSTR();
    DECODE_PRINTF("BSWAP\n");
    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("ESI\n");
        M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
        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.R_EDI = x86emu_bswap(M.x86.R_EDI);
    break;
}
TRACE_AND_STEP();
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -r1.1 ops.c
--- ops.c7 Sep 2007 10:01:21 -0000
+++ ops.c20 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 ");
+    }
     DECODE_CLEAR_SEGOVR();
     END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
     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--) {
@@ -2526,6 +2534,8 @@
     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_SEG0VR();
    END_OF_INSTR();
@@ -2559,9 +2569,11 @@
    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. */
+        /* 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--) {
@@ -2574,6 +2586,8 @@
    } M.x86.R_SI += inc;
    M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
    DECODE_CLEAR_SEG0VR();
    END_OF_INSTR();
@@ -2598,16 +2612,21 @@
    }
    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_E, M.x86.R_DI);
-                cmp_byte(val1, val2);
-                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) {
+            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);
+            if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
+        } else
+            M.x86.R_CX -= 1;
+            M.x86.R_SI += inc;
+            M.x86.R_DI += inc;
            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_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)) break;
      if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
+      if (M.x86.intr & INTR_HALTED)
+          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;
+        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)) break;
      if ((M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF)) break;
+      if (M.x86.intr & INTR_HALTED)
+          break;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
+ 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. */
+        /* 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;
    } else {
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
        while (count--) {
@@ -2795,6 +2826,8 @@
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
        } else {
            M.x86.R_SI += inc;
@@ -2817,11 +2850,16 @@
            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) {
+                /* 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);
                    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;
                    if (M.x86.intr & INTR_HALT)
                        break;
                }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
    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--)
    {
        inc = 1;
        if (M.x86.mode & SYSMODE_PREFIX_REPE) {
            /* REPE */
            while (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.intr & INTR_HALTED)
                    break;
            }
            M.x86.mode &= ~(SYSMODE_PREFIX_REPE);
        }
        M.x86.R_SI += inc;
        if (M.x86.intr & INTR_HALTED)
            break;
        DECODE_CLEAR_SEGOVR();
        END_OF_INSTR();
    }
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        while (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.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);
@@ -2960,16 +3012,21 @@
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) {
+ /* 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);
    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))
    break;          /* zero flag set means equal */
+ if (M.x86.intr & INTR_HALTED)
+    break;
  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
@@ -3238,9 +3300,9 @@
    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("RETn");
-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");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
```c
DECODE_PRINTF("RETF\t");
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("RETFn\t");
-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 && !ACCESS_FLAG(F_ZF)) /* CX != 0 and !ZF */
+    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 &&
!ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and !ZF */
    M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4041,8 +4106,11 @@
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 && ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+    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 && ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
M.x86.R_IP = ip;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -4062,8 +4130,11 @@
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)
+ 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();
@@ -4085,8 +4156,10 @@
target = (u16)(M.x86.R_IP + offset);
DECODE_PRINTF2("%x\n", 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, M.x86.R_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 +4433,8 @@
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.mode |= SYSMODE_32BIT_REP;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
+ 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
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000
```c
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 = (s64)(s32)d * (s64)(s32)s;
    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
    #endif
}

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);
    #endif
}

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) {
    +    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R_ECX = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    #}@ -2312,16 +2312,15 @]
}

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.R_CX = 0;
-    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+    if (M.x86.mode & SYSMODE_32BIT_REP) {
        M.x86.R(ECX) = 0;
    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);

Index: sys.c  
===================================================================  
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v  
retrieving revision 1.1  
retrieving revision 1.2  
diff -u -u -r1.1 -r1.2  
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1  
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2  
@@ -45,11 +45,6 @@  
#include <x86emu/regs.h>  
#include "debug.h"  
#include "prim_ops.h"  
-#ifdef LINUXBIOS_VERSION  
-#include "io.h"  
-#else  
-#include <sys/io.h>  
-#endif  

#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((DEBUG_IO_TRACE()))  
  printk("inl %#04x \n", addr);  
  return inl(addr);  
  +return 0;  
}

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

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

@@ -295,7 +288,6 @@
DB((DEBUG_IO_TRACE()))  
    printk("outl %#08x -> %#04x \n", val, addr);  
-  outl(val, addr);  
  return;  
}

