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

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<sjp@cvfn.org> from sources written for the Debian Project by Ian
Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
<srl@inf.tu-dresden.de>.

Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He
rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschlus.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

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

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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

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

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

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

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

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

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

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

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

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1.10 base-files 3.0.14 :r89.1

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

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

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1.17 bsdutils 1:2.17.2-0ubuntu1

1.17.1 Available under license:

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

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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.20 bzip2 1.0.6 :r5
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1.31 dash 0.5.5.1-7ubuntu1

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1.46 e2fsprogs 1.42.9 :r0

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 */
* BTW, I would have rejected the name Story Server because its initials are SS, the name of the secret police in Nazi Germany, probably the most despised pair of letters in western culture.* --- http://scriptingnewsarchive.userland.com/1999/12/13  
*  
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*/

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

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

- trivial database library - private includes
-
- Copyright (C) Andrew Tridgell 2005
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# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

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

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

image: $(BSD_LIB)

$(BSD_LIB): $(OBJ)
  (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJ))
  $(MV) pic/$(BSD_LIB) .
  $(RM) -f ../$(BSD_LIB)
  (cd ..; $(LN) $(LINK_BUILD_FLAGS) \

Open Source Used In Cisco IOS 15.7(3)M

534
`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)

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Gadi Oxman, August 1995

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

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Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

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Theodore Ts'o
23-June-2007

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1.47 ebtables 2.0.10+4 :r3
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```
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**1.48 eee-acpi-scripts 1.1.12+git0+9d4cdeadca2**

**:r0**

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This package was debianized by Ben Armstrong <synrg@sanctuary.nslug.ns.ca> and Nico Golde <nion@debian.org> on Sun, 17 Feb 2008 12:49:45 -0400.

It was downloaded from: http://alioth.debian.org/projects/debian-eeepc/

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1.49 elfutils 0.163 :r0.1

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1.53 findutils 4.4.2-1ubuntu1

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1.57 glib-2.0 2.44.1 :r0.1

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/* Per-Compatable 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

#endif /* _PCRE_H */

#define _PCRE_H
/* 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 PCREC_P_EXP_DECL. */

#if defined(_WIN32) && !defined(PCRE_STATIC)
  #ifndef 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_EXPDECL
  #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. */
#include <stdlib.h>

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

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

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

/* 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) /* For backward compatibility */
#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_DFA_DCOUNT (-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_RECUSE (-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)

/* Define PCRE_UCP 0x20000000 */
*/
#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_I_CHANGED 13
#define PCRE_INFO_HASCRORLF 14
#define PCRE_INFO_MIN_LENGTH 15
#define PCRE_INFO_JIT 16
#define PCRE_INFO_JIT_SIZE 17
#define PCRE_INFO_MAX_LOOK_BEHIND 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_STACK_RECURSE 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_JIT_TARGET 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 a 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;

/* Same structure as above, but with 16 bit char pointers. */
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 */
  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 */
} 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 */
}
pcree16_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 */
/* ------------------- Added for Version 2 -------------------------- */
const unsigned char *mark; /* Pointer to current mark or NULL */
/* ------------------------------------------------------------------ */
} pcre16_callout_block;
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_EXP_DECL int *(pcre_callout)(pcre_callout_block *);

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

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

/* Exported PCRE functions */

PCRE_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, 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 pcre_free_stringtable_entries(const char *, char **);
PCRE_EXP_DECL void pcre_free_substring_list(const char **);
PCRE_EXP_DECL void pcre_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, const char *, int *, int, int, const char *);
PCRE_EXP_DECL int pcre16_get_substring(PCRE_SPTR16, int *, int, PCRE_SPTR16 *);
PCRE_EXP_DECL int pcre16_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 *);

#ifdef __cplusplus
}  /* extern "C" */
#endif

#endif /* End of pcre.h */

PCRE LICENCE

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

End
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1.59 gnutls 3.3.17.1 :r0

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

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

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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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0. Definitions.

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

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

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git://git.debian.org/git/kernel/initramfs-tools.git
http://git.debian.org/?p=kernel/initramfs-tools.git;a=shortlog

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1.68 initramfs-tools-bin 0.98.1ubuntu6

1.68.1 Available under license:

This package was debianized by Jeff Bailey <jbailey@ubuntu.com> on

The current Debian maintainer is maximilian attems <maks@debian.org>

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1.70 initscripts 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,
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The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software
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The sysvinit package in Debian is maintained as an alioth project.
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1.75 kbd 1.15-1ubuntu3
1.75.1 Available under license :
#
# PC Screen (console) Fonts - psf1 header
#
0 leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2 byte 2 256 characters, Unicode index
>2 byte 3 512 characters, Unicode index
>2 byte 4 256 characters, Unicode level 2 index
>2 byte 5 512 characters, Unicode level 2 index
>3 byte x 8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0 lelong 0x864ab572 psf2 screen font data
>12 lelong&1 1 with Unicode index
>16 lelong x \b, %d glyphs
>28 lelong x \b, %dx
>24 lelong x \b%d
The file
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The files
dumpkeys.c loadkeys.y analyze.l ksym.c ksym.h
showkey.c keymaps.5 loadkeys.1 dumpkeys.1 showkey.1
are Copyright (C) 1993 Risto Kankkunen.

The files
setfont.c setfont.8 mapscrn.c mapscrn.8
(and changes to loadkeys.y)
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psfaddtable.1 psfgettable.1 psfstripstable.1
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getfd.c getkeycodes.c getunimap.c kbd_mode.c loadunimap.c
psffontop.c psfxtable.c resizecons.c screendump.c setkeycodes.c
setleds.c setmetamode.c setvesablank.c showconsolefont.c
spawn_console.c spawn_login.c
chvt.1 dealloctv.1 kbd_mode.1 setleds.1 setmetamode.1
getkeycodes.8 loadunimap.8 resizecons.8 setkeycodes.8
kbd.FAQ.*
(and changes to earlier mentioned programs)
are Copyright (C) 1994-1999 Andries E. Brouwer.

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Files: src/kbdrate.c
Copyright: 1992 Rickard E. Faith
License: GPL-any
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Files: src/dumpkeys.c, src/loadkeys.y, src/analyze.l, src/ksyms.c,
    src/ksyms.h, src/showkey.c, src/loadkeys.1, man/man1/dumpkeys.1,
    man/man1/showkey.1, man/man5/keymaps.5
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    man/man1/psfstriptable.1
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    src/findfile.c, src/getfd.c, src/getkeycodes.c, src/getunimap.c,
    src/kbd_mode.c, src/loadunimap.c, src/psffontop.c, src/psfxtable.c,
    src/resizecons.c, src/screendump.c, src/setkeycodes.c, src/setleds.c,
    src/setmetamode.c, src/setvesablank.c, src/showconsolefont.c,
    src/spawn_consoiel.c, src/spawn_login.c, man/man1/chvt.1,
    man/man1/deallocvt.1, man/man1/kbd_mode.1, man/man1/setleds.1,
    man/man1/setmetamode.1, man/man8/getkeycodes.8, man/man8/loadunimap.8,
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1.76 klibc-utils 1.5.20-1
1.76.1 Available under license :
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Here the stream cipher has been modified always to include the time
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regenerate the same random sequence twice, so this can't be used
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To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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```
Local Variables:
ispell-local-pdict: "ispell-dict"
End:
```

**1.86 libc6 2.12.1-0ubuntu6**

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1.90 libcgroup 0.41 :r0.3
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1.91 libcomerr2 1.41.12-1ubuntu2

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#!/bin/sh

find . -type f ! -name \*~ ! -exec grep -q Begin-Header \{"\} \; -print \
| grep -v ^./build

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

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

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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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

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

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".
This package was put together by Yann Dirson <dirson@debian.org>,
from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o  
23-June-2007

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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

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

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

Open Source Used In Cisco IOS 15.7(3)M
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
Index: tdbsa/tdb.c

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

- trivial database library - private includes
- 
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1.92 libdbus-1-3 1.4.0-0ubuntu1

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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/gsssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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lib/krb5/os/hst_realm.c

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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_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/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
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@example
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/kdb/kdb_log.h
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lib/libgss/g_acquire_cred.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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1.106 libklibc 1.5.20-1

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
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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
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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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@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
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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lib/gssapi/mechglue/g_acquire_cred.c
and the initial implementation of incremental propagation, including
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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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lib/gssapi/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
@end smallexample
and the initial implementation of incremental propagation, including
the following new or changed files:

@example
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/kproblog.c
@end example

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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
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
lib/libgss/g_dsp_name.c
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
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lib/libgss/g_inquire_context.c
lib/libgss/g_inquire_cred.c
lib/libgss/g_inquire_names.c
lib/libgss/g_process_context.c
lib/libgss/g_rel_buffer.c
lib/libgss/g_rel_cred.c
lib/libgss/g_rel_name.c
lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
```
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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```

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Maintainer: Lasse Collin <lasse.collin@tukaani.org>
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To: Jonathan Nieder <jrnieder@gmail.com>
Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

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1.116 libpam 1.2.1 :r5.3.1

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1.119 libpam0g 1.1.1-4ubuntu1

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1.121 libpci3 1:3.1.7-4ubuntu2

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1.123 libpcre 8.38 :r09.1

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1.125 libplymouth2 0.8.2-2ubuntu5

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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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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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

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

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

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

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

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

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

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

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

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

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

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1.133 libsepol1 2.0.41-1

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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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   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.

