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Text Part Number: 78EE117C99-170630980
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1.1 acl 2.2.52 :r0

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pherd

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Version 2.1, February 1999

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1.9 base-files 5.0.0ubuntu23

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Version 2, June 1991
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The reason we have a separate public license for some libraries is that
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analogous to running a utility program or application program. However, in
a textual and legal sense, the linked executable is a combined work, a
derivative of the original library, and the ordinary General Public License
treats it as such.

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

However, unrestricted linking of non-free programs would deprive the
users of those programs of all benefit from the free status of the
libraries themselves. This Library General Public License is intended to
permit developers of non-free programs to use free libraries, while
preserving your freedom as a user of such programs to change the free
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this as regards changes in header files, but we have achieved it as regards
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The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

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```
1.13 bash 4.1-2ubuntu4

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That's all there is to it!
I would like to thank the following people (in alphabetical order):

- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired and contributed to many of the changes for version 3.0.0. He also provided the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

Further thanks go to:
- AMD, for donating a copy of "AMD x86-64 Architecture Programmer's Manual".
- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to test and BeeCrypt on many new platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information, reported bugs, provided feedback, or works on including BeeCrypt in any other distros.

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

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1.17 bsdutils 1:2.17.2-0ubuntu1

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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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<one line to give the program's name and a brief idea of what it does.>
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This is the Debian GNU/Linux prepackaged version of util-linux.

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

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

Upstream maintainers include:
Maintainer: Karel Zak <kzak@redhat.com>
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This is libblkid, previously part of e2fsprogs this is now part of util-linux-ng and has thus moved to the util-linux Debian source package.

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

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Version 2.1, February 1999

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^L
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== unifont.bdf

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1.25 console-terminus 4.30-2

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1.26 coreutils 8.5-1ubuntu3

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1.29 cron 3.0pl1-114ubuntu1

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1.31 dash 0.5.5.1-7ubuntu1

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1.32 db 6.0.30 :r0.1

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1.33 db4.8 4.8.30 :1

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1.37 debianutils 3.2.3

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1.45 dtc 1.4.1+git0+302fca9f4c :r0

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

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1.46 e2fsprogs 1.42.9 :r0

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

```c
#ifndef _ss_h
#define _ss_h __FILE__

#include <ss/ss_err.h>

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

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

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

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

#define SS_RQT_TBL_V2 2

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

#define SS_RP_V1 1
#define SS_OPT_DONT_LIST 0x0001
#define SS_OPT_DONT_SUMMARIZE 0x0002
```
void ss_help __SS_PROTO;
#if 0
char *ss_current_request(); /* This is actually a macro */
#endif

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

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

extern ss_request_table ss_std_requests;
#endif /* _ss_h */

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--- 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)
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+ 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 = $(BSIDLIB_IMAGE).so.$(BSIDLIB_VERSION)
BSIDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS) $(OBJ))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \ $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
install-strip: install
install-shlibs-strip: install-shlibs
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ..$(BSD_LIB)
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Gadi Oxman, August 1995

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

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

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

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

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

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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.

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

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

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

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

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

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1.57 glib-2.0 2.44.1 :r0.1

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SUCH DAMAGE.
/***********************************************************************/
/* Perl-Compatible Regular Expressions */
/***********************************************************************/

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

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 POSSIBILITY OF SUCH DAMAGE.
/***************************************************************************/

#ifndef _PCRE_H
#define _PCRE_H

#ifndef _PCRE_H
#define _PCRE_H
#define _PCRE_H

Open Source Used In CGR 1000 15.7(3)M2
/* 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
  # ifdef __cplusplus
    # ifndef PCRECPP_EXP_DECL
      # define PCRECPP_EXP_DECL extern __declspec(dllimport)
    # endif
    # ifndef PCRECPP_EXP_DEFN
      # define PCRECPP_EXP_DEFN __declspec(dllimport)
    # endif
  # endif
#endif

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

#ifndef PCRE_EXP_DECL
  # ifdef __cplusplus
    # define PCRE_EXP_DECL extern "C"
  # else
    # define PCRE_EXP_DECL extern
  # endif
#endif

#ifndef __cplusplus
  # ifdef PCRECPP_EXP_DECL
    # define PCRECPP_EXP_DECL extern__declspec(dllimport)
  # endif
  # ifndef PCRECPP_EXP_DEFN
    # define PCRECPP_EXP_DEFN __declspec(dllimport)
  # endif
#endif

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

/* Allow for C++ users */

#ifdef __cplusplus
extern "C" {
#endif

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

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

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

#define PCRE_ERROR_NOMATCH (-1)
#define PCRE_ERROR_NULL (-2)
#define PCRE_ERROR_BADOPTION (-3)
#define PCRE_ERROR_BADMAGIC (-4)
#define PCRE_ERROR_UNKNOWN_OPCODE (-5)
#define PCRE_ERROR_UNKNOWN_NODE (-5) /* For backward compatibility */
#define PCRE_ERROR_NOMEMORY (-6)
#define PCRE_ERROR_NOSUBSTRING (-7)
#define PCRE_ERROR_MATCHLIMIT (-8)
#define PCRE_ERROR_CALLOUT (-9) /* Never used by PCRE itself */
#define PCRE_ERROR_BADUTF8 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16 (-10) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF8_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_BADUTF16_OFFSET (-11) /* Same for 8/16 */
#define PCRE_ERROR_PARTIAL (-12)
#define PCRE_ERROR_BADPARTIAL (-13)
#define PCRE_ERROR_INTERNAL (-14)
#define PCRE_ERROR_BADCOUNT (-15)
#define PCRE_ERROR_DFA_UITEM (-16)
#define PCRE_ERROR_DFA_UCOND (-17)
#define PCRE_ERROR_DFA_UMLIMIT (-18)
#define PCRE_ERROR_DFA_WSSIZE (-19)
#define PCRE_ERROR_DFA_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_BADENDIANNESS (-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_HASCORLTF 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 a way as to be extensible. Always add new fields at the end, in order to
remain compatible. */

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

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

typedef struct pcre16_extra {
    unsigned long int flags;  /* Bits for which fields are set */
    void *study_data;  /* Opaque data from pcre_study() */
    unsigned long int match_limit;  /* Maximum number of calls to match() */
    void *callout_data;  /* Data passed back in callouts */
} 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 */
/* ------------------- Added for Version 2 -------------------------- */
const PCRE_UCHAR16 *mark;    /* Pointer to current mark or NULL */
/* ------------------------------------------------------------------ */
}

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

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

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

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

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
        const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
        const unsigned char *);
PCRE_EXP_DECL const unsigned char *pcre_maketables(void);
PCRE_EXP_DECL const unsigned char *pcre16_maketables(void);
PCRE_EXP_DECL int pcre_refcount(pcre *, int);
PCRE_EXP_DECL int pcre16_refcount(pcre16 *, int);
PCRE_EXP_DECL pcre_extra *pcre_study(const pcre *, int, const char **);
PCRE_EXP_DECL pcre16_extra *pcre16_study(const pcre16 *, int, const char **);
PCRE_EXP_DECL void pcre_free_study(pcre_extra *);
PCRE_EXP_DECL void pcre16_free_study(pcre16_extra *);
PCRE_EXP_DECL const char *pcre_version(void);
PCRE_EXP_DECL const char *pcre16_version(void);

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

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

#ifdef __cplusplus
} /* extern "C" */
#endif
#endif /* End of pcres.h */

PCRE LICENCE

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1.59 gnutls 3.3.17.1 :r0

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1.70 initscripts 2.87dsf-4ubuntu18

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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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1.74 iptables 1.4.21 :r0.2
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0 leshort 0x0436 psf screen font data
>2 byte 0 256 characters, no index
>2 byte 1 512 characters, no index
>2byte2256 characters, Unicode index
>2byte3512 characters, Unicode index
>2byte4256 characters, Unicode level 2 index
>2byte5512 characters, Unicode level 2 index
>3byte8x8%d
#
# PC Screen (console) Fonts - psf2 header
#
0 lelong0x864ab572 psf2 screen font data
>12lelong&11 with Unicode index
>16lelongxb, %d glyphs
>28lelongxb, %dx
>24lelongxb%d
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setleds.c setmetamode.c setvesablank.c showconsolefont.c
spawn_console.c spawn_login.c
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1.76 klibc-utils 1.5.20-1

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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

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

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

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

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

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

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1.81.1 Available under license:
size: 8388608, sector size: 512, PT: dos, offset: 446
---
#1:  32 7648 0x83
#2:  7680 8704 0xa5
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This is the Debian GNU/Linux prepackaged version of util-linux.