@@ -405,6 +397,6 @@
void X86EMU_setMemBase(void *base, size_t size)
{
  -M.mem_base = (int) base;
  +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    Sep 2007 10:01:21 -0000
+++ include/x86emu/debug.h    Mar 2008 15:25:27 -0000
@ @ -40,8 +40,6 @ @
 ifndef __X86EMU_DEBUG_H
 define __X86EMU_DEBUG_H

-// #define DEBUG 0
-#undef DEBUG

/* ---------------------- Macros and type definitions ---------------------- */

// checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
#define DEBUG_SYSINT() (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL() (M.x86.debug & DEBUG_TRACECALL_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(n,u,v)                      \
+# define RETURN_TRACE(u,v,w,x,s)               \
   if (DEBUG_TRACECALLREGS())
    x86emu_dump_regs();                   \
   if (DEBUG_TRACECALL())            \
    -printf("%04x:%04x: %s\n",u,v,n);
+printf("%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())                \
 + printf("%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)
#ifndef 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 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 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
+/\pheuer: for REP(E|NE) Instructions, we need to decide wheter 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
@@ -250,7 +253,8 @@
 SYSMODE_SEGOVR_GS | \n SYSMODE_SEGOVR_SS | \n SYSMODE_PREFIX_DATA | \n-| SYSMODE_PREFIX_ADDR)
+| SYSMODEPREFIX_ADDR)
+| SYSMODE_32BIT_REP)

#define INTR_SYNCH 0x1
#define INTR_ASYNCH 0x2
@@ -274,9 +278,9 @@
 /*
   u32 mode;
   volatile int intr; /* mask of pending interrupts */
-int debug;
+ volatile int debug;
#endif DEBUG
-int check;
+ int check;
 u16 saved_ip;
 u16 saved_cs;
 int enc_pos;

Index: 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.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
 #include <console.h>
 #define printk(x...) printk(BIOS_DEBUG, x)
 else
+  #include <stdio.h>
+  #define printk printf
 #endif

@@ -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)

void X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
 #ifdef __cplusplus
 }                       /* End of "C" linkage for C++ */
 #endif
-#endif /* __X86EMU_X86EMU_H */

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from the bash package by Guy Maor <maor@debian.org>, from the GNU sources at
ftp.gnu.org:/pub/gnu/readline/readline-6.0.tar.gz.

Upstream Authors:

Chet Ramey <chet.ramey@case.edu>
Jeff Solomon <jsolomon@stanford.edu> (examples/excallback.c)
Harold Levy <Harold.Levy@synopsys.com> (examples/rl-fgets.c)
Juergen Weigert <jnweiger@immd4.informatik.uni-erlangen.de> (examples/rlfe)
Michael Schroeder <mlschroe@immd4.informatik.uni-erlangen.de> (examples/rlfe)
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Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

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

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The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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

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

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

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

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library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

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

6. As an exception to the Sections above, you may also compile or
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a) Accompany the work with the complete corresponding
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with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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b) Give prominent notice with the combined library of the fact
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That's all there is to it!
I would like to thank the following people (in alphabetical order):

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Written by:       Philip Hazel
Email local part: ph10
Email domain:     cam.ac.uk

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=============
Test 1.1:101
==============
Testing argument parsing
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_l1_14

e1_l1_14

Test 1.4:104

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_11_14
Second type

============
Test 1.4.1:105
============
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 1.5:106
============
s1_11_1
s1_11_1
s1_11_2
s1_11_2
s1_11_3
s1_11_3
s1_11_4
s1_11_4
s1_11_5
s1_11_5
s1_11_6
s1_11_6
s1_11_7
s1_11_7
s1_11_8
s1_11_8
s1_11_9
s1_11_9
s1_11_10
s1_11_10
s1_11_11
s1_11_11
s1_11_12
s1_11_12
Test 1.6: 107

Test 1.7: 108

---
Test 1.8:109
Test 1.9:110

Test 1.10:111

Test 1.11:112
Test 1.12:113

Test 1.13:114
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
Test 1.17:118

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

II_1
II_1
II_2
II_2
II_3
II_3
II_4
II_4
II_5
II_5

-------------
Testing address ranges

Test 1.18:119

Test 2.1:120

Test 2.2:121

11_6
11_6
11_7
11_7
11_8
11_8
11_9
11_9
11_10
11_10
11_11
11_11
11_12
11_12
11_13
11_13
11_14
11_14
Test 2.3:122
l1_14

