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1.1.1 Available under license:

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Version 2.1, February 1999

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

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

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

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

6. As an exception to the Sections above, you may also combine or
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modification of the work for the customer's own use and reverse
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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
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b) Use a suitable shared library mechanism for linking with the
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will operate properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

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1.4 adduser 3.112ubuntu1
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the "copyright" line and a pointer to where the full notice is found.

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

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<signature of Ty Coon>, 1 April 1989
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\end{verbatim}

\textbf{1.8 avahi 0.6.31 :r11.1}

\textbf{1.8.1 Available under license :}

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

A separable portion of the object code, whose source code is excluded
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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

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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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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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
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1.17 bsdutils 1:2.17.2-0ubuntu1

1.17.1 Available under license:

size: 838608, sector size: 512, PT: dos, offset: 446
---
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
size: 4456448, sector size: 512, PT: bsd, offset: 512
---
#1: 7936 4864 0x7
#2: 12544 3584 0x7

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This 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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bzip2/libbzip2 version 1.0.4 of 20 December 2006
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1.19 busybox-initramfs 1:1.15.3-1ubuntu5

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Julian Seward, jseward@bzip.org
bzip2/libbz2 version 1.0.6 of 6 September 2010

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```
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 8x13b.bdf 8x13bc.bdf 8x13.d.bdf 8x13c.bdf 8x13-il2.bdf 8x13o.bdf
9x15b.bdf 9x15bc.bdf 9x15.d.bdf 9x15c.bdf 9x15b-ll2.bdf 9x15-il2.bdf
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```