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

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

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

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

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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.

RC4 is a registered trademark of RSA Laboratories.

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

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

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

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

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

1.86 libc6 2.12.1-0ubuntu6

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========

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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.

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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
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5. A program that contains no derivative of any portion of the
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Section 6 states terms for distribution of such executables.

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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) \

Open Source Used In CGR 1000 15.7(3)M2
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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

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

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This package was debianized by Colin Walters <walters@debian.org> on Thu, 6 Mar 2003 18:01:37 -0500

It was downloaded from http://www.freedesktop.org/software/dbus

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1.100 libgdbm3 1.8.3-9

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```
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```
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<signature of Ty Coon>, 1 April 1989
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This package was put together by James Troup <james@nocrew.org> from the GNU sources:

```
```

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

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- 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_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_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
@end smallexample
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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/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
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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_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.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
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lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
@end smallexample
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the following new or changed files:

@smallexample
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
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lib/krb5/kdb/kdb_convert.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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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
```
and the initial implementation of incremental propagation, including
the following new or changed files:

```
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
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/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
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Maintainer: Lasse Collin <lasse.collin@tukaani.org>
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To: Jonathan Nieder <jrnieder@gmail.com>
Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

[...

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X-Other-Authors: Roland McGrath, Akim Demaillle, Paul Eggert,
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X-Origin: configure.ac from XZ Utils,
  visibility.m4 serial 1 (gettext-0.15),
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X-Authors: Bruno Haible 
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1.116 libpam 1.2.1 :r5.3.1

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1.117 libpam-modules 1.1.1-4ubuntu1

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1.118 libpam-runtime 1.1.1-4ubuntu1

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1.119 libpam0g 1.1.1-4ubuntu1

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1.122 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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1.131 libsemanage 2.4 :r0.1

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

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

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.

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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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1.132 libsepol 2.4 :r0.1

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1.134 libslang2 2.2.2-4ubuntu1

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Motorolla 68020 20mhz, NetBSD

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

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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>
</tr>
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<tbody>
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<td>md2</td>
<td>2176.00</td>
<td>5994.67</td>
<td>8079.73</td>
<td>8845.18</td>
<td>9077.01</td>
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<tr>
<td>mdc2</td>
<td>5730.67</td>
<td>6122.67</td>
<td>6167.66</td>
<td>6176.51</td>
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<td>md5</td>
<td>29.10k</td>
<td>127.31k</td>
<td>209.66k</td>
<td>250.50k</td>
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<tr>
<td>hmac(md5)</td>
<td>12.33k</td>
<td>73.02k</td>
<td>160.17k</td>
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<td>261.15k</td>
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<td>sha1</td>
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<td>49.37k</td>
<td>84.31k</td>
<td>102.40k</td>
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<td>rmd160</td>
<td>11.69k</td>
<td>48.62k</td>
<td>78.76k</td>
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<td>rc4</td>
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<td>27.13k</td>
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<td>30.38k</td>
<td>30.38k</td>
<td>30.53k</td>
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<tr>
<td>des ede3</td>
<td>10.51k</td>
<td>10.94k</td>
<td>11.01k</td>
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<td>idea cbc</td>
<td>26.74k</td>
<td>29.23k</td>
<td>29.45k</td>
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<td>39.39k</td>
<td>40.03k</td>
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<td>rc5-32/12 cbc</td>
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<td>83.18k</td>
<td>85.70k</td>
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<td>blowfish cbc</td>
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<td>60.07k</td>
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<td>cast cbc</td>
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<td>50.01k</td>
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<table>
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<th>Sign/Verify</th>
<th>Sign/S Verify</th>
<th>Sign/S Verify</th>
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<tbody>
<tr>
<td>rsa 512 bits</td>
<td>0.7738s</td>
<td>0.0774s</td>
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<td>rsa 1024 bits</td>
<td>4.3967s</td>
<td>0.2615s</td>
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<tr>
<td>rsa 2048 bits</td>
<td>29.5200s</td>
<td>0.9664s</td>
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<tr>
<td>dsa 512 bits</td>
<td>0.7862s</td>
<td>0.9709s</td>
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<tr>
<td>dsa 1024 bits</td>
<td>2.5375s</td>
<td>3.1625s</td>
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<tr>
<td>dsa 2048 bits</td>
<td>9.2150s</td>
<td>11.8200s</td>
</tr>
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</table>

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>
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<td>367.68k</td>
<td>499.09k</td>
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<tr>
<td>md5</td>
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<td>8293.50k</td>
<td>13464.41k</td>
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<td>sha1</td>
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<td>5330.43k</td>
<td>8636.88k</td>
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<td>3968.25k</td>
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<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>
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<td>5949.97k</td>
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<td>6248.11k</td>
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</tr>
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<td>rsa 512 bits</td>
<td>0.010s</td>
<td>0.010s</td>
<td>0.045s</td>
<td>0.260s</td>
<td>1.690s</td>
</tr>
<tr>
<td>rsa 1024 bits</td>
<td>0.010s</td>
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<td>0.045s</td>
<td>0.260s</td>
<td>1.690s</td>
</tr>
<tr>
<td>rsa 2048 bits</td>
<td>0.010s</td>
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<td>0.045s</td>
<td>0.260s</td>
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1.137 libstdc++6 4.5.1-7ubuntu2

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Version 3, 29 June 2007


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that program using a modified version of the Library.

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be combined with the library in order to run.

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in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
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1.145 libuuid1 2.17.2-0ubuntu1

1.145.1 Available under license:

size: 8388608, sector size: 512, PT: dos, offset: 446
---
#1: 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
BZh91AYiSY"~@R h%CFTC@OQ6_@
tTjmAH1][F0HA]BAk@
BZh91AYiSY'hC+[H]yL*UT{'JDCCMhdrTPJ
4b"LhLD3Mf0h
4JM&hC&A
4h
P440P4&FCFz()"\W">CN
@JEBx=Q
ظ%HFYP@R "o""U*R
}Cbw"XZTK8o%"Z][\-9%m/cB7D4F"N7r:o2&HLP>9p]N^g~?<Im9Q@+CvT
]0U"h-J[Z[ekZMkZP[O@I6YSTK6jS\|S$@SS$SU$n]$IISH[1.@[S]$I
IISH1c1\SSTA'PPPPP]W[rU@UYVUUU-mW[UeKjHR
sUE]H:Eu:]jGD;r
#XZ^:{n} J]5%8X(8HXo<@>bdo:6BFJNRVZ"'y
Tb)"i^k,l-D
y{\"FH:Zz:CvBBeISiSISIBS<8uA'J7UUUU3333330ISIIDPpur8[@>})"@ISISIS~M#;qr{x[@(jVZ:a
H-kWULRr&vL1:HzS1p07R@mb'1EE2m9DSyP[Ejwq_X5u fBgXH mr']5"QrdC:.JU@-h@IC-1^A5a-7@\{Ei.E7q]D0P,5:
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This is the Debian GNU/Linux prepackaged version of util-linux.