Test 2.4:123
l2_9

Test 2.5:124

Test 2.6:125
l2_9

Test 2.7:126

Test 2.9:127
l1_7

Test 2.10:128
l1_7

Test 2.11:129
l1_7

Test 2.12:130
l1_1
l1_2
l1_3
l1_4

Test 2.13:131
<table>
<thead>
<tr>
<th>Test 2.14:132</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.1</td>
</tr>
<tr>
<td>11.2</td>
</tr>
<tr>
<td>11.3</td>
</tr>
<tr>
<td>11.4</td>
</tr>
<tr>
<td>11.5</td>
</tr>
<tr>
<td>11.6</td>
</tr>
<tr>
<td>11.7</td>
</tr>
<tr>
<td>11.8</td>
</tr>
<tr>
<td>11.9</td>
</tr>
<tr>
<td>11.10</td>
</tr>
<tr>
<td>11.11</td>
</tr>
<tr>
<td>11.12</td>
</tr>
<tr>
<td>11.13</td>
</tr>
<tr>
<td>11.14</td>
</tr>
<tr>
<td>12.1</td>
</tr>
<tr>
<td>12.2</td>
</tr>
<tr>
<td>12.3</td>
</tr>
<tr>
<td>12.4</td>
</tr>
<tr>
<td>12.5</td>
</tr>
<tr>
<td>12.6</td>
</tr>
<tr>
<td>12.7</td>
</tr>
<tr>
<td>12.8</td>
</tr>
<tr>
<td>12.9</td>
</tr>
</tbody>
</table>
Test 2.15:133

Test 2.16:134
Test 2.17:135

Test 2.18:136

Test 2.19:137

Test 2.20:138

Test 3.1:139

Brace and other grouping
<table>
<thead>
<tr>
<th>Test 3.2:140</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>11_1</td>
<td></td>
</tr>
<tr>
<td>11_2</td>
<td></td>
</tr>
<tr>
<td>11_3</td>
<td></td>
</tr>
<tr>
<td>^1IT4$</td>
<td></td>
</tr>
<tr>
<td>^1IT5$</td>
<td></td>
</tr>
<tr>
<td>^1IT6$</td>
<td></td>
</tr>
<tr>
<td>^1IT7$</td>
<td></td>
</tr>
<tr>
<td>^1IT8$</td>
<td></td>
</tr>
<tr>
<td>^1IT9$</td>
<td></td>
</tr>
<tr>
<td>^1IT10$</td>
<td></td>
</tr>
<tr>
<td>^1IT11$</td>
<td></td>
</tr>
<tr>
<td>^1IT12$</td>
<td></td>
</tr>
<tr>
<td>11_13</td>
<td></td>
</tr>
<tr>
<td>11_14</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test 3.3:141</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>^1IT1$</td>
<td></td>
</tr>
<tr>
<td>^1IT2$</td>
<td></td>
</tr>
<tr>
<td>^1IT3$</td>
<td></td>
</tr>
<tr>
<td>11_4</td>
<td></td>
</tr>
<tr>
<td>11_5</td>
<td></td>
</tr>
<tr>
<td>11_6</td>
<td></td>
</tr>
<tr>
<td>11_7</td>
<td></td>
</tr>
<tr>
<td>11_8</td>
<td></td>
</tr>
<tr>
<td>11_9</td>
<td></td>
</tr>
<tr>
<td>11_10</td>
<td></td>
</tr>
<tr>
<td>11_11</td>
<td></td>
</tr>
<tr>
<td>11_12</td>
<td></td>
</tr>
<tr>
<td>^1IT13$</td>
<td></td>
</tr>
</tbody>
</table>
Testing a c d and i commands
before_il1_13
after_ibefore_il1_13
before_il1_14
after_ibefore_il1_14
before_il2_1
after_ibefore_il2_1
before_il2_2
after_ibefore_il2_2
before_il2_3
after_ibefore_il2_3
before_il2_4
after_ibefore_il2_4
before_il2_5
after_ibefore_il2_5
before_il2_6
inserted
after_ibefore_il2_6
before_il2_7
after_ibefore_il2_7
before_il2_8
after_ibefore_il2_8
before_il2_9
after_ibefore_il2_9