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1.37 debianutils 3.2.3

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1.46 e2fsprogs 1.42.9 :r0

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

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

#ifndef __ss_h
#define __ss_h __FILE__

#include <ss/ss_err.h>

#define __SS_CONST const
#define __SSPROTO (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_PROTO 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
# Open Source Used in Cisco IOS 15.7(3)M1

```c
void ss_help __SS_PROTO;
#if 0
char *ss_current_request(); /* This is actually a macro */
#endif

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

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

extern ss_request_table ss_std_requests;
#endif /* _ss_h */

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Unix SMB/CIFS implementation.
trivial database library - standalone version

trivial database library - private includes

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

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

# BSIDLIB_VERSION = 1.0
# BSIDLIB_IMAGE = libce
# BSIDLIB_MYDIR = et
# BSIDLIB_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): $(OBJECTS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJECTS))
$(MV) pic/$(BASHLIB)
$(RM) -f ..$(BASHLIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS)
'echo $(my_dir) | sed -e 's;lib/;;' /$(BSD_LIB) $(BSD_LIB))

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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Gadi Oxman, August 1995

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

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

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

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

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1.57 glib-2.0 2.44.1 :r0.1

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

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

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

#ifndef _PCRE_H
#define _PCRE_H

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#define _PCRE_H
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/* The current PCRE version information. */

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

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

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

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

#ifndef PCRE_EXP_DECL
  # ifndef __cplusplus
  #   define PCRE_EXP_DECL  extern
  # endif
#endif

#ifndef __cplusplus
  # ifndef PCRECPP_EXP_DECL
  #   define PCRECPP_EXP_DECL  extern
  # endif
#endif

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

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

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

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

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

#define PCRE_ERROR_NOMATCH (-1) /* Never used, for backward compatibility */
#define PCRE_ERROR_NULL (-2)
#define PCRE_ERROR_BADOPTION (-3)
#define PCRE_ERROR_BADMAGIC (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE (-5) /* For backward compatibility */
#define PCRE_ERROR_BADOPTION (-3)
#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_BADUTF8 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL (-12)
#define PCRE_ERROR_BADPARTIAL (-13)
#define PCRE_ERROR_INTERNAL (-14)
#define PCRE_ERROR_BADCOUNT (-15)
#define PCRE_ERROR_DFA_UITEM (-16)
#define PCRE_ERROR_DFA_UCOND (-17)
#define PCRE_ERROR_DFA_UMLIMIT (-18)
#define PCRE_ERROR_DFA_WSSIZE (-19)
#define PCRE_ERROR_DFA_RECURSE (-20)
#define PCRE_ERROR_DFA_RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE (-23)
#define PCRE_ERROR_BADOFFSET (-24)
#define PCRE_ERROR_SHORTUTF8 (-25)
#define PCRE_ERROR_SHORTUTF16 (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)

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

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

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

/* Request types for pcre_fullinfo() */

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

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

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

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

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

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

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

/* Types */

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

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

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

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

#ifndef PCRE_SPTR16
#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

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

/* The structure for passing additional data to pcre_exec(). This is defined in
such as way as to be extensible. Always add new fields at the end, in order to
remain compatible. */

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

/* 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 */
} pcre16_extra;
const unsigned char *tables; /* Pointer to character tables */
unsigned long int match_limit_recursion; /* Max recursive calls to match() */
PCRE_UCHAR16 **mark; /* For passing back a mark pointer */
void *executable_jit; /* Contains a pointer to a compiled jit code */
}
pcre16_extra;

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

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

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

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

typedef pcre_jit_stack *(*pcre_jit_callback)(void *);
typedef pcre16_jit_stack *(*pcre16_jit_callback)(void *);

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
const unsigned char *);
PCRE_EXPDECL pcre *pcre_compile2(const char *, int, int *, const char **,
int *, const unsigned char *);
PCRE_EXPDECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
int *, const unsigned char *);
PCRE_EXPDECL int pcre_config(int, void *);
PCRE_EXPDECL int pcre16_config(int, void *);
PCRE_EXPDECL int pcre_copy_named_substring(const pcre *, const char *,
int *, int, const char *, char *, int);
PCRE_EXPDECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXPDECL int pcre_copy_substring(const char *, int *, int, int,
char *, int);
PCRE_EXPDECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
PCRE_UCHAR16 *, int);
PCRE_EXPDECL int pcre_dfa_exec(const pcre *, const pcre_extra *,
const char *, int, int, int *, int *, int *, int);
PCRE_EXPDECL int pcre16_dfa_exec(const pcre16 *, const pcre16_extra *,
PCRE_SPTR16, int, int, int *, int *, int *, int);
PCRE_EXPDECL int pcre_exec(const pcre *, const pcre_extra *, PCRE_SPTR,
int, int, int *, int);
PCRE_EXPDECL int pcre16_exec(const pcre16 *, const pcre16_extra *,
PCRE_SPTR16, int, int, int *, int);
PCRE_EXPDECL void pcre_free_substring(const char *);
PCRE_EXPDECL void pcre16_free_substring(PCRE_SPTR16);
PCRE_EXPDECL void pcre_free_substring_list(const char **);
PCRE_EXPDECL void pcre16_free_substring_list(PCRE_SPTR16 *);
PCRE_EXPDECL int pcre_fullinfo(const pcre *, const pcre_extra *, int,
void *);
PCRE_EXPDECL int pcre16_fullinfo(const pcre16 *, const pcre16_extra *, int,
void *);
PCRE_EXPDECL int pcre_get_named_substring(const pcre *, const char *,
int *, int, const char *, const char **);
PCRE_EXPDECL int pcre16_get_named_substring(const pcre16 *, PCRE_SPTR16,
int *, int, PCRE_SPTR16, PCRE_SPTR16 *);
PCRE_EXPDECL int pcre_get_stringnumber(const pcre *, const char *);
PCRE_EXPDECL int pcre16_get_stringnumber(const pcre16 *, PCRE_SPTR16);
PCRE_EXPDECL int pcre_get_stringtable_entries(const pcre *, const char *,
char **, char **);
PCRE_EXPDECL int pcre16_get_stringtable_entries(const pcre16 *, PCRE_SPTR16,
PCRE_UCHAR16 **, PCRE_UCHAR16 **);
PCRE_EXPDECL int pcre_get_substring(const char *, int *, int, int,
const char **);
PCRE_EXPDECL int pcre16_get_substring(PCRE_SPTR16, int *, int, int,
PCRE_SPTR16 *);
PCRE_EXPDECL int pcre_get_substring_list(const char *, int *, int,
const char ***);
PCRE_EXPDECL 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 *);

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

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1.59 gnutls 3.3.17.1 :r0

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

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

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1.62 gzip 1.3.12-9ubuntu1.1

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The Debian tree is maintained with "git" at:
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1.70 initscripts 2.87dsf-4ubuntu18

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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. The project page is http://alioth.debian.org/projects/pkg-sysvinit/.

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>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x%d
#
# PC Screen (console) Fonts - psf2 header
#
0 lelong0x864ab572psf2 screen font data
>12lelong&11 with Unicode index
>16lelongx%b, %d glyphs
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1.76 klibc-utils 1.5.20-1

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1.81 libblkid1 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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Here the stream cipher has been modified always to include the time
when initializing the state. That makes it impossible to
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To compute the message digest of a chunk of bytes, declare an
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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

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

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

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

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

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

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========

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1.89 libcap2 1:2.19-2

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-------------------------------------------------------------------------
1.90 libcgroup 0.41 :r0.3
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This package was put together by Yann Dirson <dirson@debian.org>,
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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)

$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

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

Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
  Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
  */
  */
  - Unix SMB/CIFS implementation.
  + trivial database library - standalone version
  
  - trivial database library - private includes
  -
  - Copyright (C) Andrew Tridgell 2005
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This package was debianized by Colin Walters <walters@debian.org> on Thu, 6 Mar 2003 18:01:37 -0500

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

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lib/gssapi/mechglue/g_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/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
@end smallexample

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the following new or changed files:

@smallexample
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
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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
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(lib/libgss/g_imp_name.c
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(lib/libgss/g_initialize.c
(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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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in src/lib/gssapi, including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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

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

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1.105 libkeyutils1 1.4-1

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**1.106 libklibc 1.5.20-1**

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

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
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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
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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
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lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
@end smallexample

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lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.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
@end example
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the following new or changed files:

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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
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
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@end smallexample
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lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
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lib/krb5/kdb/kdb_convert.c
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Maintainer: Lasse Collin <lass.e.collin@tukaani.org>
Source: http://tukaani.org/xz