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

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

It was downloaded from:

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

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

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

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

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1.147 libwrap0 7.6.q-19

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1.148 libx11 1.6.3 :r0

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1.149 libxau 1.0.8 :r0

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1.153 libyaml 0.1.6 :r0
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agere_sta_fw.bin -- 9.48 Hermes I
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Hope this helps.

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Viren Pathare
Intellectual Property Licensing Manager
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Firmware provided by Patrick Boettcher <pboettcher@dibcom.fr> to Devin Heitmueller <dheitmueller@kernellabs.com> on October 8, 2009.

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ConferenceTV card
+ many more (please mail me if you are missing in this list and would like to be mentioned)
Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

Marcus Metzler <mocm@metzlerbros.de>
Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

Steve Brown <sbrown@cortland.com>
for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>
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Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and their work on the dbox2 port of the DVB driver

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

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

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

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

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

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

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Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

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

Ernst Peinlich <e.peinlich@inode.at>
for tuning/DiSEqC support for the DEC 3000-s

Peter Beutner <p.beutner@gmx.net>
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Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgdt330x frontend driver, and various bugfixes

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

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

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

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.
(If you think you should be in this list, but you are not, drop a line to the DVB mailing list)

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/* 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.
 * */
This is the Ubuntu prepackaged version of the Linux kernel.

Linux was written by Linus Torvalds <Linus.Torvalds@cs.Helsinki.FI>
and others.

This package was put together by the Ubuntu Kernel Team, from sources retrieved from upstream linux git. The sources may be found at most Linux ftp sites, including ftp://ftp.kernel.org/pub/linux/kernel/

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Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

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for their continuing work on the DVB driver

Michael Holzt <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)
Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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for his AFC kernel thread

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...and all the other dbox2 people
for many bugfixes in the generic DVB Core, frontend drivers and
their work on the dbox2 port of the DVB driver

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

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for the tda1004x frontend driver, and various bugfixes

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for all the work for the FlexCopII chipset by B2C2,Inc.

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

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

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for the support of the Fujitsu-Siemens Activy budget DVB-S
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Wilson Michaels <wilsonmichaels@earthlink.net>  
for the lgdt330x frontend driver, and various bugfixes

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Taylor Jacob <trjacob@earthlink.net>  
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Kirk Lapray <kirk.lapray@gmail.com>  
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
   * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
   *
   * Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
   * http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
  interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
  and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
  loss of link, and correctly re-enable PHY when link is
  re-established. (put back CFG_PHYIE)
* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
* 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
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*
* M. Welsh, 6 July 1996
*
*/

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

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

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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

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1.167 mawk 1.3.3-15ubuntu2

1.167.1 Available under license:

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1.168 module-init-tools 3.12-1ubuntu2

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

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This is the Debian GNU/Linux prepackaged version of util-linux.
This package was put together by Guy Maor <maor@debian.org> and later maintained by Sean 'Shaleh' Perry <shaleh@debian.org>, and Adrian Bunk <bunk@stusta.de>.

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

It was downloaded from:

Upstream maintainers include:
Maintainer: Karel Zak <kzak@redhat.com>
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This is libbldkid, previously part of e2fsprogs this is now part of util-linux-ng and has thus moved to the util-linux Debian source package.

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1.171 mountall 2.19

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-- vile: txtmode file-encoding=utf-8

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

1.173 ncurses-base 5.7+20100626-0ubuntu1

1.174 ncurses-bin 5.7+20100626-0ubuntu1

1.175 net-tools 1.60-23ubuntu3

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1.178 netcat-openbsd 1.105 :r0

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

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38. Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de>
   monitoring/trap scripts, statistics file handling
39. Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
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
   on the stuff in the html/pic/ subdirectory
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
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49. Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
50. Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
51. Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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Protocol Distribution Version 4 and are acknowledged as authors of
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4. [5]Michael Barone <michael,barone@lmco.com> GPSVME fixes
5. [6]Jean-Francois Boudreau
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6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT
port. Clean up recvbuf and iосignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@el.cam.ac.uk> MSF clock driver,
TRIMBLE PARSE support
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11. [12]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
12. [13]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and
help with target configuration
13. [14]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference
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15. [16]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux
port
16. [17]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for
NTP Version 2 as specified in RFC-1119
17. [18]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
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20. [21]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
21. [22]Jeff Johnson <sjbj@chatham.usdesign.com> massive prototyping
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29. [32]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
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33. [36]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
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1.182 openssh-client 1:5.5p1-4ubuntu4

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This package contains a Gnome based implementation of ssh-askpass
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It is split out from the main package to isolate the dependency on the
Gnome and X11 libraries.

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

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- The make-ssh-known-hosts script is no longer included
- TSS has been removed
- MD5 is now external, in the OpenSSL library

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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>
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<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>
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<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
bloatfish cbc  48.86k  59.18k  60.07k  60.42k  60.78k
cast cbc  42.67k  50.01k  50.86k  51.20k  51.37k

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

<table>
<thead>
<tr>
<th></th>
<th>sign</th>
<th>verify</th>
<th>sign/s</th>
<th>verify/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>dsa 512 bits</td>
<td>0.7862s</td>
<td>0.9709s</td>
<td>1.3</td>
<td>1.0</td>
</tr>
<tr>
<td>dsa 1024 bits</td>
<td>2.5375s</td>
<td>3.1625s</td>
<td>0.4</td>
<td>0.3</td>
</tr>
<tr>
<td>dsa 2048 bits</td>
<td>9.2150s</td>
<td>11.8200s</td>
<td>0.1</td>
<td>0.1</td>
</tr>
</tbody>
</table>

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

ABSTRACT

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

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

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HOME AND DOCUMENTATION

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- http://www.oss.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 =====
*/

/*
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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, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
};

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

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

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

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

  /* Load magic initialization constants. */
  context->state[0] = 0x67452301;
  context->state[1] = 0xefcdab89;
  context->state[2] = 0x98badcfe;
context->state[3] = 0x10325476;
return;
}

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

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

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

    partLen = (unsigned int)64 - idx;

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

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

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

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

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

    partLen = (unsigned int)64 - idx;

    /* Transform as many times as possible. */
    if (inputLen >= partLen) {
        memset((POINTER)&context->buffer[idx], 0, (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 */
    memset((POINTER)&context->buffer[idx], 0, (size_t)(inputLen - i));
}
/* Save number of bits */
Encode(bits, context->count, 8);

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

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

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

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

/* MD5 basic transformation. Transforms state based on block. */
static void MD5Transform(
    UINT4 state[],
    unsigned char block[])
{
    UINT4 a = state[0], b = state[1], c = state[2], d = state[3], x[16];
    Decode(x, block, 64);