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

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

That's all there is to it!

1.134 libslang2 2.2.2-4ubuntu1

1.134.1 Available under license:

This package was debianized by Jim Mintha <jim@dodo2.adm.uva.nl> on Mon, 16 Aug 1999 21:59:03 +0200.

It was downloaded from ftp://space.mit.edu/pub/davis/slang/v2.0/

Upstream Author: John E Davis <davis@space.mit.edu>
Open Source Used In Cisco IOS 15.7(3)M

1.135 libsm 1.2.2 :r0

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1.136 libssl0.9.8 0.9.8o-1ubuntu4

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This package was debianized by Christoph Martin martin@uni-mainz.de on Fri, 22 Nov 1996 21:29:51 +0100.

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Motorolla 68020 20mhz, NetBSD

SSLear 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>
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<tr>
<td>rc4</td>
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<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>
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<tr>
<td>des ede3</td>
<td>10.51k</td>
<td>10.94k</td>
<td>11.01k</td>
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<tr>
<td>idea cbc</td>
<td>26.74k</td>
<td>29.23k</td>
<td>29.45k</td>
<td>29.60k</td>
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<td>rc2 cbc</td>
<td>34.27k</td>
<td>39.39k</td>
<td>40.03k</td>
<td>40.07k</td>
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<td>rc5-32/12 cbc</td>
<td>64.31k</td>
<td>83.18k</td>
<td>85.70k</td>
<td>86.70k</td>
<td>87.09k</td>
</tr>
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<td>blowfish cbc</td>
<td>11.27k</td>
<td>49.37k</td>
<td>84.31k</td>
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<td>109.23k</td>
</tr>
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<td>cast cbc</td>
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<td>50.01k</td>
<td>50.86k</td>
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<table>
<thead>
<tr>
<th>Sign/Verify</th>
<th>Sign/s Verify/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>rsa 512 bits</td>
<td>0.7738s</td>
</tr>
<tr>
<td>rsa 1024 bits</td>
<td>4.3967s</td>
</tr>
<tr>
<td>rsa 2048 bits</td>
<td>29.5200s</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sign/Verify</th>
<th>Sign/s Verify/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>dsa 512 bits</td>
<td>0.7862s</td>
</tr>
<tr>
<td>dsa 1024 bits</td>
<td>2.5375s</td>
</tr>
<tr>
<td>dsa 2048 bits</td>
<td>9.2150s</td>
</tr>
</tbody>
</table>

Pentium Pro 200mhz
FreeBSD 2.1.5
gcc 2.7.2.2

SSLey 0.7.0 30-Jan-1997
built on Tue Apr 22 12:14:36 EST 1997
options:bn(64,32) md2(int) rc4(idx,int) des(ptr,risc1,16,long) idea(int) blowfish(ptr2)
C flags:gcc -DTERMIOS -D_ANSI_SOURCE -fomit-frame-pointer -O3 -m486 -Wall
The 'numbers' are in 1000s of bytes per second processed.

<table>
<thead>
<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 512 bits</td>
<td>0.010s</td>
<td></td>
<td></td>
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<tr>
<td>rsa 1024 bits</td>
<td>0.045s</td>
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</tr>
<tr>
<td>rsa 2048 bits</td>
<td>0.260s</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>rsa 4096 bits</td>
<td>1.690s</td>
<td></td>
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<td></td>
</tr>
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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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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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Ty Coon, President of Vice

That's all there is to it!

1.145 libuuid1 2.17.2-0ubuntu1

1.145.1 Available under license:

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

BZh91AY&SY"~@H R h% CFTC@OQ6_@rTmlAHIlI/FOHABk@BZh91AY&SY' hC+{HiyL*UT{JDCCMhd?TPJ4b"LLLhD3Mfh4JM&hC&A4hP44OP4&FCFz()"{W }>CN@JEBx=Q\]%HFYP@R "o**U*R}CbW"XZTK8o%"Z|S!~9(%m/cB7D4F"N7r;o2&HLPlpo)N^g~?<lm9Q@+CvTj0U"h-J[Z|EKZMKZP[@@@I6Y$TK6jS\\{S$@S $IS$IU$U$USn}1ISHI1 .@ $SIISISI1c!SSTA`PPPPPUW]rU@UYVUUUU-mW[UeKjHRsUE)H:Eu{[jGD;r#XZ^(n} )dS(6HXo<@@bdo:;6BFJNRVZ^y8yTb}i+jk,1-Dy{)"FH:ZuZ,Cv}BBaISISISISISB<CA+c8aU`J7UUUUU33333330ISISISISpur8@/>)}"@ISISIS~M#q\lx[@(jVZ:aH-kWULR&vL1;HzS1p07R@mb`b1EE2m"DSyP(Ejwq_X5u fBn2XH mr*)]5`QrdC:,1JU@ @.-h@ @IC-1^A5a -7@(Ei.E7qJDP0.5: @)9@@/Dl.p
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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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 */

1.146 libvirt 1.2.19 :r1
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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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1.153 libyaml 0.1.6 :r0

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1.154 libyaml-perl 0.71-1

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Firmware provided as part of an XC5000 Linux developers kit by Brian
Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org>
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for the or51211 and or51132 frontend drivers, and
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single nxt200x frontend driver.
(If you think you should be in this list, but you are not, drop a
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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.*
* http://www.hypermall.com/*
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?) *
* 10/4/97 - began heavy inline documentation of the code. Corrected typos * and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE) *
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only. *
Linux driver for the IDT77201 NICStar PCI ATM controller.
PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
see init_nicstar() for PHY initialization to change this. This driver
expects the Linux ATM stack to support scatter-gather lists
(skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

Implementing minimal-copy of received data:
IDT always receives data into a small buffer, then large buffers
as needed. This means that data must always be copied to create
the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
Fix is simple: make large buffers large enough to hold entire
SDU, and leave <small_buffer_data> bytes empty at the start. Then
copy small buffer contents to head of large buffer.
Trick is to avoid fragmenting Linux, due to need for a lot of large
buffers. This is done by 2 things:
1) skb->destructor / skb->atm.recycle_buffer
   combined, allow nicstar_free_rx_skb to be called to
   recycle large data buffers
2) skb_clone of received buffers
See nicstar_free_rx_skb and linearize_buffer for implementation
details.

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M. Welsh, 6 July 1996
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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.

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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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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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1.162 logrotate 3.7.8-6ubuntu1

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/*
 * hmac.c is derived from:

Network Working Group   H. Krawczyk
Request for Comments: 2104   IBM
Category: Informational    M. Bellare
UCSD                    R. Canetti
IBM                      IBM
February 1997

HMAC: Keyed-Hashing for Message Authentication

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

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

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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

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This package was put together by Chris Fearnley <cjf@netaxs.com>, from sources obtained from:
ftp://ftp.whidbey.net/pub/brennan/mawk1.3.3.tar.gz

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1.168 module-init-tools 3.12-1ubuntu2

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1.170 mount 2.17.2-0ubuntu1

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

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1.171 mountall 2.19

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1.172 ncurses 5.9 :r15.1.1
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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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16. Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
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51. Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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discipline, authentication, precision kernel; clock drivers:
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1.182 openssh-client 1:5.5p1-4ubuntu4

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

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

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

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 **
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1.183 openssh-server 1:5.5p1-4ubuntu4

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1.184 openssl 1.0.2h :r0.4

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1.185 OpenSSL 1.0.2d :1

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1.186 OpenSSL 0.9.8j

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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.