git://ctrl.tukaani.org/xz.git
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Subject: Re: XZ utils for Debian
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   visibility.m4 serial 1 (gettext-0.15),
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X-Authors: Bruno Haible
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1.117.1 libpam-modules 1.1.1-4ubuntu1

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1.118 libpam-runtime 1.1.1-4ubuntu1

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1.119 libpam0g 1.1.1-4ubuntu1

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1.122 libpciaccess 0.13.4 :r0

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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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popt was originally written by Erik Troan when he was with RedHat. It's now maintained as part of Fedora.

Version 1.14 has been obtained from http://rpm5.org/files/popt/

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1.131 libsemanage 2.4 :r0.1

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

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

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

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

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

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

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

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

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

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

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/
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

Open Source Used In Cisco IOS 15.7(3)M1
The 'numbers' are in 1000s of bytes per second processed.

<table>
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<tr>
<th>type</th>
<th>8 bytes</th>
<th>64 bytes</th>
<th>256 bytes</th>
<th>1024 bytes</th>
<th>8192 bytes</th>
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</thead>
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<td>md2</td>
<td>130.99k</td>
<td>367.68k</td>
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<td>md5</td>
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<td>des cbc</td>
<td>3309.11k</td>
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<td>blowfish cbc</td>
<td>4687.34k</td>
<td>5949.97k</td>
<td>6182.43k</td>
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</tr>
<tr>
<td>rsa 4096 bits</td>
<td>1.690s</td>
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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

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<table>
<thead>
<tr>
<th>type</th>
<th>8 bytes</th>
<th>64 bytes</th>
<th>256 bytes</th>
<th>1024 bytes</th>
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<td>sha1</td>
<td>11.27k</td>
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<td>84.31k</td>
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<td>sha160</td>
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<td>30.38k</td>
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<td>des ede3</td>
<td>10.51k</td>
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<td>11.01k</td>
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<td>40.03k</td>
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</tr>
<tr>
<td>blowfish cbc</td>
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<td>cast cbc</td>
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<td>51.37k</td>
</tr>
<tr>
<td>rsa 512 bits</td>
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</tr>
<tr>
<td>rsa 1024 bits</td>
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<td>rsa 4096 bits</td>
<td>1.690s</td>
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</tbody>
</table>

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Version 3, 29 June 2007


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1.143 libusb-0.1-4 2:0.1.12-15ubuntu2

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That's all there is to it!

1.145 libuuid1 2.17.2-0ubuntu1

1.145.1 Available under license:

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

BZh91AY&SY"~@H R h%CFTC@OQ6_@
tTjmAH1]|/F0HA]BAk@
BZh91AY&SY`hC+[H]?L*UT{JDCCMhdTPJ
4b"LLLD3Mf0h
4JM&hC&A
4h
P44OP4&FCFz("
W ">CN
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\]]%HFYP@R "o""U*R
)CbW"XZTK8o%"Z|5|!-9%m/cB7D4F"N7r:o2&HLP)9p)N^g~<?Im9Q@+CvT
]0U"h-JZ[EkZMKZP(0@I6YSTK6jS\][S$S@S$ISS/SU$S}\S1SISIS1 .]$S$1S
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sUEH:Euu;jGD;r
#XZ`;{n} ) ]@8X(8HXo<@>bdo:>6BFJNRVZ"y
Tb)}*j+k,l-D
y{}/^FH:ZzZ;Cv}BBaSISISISISB<A<8aU'J7UUU33333330ISISSISPPur8(>\}"@ISISIS~M#@qr\x[(@jVZ:a
H-kfWULR&vL1:Hs1p07R@mb'bIIE2m"DSyP(Ejwq_X5u fBWXH m*r]5'QndC .,1JU@-h@ @IC-1^A5a
-7@\(Ei.E7q)DP0,5:
(]9@/@/D]p
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This is the Debian GNU/Linux prepackaged version of util-linux.

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1.146 libvirt 1.2.19 :r1

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1.149 libxau 1.0.8 :r0

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1.152 libxml2 2.9.2 :r0

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1.153 libyaml 0.1.6 :r0
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The following XC500 firmware file "dvb-fe-xc5000-1.6.114.fw" was created based on "xc5000_firmwares_32000Khz.h".

Firmware provided as part of an XC5000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@linuxtv.org> on July 1, 2009.

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 * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
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 * 10/4/97 - began heavy inline documentation of the code. Corrected typos
 * and spelling mistakes.
 * 10/5/97 - added code to handle PHY interrupts, disable PHY on
 * loss of link, and correctly re-enable PHY when link is
 * re-established. (put back CFG_PHYIE)
 *
 * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
 *
Linux driver for the IDT77201 NICStar PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
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* M. Welsh, 6 July 1996
* */
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single nx200x frontend driver.

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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com) */
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk) *
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc. *
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on loss of link, and correctly re-enable PHY when link is re-established. (put back CFG_PHYIE)
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155; see init_nicstar() for PHY initialization to change this. This driver expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers as needed. This means that data must always be copied to create the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire SDU, and leave <small_buffer_data> bytes empty at the start. Then copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer combined, allow nicstar_free_rx_skb to be called to recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation details.
*
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*
* M. Welsh, 6 July 1996
*
*
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Here is a list of the main contributors to lm-sensors version 3.

* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
* Bob Schlaermann
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  libsensors and sensors.
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* 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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Network Working Group  H. Krawczyk
Request for Comments: 2104  IBM
Category: Informational  M. Bellare
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February 1997

HMAC: Keyed-Hashing for Message Authentication

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1.166 makedev 2.3.1-89ubuntu1
1.166.1 Available under license:

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

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

Copyright:

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

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

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

It was never explicitly released as GPL, as that would have required
including the file COPYING which would have been much larger than the
actual MAKEDEV script (I was also too lazy to find out what incantations
needed to be made). However, it is intended to be used as anyone sees
fit, and the statement under "Copying Policy" is "Freely Redistributable"
(see MAKEDEV.lsm from any of the releases I made).

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

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

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

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

A complete copy of the GPL is provided on Debian systems in the file
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1.167 mawk 1.3.3-15ubuntu2

1.167.1 Available under license:

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This is the Debian GNU prepackaged version of mawk, an implementation of the AWK Programming Language. mawk was written by Mike Brennan <brennan@whidbey.com>

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

It is currently being maintained by James Troup <james@nocrew.org>.

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**1.168 module-init-tools 3.12-1ubuntu2**

**1.168.1 Available under license:**

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1.169 modutils-initscripts 1.0 :r7.1

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1.170 mount 2.17.2-0ubuntu1

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

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

1.173 ncurses-base 5.7+20100626-0ubuntu1

1.174 ncurses-bin 5.7+20100626-0ubuntu1

1.175 net-tools 1.60-23ubuntu3

1.175.1 Available under license:

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30. Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code
   for Version 3 as specified in RFC-1305
31. Danny Mayer <mayer@ntp.org> Network I/O, Windows Port, Code
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32. David L. Mills <mills@udel.edu> Version 4 foundation: clock
   discipline, authentication, precision kernel; clock drivers:
   Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics;
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40. Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
41. Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
42. Jack Sasportas <jack@innovativeinternet.com> Saved a lot of space
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43. Ray Schnitzler <schnitz@unipress.com> Unixware1 port
44. Michael Shields <shields@tembel.org> USNO clock driver
45. Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
46. Harlan Stenn <harlan@pfcs.com> GNU automate/autoconfigure
makeover, various other bits (see the ChangeLog)
47. Kenneth Stone <ken@sdd.hp.com> HP-UX port
48. Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support
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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.182 openssh-client 1:5.5p1-4ubuntu4

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

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

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1.185 OpenSSL 1.0.2d :1

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## 1.186 OpenSSL 0.9.8j

### 1.186.1 Available under license:

- 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>
</tbody>
</table>
idea cbc 26.74k 29.23k 29.45k 29.60k 29.74k
rc2 cbc 34.27k 39.39k 40.07k 40.16k
rc5-32/12 cbc 64.31k 83.18k 85.70k 86.70k 87.09k
blowfish cbc 48.86k 59.18k 60.86k 61.20k 61.37k

cast cbc 42.67k 50.01k 50.86k 51.20k 51.37k

<table>
<thead>
<tr>
<th>rsa</th>
<th>bits</th>
<th>sign</th>
<th>verify</th>
<th>sign/s</th>
<th>verify/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>rsa</td>
<td>512</td>
<td>0.7738s</td>
<td>0.0774s</td>
<td>1.3</td>
<td>12.9</td>
</tr>
<tr>
<td>rsa</td>
<td>1024</td>
<td>4.3967s</td>
<td>0.2615s</td>
<td>0.2</td>
<td>3.8</td>
</tr>
<tr>
<td>rsa</td>
<td>2048</td>
<td>29.5200s</td>
<td>0.9664s</td>
<td>0.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>dsa</th>
<th>bits</th>
<th>sign</th>
<th>verify</th>
<th>sign/s</th>
<th>verify/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>dsa</td>
<td>512</td>
<td>0.7862s</td>
<td>0.9709s</td>
<td>1.3</td>
<td>1.0</td>
</tr>
<tr>
<td>dsa</td>
<td>1024</td>
<td>2.5375s</td>
<td>3.1625s</td>
<td>0.4</td>
<td>0.3</td>
</tr>
<tr>
<td>dsa</td>
<td>2048</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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of UUIDs which can be found at http://www.ossp.org/pkg/lib/uuid/

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HOME AND DOCUMENTATION

The documentation and latest release can be found on

  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 [], unsigned int);
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
};

/* 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. */
#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));

    /* Compute the message digest */
    MD5Transform(context->state, context->buffer);
    for (i = 0; i < 16; i++)
        digest[i] = context->state->h[i];

    /* Zeroize the context */