    /* Round 1 */
    #define S11 7
    #define S12 12
    #define S13 17
    #define S14 22
    FF (a, b, c, d, x[ 0], S11, 0xd76aa478); /* 1 */
    FF (d, a, b, c, x[ 1], S12, 0xe8c7b756); /* 2 */
    FF (c, d, a, b, x[ 2], S13, 0x242070db); /* 3 */
    FF (b, c, d, a, x[ 3], S14, 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, 0xfd469501); /* 8 */
    FF (a, b, c, d, x[ 8], S11, 0x698098d8); /* 9 */
    FF (d, a, b, c, x[ 9], S12, 0x8b44f7af); /* 10 */
    FF (c, d, a, b, x[10], S13, 0xff550ff1); /* 11 */
    FF (b, c, d, a, x[11], S14, 0x49b5c1a9); /* 12 */
    FF (a, b, c, d, x[12], S11, 0x9a91d4e5); /* 13 */
    FF (d, a, b, c, x[13], S12, 0xe5d7b67a); /* 14 */
    FF (c, d, a, b, x[14], S13, 0x682718d6); /* 15 */
    FF (b, c, d, a, x[15], S14, 0x01fb0f53); /* 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, 0x88a1e681); /* 23 */
GG (b, c, d, a, x[ 4], S24, 0x7d3fbc8); /* 24 */
GG (a, b, c, d, x[ 9], S21, 0x21e1cde6); /* 25 */
GG (d, a, b, c, x[14], S22, 0x33707d6); /* 26 */
GG (c, d, a, b, x[ 3], S23, 0xf4d50d87); /* 27 */
GG (b, c, d, a, x[ 8], S24, 0x455a14ed); /* 28 */
GG (a, b, c, d, x[13], S21, 0x9e3e905); /* 29 */
GG (d, a, b, c, x[ 2], S22, 0xf6ef3af8); /* 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, 0x669d6122); /* 35 */
HH (b, c, d, a, x[14], S34, 0x9063300c); /* 36 */
HH (a, b, c, d, x[ 1], S31, 0xc4beaa44); /* 37 */
HH (d, a, b, c, x[ 4], S32, 0xdea4cfa9); /* 38 */
HH (c, d, a, b, x[ 7], S33, 0x66bb4b60); /* 39 */
HH (b, c, d, a, x[10], S34, 0xebebfbc70); /* 40 */
HH (a, b, c, d, x[13], S31, 0x289b7ce6); /* 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, 0x9d9d4039); /* 45 */
HH (d, a, b, c, x[12], S32, 0xe6db99e5); /* 46 */
HH (c, d, a, b, x[15], S33, 0x1fa270fe); /* 47 */
HH (b, c, d, a, x[ 2], S34, 0xe4ac5665); /* 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, 0xfe2ce6e0); /* 58 */
II (c, d, a, b, x[ 6], S43, 0xa3014314); /* 59 */
II (b, c, d, a, x[13], S44, 0xe40811a1); /* 60 */
II (a, b, c, d, x[ 4], S41, 0xf7537e82); /* 61 */
II (d, a, b, c, x[11], S42, 0xbd3af235); /* 62 */
II (c, d, a, b, x[ 2], S43, 0x2ad7d2bb); /* 63 */
II (b, c, d, a, x[ 9], S44, 0xeb86d391); /* 64 */

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

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

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

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

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

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

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

struct md5_st {
    MD5_CTX ctx;
};

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

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

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

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

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

    if (md5 == NULL || data_ptr == NULL)
        return MD5_RC_ARG;
    if (*data_ptr == NULL) {
        if ((*data_ptr = (char *)malloc(MD5_LEN_STR+1)) == NULL)
            return MD5_RC_MEM;
        if (data_len != NULL)
            *data_len = MD5_LEN_STR+1;
    } else {
        if (data_len != NULL) {
            if (*data_len < MD5_LEN_STR+1)
                return MD5_RC_MEM;
            *data_len = MD5_LEN_STR+1;
        }
    }
bufptr = buf;
buflen = sizeof(buf);
if ((rc = md5_store(md5, (void **)((void *)&bufptr), &buflen)) != MD5_RC_OK)
    return rc;

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

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

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1.193 pciutils 1:3.1.7-4ubuntu2

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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<one line to give the program’s name and a brief idea of what it does.>
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when it starts in an interactive mode:

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

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

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    program `Gnomovision' (a program to direct compilers to make passes
    at assemblers) written by James Hacker.

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

That's all there is to it!

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

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

1.195 perl 5.22.0 :r0.1
1.195.1 Available under license :

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The End

#!/perl

copyright.t

=head1 NAME

copyright.t

=head1 DESCRIPTION

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

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

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

=cut
use TestInit;
use strict;
use Config;
BEGIN { require 'test.pl' }

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

my ($opt) = @ARGV;

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

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

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

done_testing;

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

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

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

    $year;
}
sub v_year
# returns the latest copyright year shown in perl -v
{
  my $output = runperl switches => ['-v'];
  my ($year) = $output =~ /copyright 1987.*(4,)/i or die "Copyright statement not found in perl -v output $output";

  $year;
}

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Version 1, February 1989

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The hypothetical commands `show w' and `show c' should show the
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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, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>,'
- "Development questions, bug reports, and patches should be sent to the
Module-Build mailing list at <module-build@perl.org>.",
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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

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

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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1.198 pixman 0.32.6 :r0
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* 
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*/

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

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

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

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

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

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

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

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

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

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

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

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

.macro pixldst numbytes, op, elem_size, basereg, mem_operand, abits
  .if numbytes == 32
    pixldst4 op, elem_size, (%(basereg+4), %(basereg+5), \%
    %(basereg+6), %(basereg+7), mem_operand, abits
  .elseif numbytes == 16
    pixldst2 op, elem_size, (%(basereg+2), %(basereg+3), mem_operand, abits
  .elseif numbytes == 8
    pixldst1 op, elem_size, %(basereg+1), mem_operand, abits
  .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
    .else
      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

.pixldst0 op, 16, %(basereg+0), 1, mem_operand, abits

.else

.pixldst0 op, 8, %(basereg+0), 2, mem_operand, abits
.pixldst0 op, 8, %(basereg+0), 3, mem_operand, abits

.endif

.elseif numbytes == 1

.pixldst0 op, 8, %(basereg+0), 1, mem_operand, abits

.else

.error "unsupported size: numbytes"

.endif

.endm

.macro pixld numpix, bpp, basereg, mem_operand, abits=0

.pixldst %(numpix * bpp / 8), vld1, %(bpp), basereg, mem_operand, abits

.endm

.macro pixst numpix, bpp, basereg, mem_operand, abits=0

.pixldst %(numpix * bpp / 8), vld1, %(bpp), basereg, mem_operand, abits

.endm
pixldst3 vst3, 8, %(basereg+3), %(basereg+4), %(basereg+5), mem_operand
.elseif (bpp == 24) && (numpix == 4)
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 4, mem_operand
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 5, mem_operand
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 6, mem_operand
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 7, mem_operand
.elseif (bpp == 24) && (numpix == 2)
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 2, mem_operand
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 3, mem_operand
.elseif (bpp == 24) && (numpix == 1)
pixldst30 vst3, 8, %(basereg+0), %(basereg+1), %(basereg+2), 1, mem_operand
.else
pixldst %(numpix * bpp / 8), vst1, %(bpp), basereg, mem_operand, abits
.endif
.endif
.endm

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

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

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

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

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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

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.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
dm

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

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

.macro vzip8 reg1, reg2
  vzip.8 d&reg1, d&reg2
dm

/* 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
dm

/* 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+1)
    vzip8 %(basereg+0), %(basereg+2)
    vzip8 %(basereg+1), %(basereg+3)
    vzip8 %(basereg+2), %(basereg+3)
  .endif
dm
/*
 * 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
.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
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 * 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
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 * for almost zero cost!
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 * (*) 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
.endm
.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 dst_r_bpp != 0
    PF ldrgeb DUMMY, [PF_MASK, MASK_STRIDE, lsl #mask_bpp_shift]
.endif
.endif
.endm
.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
.endm