<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 512 bits</td>
<td>0.010s</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>rsa 1024 bits</td>
<td>0.045s</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>rsa 2048 bits</td>
<td>0.260s</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>rsa 4096 bits</td>
<td>1.690s</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Motorola 68020 20mhz, NetBSD

SSLeay 0.9.0t 29-May-1998
built on Fri Jun  5 12:42:23 EST 1998
options:bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)
C flags:gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN
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>
<tr>
<td>Algorithm</td>
<td>26.74k</td>
<td>29.23k</td>
<td>29.45k</td>
<td>29.60k</td>
<td>29.74k</td>
</tr>
<tr>
<td>------------</td>
<td>--------</td>
<td>--------</td>
<td>--------</td>
<td>--------</td>
<td>--------</td>
</tr>
<tr>
<td>rc2 cbc</td>
<td>34.27k</td>
<td>39.39k</td>
<td>40.03k</td>
<td>40.07k</td>
<td>40.16k</td>
</tr>
<tr>
<td>rc5-32/12 cbc</td>
<td>64.31k</td>
<td>83.18k</td>
<td>85.70k</td>
<td>86.70k</td>
<td>87.09k</td>
</tr>
<tr>
<td>blowfish cbc</td>
<td>48.86k</td>
<td>59.18k</td>
<td>60.07k</td>
<td>60.42k</td>
<td>60.78k</td>
</tr>
<tr>
<td>cast cbc</td>
<td>42.67k</td>
<td>50.01k</td>
<td>50.86k</td>
<td>51.20k</td>
<td>51.37k</td>
</tr>
</tbody>
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<tr>
<th>Algorithm</th>
<th>0.7738s</th>
<th>0.0774s</th>
<th>1.3</th>
<th>12.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>rsa 512 bits</td>
<td>4.3967s</td>
<td>0.2615s</td>
<td>0.2</td>
<td>3.8</td>
</tr>
<tr>
<td>rsa 2048 bits</td>
<td>29.5200s</td>
<td>0.9664s</td>
<td>0.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Algorithm</th>
<th>0.7862s</th>
<th>0.9709s</th>
<th>1.3</th>
<th>1.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>dsa 1024 bits</td>
<td>2.5375s</td>
<td>3.1625s</td>
<td>0.4</td>
<td>0.3</td>
</tr>
<tr>
<td>dsa 2048 bits</td>
<td>9.2150s</td>
<td>11.8200s</td>
<td>0.1</td>
<td>0.1</td>
</tr>
</tbody>
</table>

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OSSP uuid - Universally Unique Identifier
Version 1.6.2 (04-Jul-2008)

ABSTRACT

OSSP uuid is an 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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HOME AND DOCUMENTATION

The documentation and latest release can be found on

o http://www.ossp.org/pkg/lib/uuid/
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**
** uuid_md5.c: MD5 API implementation
*/

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

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

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

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

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

/*
* RSA Data Security, Inc., MD5 message-digest algorithm
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*/

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

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

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

/* prototypes for internal functions */
static void MD5Init (MD5_CTX *ctx);
static void MD5Update (MD5_CTX *ctx, unsigned char *, unsigned int);
static void MD5Final (unsigned char [], MD5_CTX *);
static void MD5Transform (UINT4 [], unsigned char []);
static void Encode (unsigned char *, UINT4 *, unsigned int);
static void Decode (UINT4 *, unsigned char *, unsigned int);

/* finalization padding */
static unsigned char PADDING[64] = {
0x80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
};

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

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

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

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

   /* Load magic initialization constants. */
   context->state[0] = 0x67452301;
   context->state[1] = 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;

    /* 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. */
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    unsigned char digest[],                                 /* message digest */
    MD5_CTX *context)                                         /* context */
{
    unsigned char bits[8];
    unsigned int idx, padLen;

    /* 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;

    /* 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;

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

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

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

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

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

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

    Decode(x, block, 64);

    /* Round 1 */
    #define S11 7
    #define S12 12
    #define S13 17
    #define S14 22
    FF (a, b, c, d, x[ 0], S11, 0xd76aa478); /* 1 */
    FF (d, a, b, c, x[ 1], S12, 0xe8c7b756); /* 2 */
    FF (c, d, a, b, x[ 2], S13, 0x242070db); /* 3 */
    FF (b, c, d, a, x[ 3], S14, 0x0c1bdcee); /* 4 */
    FF (a, b, c, d, x[ 4], S11, 0xf57c0faf); /* 5 */
    FF (d, a, b, c, x[ 5], S12, 0x4787c62a); /* 6 */
    FF (c, d, a, b, x[ 6], S13, 0x08204f7be); /* 7 */
    FF (b, c, d, a, x[ 7], S14, 0xfe5b4501); /* 8 */
    FF (a, b, c, d, x[ 8], S11, 0x3f6aa47b); /* 9 */
    FF (d, a, b, c, x[ 9], S12, 0x5b4f7f76); /* 10 */
    FF (c, d, a, b, x[10], S13, 0x6ef204fe); /* 11 */
    FF (b, c, d, a, x[11], S14, 0x8be9e007); /* 12 */
    FF (a, b, c, d, x[12], S11, 0xb00364fe); /* 13 */
    FF (d, a, b, c, x[13], S12, 0x98018c86); /* 14 */
    FF (c, d, a, b, x[14], S13, 0x1a8b70e1); /* 15 */
    FF (b, c, d, a, x[15], S14, 0x9b4f08d7); /* 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, 0xd8a1e681); /* 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, 0x455a14ed); /* 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, 0x676f02d9); /* 31 */
GG (b, c, d, a, x[12], S24, 0x8d2a4c8a); /* 32 */

/* Round 3 */
#define S31 4
#define S32 11
#define S33 16
#define S34 23

HH (a, b, c, d, x[ 5], S31, 0xfffa3942); /* 33 */
HH (d, a, b, c, x[ 8], S32, 0x8771f681); /* 34 */
HH (c, d, a, b, x[11], S33, 0x6d9d6122); /* 35 */
HH (b, c, d, a, x[14], S34, 0xfd58be3); /* 36 */
HH (a, b, c, d, x[ 1], S31, 0xe48ee444); /* 37 */
HH (d, a, b, c, x[ 4], S32, 0x48decfa9); /* 38 */
HH (c, d, a, b, x[ 7], S33, 0xf6bb4b60); /* 39 */
HH (b, c, d, a, x[10], S34, 0xebefbc70); /* 40 */
HH (a, b, c, d, x[13], S31, 0xd967c566); /* 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, 0x4881d05); /* 44 */
HH (a, b, c, d, x[ 9], S31, 0xed940d39); /* 45 */
HH (d, a, b, c, x[12], S32, 0xe6d999e5); /* 46 */
HH (c, d, a, b, x[15], S33, 0x1fa27c8f); /* 47 */
HH (b, c, d, a, x[ 2], S34, 0xc4ac5665); /* 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, 0x432aff97); /* 50 */
II (c, d, a, b, x[14], S43, 0xab9423a7); /* 51 */
II (b, c, d, a, x[ 5], S44, 0xfc93a039); /* 52 */
II (a, b, c, d, x[12], S41, 0x655659c3); /* 53 */
II (d, a, b, c, x[ 3], S42, 0x8f0ccc92); /* 54 */
II (c, d, a, b, x[10], S43, 0xffeff47d); /* 55 */
II (b, c, d, a, x[ 1], S44, 0x85845dd1); /* 56 */
II (a, b, c, d, x[ 8], S41, 0x6fa87e4f); /* 57 */
II (d, a, b, c, x[15], S42, 0xf2e6e0); /* 58 */
II (c, d, a, b, x[ 6], S43, 0xa3014314); /* 59 */
II (b, c, d, a, x[13], S44, 0xe0811a1); /* 60 */
II (a, b, c, d, x[ 4], S41, 0xf7537e82); /* 61 */
II (d, a, b, c, x[11], S42, 0xb3af235); /* 62 */
II (c, d, a, b, x[ 2], S43, 0x2ad7d2bb); /* 63 */
II (b, c, d, a, x[ 9], S44, 0xeb86d391); /* 64 */

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

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

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

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

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

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

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

struct md5_st {
    MD5_CTX ctx;
};

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

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

md5_rc_t md5_update(md5_t *md5, const void *data_ptr, size_t data_len)
{
    if (md5 == NULL)
        return MD5_RC_ARG;
    MD5Update(&(md5->ctx), (unsigned char *)data_ptr, (unsigned int)data_len);
    return MD5_RC_OK;
}
md5_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;
  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;
    }
  }
  for (i = 0; i < MD5_LEN_BIN; i++)
  {
    bufptr = &hex[buf[i] >> 4];
    buflen = strlen(bufptr);
    *data_ptr += buflen;
    *data_len -= buflen;
    if (buflen == 0)
      return MD5_RC_OK;
    if (buflen == 1)
      *data_ptr = bufptr[0];
    else
      for (j = 0; j < buflen; j++)
        *data_ptr++ = bufptr[j];
  }
  return MD5_RC_OK;
}

md5_rc_t md5_verify(md5_t *md5, char **data_ptr, size_t *data_len)
{
  unsigned char buf[MD5_LEN_BIN];
  unsigned char *bufptr;
  size_t buflen;
  md5_rc_t rc;
  int i;

  if (md5 == NULL || data_ptr == NULL)
    return MD5_RC_ARG;
  if (*data_ptr == NULL) {
    if ((*data_ptr = (char *)malloc(MD5_LEN_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;
    }
  }
  MD5Init((MD5_CTX *)&md5->ctx);
  MD5Absorb((unsigned char *)(*data_ptr), (unsigned char *)buf);
  MD5Final((unsigned char *)(buf), (unsigned char *)&md5->ctx);
  rc = MD5_VERIFY((unsigned char *)(buf), (unsigned char *)&md5->ctx);
  return rc;
}
bufptr = buf;
buflen = sizeof(buf);
if ((rc = md5_store(md5, (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)] = '+'
return MD5_RC_OK;

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

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

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<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
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Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

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

That's all there is to it!