    memset(context, 0x0, sizeof(MD5_CTX));
}

/* MD5 hash function. */
static void MD5Hash(
    MD5_CTX *context,                                        /* context */
    unsigned char *input,                                /* input */
    unsigned int inputLen)                     /* length of input */
{
    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));

    /* Complete the transformation with a final block of all zeros */
    context->count[0] += ((UINT4)inputLen << 3) & 0x3f;
    context->count[1]++;
    MD5Transform(context->state, context->buffer);
}

/* MD5 message-digest algorithm. */
static void MD5(unsigned char digest[],
                unsigned char *input, unsigned int inputLen)
{
    /* Prepare context */
    MD5_CTX context;
    MD5_Init(&context);

    /* Hash input */
    MD5Hash(&context, input, inputLen);

    /* Finalize context */
    MD5_Final(digest, &context);
}
/* 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, 0xc1bdceee); /* 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, 0xa8304613); /* 7 */
    FF (b, c, d, a, x[7], S14, 0xf9fd4f7af); /* 8 */
    FF (a, b, c, d, x[8], S11, 0x698098d8); /* 9 */
    FF (d, a, b, c, x[9], S12, 0x8b44f7af); /* 10 */
    FF (c, d, a, b, x[10], S13, 0xf55c0faf); /* 11 */
    FF (b, c, d, a, x[11], S14, 0x895cd7be); /* 12 */
    FF (a, b, c, d, x[12], S11, 0x6b901122); /* 13 */
    FF (d, a, b, c, x[13], S12, 0xfd987193); /* 14 */
    FF (c, d, a, b, x[14], S13, 0x9a679438e); /* 15 */
    FF (b, c, d, a, x[15], S14, 0x49b40821); /* 16 */
/* Round 2 */
#define S21 5
#define S22 9
#define S23 14
#define S24 20

GG (a, b, c, d, x[ 1], S21, 0xf61e2562); /* 17 */
GG (d, a, b, c, x[ 6], S22, 0xc040b340); /* 18 */
GG (c, d, a, b, x[11], S23, 0x265e5a51); /* 19 */
GG (b, c, d, a, x[ 0], S24, 0xe9b6c7aa); /* 20 */
GG (a, b, c, d, x[ 5], S21, 0xd62f105d); /* 21 */
GG (d, a, b, c, x[10], S22, 0x2441453); /* 22 */
GG (c, d, a, b, x[15], S23, 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, 0x2441453); /* 28 */
GG (a, b, c, d, x[13], S21, 0xa9e3e905); /* 29 */
GG (d, a, b, c, x[ 2], S22, 0x8d2a4c8a); /* 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, 0xfd85f380c); /* 36 */
HH (a, b, c, d, x[ 1], S31, 0xa4beea44); /* 37 */
HH (d, a, b, c, x[ 4], S32, 0x4bdecfa9); /* 38 */
HH (c, d, a, b, x[ 7], S33, 0xf6bb4b60); /* 39 */
HH (b, c, d, a, x[10], S34, 0x8d2a4c8a); /* 40 */
HH (a, b, c, d, x[13], S31, 0x289b7ec6); /* 41 */
HH (d, a, b, c, x[ 0], S32, 0xeaa127fa); /* 42 */
HH (c, d, a, b, x[ 3], S33, 0xd4ef3085); /* 43 */
HH (b, c, d, a, x[ 6], S34, 0x4881d05); /* 44 */
HH (a, b, c, d, x[ 9], S31, 0xd9d4d039); /* 45 */
HH (d, a, b, c, x[12], S32, 0x8d2a4c8a); /* 46 */
HH (c, d, a, b, x[15], S33, 0x1fa27cf8); /* 47 */
HH (b, c, d, a, x[ 2], S34, 0xc4ac5665); /* 48 */

/* Round 4 */
#define S41 6
#define S42 10
#define S43 15
#define S44 21
II (a, b, c, d, x[ 0], S41, 0xf4292244); /* 49 */
II (d, a, b, c, x[ 7], S42, 0x432aff97); /* 50 */
II (c, d, a, b, x[14], S43, 0xab9423a7); /* 51 */
II (b, c, d, a, x[ 5], S44, 0xfc93a039); /* 52 */
II (a, b, c, d, x[12], S41, 0x655b59c3); /* 53 */
II (d, a, b, c, x[ 3], S42, 0x8f0ccc92); /* 54 */
II (c, d, a, b, x[10], S43, 0xffeff47d); /* 55 */
II (b, c, d, a, x[ 1], S44, 0x85845dd1); /* 56 */
II (a, b, c, d, x[ 8], S41, 0x6fa87e4f); /* 57 */
II (d, a, b, c, x[15], S42, 0xebe86d391); /* 58 */
II (c, d, a, b, x[ 6], S43, 0xa3014314); /* 59 */
II (b, c, d, a, x[13], S44, 0x4e0811a1); /* 60 */
II (a, b, c, d, x[ 4], S41, 0x7537e82); /* 61 */
II (d, a, b, c, x[11], S42, 0xbf3af235); /* 62 */
II (c, d, a, b, x[ 2], S43, 0x2ad72dbb); /* 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;
        }
    }
bufptr = buf;
buflen = sizeof(buf);
if ((rc = md5_store(md5, (void **)((void *)&bufptr), &buflen)) != MD5_RC_OK)
    return rc;

for (i = 0; i < (int)buflen; i++) {
    (*data_ptr)[(i*2)+0] = hex[(int)(bufptr[i] >> 4)];
    (*data_ptr)[(i*2)+1] = hex[(int)(bufptr[i] & 0x0f)];
}
(*data_ptr)[(i*2)] = '\0';
return MD5_RC_OK;
}

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

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<one line to give the program's name and a brief idea of what it does.>
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The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
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  program `Gnomovision' (a program to direct compilers to make passes
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  <signature of Ty Coon>, 1 April 1989
  Ty Coon, President of Vice

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

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Julian Seward, jsward@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) = $copyright_msg =~ /.*\d{4,}$/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) = $output =~ /copyright 1987.*(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output';

$year;
}

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Ty Coon, President of Vice

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

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

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

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007
1.197 perl-modules 5.10.1-12ubuntu2

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

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

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (a program to direct compilers to make passes 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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1.198 pixman 0.32.6 :r0

1.198.1 Available under license :

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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
- scheduling

The user of this macro has to provide some configuration parameters
(bit depths for the images, prefetch distance, etc.) and a set of
macros, which should implement basic code chunks responsible for
pixels processing. See 'pixman-arm-neon-asm.S' file for the usage
examples.

TODO:
- try overlapped pixel method (from Ian Rickards) when processing
- exactly two blocks of pixels
- maybe add an option to do reverse scanline processing

Bit flags for 'generate_composite_function' macro which are used
to tune generated functions behavior.

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).

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

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

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

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

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

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

.macro pixldst numbytes, op, elem_size, basereg, mem_operand, abits
  .if numbytes == 32
    pixldst4 op, elem_size, (basereg+4), (basereg+5), \n    (basereg+6), (basereg+7), mem_operand, abits
  .elseif numbytes == 16
    pixldst2 op, elem_size, (basereg+2), (basereg+3), mem_operand, abits
  .elseif numbytes == 8
    pixldst1 op, elem_size, (basereg+1), mem_operand, abits
  .elseif numbytes == 4
    .if !RESPECT_STRICT_ALIGNMENT || (elem_size == 32)
      pixldst0 op, 32, (basereg+0), 1, mem_operand, abits
    .elseif elem_size == 16
      pixldst0 op, 16, (basereg+0), 2, mem_operand, abits
    pixldst0 op, 16, (basereg+0), 3, mem_operand, abits
    .else
pixldst0 op, 8, %basereg+0, 4, mem_operand, abits
pixldst0 op, 8, %basereg+0, 5, mem_operand, abits
pixldst0 op, 8, %basereg+0, 6, mem_operand, abits
pixldst0 op, 8, %basereg+0, 7, mem_operand, abits
.endif
elseif numbytes == 2
  .if !RESPECT STRICT_ALIGNMENT || (elem_size == 16)
    pixldst0 op, 16, %basereg+0, 1, mem_operand, abits
  .else
    pixldst0 op, 8, %basereg+0, 2, mem_operand, abits
    pixldst0 op, 8, %basereg+0, 3, mem_operand, abits
  .endif
.elapsed 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, 4, mem_operand
      pixldst30 vld3, 8, %basereg+0, %basereg+1, 5, mem_operand
      pixldst30 vld3, 8, %basereg+0, %basereg+1, 6, mem_operand
      pixldst30 vld3, 8, %basereg+0, %basereg+1, 7, mem_operand
    .elseif (bpp == 24) && (numpix == 2)
      pixldst30 vld3, 8, %basereg+0, %basereg+1, 2, mem_operand
      pixldst30 vld3, 8, %basereg+0, %basereg+1, 3, mem_operand
    .elseif (bpp == 24) && (numpix == 1)
      pixldst30 vld3, 8, %basereg+0, %basereg+1, 1, mem_operand
    .else
      pixldst %numpix * bpp / 8, vld1, %(bpp), basereg, mem_operand, abits
    .endif
  .endif
.endm

.macro pixst numpix, bpp, basereg, mem_operand, abits=0
  .if bpp > 0
    .if (bpp == 32) && (numpix == 8) && (DEINTERLEAVE_32BPP_ENABLED != 0)
      pixldst4 vst4, 8, %basereg+4, %basereg+5, %basereg+6, %basereg+7, mem_operand, abits
    .elseif (bpp == 24) && (numpix == 8)
pixldst3 vst3, 8, (%basereg+3), (%basereg+4), (%basereg+5), mem_operand
.elseif (bpp == 24) && (numpix == 4)
pixldst30 vst3, 8, (%basereg+0), (%basereg+1), (%basereg+2), 4, mem_operand
pixldst30 vst3, 8, (%basereg+0), (%basereg+1), (%basereg+2), 5, mem_operand
pixldst30 vst3, 8, (%basereg+0), (%basereg+1), (%basereg+2), 6, mem_operand
pixldst30 vst3, 8, (%basereg+0), (%basereg+1), (%basereg+2), 7, mem_operand
.elseif (bpp == 24) && (numpix == 2)
pixldst30 vst3, 8, (%basereg+0), (%basereg+1), (%basereg+2), 2, mem_operand
pixldst30 vst3, 8, (%basereg+0), (%basereg+1), (%basereg+2), 3, mem_operand
.elseif (bpp == 24) && (numpix == 1)
pixldst30 vst3, 8, (%basereg+0), (%basereg+1), (%basereg+2), 1, mem_operand
.else
    pixldst %((numpix * bpp / 8), vst1, %((bpp), basereg, mem_operand, abits
.endif
.endif
.endm

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

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

.macro pixld2_s elem_size, reg1, reg2, mem_operand
   .if 0 /* elem_size == 32 */
      mov     TMP1, VX, asr #16
      add     VX, VX, UNIT_X, asl #1
      add     TMP1, mem_operand, TMP1, asl #2
      mov     TMP2, VX, asr #16
      sub     VX, VX, UNIT_X
      add     TMP2, mem_operand, TMP2, asl #2
      vld1.32 {d&reg1&[0]}, [TMP1, :32]
      vld1.32 {d&reg1&[1]}, [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
    .elseif elem_size == 16
        pixld0_s elem_size, %(basereg+0), 2, mem_operand
        pixld0_s elem_size, %(basereg+0), 3, mem_operand
    .else
        pixld0_s elem_size, %(basereg+0), 4, mem_operand
        pixld0_s elem_size, %(basereg+0), 5, mem_operand
        pixld0_s elem_size, %(basereg+0), 6, mem_operand
        pixld0_s elem_size, %(basereg+0), 7, mem_operand
    .endif

.elseif numbytes == 2
    .if elem_size == 16
        pixld0_s elem_size, %(%basereg+0), 1, mem_operand
    .else
        pixld0_s elem_size, %(%basereg+0), 2, mem_operand
        pixld0_s elem_size, %(%basereg+0), 3, mem_operand
    .endif
.elseif numbytes == 1
    pixld0_s elem_size, %(%basereg+0), 1, mem_operand
.else
    .error "unsupported size: numbytes"
.endif
.endm

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

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

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

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

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

/*
 * Macro which is used to process leading pixels until destination
 * pointer is properly aligned (at 16 bytes boundary). When destination
 * buffer uses 16bpp format, this is unnecessary, or even pointless.
 */
.macro ensure_destination_ptr_alignment process_pixblock_head, \  process_pixblock_tail, \  process_pixblock_tail_head
.if dst_w_bpp != 24
    tst     DST_R, #0xF
    beq     2f
.endr

.irp lowbit, 1, 2, 4, 8, 16
local skip1
    if (dst_w_bpp <= (lowbit * 8)) && ((lowbit * 8) < (pixblock_size * dst_w_bpp))
    .if lowbit < 16 /* we don't need more than 16-byte alignment */
        tst     DST_R, #lowbit
        beq     1f
    .endif
    pixld_src (lowbit * 8 / dst_w_bpp), src_bpp, src_basereg, SRC
    pixld    (lowbit * 8 / dst_w_bpp), mask_bpp, mask_basereg, MASK
    .if dst_r_bpp > 0
        pixld_a (lowbit * 8 / dst_r_bpp), dst_r_bpp, dst_r_basereg, DST_R
    .else
        add     DST_R, DST_R, #lowbit
    .endif
    PF add   PF_X, PF_X, #(lowbit * 8 / dst_w_bpp)
    sub      W, W, #(lowbit * 8 / dst_w_bpp)
1:
.endif
.endr
    pixdeinterleave src_bpp, src_basereg
    pixdeinterleave mask_bpp, mask_basereg
    pixdeinterleave dst_r_bpp, dst_r_basereg

    process_pixblock_head
    cache_preload 0, pixblock_size
    cache_preload_simple
    process_pixblock_tail

    pixinterleave dst_w_bpp, dst_w_basereg
    .irp lowbit, 1, 2, 4, 8, 16
    .if (dst_w_bpp <= (lowbit * 8)) && ((lowbit * 8) < (pixblock_size * dst_w_bpp))
    .if lowbit < 16 /* we don't need more than 16-byte alignment */
        tst     DST_W, #lowbit
        beq     1f
    .endif
    pixst_a  (lowbit * 8 / dst_w_bpp), dst_w_bpp, dst_w_basereg, DST_W
1:
.endif
.endr
.endf
2:
.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:
   .endf
   .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_, 
    dst_w_bpp_, 
    flags, 
    pixblock_size_, 
    prefetch_distance, 
    init, 
    cleanup, 
    process_pixblock_head, 
    process_pixblock_tail, 
    process_pixblock_tail_head, 
    dst_w_basereg_ = 28, 
    dst_r_basereg_ = 4, 
    src_basereg_ = 0, 
    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

    /*
    * 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.
    */
endif

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

.macro pixld_src x:vararg
    pixld x
.endm

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

/*
* Assign symbolic names to registers
*/
W .req r0 /* width (is updated during processing) */