.macro fetch_mask_pixblock
    pixld pixblock_size, mask_bpp, \n    (mask basalereg - 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, \n   process_pixblock_tail, \n   process_pixblock_tail_head
if dst_w_bpp != 24
    tst DST_R, #0xF
    beq 2f
.irp lowbit, 1, 2, 4, 8, 16
local skip1
    if (dst_w_bpp <= (lowbit * 8)) && ((lowbit * 8) < (pixblock_size * dst_w_bpp))
    if lowbit < 16 /* we don't need more than 16-byte alignment */
        tst DST_R, #lowbit
        beq 1f
    endif
    pixld_src (lowbit * 8 / dst_w_bpp), src_bpp, src_basereg, SRC
    pixld  (lowbit * 8 / dst_w_bpp), mask_bpp, mask_basereg, MASK
    if dst_r_bpp > 0
        pixld_a (lowbit * 8 / dst_r_bpp), dst_r_bpp, dst_r_basereg, DST_R
    else
        add DST_R, DST_R, #lowbit
    endif
    PF add PF_X, PF_X, #(lowbit * 8 / dst_w_bpp)
    sub W, W, #(lowbit * 8 / dst_w_bpp)
1: .endif .endr
    pixdeinterleave src_bpp, src_basereg
    pixdeinterleave mask_bpp, mask_basereg
    pixdeinterleave dst_r_bpp, dst_r_basereg

    process_pixblock_head
    cache_preload 0, pixblock_size
    cache_preload_simple
    process_pixblock_tail

    pixinterleave dst_w_bpp, dst_w_basereg
.irp lowbit, 1, 2, 4, 8, 16
    if (dst_w_bpp <= (lowbit * 8)) && ((lowbit * 8) < (pixblock_size * dst_w_bpp))
    if lowbit < 16 /* we don't need more than 16-byte alignment */
        tst DST_W, #lowbit
        beq 1f
    endif
    pixst_a (lowbit * 8 / dst_w_bpp), dst_w_bpp, dst_w_basereg, DST_W
1: .endif .endr .endif .endif 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:
.endif
.endr
.pixdeinterleave src_bpp, src_basereg
.pixdeinterleave mask_bpp, mask_basereg
.pixdeinterleave dst_r_bpp, dst_r_basereg

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

/*
 * Macro, which performs all the needed operations to switch to the next
 * scanline and start the next loop iteration unless all the scanlines
 * are already processed.
 */
.macros 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
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 */
    /* prefetch position */
PF_SRC  .req       r11   /* pointer to source scanline start */
    /* for prefetch purposes */
PF_DST  .req       r12   /* pointer to destination scanline start */
    /* for prefetch purposes */
PF_MASK .req       r14   /* pointer to mask scanline start */
    /* for prefetch purposes */

/*
 * Check whether we have enough registers for all the local variables.

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

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

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

.init
.if regs_shortage
    push    {r0, r1}
.endif
    subs    H, H, #1
.if regs_shortage
    str    H, [sp, #4] /* save updated height to stack */
.else
    mov    ORIG_W, W
.endif
    blt    9f
    cmp    W, #(pixblock_size * 2)
    blt    8f

/*
 * This is the start of the pipelined loop, which if optimized for
 * long scanlines
 */
0:
    ensure_destination_ptr_alignment process_pixblock_head,
        process_pixblock_tail,
        process_pixblock_tail_head

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

advance_to_next_scanline 8b

9:
.if regs_shortage
  pop {r0, r1}
.endif

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

.purgem fetch_src_pixblock
.purgem pixld_src

.unreq SRC
.unreq MASK
.unreq DST_R
.unreq DST_W
.unreq ORIG_W
.unreq W
.unreq H
.unreq SRC_STRIDE
.unreq DST_STRIDE
.unreq MASK_STRIDE
.unreq PF_CTL
.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, \n  src_bpp_, \n  mask_bpp_, \n  dst_w_bpp_, \n  flags, \n  pixblock_size_, \n  init, \n  cleanup, \n  process_pixblock_head, \n  process_pixblock_tail, \n  process_pixblock_tail_head, \

dst_w_basereg_ = 28, \ndst_r_basereg_ = 4, \nsrc_basereg_   = 0, \nmask_basereg_  = 24

.func fname
.globl fname
/* For ELF format also set function visibility to hidden */
#ifdef __ELF__
.hidden fname
.type fname, %function
#endif
fname:
.set PREFETCH_TYPE_CURRENT, PREFETCH_TYPE_NONE
/*
* Make some macro arguments globally visible and accessible
* from other macros
*/
.set src_bpp, src_bpp_
.set mask_bpp, mask_bpp_
.set dst_w_bpp, dst_w_bpp_
.set pixblock_size, pixblock_size_
.set dst_w_basereg, dst_w_basereg_
.set dst_r_basereg, dst_r_basereg_
.set src_basereg, src_basereg_
.set mask_basereg, mask_basereg_

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

.macro pixld_src x:vararg
pixld_s x
.endm

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

.mc 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

.mc 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 */
.pixl_d_a pixblock_size, dst_r_bpp, 
   (dst_r_basereg - pixblock_size * dst_r_bpp / 64), DST_R
.fetch_src_pixblock
.pixld pixblock_size, mask_bpp, 
   (mask_basereg - pixblock_size * mask_bpp / 64), MASK
.process_pixblock_head
.subs W, W, #pixblock_size
.blt 2f
1:
.process_pixblock_tail_head
.subs W, W, #pixblock_size
.bge 1b
2:
.process_pixblock_tail
.pixst_a pixblock_size, dst_w_bpp, 
   (dst_w_basereg - pixblock_size * dst_w_bpp / 64), DST_W
7:
/* Process the remaining trailing pixels in the scanline (dst aligned) */
.process_trailing_pixels 0, 1, 
   process_pixblock_head, 
   process_pixblock_tail, 
   process_pixblock_tail_head
.cleanup
.if use_nearest_scaling != 0
.pop {r4-r8, pc} /* exit */
.else
.bx lr /* exit */
.endif
8:
/* Process the remaining trailing pixels in the scanline (dst unaligned) */
.process_trailing_pixels 0, 0, 
   process_pixblock_head, 
   process_pixblock_tail, 
   process_pixblock_tail_head
.cleanup
.if use_nearest_scaling != 0
.pop {r4-r8, pc} /* exit */

.unreq DST_R
.unreq SRC
.unreq W
.unreq VX
.unreq UNIT_X
.unreq TMP1
/* Default prologue/epilogue, nothing special needs to be done */

.macros default_init
.endm

.macros 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.
* /

.macros default_init_need_all_regs
    vpush {d8-d15}
.endm

.macros default_cleanup_need_all_regs
*/
/*
 * Conversion of 8 r5g6b6 pixels packed in 128-bit register (in)
 * into a planar a8r8g8b8 format (with a, r, g, b color components
 * stored into 64-bit registers out_a, out_r, out_g, out_b respectively).
 *
 * Warning: the conversion is destructive and the original
 * value (in) is lost.
 */

.macro convert_0565_to_8888 in, out_a, out_r, out_g, out_b
  vshrn.u16   out_r, in,    #8
  vshrn.u16   out_g, in,    #3
  vsli.u16    in,    in,    #5
  vmov.u8     out_a, #255
  vsri.u8     out_r, out_r, #5
  vsri.u8     out_g, out_g, #6
  vshrn.u16   out_b, in,    #2
.endm

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

/*
 * Conversion from planar a8r8g8b8 format (with a, r, g, b color components
 * in 64-bit registers in_a, in_r, in_g, in_b respectively) into 8 r5g6b6
 * pixels packed in 128-bit register (out). Requires two temporary 128-bit
 * registers (tmp1, tmp2)
 */

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

/*
 * Conversion of four r5g6b5 pixels (in) to four x8r8g8b8 pixels
 */
* 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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Sat, 07 Feb 2009 12:03:22 +0000.

It was downloaded from git://git.freedesktop.org/git/plymouth

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1.203 python 2.7.9 :r1.4
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python’s
principal author, although it includes many contributions from others.