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

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

1.195 perl 5.22.0 :r0.1
1.195.1 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 =~ /\d{4}\b/s
    or die "Year not found in README copyright message $copyright_msg";

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

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

$year;
}

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

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

--------------------------------------------------------------------------
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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

That's all there is to it!

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

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1.198 pixman 0.32.6 :r0

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 *
 * Author:  Siarhei Siamashka (siarhei.siamashka@nokia.com)
 */

/*
 * This file contains a macro (generate_composite_function) which can
 * construct 2D image processing functions, based on a common template.
 * Any combinations of source, destination and mask images with 8bpp,
 * 16bpp, 24bpp, 32bpp color formats are supported.
 */
This macro takes care of:
- handling of leading and trailing unaligned pixels
- doing most of the work related to L2 cache preload
- encourages the use of software pipelining for better instructions

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.

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.

Constants for selecting preferable prefetch type.

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&,[&mem_operand&,:&abits&]!}
```
pixldst0 op, 8, %basereg+0, 4, mem_operand, abits
pixldst0 op, 8, %basereg+0, 5, mem_operand, abits
pixldst0 op, 8, %basereg+0, 6, mem_operand, abits
pixldst0 op, 8, %basereg+0, 7, mem_operand, abits
.endif
.elseif numbytes == 2
.if !RESPECT STRICT_ALIGNMENT || (elem_size == 16)
    pixldst0 op, 16, %basereg+0, 1, mem_operand, abits
.else
    pixldst0 op, 8, %basereg+0, 2, mem_operand, abits
    pixldst0 op, 8, %basereg+0, 3, mem_operand, abits
.endif
.elseif numbytes == 1
    pixldst0 op, 8, %basereg+0, 1, mem_operand, abits
.else
    .error "unsupported size: numbytes"
.endif
.endm

.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
        .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
            pixld (%numpix * bpp / 8), vst1, %bpp, basereg, mem_operand, abits
        .endif
    .endif
.endm

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pixldst3 vst3, 8, %((basereg+3), %((basereg+4), %((basereg+5), mem_operand
elseif (bpp == 24) && (numpix == 4)
pixldst3 vst3, 8, %((basereg+0), %((basereg+1), %((basereg+2), 4, mem_operand
pixldst3 vst3, 8, %((basereg+0), %((basereg+1), %((basereg+2), 5, mem_operand
pixldst3 vst3, 8, %((basereg+0), %((basereg+1), %((basereg+2), 6, mem_operand
pixldst3 vst3, 8, %((basereg+0), %((basereg+1), %((basereg+2), 7, mem_operand
elseif (bpp == 24) && (numpix == 2)
pixldst3 vst3, 8, %((basereg+0), %((basereg+1), %((basereg+2), 2, mem_operand
pixldst3 vst3, 8, %((basereg+0), %((basereg+1), %((basereg+2), 3, mem_operand
elseif (bpp == 24) && (numpix == 1)
pixldst3 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: subspls VX, VX, SRC_WIDTH_FIXED
bl 5b
add TMP1, mem_operand, TMP1, asl #1
mov TMP2, VX, asr #16
adds VX, VX, UNIT_X
5: subspls VX, VX, SRC_WIDTH_FIXED
bl 5b
add     TMP2, mem_operand, TMP2, asl #1  
vl disproportionate {d&reg1& ADDRESS}, [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  
vld disproportionate {d&reg1& ADDRESS}, [TMP2, :16]  
mov     TMP2, 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  
vld disproportionate {d&reg1& ADDRESS}, [TMP1, :32]  
vld disproportionate {d&reg1& ADDRESS}, [TMP2, :32]  
else  
.error "unsupported"  
.endif  
.endm  
.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  
adds    VX, VX, UNIT_X  
add     TMP2, mem_operand, TMP2, asl #2  
vld disproportionate {d&reg1& ADDRESS}, [TMP1, :32]  
vld disproportionate {d&reg1& ADDRESS}, [TMP2, :32]  
.else  
.error "unsupported"  
.endif  
.endm
add     TMP2, mem_operand, TMP2, asl #2
vld1.32 {d&reg1&[1]}, [TMP1, :32]
vld1.32 {d&reg2&[1]}, [TMP2, :32]
.else
  pixld1_s elem_size, reg1, mem_operand
  pixld1_s elem_size, reg2, mem_operand
.endif
.endm

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

.macro pixld_s_internal numbytes, elem_size, basereg, mem_operand
  .if numbytes == 32
    pixld2_s elem_size, %(basereg+4), %(basereg+5), mem_operand
    pixld2_s elem_size, %(basereg+6), %(basereg+7), mem_operand
    pixdeinterleave elem_size, %(basereg+4)
  .elseif numbytes == 16
    pixld2_s elem_size, %(basereg+2), %(basereg+3), mem_operand
  .elseif numbytes == 8
    pixld1_s elem_size, %(basereg+1), mem_operand
  .elseif numbytes == 4
    .if elem_size == 32
      pixld0_s elem_size, %(basereg+0), 1, mem_operand
      else 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

.macro vzip8 reg1, reg2
   vzip.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 %(basereg+0), %(basereg+1)
      vuzp8 %(basereg+2), %(basereg+3)
      vuzp8 %(basereg+1), %(basereg+3)
      vuzp8 %(basereg+0), %(basereg+2)
   .endif
.endm

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

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

.macro cache_preload std_increment, boost_increment
   .if (src_bpp_shift >= 0) || (dst_r_bpp != 0) || (mask_bpp_shift >= 0)
      .if regs_shortage
          PF ldr ORIG_W, [sp] /* If we are short on regs, ORIG_W is kept on stack */
      .endif
      .if std_increment != 0
          PF add PF_X, PF_X, #std_increment
      .endif
      PF tst PF_CTL, #0xF
      PF addne PF_X, PF_X, #boost_increment
      PF subne PF_CTL, PF_CTL, #1
      PF cmp PF_X, ORIG_W
      .if src_bpp_shift >= 0
          PF pld, [PF_SRC, PF_X, lsl #src_bpp_shift]
      .endif
      .if std_increment != 0
          PF add PF_X, PF_X, #std_increment
      .endif
      PF tst PF_CTL, #0xF
      PF addne PF_X, PF_X, #boost_increment
      PF subne PF_CTL, PF_CTL, #1
      PF cmp PF_X, ORIG_W
      .if src_bpp_shift >= 0
          PF pld, [PF_SRC, PF_X, lsl #src_bpp_shift]
.endif
.if dst_r_bpp != 0
    PF pld, [PF_DST, PF_X, lsl #dst_bpp_shift]
.endif
.if mask_bpp_shift >= 0
    PF pld, [PF_MASK, PF_X, lsl #mask_bpp_shift]
.endif
    PF subge PF_X, PF_X, ORIG_W
    PF subges PF_CTL, PF_CTL, #0x10
.if src_bpp_shift >= 0
    PF ldrgeb DUMMY, [PF_SRC, SRC_STRIDE, lsl #src_bpp_shift]!
.endif
.if dst_r_bpp != 0
    PF ldrgeb DUMMY, [PF_DST, DST_STRIDE, lsl #dst_bpp_shift]!
.endif
.if mask_bpp_shift >= 0
    PF ldrgeb DUMMY, [PF_MASK, MASK_STRIDE, lsl #mask_bpp_shift]!
.endif
.endif
.endm
.endm

.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

.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.
 */
.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
.endif

.irp lowbit, 1, 2, 4, 8, 16
local skip1
.if (dst_w_bpp <= (lowbit * 8)) && ((lowbit * 8) < (pixblock_size * dst_w_bpp))
.if lowbit < 16 /* we don't need more than 16-byte alignment */
    tst      DST_W, #lowbit
    beq      1f
.endif
.pixld_src  (lowbit * 8 / dst_bpp), src_bpp, src_basereg, SRC
.pixld      (lowbit * 8 / dst_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
.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
.pixst_a  (lowbit * 8 / dst_w_bpp), dst_w_bpp, dst_w_basereg, DST_W
1:
.endif
.endr
.endm

/*
* Special code for processing up to (pixblock_size - 1) remaining
* trailing pixels. As SIMD processing performs operation on
* pixblock_size pixels, anything smaller than this has to be loaded
* and stored in a special way. Loading and storing of pixel data is
* performed in such a way that we fill some 'slots' in the NEON
* registers (some slots naturally are unused), then perform compositing
* operation as usual. In the end, the data is taken from these 'slots'
* and saved to memory.
*
* cache_preload_flag - allows to suppress prefetch if
* set to 0
* dst_aligned_flag - selects whether destination buffer
* is aligned
*
.macro process_trailing_pixels cache_preload_flag, \
  dst_aligned_flag, \
  process_pixblock_head, \
  process_pixblock_tail, \
  process_pixblock_tail_head
  tst W, #(pixblock_size - 1)
  beq 2f
  .irp chunk_size, 16, 8, 4, 2, 1
  .if pixblock_size > chunk_size
  tst W, #chunk_size
  beq 1f
  pixld_src chunk_size, src_bpp, src_basereg, SRC
  pixld chunk_size, mask_bpp, mask_basereg, MASK
  .if dst_aligned_flag != 0
  pixld_a chunk_size, dst_r_bpp, dst_r_basereg, DST_R
  .else
  pixld chunk_size, dst_r_bpp, dst_r_basereg, DST_R
  .endif
  .if cache_preload_flag != 0
  cache_preload 0, pixblock_size
  cache_preload_simple
  .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 */
.else
    mov         W, ORIG_W
.endif
.add         DST_W, DST_W, DST_STRIDE, lsl #dst_bpp_shift
.if src_bpp != 0
    add         SRC, SRC, SRC_STRIDE, lsl #src_bpp_shift
.endif
.if mask_bpp != 0
    add         MASK, MASK, MASK_STRIDE, lsl #mask_bpp_shift
.endif
.if (dst_w_bpp != 24)
    sub         DST_W, DST_W, W, lsl #dst_bpp_shift
.endif
.if (src_bpp != 24) && (src_bpp != 0)
    sub         SRC, SRC, W, lsl #src_bpp_shift
.endif
.if (mask_bpp != 24) && (mask_bpp != 0)
    sub         MASK, MASK, W, lsl #mask_bpp_shift
.endif
.subs        H, H, #1
.mov         DST_R, DST_W
.if regs_shortage
    str         H, [sp, #4] /* save updated height to stack */
.endif
bge      start_of_loop_label
.endm

/*
 * 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_, 
st_w_bpp_, 
flags, 
piexblock_size_, 
prefetch_distance, 
init, 
cleanup, 
process_pixblock_head, 
process_pixblock_tail, 
process_pixblock_tail_head, 
dst_w_basereg_ = 28, 
dst_r_basereg_ = 4, 
sr_c_basereg_ = 0, 
mask_basereg_ = 24

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

/*
 * Select prefetch type for this function. If prefetch distance is
 * set to 0 or one of the color formats is 24bpp, SIMPLE prefetch
 * has to be used instead of ADVANCED.
 */
.set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_DEFAULT
.if prefetch_distance == 0
.set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_NONE
.elseif (PREFETCH_TYPE_CURRENT > PREFETCH_TYPE_SIMPLE) && \
    ((src_bpp_ == 24) || (mask_bpp_ == 24) || (dst_w_bpp_ == 24))
.set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_SIMPLE
Make some macro arguments globally visible and accessible
from other macros