H .req r1 /* height (is updated during processing) */
DST_W .req r2 /* destination buffer pointer for writes */
DST_STRIDE .req r3 /* destination image stride */
SRC .req r4 /* source buffer pointer */
SRC_STRIDE .req r5 /* source image stride */
DST_R .req r6 /* destination buffer pointer for reads */
MASK .req r7 /* mask pointer */
MASK_STRIDE .req r8 /* mask stride */
PF_CTL .req r9 /* combined lines counter and prefetch */
    /* distance increment counter */
PF_X .req r10 /* pixel index in a scanline for current */
    /* pretetch 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, \n          (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W

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

.if regs_shortage
  pop {r0, r1}
.endif
  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, \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
process_pixblock_tail
pixst pixblock_size, dst_w_bpp, \n      (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, \n    process_pixblock_head, \n
advance_to_next_scanline 8b
9:
.if regs_shortage
  pop  {r0, r1}
.endif
cleanup
pop  {r4-r12, pc} /* exit */

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

/*/ 
* A simplified variant of function generation template for a single 
* scanline processing (for implementing pixman combine functions) 
*/

.macro generate_composite_function_scanline  use_nearest_scaling, 
  fname, 
  src_bpp_, 
  mask_bpp_, 
  dst_w_bpp_, 
  flags, 
  pixblock_size_, 
  init, 
  cleanup, 
  process_pixblock_head, 
  process_pixblock_tail, 
  process_pixblock_tail_head,
dst_w_basereg_ = 28, \n dst_r_basereg_ = 4, \n src_basereg_   = 0, \n mask_basereg_  = 24

.handler fname
.handler global fname

/* For ELF format also set function visibility to hidden */
#ifdef __ELF__
  .hidden fname
  .type fname, %function
#endif
fname:
  .set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_NONE

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

#if use_nearest_scaling != 0

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

  .macro pixld_src x:vararg
    pixld_s x
  .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 */
.handler 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
.handler fetch_src_pixblock
  pixld_src   pixblock_size, src_bpp, 
              (src_basereg - pixblock_size * src_bpp / 64), SRC
.endm
.init
mov   DST_R, DST_W
cmp   W, #pixblock_size
blt   8f
.ensure_destination_ptr_alignment process_pixblock_head, 
    process_pixblock_tail, 
    process_pixblock_tail_head
subs  W, W, #pixblock_size
blt   7f
/* Implement "head (tail_head) ... (tail_head) tail" loop pattern */

pixld_a  pixblock_size, dst_r_bpp, \
         (dst_r_basereg - pixblock_size * dst_r_bpp / 64), DST_R
fetch_src_pixblock
pixld       pixblock_size, mask_bpp, \
         (mask_basereg - pixblock_size * mask_bpp / 64), MASK
process_pixblock_head
subs    W, W, #pixblock_size
blt     2f
1:
process_pixblock_tail_head
subs    W, W, #pixblock_size
bge    1b
2:
process_pixblock_tail
pixst_a  pixblock_size, dst_w_bpp, \
         (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W
7:
/* Process the remaining trailing pixels in the scanline (dst aligned) */
process_trailing_pixels 0, 1, \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.
*/
 DIRECTORY bit
.volatile

.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)
*/
.Directory bit
.Volatile

.macro convert_8888_to_0565 in_r, in_g, in_b, out, tmp1, tmp2
  vshll.u8   tmp1, in_g, #8
  vshll.u8   out, in_r, #8
  vshll.u8   tmp2, in_b, #8
  vsri.u16   out, tmp1, #5
  vsri.u16   out, tmp2, #11
.endm

/*****************************************************************************/
/*
* Conversion of four r5g6b5 pixels (in) to four x8r8g8b8 pixels
*/
* returned in (out0, out1) registers pair. Requires one temporary
* 64-bit register (tmp). 'out1' and 'in' may overlap, the original
* value from 'in' is lost
*/

.macro convert_four_0565_to_x888_packed in, out0, out1, tmp
  vshl.u16 out0, in,   #5 /* G top 6 bits */
  vshl.u16 tmp,  in,   #11 /* B top 5 bits */
  vsri.u16 in,   in,   #5 /* R is ready in top bits */
  vsri.u16 out0, out0, #6 /* G is ready in top bits */
  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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This is the Debian Linux prepackaged version of the /proc file system utilities.

This package was downloaded from:
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1.203 python 2.7.9 :r1.4
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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
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<th>Year</th>
<th>Owner</th>
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1.204 python-jsonschema 2.5.1 :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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1.211 qemu 0.13.0

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Linux host USB redirector

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Support for host device auto connect & disconnect
Major rewrite to support fully async operation

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Added flexible support for /dev/bus/usb /sys/bus/usb/devices in addition
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 *
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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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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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Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
 void X86EMU_trace_regs (void)
 {
  if (DEBUG_TRACE()) {
-     x86emu_dump_regs();
+if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+     x86emu_dump_xregs();
+  } else {
+      x86emu_dump_regs();
      x86emu_dump_xregs();
      x86emu_dump_regs();
  }
  return;
}
Generic programming code and comments.
+} 
+ 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();
+} 
@@ -1702,14 +1763,14 @@
/* 0xc5 */ x86emuOp2_illegal_op,
/* 0xc6 */ x86emuOp2_illegal_op,
/* 0xc7 */ x86emuOp2_illegal_op, /* TODO: bswap */
/* 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();
    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);
    if (cond)
+        push_long(imm);
+    } else {
+        push_word(imm);
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    if (M.x86.mode & SYSMODE_32BIT_REP)
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    if (M.x86.mode & SYSMODE_32BIT_REP)
        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    if (M.x86.intr & INTR_HALTED)
        break;
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* REPE */
    /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + 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) {
        + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val1 = fetch_data_long(M.x86.R_SI);
                val2 = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word((u16)val1, (u16)val2);
            }
            - M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
        }
    }
M.x86.R_DI += inc;
if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+    if (M.x86.intr & INTR_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;
    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;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2817,11 +2850,16 @@
inc = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    while (M.x86.R_CX != 0) {
-        M.x86.R_CX -= 1;
+    /* move them until (E)CX is ZERO. */
+    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
+        if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+        else
+            M.x86.R_CX -= 1;
+        M.x86.R_SI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
+    }
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
} else {
@@ -2859,9 +2897,11 @@
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
-    /* move them until CX is ZERO. */
-    count = M.x86.R_CX;
+    /* 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--) {
@@ -2871,6 +2911,8 @@
    M.x86.R_AX = fetch_data_word(M.x86.R_SI);
    } M.x86.R_SI += inc;
    if (M.x86.intr & INTR_HALTED)
+    break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -2894,26 +2936,36 @@
icc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            - M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
            + if (M.x86.intr & INTR_HALTED)
                break;
        }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
    + /* move them until (E)CX is ZERO. */
    + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
            - M.x86.R_CX -= 1;
            + if (M.x86.mode & SYSMODE_32BIT_REP)
                M.x86.R_ECX -= 1;
            else
                M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
                break; /* zero flag set means equal */
            + if (M.x86.intr & INTR_HALTED)
                break;
        }
    M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    @@ -2951,8 +3003,8 @@
        TRACE_AND_STEP();
        if (M.x86.mode & SYSMODE_PREFIX_REPE) {
            /* REPE */
            - /* move them until CX is ZERO. */
            - while (M.x86.R_CX != 0) {
            + /* move them until (E)CX is ZERO. */
            + while ((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
                    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 {
while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
    if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
    }
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
}
M.x86.R_CX -= 1;
if (M.x86.mode & SYSMODE_32BIT_REP)
    M.x86.R_ECX -= 1;
else
    M.x86.R_CX -= 1;
M.x86.R_DI += inc;
if (ACCESS_FLAG(F_ZF) == 0)
    break;
if (M.x86.intr & INTR_HALTED)
    break;
M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
/* REPNE */
- /* move them until CX is ZERO. */
- while (M.x86.R_CX != 0) {
  /* move them until (E)CX is ZERO. */
  + while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
      if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_long(M.x86.R_EAX, val);
    }
    val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
    cmp_word(M.x86.R_AX, (u16)val);
  }
  - M.x86.R_CX -= 1;
  + if (M.x86.mode & SYSMODE_32BIT_REP)
    + M.x86.R_ECX -= 1;
  + else
    + M.x86.R_CX -= 1;
  M.x86.R_DI += inc;
  if (ACCESS_FLAG(F_ZF))
    break;  /* zero flag set means equal */
  + if (M.x86.intr & INTR_HALTED)
    + break;
  }
  M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    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) 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) /* (E)CX != 0 */
  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 & & 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) /* (E)CX != 0 */
  M.x86.R_IP = ip;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -4085,8 +4156,10 @@
  target = (u16)(M.x86.R_IP + offset);
  DECODE_PRINTF2("%x\n", target);
  TRACE_AND_STEP();
- if (M.x86.R_CX == 0)
+ if (M.x86.R_CX == 0) {
+ M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
ip = (s16)fetch_word_imm();
ip += (s16)M.x86.R_IP;
DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, 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 +5093,14 @@
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;

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case 4: /* jmp word ptr ... */
        destval = fetch_data_word(destoffset);
        +       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        break;
    case 5: /* jmp far ptr ... */
        destval = fetch_data_word(destoffset);
        destval2 = fetch_data_word(destoffset + 2);
        +       JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
        TRACE_AND_STEP();
        M.x86.R_IP = destval;
        M.x86.R_CS = destval2;

    Index: prim_ops.c
    
    RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
    retrieving revision 1.1
    retrieving revision 1.3
    diff -u -u -r1.1 -r1.3
    --- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
    +++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
    @@ -1921,7 +1921,7 @@
    void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
    {
        #ifdef __HAS_LONG_LONG__
        -        s64 res = (s64)d * (s64)s;
        +        s64 res = (s32)d * (s64)(s32)s;
        *res_lo = (u32)res;
        *res_hi = (u32)(res >> 32);
        @@ -2013,7 +2013,7 @@
        void mul_long(u32 s)
        {
            #ifdef __HAS_LONG_LONG__
            -            u64 res = (u32)M.x86.R_EAX * (u32)s;
            +            u64 res = (u64)M.x86.R_EAX * s;
            M.x86.R_EAX = (u32)res;
            M.x86.R_EDX = (u32)(res >> 32);
            @@ -2312,16 +2312,15 @@
            }
            if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
            /* dont care whether REPE or REPNE */
            -            /* in until CX is ZERO. */
            -            u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
            +            /* in until (E)CX is ZERO. */
            +            u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
```c
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;
        if (M.x86.mode & SYSMODE_32BIT_REP) {
            u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
                M.x86.R_ECX : M.x86.R_CX);
        }
    } else if (M.x86.mode & SYSMODE_PREFIX_DATA) {
        /* dont care whether REPE or REPNE */
    } /* out until (E)CX is ZERO. */
}
```
```c
#ifdef IN_MODULE
#include "xf86_ansic.h"
#endif