============
Test 4.2:144
============
before_a1_1
after_abefore_a1_1
before_a1_2
after_abefore_a1_2
before_a1_3
after_abefore_a1_3
before_a1_4
after_abefore_a1_4
before_a5-12l1_5
after_abefore_a5-12l1_5
appended
before_a5-12l1_6
after_abefore_a5-12l1_6
appended
before_a5-12l1_7
after_abefore_a5-12l1_7
appended
before_a5-12l1_8
after_abefore_a5-12l1_8
appended
before_a5-12l1_9
after_abefore_a5-12l1_9
appended
before_a5-12l1_10
after_abefore_a5-12l1_10
appended
before_a5-12l1_11
after_abefore_a5-12l1_11
appended
before_a5-12l1_12
after_abefore_a5-12l1_12
appended
before_al1_13
after_abefore_al1_13
before_al_14
after_abefore_al1_14
before_al2_1
after_abefore_al2_1
before_al2_2
after_abefore_al2_2
before_al2_3
after_abefore_al2_3
before_al2_4
after_abefore_al2_4
before_al2_5
after_abefore_al2_5
before_al2_6
after_abefore_al2_6
before_al2_7
after_abefore_al2_7
before_al2_8
after_abefore_al2_8
before_al2_9
after_abefore_al2_9

============
Test 4.3:145
============
^\_1
^\_1$
appended
^\_2
^\_2$
appended
^\_3
^\_3$
appended
^\_4
^\_4$
Test 4.4:146
Test 4.5:147

Test 4.6:148

Test 4.7:149

Test 4.8:150

Testing labels and branching

Test 5.1:151
Test 5.2:152

Test 5.3:153

Test 5.4:154
Test 5.5:155

Test 5.6:156

Test 5.7:157

Test 5.8:158
Pattern space commands

Test 6.1:159

Test 6.2:160
Test 6.3:161

-------------
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

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

-------------
l1_1
l1_2
l1_3
l1_2
l1_3
l1_5
l1_2
l1_3
l1_2
l1_3
l1_6
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14

-------------
Test 6.5:163

-------------
l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
Test 6.6:164

Testing print and file routines

Test 7.1:165

Test 7.2:166

$
Open Source Used In Open Source Used in the IR800 Series 15.7(3)M2

2710
Open Source Used in Open Source Used in the IR800 Series 15.7(3)M2

Test 7.5:169

Test 7.6:170
Testing substitution commands
Test 8.3:174

Test 8.4:175

Test 8.5:176
1X3
1X4
1X5
1X6
1X7
1X8
1X9
1X10
1X11
1X12
1X13
1X14

==================
Test 8.6:177
==================
(l)(1)(_)(1)
(l)(1)(_)(2)
(l)(1)(_)(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)
(l)(1)(_)(13)
(l)(1)(_)(14)

==================
Test 8.7:178
==================
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)
(&)(&)(&)(&)

Open Source Used In Open Source Used In the IR800 Series 15.7(3)M2
2714
Test 8.8: 179

---

x_x1xl1
x_x1xl2
x_x1xl3
x_x1xl4
x_x1xl5
x_x1xl6
x_x1xl7
x_x1xl8
x_x1xl9
x_x1xl10
x_x1xl11
x_x1xl12
x_x1xl13
x_x1xl14

---

Test 8.9: 180

---

l1u0
u1
u21
l1u0
u1
u22
l1u0
u1
u23
l1u0
u1
u24
l1u0
u1
u25
l1u0
u1
u26
l1u0
u1
u27
l1u0
u1
u28
l1u0
u1
u29
l1u0
u1
u210
l1u0
u1
u211
l1u0
u1
u212
l1u0
u1
u213
l1u0
u1
u214

============= Test 8.10:181 =============
l1_X
l1_X
l1_X
l1_X
l1_X
l1_X
l1_X
l1_X
l1_X
l1_X
l1_X0
l1_X1
l1_X2
l1_X3
l1_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 with 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_4
IX_5
IX_6
IX_7
IX_8
IX_9
IX_X0
IX_XX
IX_XX
IX_X4

============
Test 8.13:184
============
I8_8
I8_7
I8_6
I8_5
I8_4
I8_3
I8_2
Test 8.14:185

Test 8.15:186

Test 8.16:187
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### 1.217 sensible-utils 0.0.4ubuntu1

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1.222 ssh 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.

It was packaged for Debian by Philip Hands <phil@hands.com>.