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
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All Python releases are Open Source (see http://www.opensource.org for
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<th>Year</th>
<th>Owner</th>
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1.204 python-jsonschema 2.5.1 :r0

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1.205 python-netaddr 0.7.14 :r0

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

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

classifiers=['Development Status :: 3 - Alpha',
            'Intended Audience :: Developers',
            'License :: OSI Approved :: MIT License',
            'Operating System :: POSIX :: Linux',
            'Operating System :: MacOS :: MacOS X',
            'Programming Language :: Python',
            'Topic :: Software Development :: Libraries :: Python Modules',
            'Topic :: System :: Systems Administration :: Authentication/Directory'],

keywords='',
author='Chris AtLee',
author_email='chris@atlee.ca',
url='http://atlee.ca/software/pam',
download_url = "http://atlee.ca/software/pam/dist/%s" % version,
license='MIT',
py_modules=['pam'],
zip_safe=True,
install_requires=[],
entry_points="",

# -*- Entry points: -*-

1.207 python-psutil 2.2.1 :r0

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1.208 python-pyudev 0.16.1 :r0

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1.211 qemu 0.13.0

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This option is useful when you wish to copy part of the code of
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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modification of the work for the customer's own use and reverse
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directing the user to the copy of this License. Also, you must do one
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a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

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

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

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

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

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

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

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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    Sep 2007 10:01:21 -0000
+++ debug.c.c15 Jan 2008 13:49:25 -0000
@@ -52,7 +52,11 @@
   void X86EMU_trace_regs (void)
   {
     if (DEBUG_TRACE()) {
         -x86emu_dump_regs();
+if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+    x86emu_dump_xregs();
+  } else {
+
x86emu_dump_regs();
+}
}
if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
for (i=0; i< M.x86.enc_pos; i++) {
sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
}
- printk("%-20s",buf1);
+ printk("%-20s ",buf1);
}
static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c7 Sep 2007 10:01:21 -00001.1
+++ ops2.c20 Mar 2008 15:48:34 -00001.3
@@ -149,8 +149,69 @@
target += (s16) M.x86.R_IP;
DECODE_PRINTF2("%04x\n", target);
TRACE_AND_STEP();
- if (cond)
+ if (cond) {
M.x86.R_IP = (u16)target;
+JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+ }
+ DECODE_CLEAR_SEGOVR();
+ END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+ // perform the byte swap
+ s32 temp = reg;
+ reg = (temp & 0xFF000000) >> 24;
+ reg |= (temp & 0xFF0000) >> 8;
+ reg |= (temp & 0xFF00) << 8;
+ reg |= (temp & 0xFF) << 24;
+ return reg;

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```c
+} 
+} 
+void x86emuOp2_bswap(u8 op2) { 
+ /* byte swap 32 bit register */ 
+ START_OF_INSTR(); 
+ DECODE_PRINTF("BSWAP\t"); 
+ switch (op2) { 
+ case 0xc8: 
+ DECODE_PRINTF("EAX\n"); 
+ M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX); 
+ break; 
+ case 0xc9: 
+ DECODE_PRINTF("ECX\n"); 
+ M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX); 
+ break; 
+ case 0xca: 
+ DECODE_PRINTF("EDX\n"); 
+ M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX); 
+ break; 
+ case 0xcb: 
+ DECODE_PRINTF("EBX\n"); 
+ M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX); 
+ break; 
+ case 0xcc: 
+ DECODE_PRINTF("ESP\n"); 
+ M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP); 
+ break; 
+ case 0xcd: 
+ DECODE_PRINTF("EBP\n"); 
+ M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP); 
+ break; 
+ case 0xce: 
+ DECODE_PRINTF("ESI\n"); 
+ M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI); 
+ break; 
+ case 0xcf: 
+ DECODE_PRINTF("EDI\n"); 
+ M.x86.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 */
/* 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_bswap,
+/+/* 0xd1 */ x86emuOp2_bswap,
+/+/* 0xda */ x86emuOp2_bswap,
+/+/* 0xdb */ x86emuOp2_bswap,
+/+/* 0xdc */ x86emuOp2_bswap,
+/+/* 0xdd */ x86emuOp2_bswap,
+/+/* 0xde */ x86emuOp2_bswap,
+/+/* 0xdf */ x86emuOp2_bswap,
+/+/* 0xe0 */ x86emuOp2_bswap,
+/+/* 0xe1 */ x86emuOp2_bswap,
+/+/* 0xe2 */ x86emuOp2_bswap,
+/+/* 0xe3 */ x86emuOp2_bswap,
+/+/* 0xe4 */ x86emuOp2_bswap,
+/+/* 0xe5 */ x86emuOp2_bswap,
+/+/* 0xe6 */ x86emuOp2_bswap,
+/+/* 0xe7 */ x86emuOp2_bswap,
+/+/* 0xe8 */ x86emuOp2_bswap,
+/+/* 0xe9 */ x86emuOp2_bswap,
+/+/* 0xea */ x86emuOp2_bswap,
+/+/* 0xeb */ x86emuOp2_bswap,
+/+/* 0xec */ x86emuOp2_bswap,
+/+/* 0xed */ x86emuOp2_bswap,
+/+/* 0xee */ x86emuOp2_bswap,
+/+/* 0xef */ x86emuOp2_bswap,
+/+/* 0xf0 */ x86emuOp2_bswap,
+/+/* 0xf1 */ x86emuOp2_bswap,
+/+/* 0xf2 */ x86emuOp2_bswap,
+/+/* 0xf3 */ x86emuOp2_bswap,
+/+/* 0xf4 */ x86emuOp2_bswap,
+/+/* 0xf5 */ x86emuOp2_bswap,
+/+/* 0xf6 */ x86emuOp2_bswap,
+/+/* 0xf7 */ x86emuOp2_bswap,
+/+/* 0xf8 */ x86emuOp2_bswap,
+/+/* 0xf9 */ x86emuOp2_bswap,
+/+/* 0xfa */ x86emuOp2_bswap,
+/+/* 0xfb */ x86emuOp2_bswap,
+/+/* 0xfc */ x86emuOp2_bswap,
+/+/* 0xfd */ x86emuOp2_bswap,
+/+/* 0xfe */ x86emuOp2_bswap,
+/+/* 0xff */ x86emuOp2_bswap,
count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - count = M.x86.R_CX;
    + /* move them until (E)CX is ZERO. */
    + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    +if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    + if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();