```assembly
.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

```assembly
W .req r0 /* width (is updated during processing) */
H .req r1 /* height (is updated during processing) */
DST_W .req r2 /* destination buffer pointer for writes */
DST_STRIDE .req r3 /* destination image stride */
SRC .req r4 /* source buffer pointer */
SRC_STRIDE .req r5 /* source image stride */
DST_R .req r6 /* destination buffer pointer for reads */
MASK .req r7 /* mask pointer */
MASK_STRIDE .req r8 /* mask stride */

PF_CTL .req r9 /* combined lines counter and prefetch */
  /* distance increment counter */
PF_X .req r10 /* pixel index in a scanline for current */
  /* prefetch position */
PF_SRC .req r11 /* pointer to source scanline start */
  /* for prefetch purposes */
PF_DST .req r12 /* pointer to destination scanline start */
  /* for prefetch purposes */
PF_MASK .req r14 /* pointer to mask scanline start */
  /* for prefetch purposes */

* Check whether we have enough registers for all the local variables.
* If we don't have enough registers, original width and height are
* kept on top of stack (and 'regs_shortage' variable is set to indicate
* this for the rest of code). Even if there are enough registers, the
* allocation scheme may be a bit different depending on whether source
* or mask is not used.
*
.if (PREFETCH_TYPE_CURRENT < PREFETCH_TYPE_ADVANCED)
  ORIG_W  .req  r10  /* saved original width */
  DUMMY   .req  r12  /* temporary register */
  .set    regs_shortage, 0
.elseif mask_bpp == 0
  ORIG_W  .req  r7   /* saved original width */
  DUMMY   .req  r8   /* temporary register */
  .set    regs_shortage, 0
.elseif src_bpp == 0
  ORIG_W  .req  r4   /* saved original width */
  DUMMY   .req  r5   /* temporary register */
  .set    regs_shortage, 0
.else
  ORIG_W  .req  r1   /* saved original width */
  DUMMY   .req  r1   /* temporary register */
  .set    regs_shortage, 1
.endif

  .set mask bpp_shift, -1
.if src bpp == 32
  .set src bpp_shift, 2
.elseif src bpp == 24
  .set src bpp_shift, 0
.elseif src bpp == 16
  .set src bpp_shift, 1
.elseif src bpp == 8
  .set src bpp_shift, 0
.elseif src bpp == 0
  .set src bpp_shift, -1
.else
  .error "requested src bpp (src bpp) is not supported"
.endif
.if mask bpp == 32
  .set mask bpp_shift, 2
.elseif mask bpp == 24
  .set mask bpp_shift, 0
.elseif mask bpp == 8
  .set mask bpp_shift, 0
.elseif mask bpp == 0
  .set mask bpp_shift, -1
.else
  .error "requested mask bpp (mask bpp) is not supported"
.endif
.if dst_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, \
              (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
    PF add PF_X, PF_X, #pixblock_size
    process_pixblock_head
cache_preload 0, pixblock_size
cache_preload_simple
subs W, W, #(pixblock_size * 2)
blt 2f

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

2:
  process_pixblock_tail
  pixst_a pixblock_size, dst_w_bpp, 
            (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W

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

.if regs_shortage
  pop {r0, r1}
.endif

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

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

8:
  /* Process exactly pixblock_size pixels if needed */
  tst W, #pixblock_size
  beq 1f
  pixld pixblock_size, dst_r_bpp, 
        (dst_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, 

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

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

.macro pixld_src x:vararg
pixld_s x
.endm

ldr UNIT_X, [sp]
push {r4-r8, lr}
ldr   SRC_WIDTH_FIXED, [sp,#(24 + 4)]
#if mask_bpp != 0
ldr   MASK, [sp,#(24 + 8)]
#endif
else
/*
 * Assign symbolic names to registers
 */
W     .req        r0      /* width (is updated during processing) */
DST_W  .req        r1      /* destination buffer pointer for writes */
SRC    .req        r2      /* source buffer pointer */
DST_R  .req        ip      /* destination buffer pointer for reads */
MASK   .req        r3      /* mask pointer */
#endif
#if (((flags) & FLAG_DST_READWRITE) != 0)
   set dst_r_bpp, dst_w_bpp
#else
   set dst_r_bpp, 0
#endif
#if (((flags) & FLAG_DEINTERLEAVE_32BPP) != 0)
   set DEINTERLEAVE_32BPP_ENABLED, 1
#else
   set DEINTERLEAVE_32BPP_ENABLED, 0
#endif
.macro pixld_src x:vararg
   pixld x
.endm
endif
#if ((flags) & FLAG_DST_READWRITE) != 0)
.set dst_r_bpp, dst_w_bpp
#else
.set dst_r_bpp, 0
#endif
#if ((flags) & FLAG_DEINTERLEAVE_32BPP) != 0)
.set DEINTERLEAVE_32BPP_ENABLED, 1
#else
.set DEINTERLEAVE_32BPP_ENABLED, 0
#endif
.macro fetch_src_pixblock
   pixld_src pixblock_size, src_bpp, \(src_basereg - pixblock_size * src_bpp / 64), SRC
.endm
init
mov   DST_R, DST_W
cmp   W, #pixblock_size
blt   8f
ensure_destination_ptr_alignment process_pixblock_head,\process_pixblock_tail,\process_pixblock_tail_head
subs  W, W, #pixblock_size
blt    7f
/* Implement "head (tail_head) ... (tail_head) tail" loop pattern */
pixld_a pixblock_size, dst_r_bpp, \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
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, \n       (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, \n       process_pixblock_head, \n       process_pixblock_tail, \n       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, \n       process_pixblock_head, \n       process_pixblock_tail, \n       process_pixblock_tail_head

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

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

else
    bx      lr /* exit */

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

.purgem    fetch_src_pixblock
.purgem    pixld_src

.endfunc
.endm

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

.macro generate_composite_function_nearest_scanline x:vararg
    generate_composite_function_scanline 1, x
.endm

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

.macro default_init
.endm

.macro default_cleanup
.endm

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

.macro default_init_need_all_regs
    vpush       {d8-d15}
.endm

.macro default_cleanup_need_all_regs
vpop {d8-d15}
.endm

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

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

 /******************************************************************************/
 /*
 * Conversion from planar a8r8g8b8 format (with a, r, g, b color components
 * in 64-bit registers in_a, in_r, in_g, in_b respectively) into 8 r5g6b6
 * 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

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* returned in (out0, out1) registers pair. Requires one temporary
* 64-bit register (tmp). 'out1' and 'in' may overlap, the original
* value from 'in' is lost
*/
.macro convert_four_0565_to_x888_packed in, out0, out1, tmp
  vshl.u16 out0, in,   #5 /* G top 6 bits */
  vshl.u16 tmp,  in,   #11 /* B top 5 bits */
  vsri.u16 in,   in,   #5  /* R is ready in top bits */
  vsri.u16 out0, out0, #6  /* G is ready in top bits */
  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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1.203 python 2.7.9 :r1.4

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
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<th>Year</th>
<th>Owner</th>
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2.1.1  2.1+2.0.1  2001  PSF  yes  
2.1.2  2.1.1  2002  PSF  yes  
2.1.3  2.1.2  2002  PSF  yes  
2.2 and above  2.1.1  2001-now  PSF  yes  

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1.204 python-jsonschema 2.5.1 :r0
1.204.1 Available under license :

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1.205 python-netaddr 0.7.14 :r0

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1.206 python-pam 0.1.4 :r0
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from setuptools import setup, find_packages
import sys, os

version = '0.1.4'

setup(name='pam',
      version=version,
      description="PAM interface using ctypes",
      long_description=""""
An interface to the Pluggable Authentication Modules (PAM) library on linux, written in pure python (using ctypes)***.

classifiers=["Development Status :: 3 - Alpha",
    "Intended Audience :: Developers",
    "License :: OSI Approved :: MIT License",
    "Operating System :: POSIX :: Linux",
    "Operating System :: MacOS :: MacOS X",
    "Programming Language :: Python",
    "Topic :: Software Development :: Libraries :: Python Modules",
    "Topic :: System :: Systems Administration :: Authentication/Directory"
],
keywords='',
author='Chris AtLee',
author_email='chris@atlee.ca',
url='http://atlee.ca/software/pam',
download_url = "http://atlee.ca/software/pam/dist/%s" % version,
license='MIT',
py_modules=['pam'],
zip_safe=True,
install_requires=[],
entry_points=""
# -*- Entry points: -*-
"

1.207 python-psutil 2.2.1 :r0

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1.208 python-pyudev 0.16.1 :r0

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1.209 python-pyyaml 3.11 :r0
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1.210 python-smartpm 1.5+git0+407a7eca76
:r0.4

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David Gibson <david@gibson.dropbear.id.au>
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necessary. Here is a sample; alter the names:

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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Public License instead of this License.

Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void)
 {
     if (DEBUG_TRACE()) {
-        x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+         x86emu_dump_xregs();
+     } else {
+         x86emu_dump_xregs();
+     }
+ }
x86emu_dump_regs();
}

if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
    printk("%04x:%04x ", M.x86.saved_cs, M.x86.saved_ip);
for (i=0; i< M.x86.enc_pos; i++) {
    sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
    printk("%-20s",buf1);
+    printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
    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("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();
}

/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op,
/* 0xc8 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xc9 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xca */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcb */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcc */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcd */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xce */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 0xcf */ x86emuOp2_illegal_op, /* TODO: bswap */
*/ 0xc8 */ x86emuOp2_bswap,
*/ 0xc9 */ x86emuOp2_bswap,
*/ 0xca */ x86emuOp2_bswap,
*/ 0xcb */ x86emuOp2_bswap,
*/ 0xcc */ x86emuOp2_bswap,
*/ 0xcd */ x86emuOp2_bswap,
*/ 0xce */ x86emuOp2_bswap,
*/ 0xcf */ x86emuOp2_bswap,
*/ 0xd0 */ x86emuOp2_illegal_op,
*/ 0xd1 */ x86emuOp2_illegal_op,
Index: ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
    imm = (s8)fetch_byte_imm();
    DECODE_PRINTF2("PUSH\t%d", 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_SEGOVR();
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. */  
+  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;
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val1 = fetch_data_byte(M.x86.R_SI);
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(val1, val2);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        + M.x86.R_ECX -= 1;
        + else
        + M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_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) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            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.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        + M.x86.R_ECX -= 1;
        + else
        + M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
    }
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+    if (M.x86.intr & INTR_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_DI += inc;
        +        if (M.x86.intr & INTR_HALTED)
+            break;
    }
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2783,9 +2812,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* move them until (E)CX is ZERO. */
+    count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
    M.x86.R_CX = 0;
+    if (M.x86.mode & SYSMODE_32BIT_REP)
+        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
@@ -2795,6 +2826,8 @@
    store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
}
M.x86.R_DI += inc;
+    if (M.x86.intr & INTR_HALTED)
+        break;
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* move them until CX is ZERO. */
    while (M.x86.R_CX != 0) {
        M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        if (M.x86.intr & INTR_HALTED)
            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--)
    {
        M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    }
    M.x86.R_SI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

if (M.x86.mode & SYSMODE_PREFIX_REPE) {
  /* REPE */
  - /* move them until CX is ZERO. */
  - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        - M.x86.R_CX -= 1;
        + if (M.x86.mode & SYSMODE_32BIT_REP)
        + M.x86.R_ECX -= 1;
        + else
        + M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
          break;
        + if (M.x86.intr & INTR_HALTED)
        + break;
      }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
  } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
      + /* move them until (E)CX is ZERO. */
      + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_byte(M.x86.R_AL, val2);
          - M.x86.R_CX -= 1;
          + if (M.x86.mode & SYSMODE_32BIT_REP)
          + M.x86.R_ECX -= 1;
          + else
          + M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF))
            break; /* zero flag set means equal */
          + if (M.x86.intr & INTR_HALTED)
          + break;
        }
      M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
      @@ -2951,8 +3003,8 @@
      TRACE_AND_STEP();
      if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
        - /* move them until CX is ZERO. */
        - while (M.x86.R_CX != 0) {
        + /* move them until (E)CX is ZERO. */
+ while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
    }
    @ @ -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. */
    /* move them until (E)CX is ZERO. */
+        while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
+                cmp_long(M.x86.R_EAX, val);
+            }
        }
        if (M.x86.mode & SYSMODE_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 @@
    DECODE_PRINTF("RET\t");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- 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 @@
  DECODE_PRINTF("RETF\n");
imm = fetch_word_imm();
  DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  M.x86.R_SP += imm;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -3488,10 +3550,10 @@
  {   
    START_OF_INSTR();
    DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
ip += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
TRACE_AND_STEP();
- M.x86.R_CX = 1;
- if (M.x86.R_CX != 0 && !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.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 ");
    } else
    - 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, 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 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE; 
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE; 
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
    break;
case 4: /* jmp word ptr */
    destval = fetch_data_word(destoffset);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;

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

Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
    #ifdef __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
    #ifdef __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@}
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* in until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* in until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
while (count--) {
    single_in(size);
    M.x86.R_DI += inc;
}
M.x86.R_CX = 0;
- if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    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(if (DEBUG_IO_TRACE())
        printk("inl %#04x \n", addr);
    - return inl(addr);
    + return 0;
    }

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

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

@@ -295,7 +288,6 @@
DB(if (DEBUG_IO_TRACE())
    printk("outl %#08x -> %#04x \n", val, addr);)
void X86EMU_setMemBase(void *base, size_t size)
{
    - M.mem_base = (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 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifdef __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_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+//# define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+//# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()            (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()      (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()       (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
#define DEBUG_SYSINT()         0
#define DEBUG_TRACECALL()      0
#define DEBUG_TRACECALLREGS()  0
+//# define DEBUG_TRACEJMP()       0
+//# define DEBUG_TRACEJMPREGS()   0
#define DEBUG_SYS()            0
#define DEBUG_MEM_TRACE()      0
#define DEBUG_IO_TRACE()       0
#define INTR_SYNCH 0x1
#define INTRASYNCH 0x1
#define INTRASYNCH 0x2
@@ -274,9 +278,9 @@
 /*
    * mode;
    * 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/iosdf/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 @@
#endif __cplusplus
}                          /* End of "C" linkage for C++ */
#endif /* __X86EMU_X86EMU_H */
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<td>TARGET_FREEBSD_NR_getsid</td>
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<td>TARGET_FREEBSD_NR_madvise</td>
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<td>TARGET_FREEBSD_NR_mignore</td>
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Open Source Used In Cisco IOS 15.7(3)M
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(""%s",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknod, "mknod", "%s(""%s",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)" , NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl, "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", "msgrcv", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)" , NULL, NULL },
{ TARGET_FREEBSD_NR_nanosec, "nanosec", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(""%s",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "openat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(""%s",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_pipe, "pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)" , NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(""%s",%#p,%#d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(""%s",""%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork, "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d,%d,%p)" , NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s("%s")", NULL, NULL },
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{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
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Also add information on how to contact you by electronic and paper mail.

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