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 **
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(with help from Dan Brosemer <odin@linuxfreak.com>)

It was downloaded from here:
ftp://ftp.fu-berlin.de/unix/security/openssh/openssh-2.3.0p1.tar.gz

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The Debian specific parts of the package are mostly taken from the
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working on Linux. Other people also contributed to this, and are
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- Zlib is now external, in a library
- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library
- RC4 support has been replaced with ARC4 support from OpenSSL
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1.224 sysv-rc 2.87dsf-4ubuntu18

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

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The upstream source is available at:

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Send patches to sysvinit-devel@nongnu.org

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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1.227 sysvinit-utils 2.87dsf-4ubuntu18

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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:

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92K sysvinit-2.86.tar.gz
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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", name);
    fprintf(stderr, "The default tun clone device is /dev/net/tun - some systems"
           " use\n/dev/misc/net/tun instead\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 'f':
        file = optarg;
        break;
    case 'p':
        if(type != 0)
            Usage(name);
        type = IFF_TAP;
        break;
    case 'n':
        if(type != 0)
            Usage(name);
        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);
            break;
}
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("\n");
    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;
strcpy(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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1.235 update-rc.d 0.7 :r5
1.235.1 Available under license:

#!/bin/sh
#
# update-rc.d Update the links in /etc/rc[0-9S].d/
#
# (c) 2003, 2004 Phil Blundell <pb@handhelds.org>
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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]
-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
fi

for i in 0 1 2 3 4 5 6 7 8 9 S; do
dn="${etcdir}${i}.d"
if [ ! -d $dn ]; then
continue;
fi
for f in ${dn}/[SK]??${basename}; do
if [ -L $f ]; then
return 1
fi
for f in $(dn)/[SK]?${basename}; do
if [ -L $f ]; then
return 1
fi
fi
rm $f
fi
done
dolink()
{
startstop=$1
lev=`echo $2 | cut -d/ -f1`
nn=`echo $2 | cut -d/ -f2`
fn="${etcd}${lev}.d/${startstop}${nn}${bn}"

if [ $verbose -eq 1 ] && echo "$fn -> ../init.d/$bn"
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."
if [ $dostart -eq 1 ] && [ $notreally -eq 0 ] && [-L ${etcd}${RUNLEVEL}.d/S??${bn} ]; then
${etcd}${RUNLEVEL}.d/S??${bn} restart || true
fi
exit 0
fi

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
            ;;
        *)
            echo "Invalid option: $1"
            exit 1
    esac
    shift

    if [ $1 = "start" ]; then
        start=1
        shift
    else
        start=0
        shift
    fi

    if [ $1 = "stop" ]; then
        stop=1
        shift
    else
        stop=0
        shift
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $notreally -eq 1 ]; then
        echo "Not really running: $1"
        shift
        continue
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

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then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

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then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

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then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

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then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
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        start=1
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    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
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    fi

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then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
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    fi

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then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
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        exit 1
    fi

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then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $1"
        exit 1
    fi

    if [ $verbose -eq 1 ] && echo "$1"
then
        echo "$1"
        start=1
    fi

    if [ $start -eq 1 ] && [ $stop -eq 1 ]; then
        echo "Invalid option: $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
done

if [ $# -lt 2 ]; then
usage
exit 1
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 "$linksn" ]; then
break
fi
fi
sn="$linksn"
case "$sn" in
    /*) sn="$root$sn" ;;
    *) sn="$initd/$sn" ;;
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
fi
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
fi

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

case $1 in
    remove)
    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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Version 2, June 1991

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Version 2, June 1991

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1.240 util-linux 2.17.2-0ubuntu1

1.240.1 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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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

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

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

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

Device  Boot  Start   End Sectors Size Id  Type
<removed>1  2048  4095  2048  1M 83 Linux

Create 2st primary partition
1beb87248e05d6e4e62b749da65d023 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
2e1cee529cb59e9341afe0443f196a1 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): 
-------------------

b5c121c2091b2ff26b880551feac7112 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
a      4096  6144    2049    1M 4.2BSD       0     0   0
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):

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

Command (m for help):

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Subject: Re: XZ utils for Debian
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X-Origin: configure.ac from XZ Utils,
    visibility.m4 serial 1 (gettext-0.15),
    Autoconf 2.52g
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X-Origin: gettext-runtime/po/Makevars (gettext-0.12)
X-Authors: Bruno Haible
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1.245 yajl 2.1.0 :r0.1
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1.246 zlib 1.2.8 :r0
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The deflate format used by zlib was defined by Phil Katz. The deflate
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