DB(if (DEBUG_IO_TRACE()))
printk("inb %#04x \n", addr);
- return inb(addr);
+ return 0;
}

/***************************************************************************/
#endif

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

/***************************************************************************/
#endif

DB(if (DEBUG_IO_TRACE()))
printk("outb %#02x -> %#04x \n", val, addr);
- outb(val, addr);
return;
}

/***************************************************************************/
#endif

DB(if (DEBUG_IO_TRACE()))
printk("outw %#04x -> %#04x \n", val, addr);
- outw(val, addr);
return;
}

/***************************************************************************/
#endif

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 @@

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

/*@ checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
    # define DEBUG_TRACEJMP()       0
    # define DEBUG_TRACEJMPREGS()   0
    # define DEBUG_SYS()           0
    # define DEBUG_MEM_TRACE()     0
    # define DEBUG_IO_TRACE()      0

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 *
 * $Id: MODESEL.H,v 1.5 2004/12/22 15:55:10 ydamlman Exp $
 *
 * RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
 * retrieving revision 1.1
 * retrieving revision 1.3
 * diff -u -u -r1.1 -r1.3
 * --- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
 * +++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
 * @@ -47,6 +47,7 @@
 * #include <console.h>
 * #define printk(x...) printk(BIOS_DEBUG, x)
 * #else
 * +#include <stdio.h>
 * #define printk printf
 * #endif
 *
 * @@ -189,6 +181,8 @@
 * #define DEBUG_TRACECALL_REGS_F 0x004000
 * #define DEBUG_DECODE_NOPRINT_F 0x008000
 * #define DEBUGSAVE_IP_CS_F 0x010000
 * +#define DEBUG_TRACEJMP_REGS_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 @@
 * ifndef __cplusplus
 */
 */ End of "C" linkage for C++ */
 #endif
 -
 #endif /* __X86EMU_X86EMU_H */

Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
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+  #define DEBUG_TRACEJMP_REGS_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 @@
 ifndef __cplusplus
   } /* End of "C" linkage for C++ */
 #endif
 -
 #endif /* __X86EMU_X86EMU_H */
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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_fd, "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s("%s", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl, "__sysctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___umtx_op, "__umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
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TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
TARGET_FREEBSD_NR_access, "access", "%s("%s",%#o)", NULL, NULL },
TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
TARGET_FREEBSD_NR_chdir, "chdir", "%s("%s")", NULL, NULL },
TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
TARGET_FREEBSD_NR_chmod, "chmod", "%s("%s",%#o)", NULL, NULL },
TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
TARGET_FREEBSD_NR_eaccess, "eaccess", "%s("%s",%#x)", NULL, NULL },
TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s("%s", \%d, \"%s\", \%d, \"%s\")", NULL, NULL },
TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d,\%d,\"%s\")", NULL, NULL },
TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s("%s", \%d, \"%s\")", NULL, NULL },
TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s("%s", \%d, \"%s\")", NULL, NULL },
TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d,\%d,\"%s\",\%#x,\%d)\", NULL, NULL },
TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s("%s", \%d, \"%s\", \%#x, \%d)\", NULL, NULL },
TARGET_FREEBSD_NR_extattr_get_link, "%s("%s", \%d, \"%s\", \%#x, \%d)\", NULL, NULL },
TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, \%d, \%#x, \%d)\", NULL, NULL },
TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s("%s", \%d, \%#x, \%d)\", NULL, NULL },
TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(%d,\%#x,\%d)\", NULL, NULL },
TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d,\%d,\"%s\",\%#x,\%d)\", NULL, NULL },
TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s("%s", \%d, \"%s\", \%#x, \%d)\", NULL, NULL },
TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s("%s", \%d, \"%s\", \%#x, \%d)\", NULL, NULL },
TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)\", NULL, NULL },
TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)\", NULL, NULL },
TARGET_FREEBSD_NR_fcntl, "fcntl", NULL, NULL, NULL },
TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,"%s", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd6_mmap, "freebsd6_mmap", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname, "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s("%s","%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_list, "list", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "lpathconf", "%s("%s", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_getconf, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getconf, "lstat", "%s("%s",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)"}, 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 },
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{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)"}, NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\",%#d)"}, 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_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", 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_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 },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },

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{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigtwo, "sigtwo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstkm, "sstkm", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_stat, "stat", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_statfs, "statfs", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill1, "thr_kill1", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s("%s")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ 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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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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

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

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

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

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

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

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.
Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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
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This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).
To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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Preamble

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

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

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

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

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

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

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

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

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

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so
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Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

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

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

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

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

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

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

Test 1.4.1:105
=============
11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

Test 1.5:106
============
s1_11_1
s1_11_2
s1_11_3
Test 1.6:107
Test 1.7:108

Test 1.8:109
Test 1.9:110

Test 1.10:111
Test 1.11:112

Test 1.12:113
Test 1.13:114

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

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

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

================
e1_l1_1
s1_e1_l1_1
s1_e1_l1_1
e1_l1_2
s1_e1_l1_2
s1_e1_l1_2
e1_l1_3
s1_e1_l1_3
s1_e1_l1_3
e1_l1_4
s1_e1_l1_4
s1_e1_l1_4
e1_l1_5
s1_e1_l1_5
s1_e1_l1_5
e1_l1_6
s1_e1_l1_6
s1_e1_l1_6
e1_l1_7
s1_e1_l1_7
s1_e1_l1_7
e1_l1_8
s1_e1_l1_8
s1_e1_l1_8
e1_l1_9
s1_e1_l1_9
s1_e1_l1_9
e1_l1_10
s1_e1_l1_10
s1_e1_l1_10
e1_l1_11
s1_e1_l1_11
s1_e1_l1_11
e1_l1_12
s1_e1_l1_12
s1_e1_l1_12
e1_l1_13
s1_e1_l1_13
s1_e1_l1_13
e1_l1_14
s1_e1_l1_14
s1_e1_l1_14

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

-------------
e1_l1_1
e1_l1_1
e1_l1_2
Test 1.17:118

Test 1.18:119
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
------------
11_7

------------
Test 2.11:129
------------
11_7

------------
Test 2.12:130
------------
11_1
11_2
11_3
11_4

------------
Test 2.13:131
------------
11_1
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14
12_1
12_2
12_3
12_4
12_5
12_6
12_7
12_8
12_9

------------
Test 2.14:132
------------
11_1
Test 2.16:134

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

Test 2.17:135

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

Test 2.18:136

12_3
12_4
12_5
12_6
12_7
12_8
12_9

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

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

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

===========
Test 3.2:140
===========
11_1
11_2
11_3
^11_4
^11_5
^11_6$
^11_7$
^11T8$
^11_9$
^11_10$
^11_11
^11_12
11_13
11_14

=============
Test 3.3:141
=============
^1IT1$
^1IT2$
^1IT3$
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
^1IT13$
^1IT14$

=============  
Test 3.4:142  
=============  
^11_1
^11_2
^11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
^11_13
^11_14
Testing a c d and i commands

=============  
Test 4.1:143  
=============  
before_i11_1
after_i1before_i11_1
before_i11_2
after_i1before_i11_2
before_i11_3
after_ibefore_il1_3
before_il1_4
after_ibefore_il1_4
before_il1_5
after_ibefore_il1_5
before_il1_6
after_ibefore_il1_6
before_il1_7
after_ibefore_il1_7
before_il1_8
after_ibefore_il1_8
before_il1_9
after_ibefore_il1_9
before_il1_10
after_ibefore_il1_10
before_il1_11
after_ibefore_il1_11
before_il1_12
after_ibefore_il1_12
before_il1_13
after_ibefore_il1_13
before_il1_14
after_ibefore_il1_14
before_il2_1
after_ibefore_il2_1
before_il2_2
after_ibefore_il2_2
before_il2_3
after_ibefore_il2_3
before_il2_4
after_ibefore_il2_4
before_il2_5
after_ibefore_il2_5
before_il2_6
inserted
after_ibefore_il2_6
before_il2_7
after_ibefore_il2_7
before_il2_8
after_ibefore_il2_8
before_il2_9
after_ibefore_il2_9

==============
Test 4.2:144
==============
before_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_a5-12l1_5
after_abefore_a5-12l1_5
appended
before_a5-12l1_6
after_abefore_a5-12l1_6
appended
before_a5-12l1_7
after_abefore_a5-12l1_7
appended
before_a5-12l1_8
after_abefore_a5-12l1_8
appended
before_a5-12l1_9
after_abefore_a5-12l1_9
appended
before_a5-12l1_10
after_abefore_a5-12l1_10
appended
before_a5-12l1_11
after_abefore_a5-12l1_11
appended
before_a5-12l1_12
after_abbefore_a5-12l1_12
appended
before_al1_13
after_abbefore_al1_13
before_al1_14
after_abbefore_al1_14
before_al2_1
after_abbefore_al2_1
before_al2_2
after_abbefore_al2_2
before_al2_3
after_abbefore_al2_3
before_al2_4
after_abbefore_al2_4
before_al2_5
after_abbefore_al2_5
before_al2_6
after_abbefore_al2_6
before_al2_7
after_abbefore_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
l1_9$
apended
^l1_10
^l1_10
l1_11$
apended
^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
Test 5.7:157

Test 5.8:158

Pattern space commands

Test 6.1:159
<table>
<thead>
<tr>
<th>Test 6.2:160</th>
</tr>
</thead>
<tbody>
<tr>
<td>l1_1</td>
</tr>
<tr>
<td>l1_2</td>
</tr>
<tr>
<td>l1_3</td>
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<tr>
<td>l1_5</td>
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<tr>
<td>l1_6</td>
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<tr>
<td>l1_7</td>
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<tr>
<td>l1_8</td>
</tr>
<tr>
<td>l1_9</td>
</tr>
<tr>
<td>l1_10</td>
</tr>
<tr>
<td>l1_11</td>
</tr>
<tr>
<td>l1_12</td>
</tr>
<tr>
<td>l1_13</td>
</tr>
<tr>
<td>l1_14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>l1_6</td>
</tr>
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</tr>
<tr>
<td>l1_9</td>
</tr>
<tr>
<td>l1_10</td>
</tr>
<tr>
<td>l1_11</td>
</tr>
<tr>
<td>l1_12</td>
</tr>
<tr>
<td>l1_13</td>
</tr>
<tr>
<td>l1_14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test 6.4:162</th>
</tr>
</thead>
<tbody>
<tr>
<td>l1_1</td>
</tr>
<tr>
<td>l1_2</td>
</tr>
<tr>
<td>l1_3</td>
</tr>
<tr>
<td>l1_2</td>
</tr>
<tr>
<td>l1_3</td>
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<tr>
<td>l1_5</td>
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<tr>
<td>l1_2</td>
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<tr>
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</tr>
<tr>
<td>l1_2</td>
</tr>
<tr>
<td>l1_3</td>
</tr>
<tr>
<td>l1_6</td>
</tr>
<tr>
<td>l1_6</td>
</tr>
<tr>
<td>l1_7</td>
</tr>
</tbody>
</table>
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
Testing substitution commands
Test 8.5:176

Test 8.6:177
Test 8.7:178

Test 8.8:179

Test 8.9:180
u1
u23
11u0
u1
u24
11u0
u1
u25
11u0
u1
u26
11u0
u1
u27
11u0
u1
u28
11u0
u1
u29
11u0
u1
u210
11u0
u1
u211
11u0
u1
u212
11u0
u1
u213
11u0
u1
u214

==============
Test 8.10:181
==============
11_X0
11_X1
11_X2
11_X3
11_X4

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

=============
Test 8.12:183
==============
IX_X
IX_X
IX_X
IX_X
IX_4
IX_5
IX_6
Test 8.16:187

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

eeefff
Xeefff
XYefff
XYeYff
XYeYYf
XYeYYY
XYeYYY

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

Test 8.17:188

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&&&&
&&&&
&&&&
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&&&&
&&&&

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Version 3, 29 June 2007

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@version 3.0 (December 2000)

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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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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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1.228 sysvinit-utils 2.87dsf-4ubuntu18
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This is the Debian GNU/Linux prepackaged version of System V Init.