```<program> Copyright (C) <year> <name of author>
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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1.215 rpm 5.4.14 :r0.6

1.215.1 Available under license:

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

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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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Version 2.1, February 1999

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

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

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

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

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

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

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

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

- Seth Arnold, for contributing to the documentation.
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STACK-LESS JUST-IN-TIME COMPILER
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THE C++ WRAPPER FUNCTIONS
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1.216 run-postinsts 1.0 :r9

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==============
Test 1.1:101
==============
Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
e1_l1_7
e1_l1_8
e1_l1_8
e1_l1_9
e1_l1_9
e1_l1_10
e1_l1_10
e1_l1_11
e1_l1_11
e1_l1_12
e1_l1_12
e1_l1_13
e1_l1_13
e1_l1_14
e1_l1_14
Test 1.2:102

e1_l1_1
e1_l1_2
e1_l1_3
e1_l1_4
e1_l1_5
e1_l1_6
e1_l1_7
e1_l1_8
e1_l1_9
e1_l1_10
e1_l1_11
e1_l1_12
e1_l1_13
e1_l1_14

Test 1.3:103

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

Test 1.4:104

Second type

Test 1.4.1:105

Test 1.5:106
Open Source Used In Cisco IOS 15.7(3)M

Test 1.6:107

s1_l1_1
s1_l1_1
s1_l1_2
s1_l1_2
s1_l1_3
s1_l1_3
s1_l1_4
s1_l1_4
s1_l1_5
s1_l1_5
s1_l1_6
s1_l1_6
s1_l1_7
s1_l1_7
s1_l1_8
s1_l1_8
s1_l1_9
s1_l1_9
s1_l1_10
s1_l1_10
s1_l1_11
s1_l1_11
s1_l1_12
s1_l1_12
s1_l1_13
s1_l1_13
s1_l1_14
s1_l1_14
s1_l1_11

Open Source Used In Cisco IOS 15.7(3)M

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 1.9:110
=============
s1_l1_1	s1_l1_2	s1_l1_3	s1_l1_4	s1_l1_5	s1_l1_6	s1_l1_7	s1_l1_8	s1_l1_9	s1_l1_10	s1_l1_11	s1_l1_12	s1_l1_13	s1_l1_14

=============
Test 1.10:111
=============
s1_l1_1	s1_l1_2	s1_l1_3
s1_l1_4
s1_l1_5
s1_l1_6
s1_l1_7
s1_l1_8
s1_l1_9
s1_l1_10
s1_l1_11
s1_l1_12
s1_l1_13
s1_l1_14

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

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

=============
e1_l1_1
e2_e1_l1_1
e2_e1_l1_1
e1_l1_2
e2_e1_l1_2
e2_e1_l1_2
e1_l1_3
e2_e1_l1_3
e2_e1_l1_3
e1_l1_4
e2_e1_l1_4
e2_e1_l1_4
e1_l1_5
e2_e1_l1_5
e2_e1_l1_5
e1_l1_6
e2_e1_l1_6
e2_e1_l1_6
e1_l1_7
e2_e1_l1_7
e2_e1_l1_7
e1_l1_8
e2_e1_l1_8
e2_e1_l1_8
e1_l1_9
e2_e1_l1_9
e2_e1_l1_9
e1_l1_10
e2_e1_l1_10
e2_e1_l1_10

-------------
e1_l1_11
e2_e1_l1_11
e2_e1_l1_11
e1_l1_12
e2_e1_l1_12
e2_e1_l1_12
e1_l1_13
e2_e1_l1_13
e2_e1_l1_13
e1_l1_14
e2_e1_l1_14
e2_e1_l1_14

=============  
Test 1.14:115
Test 1.15:116
s1_e1_l1_1
s1_e1_l1_1
el_l1_2
s1_e1_l1_2
s1_e1_l1_2
el_l1_3
s1_e1_l1_3
s1_e1_l1_3
el_l1_4
s1_e1_l1_4
s1_e1_l1_4
el_l1_5
s1_e1_l1_5
s1_e1_l1_5
el_l1_6
s1_e1_l1_6
s1_e1_l1_6
el_l1_7
s1_e1_l1_7
s1_e1_l1_7
el_l1_8
s1_e1_l1_8
s1_e1_l1_8
el_l1_9
s1_e1_l1_9
s1_e1_l1_9
el_l1_10
s1_e1_l1_10
s1_e1_l1_10
el_l1_11
s1_e1_l1_11
s1_e1_l1_11
el_l1_12
s1_e1_l1_12
s1_e1_l1_12
el_l1_13
s1_e1_l1_13
s1_e1_l1_13
el_l1_14
s1_e1_l1_14
s1_e1_l1_14

==============
Test 1.16:117
==============
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_12
e1_l1_13
e1_l1_13
e1_l1_14
e1_l1_14

=============
Test 1.17:118
==============

l1_1
l1_1
l1_2
l1_2
l1_3
l1_3
l1_4
l1_4
l1_5
l1_5
l1_6
l1_6
l1_7
l1_7
l1_8
l1_8
l1_9
l1_9
l1_10
l1_10
l1_11
l1_11
l1_12
l1_12
l1_13
l1_13
l1_14
l1_14

============= Test 1.18:119==============
l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
Testing address ranges

Test 2.1:120

Test 2.2:121

Test 2.3:122

Test 2.4:123

Test 2.5:124

Test 2.6:125

Test 2.7:126

Test 2.9:127
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
===========
l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14
l2_1
l2_2
l2_3
l2_4
l2_5
l2_6
l2_7
l2_8
l2_9

Test 2.14:132
===========
l1_1
Test 2.16:134
=============
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14
l2_1
l2_2
l2_3
l2_4
l2_5
l2_6

-------------
Test 2.17:135
-------------
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_14
l2_1
l2_2
l2_3
l2_4
l2_5
l2_6
l2_7
l2_8
l2_9

-------------
Test 2.18:136
-------------
l2_3
l2_4
l2_5
l2_6
TEST 2.19: 137

TEST 2.20: 138

Brace and other grouping

TEST 3.1: 139

TEST 3.2: 140
Test 3.3:141

^l1T1$
^l1T2$
^l1T3$

Test 3.4:142

^l1_1
^l1_2
^l1_3

Testing a c d and i commands

Test 4.1:143

before_ill_1
after_ibefore_ill_1
before_ill_2
after_ibefore_ill_2
before_ill_3
Test 4.2:144

before_al1_1
after_abefore_al1_1
before_al1_2
after_abefore_al1_2
before_al1_3
after_abefore_al1_3
before_al1_4
after_abefore_al1_4
before_a5-1211_5
after_abefore_a5-1211_5
appended
before_a5-1211_6
after_abefore_a5-1211_6
appended
before_a5-1211_7
after_abefore_a5-1211_7
appended
before_a5-1211_8
after_abefore_a5-1211_8
appended
before_a5-1211_9
after_abefore_a5-1211_9
appended
before_a5-1211_10
after_abefore_a5-1211_10
appended
before_a5-1211_11
after_abefore_a5-1211_11
appended
before_a5-1211_12
after_abefore_a5-1211_12
appended
before_al1_13
after_abefore_al1_13
before_al1_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
==============
^l1_1
^l1_1$
apended
^l1_2
^l1_2$
apended
^l1_3
^l1_3$
apended
^l1_4
^l1_4$
apended
^l1_5
^l1_5$
apended
^l1_6
^l1_6$
apended
^l1_7
^l1_7$
apended
^l1_8
^l1_8
11_9$
^l1_10
apended
^l1_10
11_11$
^l1_12
^l1_12$
apended
^l1_13
^l1_13$
apended
^l1_14
^l1_14$
apended
^l2_1
^l2_1$
Test 4.4:146

hello

hello

hello

hello

hello

hello

hello

hello

hello

hello

--------------
Test 4.5:147

--------------
hello

--------------
Test 4.6:148

--------------
hello

--------------
Test 4.7:149

--------------
hello

==================
Test 4.8:150
==================
Testing labels and branching

==================
Test 5.1:151
==================
label2_l1_1
label3_label2_l1_1
label1_l1_2
label1_l1_3
label1_l1_4
label1_l1_5
label1_l1_6
label1_l1_7
label1_l1_8
label1_l1_9
label1_l1_10
label1_l1_11
label1_l1_12
label2_l1_13
label3_label2_l1_13
label2_l1_14
label3_label2_l1_14

==================
Test 5.2:152
==================
tested l2_1
tested l2_2
tested l2_3
tested l2_4
tested l2_5
tested l2_6
tested l2_7
tested l2_8
tested l2_9
tested l2_10
tested l2_11
tested l2_12
tested l2_13
tested l2_14

==================
Test 5.3:153
Test 5.4:154

Test 5.5:155

Test 5.6:156
Open Source Used In Cisco IOS 15.7(3)M

l1_5

Test 5.7:157

width l1_1
l1_2
l1_3
l1_4
hello
l1_5

Test 5.8:158

made m1_1
m1_2
m1_3
m1_4
m1_5
m1_6
m1_7
m1_8
m1_9
m1_10
m1_11
m1_12
m1_13
m1_14
Pattern space commands

Test 6.1:159

changed
cnanged
changed
cnanged
cnanged
cnanged
cnanged
cnanged
cnanged
cnanged
cnanged
cnanged
cnanged
Test 6.2:160

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

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
Test 6.5:163

Test 6.6:164

Testing print and file routines

Test 7.1:165
Test 7.2: 166

l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
l1_10
l1_11
l1_12
l1_13
l1_14
15
l2_1
16
l2_2
17
l2_3
18
l2_4
19
l2_5
20
l2_6
21
l2_7
22
l2_8
23
l2_9

Test 7.3: 167

l1_1
l1_2
l1_3
l1_4
l1_5
l1_6
l1_7
l1_8
l1_9
Test 7.4:168

Test 7.5:169
Test 7.6:170

Test 7.8:171

Testing substitution commands

Test 8.1:172

XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
XXXX
Open Source Used In Cisco IOS 15.7(3)M

Test 8.2:173

Test 8.3:174

Test 8.4:175

l1_1
2713

Test 8.5:176

Test 8.6:177
(l)(1)(1)(4)

Test 8.7:178

Test 8.8:179

Test 8.9:180
Test 8.10:181
Test 8.13:184

Test 8.14:185

Test 8.15:186
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1.225 sysv-rc 2.87dsf-4ubuntu18
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This is the Debian GNU/Linux prepackaged version of System V Init.