count = 1;
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    - /* move them until CX is ZERO. */
    - count = M.x86.R_CX;
    + /* move them until (E)CX is ZERO. */
    + count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
    M.x86.R_CX = 0;
    +if (M.x86.mode & SYSMODE_32BIT_REP)
        M.x86.R_ECX = 0;
    M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
while (count--) {
    store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
    M.x86.R_SI += inc;
    M.x86.R_DI += inc;
    + if (M.x86.intr & INTR_HALTED)
        break;
}
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
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.mode & SYSMODE_32BIT_REP)  
   // M.x86.R_CX -= 1;  
   if (M.x86.intr & INTR_HALTED)  
      break;  
   }  
   M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);  
} else {  
}  
}

```c
@@ -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);  
      }  
   }  
   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;
DECODECLEAR_SEGEOVR();
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;
+            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;
+        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;
    } DECODECLEAR_SEGEOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
    inc = 1;
if (M.x86.mode & SYSMODE_PREFIX_REPE) {
    /* REPE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
  +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        -            M.x86.R_CX -= 1;
        +            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
        +            else
        +                M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF) == 0)
        break;
        +        if (M.x86.intr & INTR_HALTED)
        +            break;
    } 
  } 
  M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
    /* REPNE */
    - /* move them until CX is ZERO. */
    - while (M.x86.R_CX != 0) {
+    /* move them until (E)CX is ZERO. */
  +    while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
        cmp_byte(M.x86.R_AL, val2);
        -            M.x86.R_CX -= 1;
        +            if (M.x86.mode & SYSMODE_32BIT_REP)
+                M.x86.R_ECX -= 1;
        +            else
        +                M.x86.R_CX -= 1;
        M.x86.R_DI += inc;
        if (ACCESS_FLAG(F_ZF))
        break; /* zero flag set means equal */
        +        if (M.x86.intr & INTR_HALTED)
        +            break;
    } 
  } 
  M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
} else {
    @@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE */
-        /* move them until CX is ZERO. */
-        while (M.x86.R_CX != 0) {
+        /* move them until (E)CX is ZERO. */
+            /* 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);
    }
    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 */
    while (M.x86.R_CX != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX, val);
        }
        if (M.x86.intr & INTR_HALTED)
            break;
    }
    M.x86.mode &= ~SYSMODE_PREFIX_REPE;
} else {
    DECODE_PRINTF("RET\n");
imm = fetch_word_imm();
DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
M.x86.R_SP += imm;
DECODE_CLEAR_SEGOVR();
END_OF_INSTR();
@@ -3254,9 +3316,9 @@
{
  START_OF_INSTR();
  DECODE_PRINTF("RETn");
-RETURN_TRACE("RET", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -3471,10 +3533,10 @@
  DECODE_PRINTF("RETF\n");
  imm = fetch_word_imm();
  DECODE_PRINTF2("%x\n", imm);
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
  M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  M.x86.R_SP += imm;
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
  START_OF_INSTR();
  DECODE_PRINTF("RETF\n");
-RETURN_TRACE("RETF", M.x86.saved_cs, M.x86.saved_ip);
TRACE_AND_STEP();
  M.x86.R_IP = pop_word();
  M.x86.R_CS = pop_word();
+RETURN_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
  DECODE_CLEAR_SEGOVR();
  END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
  ip += (s16) M.x86.R_IP;
  DECODE_PRINTF2("%04x\n", ip);
  TRACE_AND_STEP();

- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 & & ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 & &
+ ACCESS_FLAG(F_ZF)) /* (E)CX != 0 and ZF */
+ M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@ @ -4041.8 +4106.11 @@
    ip += (s16) M.x86.R.IP;
    DECODE_PRINTF2("%04x\n", ip);
    TRACE_AND_STEP();
- M.x86.R_CX -= 1;
- if (M.x86.R_CX != 0 & & ACCESS_FLAG(F_ZF)) /* CX != 0 and ZF */
+ if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+ M.x86.R_ECX -= 1;
+ else
+ M.x86.R_CX -= 1;
+ if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0) /* (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.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();
@@ -4357,12 +4433,14 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
break;
case 4: /* jmp word ptr */
    destval = fetch_data_word(destoffset);
    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
    TRACE_AND_STEP();
    M.x86.R_IP = destval;
    break;

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

Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
    #ifdef __HAS_LONG_LONG__
-        s64 res = (s64)d * (s64)s;
+        s64 res = (s32)d * (s64)(s32)s;
    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
    @@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
    #ifdef __HAS_LONG_LONG__
-        u64 res = (u32)M.x86.R_EAX * (u32)s;
+        u64 res = (u64)M.x86.R_EAX * s;
    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
    @@ -2312,16 +2312,15 @@
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-            /* in until CX is ZERO. */
-            u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+            /* in until (E)CX is ZERO. */
+            u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
M.x86.R_ECX : M.x86.R_CX);
    }
while (count--) {
    single_in(size);
    M.x86.R_DI += inc;
}
M.x86.R_CX = 0;
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}  
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
}
if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
    /* dont care whether REPE or REPNE */
    /* out until CX is ZERO. */
    u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
        /* out until (E)CX is ZERO. */
        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
            M.x86.R_ECX : M.x86.R_CX);
    while (count--) {
        single_out(size);
        M.x86.R_SI += inc;
    }
    M.x86.R_CX = 0;
}  
if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+ if (M.x86.mode & SYSMODE_32BIT_REP) {
    M.x86.R_ECX = 0;
}  
M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000
+++ sys.c 7 Sep 2007 10:03:13 -0000
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif
#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
  DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);
  -return inb(addr);
  +return 0;
  }
#endif

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

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

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

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

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

Index: include/x86emu/debug.h

===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H
/*---------------------- Macros and type definitions ----------------------*/
@@ -78,6 +76,8 @@
#define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
#define DEBUG_TRACECALL()     (M.x86.debug & DEBUG_TRACECALL_F)
#define DEBUG_TRACECALLREGS() (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+#define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+#define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
#define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
#define DEBUG_MEM_TRACE()     (M.x86.debug & DEBUG_MEM_TRACE_F)
#define DEBUG_IO_TRACE()      (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
#define DEBUG_SYSINT()        0
#define DEBUG_TRACECALL()    0
#define DEBUG_TRACECALLREGS() 0
+#define DEBUG_TRACEJMP()    0
+#define DEBUG_TRACEJMPREGS() 0
#define DEBUG_SYS()          0
#define DEBUG_MEM_TRACE()    0
#define DEBUG_IOTRACE()      0

@@ -169,14 +171,20 @@
x86emu_dump_regs(); \ 
if (DEBUG_TRACECALL())  
  \ 
  printk("%04x:%04x: CALL %s%04x:%04x\n", u, v, s, w, x); 
-# define RETURN_TRACE(n,u,v)                                    
+# define RETURN_TRACE(u,v,w,x,s)                                    
if (DEBUG_TRACECALLREGS())	\ 
  x86emu_dump_regs(); \ 
if (DEBUG_TRACECALL())  
-  printk("%04x:%04x: %s\n",u,v,n); 
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x); 
+# define  JMP_TRACE(u,v,w,x,s)                                 
+   if (DEBUG_TRACEJMPREGS()) 
+      x86emu_dump_regs(); 
+   if (DEBUG_TRACEJMP()) 
+      printk("%04x:%04x: JMP %s%04x:%04x\n", u, v, s, w, x); 
#else
  \ 
    # define CALL_TRACE(u,v,w,x,s)  
-# define RETURN_TRACE(n,u,v)                                    
+# define RETURN_TRACE(u,v,w,x,s)                                    
+# define  JMP_TRACE(u,v,w,x,s)
#else
  \ 
    # define CALL_TRACE(u,v,w,x,s)  
-# define RETURN_TRACE(n,u,v)                                    
+# define RETURN_TRACE(u,v,w,x,s)                                    
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#else
  \ 
    # define CALL_TRACE(u,v,w,x,s)  
-# define RETURN_TRACE(n,u,v)                                    
+# define RETURN_TRACE(u,v,w,x,s)                                    
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h7 Sep 2007 10:01:21 -00001.1
+++ include/x86emu/regs.h15 Jan 2008 13:46:40 -00001.4
@@ -231,6 +231,9 @@
  SYSMODE_SEGOVR_GS | 
  SYSMODE_SEGOVR_SS | 
-  SYSMODE_PREFIX_DATA | 
+  SYSMODE_PREFIX_ADDR | 
}
#define INTR_SYNCH 0x1
#define INTRASYNCH 0x1
#define INTR_ASYNCH 0x2
	int debug;
#define INTR_SYNCH 0x1
#define INTRASYNCH 0x1
#define INTR_ASYNCH 0x2
	int debug;

/*
 volatile int intr; /* mask of pending interrupts */
-int debug;
 volatile int debug;

#endif DEBUG
	int check;

#define printk printf

#include <stdio.h>
#define printk printf

#else

#include <stdio.h>
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)

#endif

#define DEBUG_TRACECALL_REGS_F 0x000000
#define DEBUG_DECODE_NOPRINT_F 0x008000
#define DEBUG_SAVE_IP_CS_F 0x010000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void X86EMU_trace_regs(void);

#define DEBUG_TRACEJMP_F 0x020000
#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