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

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

The upstream source is available at:

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

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

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1.230 tcp-wrappers 7.6 :r10

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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 <sys/ioctl.h>
#include <linux/if_tun.h>

/* TUNSETGROUP appeared in 2.6.23 */
 ifndef TUNSETGROUP
static void Usage(char *name)
{
    fprintf(stderr, "Create: %s [-b] [-u owner] [-g group] [-t device-name] 
" "[-p|n] [-f tun-clone-device]n", name);
    fprintf(stderr, "Delete: %s -d device-name [-f tun-clone-device]n\n", name);
    fprintf(stderr, "The default tun clone device is /dev/net/tun - some systems" 
" use\n/dev/misc/net/tun instead\n"");
    fprintf(stderr, "-b will result in brief output (just the device name)\n");    fprintf(stderr, "-n will result in a point-to-point tun device\n");
    fprintf(stderr, "-p in an ethernet tap device. Default is a tap,\n"");
    fprintf(stderr, " except the device contains \"tun\" in the name.\n");
    exit(1);
}

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

    while((opt = getopt(argc, argv, "bd:f:npt:u:g:h")) > 0){
        switch(opt) {
        case 'b':
            brief = 1;
            break;
        case 'd':
            delete = 1;
            tun = optarg;
            break;
        case 'p':
            if(type != 0)
                Usage(name);
            type = IFF_TAP;
            break;
        case 'n':
            if(type != 0)
                Usage(name);
            break;
        case 'f':
            file = optarg;
            break;
        case 't':
            if(optarg
                Usage(name);
            break;
        case 'u':
            owner = optarg;
            break;
        case 'g':
            group = optarg;
            break;
        case 'h':
            fprintf(stderr, "-b will result in brief output (just the device name)\n");    fprintf(stderr, "-n will result in a point-to-point tun device\n");
            fprintf(stderr, "-p in an ethernet tap device. Default is a tap,\n"");
            fprintf(stderr, " except the device contains \"tun\" in the name.\n");
            exit(1);
    }
type = IFF_TUN;
break;
case 'u':
pw = getpwnam(optarg);
if(pw != NULL){
    owner = pw->pw_uid;
    break;
}
    owner = strtol(optarg, &end, 0);
if(*end != '0'){
    fprintf(stderr, "%s is neither a username nor a numeric uid.\n", optarg);
    Usage(name);
}
    break;
case 'g':
gr = getgrnam(optarg);
if(gr != NULL){
    group = gr->gr_gid;
    break;
}
    group = strtol(optarg, &end, 0);
if(*end != '0'){
    fprintf(stderr, "%s is neither a groupname nor a numeric group.\n", optarg);
    Usage(name);
}
    break;
case 't':
tun = optarg;
    break;
case '?':
case 'h':
default:
    Usage(name);
}
}
argv += optind;
argc -= optind;

if(argc > 0)
    Usage(name);

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

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

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

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

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

    if(owner != -1) {
        if(ioctl(tap_fd, TUNSETOWNER, owner) < 0){
            perror("TUNSETOWNER");
            exit(1);
        }
    }
    if(group != -1) {
        if(ioctl(tap_fd, TUNSETGROUP, group) < 0){
            perror("TUNSETGROUP");
            exit(1);
        }
    }

    if(ioctl(tap_fd, TUNSETPERSIST, 1) < 0){
        perror("enabling TUNSETPERSIST");
        exit(1);
    }
}

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

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Version 2, June 1991

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1.236 update-rc.d 0.7 :r5

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

usage()
{
  cat >&2 <<EOF
          update-rc.d [\-n] [\-r <root>] [\-s] <basename> defaults [NN | sNN kNN]
          update-rc.d [\-n] [\-r <root>] [\-s] <basename> start|stop NN runlvl |runlvl| [...].
  \-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 d n fn remove=0
  if [ "$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 $; do
dn="${etcd}$i.d"
if [ ! -d $dn ]; then
    continue;
fi
for f in ${dn}/[SK]??${bn}; do
    if [ -L $f ]; then
        if [ $remove -eq 0 ]; then
            return 1
        fi
        echo " $f"
        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 [ $verbose -eq 1 ] && echo " $fn -> ../init.d/$bn"
    if [ $notreally -eq 0 ]; then
        mkdir -p `dirname $fn`
        ln -s ../init.d/$bn $fn
        fi
    if [ $dostart -eq 1 ] && [ $startstop = "S" ] && [ $lev = $RUNLEVEL ]; then
        $fn start || true
    fi
}
makelinks()
{
    if ! checklinks; then
        echo " System startup links for $initd/$bn already exist."
        if [ $dostart -eq 1 ] && [ $notreally -eq 0 ] && [ -L ${etcd}${RUNLEVEL}.d/$bn ]; then
            ${etcd}${RUNLEVEL}.d/$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
      ;;
    -h | --help)
      usage
      exit 0
      ;;
    -*)
      usage
      exit 1
      ;;
    *)
      break
      ;;
    esac
done

if [ $# -lt 2 ]; then
  usage
  exit 1
fi

bn=$1
shift

sn=$initd/$bn
if [-L "$sn" -a -n "$root" ]; then
  if which readlink >/dev/null; then
    while true; do
      linksn="$(readlink "$sn")"
      if [ -z "$linksn" ]; then
        break
      fi
    done
    else
      echo "update-rc.d: readlink tool not present, cannot check whether \n$sn symlink points to a valid file." >&2
    fi
  else
    echo "update-rc.d: $initd/$bn: file does not exist" >&2
    exit 1
  fi
else
  echo "update-rc.d: $initd/$bn exists during rc.d purge (continuing)" >&2
  else
  echo "update-rc.d: $initd/$bn exists during rc.d purge (use -f to force)" >&2
  exit 1
fi
fi
fi
fi
fi
fi

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

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

case $1 in  
remove)  
checklinks "remove"  
;;  

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

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

*)
usage
exit 1
"
esac

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Version 2, June 1991

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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
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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs
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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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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
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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size: 8388608, sector size: 512, PT: dos, offset: 446
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#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
size: 4456448, sector size: 512, PT: bsd, offset: 512
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#1: 7936 4864 0x7
#2: 12544 3584 0x7
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The current maintainer is LaMont Jones <lamont@debian.org>.
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Initialize empty image
f1c9645dbc14efddc7d8a322685f26eb bsd.img
Create new DOS partition table
57e721e38d1266c2df055067c18f2cf9 bsd.img

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

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

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

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

Open Source Used in Cisco IOS 15.7(3)M1

2973
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dff51a88a045db233418dd73fbe bsd.img

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

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

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

Create default BSD
2e1cee529cb59c9341afe0443f196a1 bsd.img

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

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

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

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

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):
Welcome to fdisk <removed>. Changes will remain in memory only, until you decide to write them. Be careful before using the write command.

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

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

Slice Start   End Sectors  Size Type     Fsize Bsize Cpg
a      4096  6144    2049    1M 4.2BSD       0     0   0
c      4096 20479   16384    8M unused       0     0   0
d         0 16064   16065  7.9M unused       0     0   0

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

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

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

Command (m for help):

0 unused      5 4.1BSD     9 4.4LFS     d boot
1 swap       6 Eighth Edition a unknown e ADOS
2 Version 6   7 4.2BSD     b HPFS      f HFS
3 Version 7   8 MS-DOS     c ISO-9660  10 AdvFS
4 System V
Command (m for help):
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1.244 xkb-data 1.8-1ubuntu8

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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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