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

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

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software
92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
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The sysvinit package in Debian is maintained as an alioth project.
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The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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This is the Debian GNU/Linux prepackaged version of System V Init.

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

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

The upstream source is available at:

Primary-Site: ftp.cistron.nl /pub/people/miquels/software
92K sysvinit-2.86.tar.gz
Alternate-Site: sunsite.unc.edu /pub/Linux/system/daemons/init
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The sysvinit package in Debian is maintained as an alioth project.
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1.230 tcp-wrappers 7.6 :r10
1.230.1 Available under license :

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1.231 tcpdump 4.7.4  :r0
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1.232 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

/#ifndef TUNSETGROUP

Open Source Used In Cisco IOS 15.7(3)M

2830
#define TUNSETGROUP   _IOW('T', 206, int)
#endif

static void Usage(char *name)
{
  fprintf(stderr, "Create: %s [-b] [-u owner] [-g group] [-t device-name] "
     "[-p|-n] [-f tun-clone-device]\n", name);
  fprintf(stderr, "Delete: %s -d device-name [-f tun-clone-device]\n\n", name);
  fprintf(stderr, "The default tun clone device is /dev/net/tun - some systems" " use /dev/misc/net/tun instead\n" " -b will result in brief output (just the device name)\n" " -n will result in a point-to-point tun device\n" " -p in an ethernet tap device. Default is a tap,\n" " 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 'n':
        if(type != 0)
          Usage(name);
        type = IFF_TAP;
        break;
      case 'p':
        if(type != 0)
          Usage(name);
        type = IFF_TAP;
        break;
      case 't':
        file = optarg;
        break;
      case 'u':
        if(type != 0)
          Usage(name);
        break;
      case 'v':
        if(type != 0)
          Usage(name);
        break;
      case 'h':
        if(type != 0)
          Usage(name);
        break;
      default:
        exit(1);
    }
  }

  return 0;
}
type = IFF_TUN;
break;
case 'u':
pw = getpwnam(optarg);
if (pw != NULL){
    owner = pw->pw_uid;
    break;
}
    owner = strtol(optarg, &end, 0);
if (*end != '0'){
    fprintf(stderr, "'\%s' is neither a username nor a numeric uid\n",
            optarg);
    Usage(name);
}
    break;
case 'g':
gr = getgrnam(optarg);
if (gr != NULL){
    group = gr->gr_gid;
    break;
}
    group = strtol(optarg, &end, 0);
if (*end != '0'){
    fprintf(stderr, "'\%s' is neither a groupname nor a numeric group\n",
            optarg);
    Usage(name);
}
    break;

    case 't':
    tun = optarg;
    break;
    case '?':
    case 'h':
default:
    Usage(name);

}
}
argv += optind;
argc -= optind;

if (argc > 0)
    Usage(name);

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

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

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

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

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

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

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Version 2, June 1991

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#
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#
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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 l 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 $bn ..." remove=1
}
for i in 0 1 2 3 4 5 6 7 8 9 S; do
    dn="$\{etcd\}$\{i\}.d"
    if [ ! -d $dn ]; then
        continue;
    fi
    for f in ${dn}/[SK][?][?][?]; do
        if [ -L $f ]; then
            if [ $remove -eq 0 ]; then
                return 1
            fi
            echo " $f"
        fi
        if [ $notreally -eq 1 ]; then
            continue
        fi
        rm $f
    fi
    done
    done
    return 0

}

dolink()
{
    startstop=$1
    lev=`echo $2 | cut -d/ -f1`
    nn=`echo $2 | cut -d/ -f2`
    fn="$\{etcd\}$\{lev\}.d/$\{startstop\}$\{nn\}$\{bn\}"
    if [ $notreally -eq 0 ]; then
        if [ $verbose -eq 1 ]; then
            echo " $fn -> ../init.d/$bn"
        fi
        mkdir -p `dirname $fn`
        ln -s ../init.d/$bn $fn
    fi
    if [ $dostart -eq 1 ]&;& [ $startstop = "$S" ]&;& [ $lev = $RUNLEVEL ]; then
        $fn start || true
    fi
}

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

echo " Adding system startup for $initd/$bn."

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

while [ $# -gt 0 ]; do
  case $1 in
    -n) notreally=1
      shift
      continue ;;
    -v) verbose=1
      shift
      continue ;;
    -f) force=1
      shift
      continue ;;
    -s) dostart=1
      shift
      continue ;;
    -r) shift
      root=$1
      initd="${root}$initd"
      etcd="${root}${etcd}"
      shift
      continue ;;
    -h | --help)
      usage
      exit 0 ;;
    -*)
      usage
      exit 1 ;;
  esac
  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 "$linksn" ]; then
                break
            fi
            sn="$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
        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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(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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1.241 util-linux 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

BZh91AY&SYI"~@H R h% CFTC@OQ6_@
rTJmlAH1II/F0HA]BAk@
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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

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Initialize empty image
f1c9645dcb14efddc78a322685f26eb bsd.img
Create new DOS partition table
57c721e38d1266c2d055067c18f2ef9 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
ada64ace122978d00d1c0e5ee45d26 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

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

Open Source Used In Cisco IOS 15.7(3)M
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

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

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

Create default BSD
2e1cee529cb59c9341afef0443f196a1 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):
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/optional): 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
b  4096 20479 16384  8M unused       0   0   0
d  0 16064 16065  7.9M unused      0   0   0

t
Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

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

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

Command (m for help):

0  unused     5 4.1BSD     9 4.4LFS     d boot
1  swap       6 Eighth Edition a unknown e ADOS
2  Version 6  7 4.2BSD     b HPFS       f HFS
3  Version 7  8 MS-DOS     c ISO-9660 10 AdvFS
4  System V   
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X-Authors:
XZ Utils is developed and maintained upstream by Lasse Collin. Major portions are based on code by other authors; see AUTHORS for details. Most of the source has been put into the public domain, but some files have not (details below).
X-Overview:
Different licenses apply to different files in this package. Here is a rough summary of which licenses apply to which parts of this package (but check the individual files to be sure):
liblzma is in the public domain.

- xz, xzdec, and lzmadec command line tools are in the public domain unless GNU getopt_long had to be compiled and linked in from the lib directory. The getopt_long code is under GNU LGPLv2.1+.

- The scripts to grep, diff, and view compressed files have been adapted from gzip. These scripts and their documentation are under GNU GPLv2+.

- All the documentation in the doc directory and most of the XZ Utils specific documentation files in other directories are in the public domain.

- Translated messages are in the public domain.

- The build system contains public domain files, and files that are under GNU GPLv2+ or GNU GPLv3+. None of these files end up in the binaries being built.

- Test files and test code in the tests directory, and debugging utilities in the debug directory are in the public domain.

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If you have questions, don't hesitate to ask the author(s) for more information.

X-Note:
The rest of this file only describes the source package. The binary packages contain some files derived from other works: for example, all images in the API documentation come from Doxygen.

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X-Note:
From: Lasse Collin <lasse.collin@tukaani.org>
To: Jonathan Nieder <jnieder@gmail.com>
Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

[...]

> AUTHORS, ChangeLog, COPYING, README, THANKS, TODO,
> dos/README, windows/README

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Files: dos/config.h
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X-Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,
  David Mackenzie, Bruno Haible, and many others.
X-Origin: configure.ac from XZ Utils,
  visibility.m4 serial 1 (gettext-0.15),
  Autoconf 2.52g
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Files: po/Makevars
X-Origin: gettext-runtime/po/Makevars (gettext-0.12)
X-Authors: Bruno Haible
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1.247 zlib 1.2.8 :r0

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1.248 zlib1g 1:1.2.3.4.dfsg-3ubuntu1

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

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

Acknowledgments:

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

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