/* End of “C” linkage for C++ */
#endif

#else

#define DEBUG_TRACEJMP_F 0x020000
#define DEBUG_TRACEJMP_REGS_F 0x040000
#define DEBUG_SYS_F (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

X86EMU_trace_regs(void);
#endif

*/

#define __cplusplus
	/* End of “C” linkage for C++ */
#endif

-#endif /* __X86EMU_X86EMU_H */
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/*
 * FreeBSD strace list
 *
 */

/* FreeBSD strace list */

[ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL ],
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{ 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)" },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s("%s",%p,%d)" },
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{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
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{ 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)" },
{ 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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Version 2, June 1991

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

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

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

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

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If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

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Appendix: How to Apply These Terms to Your New Libraries

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

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

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

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

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

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

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

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

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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.

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

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

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

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

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

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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
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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copyright notice for the Library among them, as well as a reference
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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
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
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e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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- Seth Arnold, for contributing to the documentation.
- Daniel Black, (former) maintainer of the Gentoo GNU/Linux BeeCrypt package.
- Jan-Rudolph Bhrmann, for helping me get started on the 64-bit multi-
  precision integer library.
- Luca Filipozzi, (former) maintainer/packager of BeeCrypt for Debian GNU/Linux.
- Jeff Johnson, the guy behind RedHat's Package Manager, who has inspired
  and contributed to many of the changes for version 3.0.0. He also provided
  the new hash functions for version 4.2.0. 73 de Bob.
- Anibal Monsalve Salazar, (current) maintainer/packager of BeeCrypt for
  Debian GNU/Linux.
- Jon Sturgeon, bug hunter extraordinaire.

Further thanks go to:
- AMD, for donating a copy of "AMD x86-64 Architecture Programmer's Manual".
- ARM Ltd, for donating a copy of "ARM Architecture Reference Manual".
- HP/Compaq, for their testdrive program, which gave me the opportunity to
  test and BeeCrypt on many new platforms.
- FSF France, for providing me with access to the GCC Compile Farm.
- SourceForge, for their excellent open source development platform.

Last but not least: thanks to everyone who provided bits of information,
reported bugs, provided feedback, or works on including BeeCrypt in any
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=============
Test 1.1:101
=============
Testing argument parsing
First type
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
e1_l1_7
e1_l1_8
e1_l1_8
e1_l1_9
e1_l1_9
e1_l1_10
e1_l1_10
e1_l1_11
e1_l1_11
e1_l1_12
e1_l1_12
e1_l1_13
e1_l1_13
e1_l1_14
e1_l1_14
Test 1.2: 102

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

-------------------
Test 1.3: 103

-------------------
e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
e1_l1_4
e1_l1_4
e1_l1_5
e1_l1_5
e1_l1_6
e1_l1_6
e1_l1_7
e1_l1_7
e1_l1_8
e1_l1_8
e1_l1_9
e1_l1_9
e1_l1_10
e1_l1_10
e1_l1_11
e1_l1_11
e1_l1_12
e1_l1_12
e1_l1_13
e1_l1_13
Test 1.4:104

Second type

Test 1.4.1:105

Test 1.5:106
s1_l1_3
s1_l1_4
s1_l1_4
s1_l1_5
s1_l1_5
s1_l1_6
s1_l1_6
s1_l1_7
s1_l1_7
s1_l1_8
s1_l1_8
s1_l1_9
s1_l1_9
s1_l1_10
s1_l1_10
s1_l1_11
s1_l1_11
s1_l1_12
s1_l1_12
s1_l1_13
s1_l1_13
s1_l1_14
s1_l1_14

-------------
Test 1.6:107
-------------

s1_l1_1
s1_l1_1
s1_l1_2
s1_l1_2
s1_l1_3
s1_l1_3
s1_l1_4
s1_l1_4
s1_l1_5
s1_l1_5
s1_l1_6
s1_l1_6
s1_l1_7
s1_l1_7
s1_l1_8
s1_l1_8
s1_l1_9
s1_l1_9
s1_l1_10
s1_l1_10
s1_l1_11
s1_l1_11
Test 1.9:110

Test 1.10:111

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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
Test 1.16:117

---
e1_l1_1
e1_l1_1
e1_l1_2
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

---
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
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e1_l1_10
e1_l1_11
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e1_l1_14
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e1_l1_1
e1_l1_1
e1_l1_2
e1_l1_2
e1_l1_3
e1_l1_3
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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
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 2.15:133

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

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| Test 2.16:134  
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</tr>
<tr>
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</table>

| Test 2.17:135  
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<td>l2_8</td>
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<tr>
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</tr>
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</table>

| Test 2.18:136  
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<tbody>
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</tr>
<tr>
<td>l2_5</td>
</tr>
<tr>
<td>l2_6</td>
</tr>
</tbody>
</table>
12_7
12_8
12_9

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

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

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

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

^l1T1$
^l1T2$
^l1T3$
l_4
l_5
l_6
l_7
l_8
l_9
l_10
l_11
l_12
^l1T13$
^l1T14$

Test 3.4:142

^l1_1
^l1_2
^l1_3
l_4
l_5
l_6
l_7
l_8
l_9
l_10
l_11
l_12
^l1_13
^l1_14
Testing a c d and i commands

Test 4.1:143

before_il1_1
after_ibebefore_il1_1
before_il1_2
after_ibebefore_il1_2
before_il1_3
after_ibefore_il1_3
before_il1_4
after_ibefore_il1_4
before_il1_5
after_ibefore_il1_5
before_il1_6
after_ibefore_il1_6
before_il1_7
after_ibefore_il1_7
before_il1_8
after_ibbefore_il1_8
before_il1_9
after_ibefore_il1_9
before_il1_10
after_ibefore_il1_10
before_il1_11
after_ibbefore_il1_11
before_il1_12
after_ibbefore_il1_12
before_il1_13
after_ibbefore_il1_13
before_il1_14
after_ibbefore_il1_14
before_il2_1
after_ibbefore_il2_1
before_il2_2
after_ibbefore_il2_2
before_il2_3
after_ibbefore_il2_3
before_il2_4
after_ibbefore_il2_4
before_il2_5
after_ibbefore_il2_5
before_il2_6
inserted
after_ibbefore_il2_6
before_il2_7
after_ibbefore_il2_7
before_il2_8
after_ibbefore_il2_8
before_il2_9
after_ibbefore_il2_9

==============
Test 4.2:144
==============
before_al1_1
after_abeefore_al1_1
before_al2_8
after_abefore_al2_8
before_al2_9
after_abefore_al2_9

===============
Test 4.3:145
===============
^l1_1
^l1_1$
appended
^l1_2
^l1_2$
appended
^l1_3
^l1_3$
appended
^l1_4
^l1_4$
appended
^l1_5
^l1_5$
appended
^l1_6
^l1_6$
appended
^l1_7
^l1_7$
appended
^l1_8
^l1_8
l1_9$
^l1_9$
appended
^l1_10
^l1_10
l1_11$
^l1_11$
appended
^l1_12
^l1_12$
appended
^l1_13
^l1_13$
appended
^l1_14
^l1_14$
appended
^l2_1
^l2_1$
Test 4.4:146

hello
hello
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
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 5.7:157

Test 5.8:158

Pattern space commands

Test 6.1:159
Test 6.2:160

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

Test 6.3:161

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

Test 6.4:162

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

Test 6.6:164

Testing print and file routines

Test 7.1:165
Test 7.2:166

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

Test 7.3:167

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

Test 7.5: 169
Testing substitution commands
11_2
11_3
11_4
11_5
11_6
11_7
11_8
11_9
11_10
11_11
11_12
11_13
11_14

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

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

Test 8.8:179

Test 8.9:180
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

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

Test 8.17:188

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1.223 ssh 1:5.5p1-4ubuntu4
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This package contains a Gnome based implementation of ssh-askpass written by Damien Miller.

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Send patches to sysvinit-devel@nongnu.org

The of the start-stop-daemon

* A rewrite of the original Debian's start-stop-daemon Perl script
* in C (faster - it is executed many times during system startup).
* Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.227 sysvinit-inittab 2.88dsf :r10

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

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

/* TUNSETGROUP appeared in 2.6.23 */
#ifndef TUNSETGROUP

### Define TUNSETGROUP

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

### Static void Usage(char *name)

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

### Int main(int argc, char **argv)

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

    while((opt = getopt(argc, argv, "bd:f:npt:u:g:h")) > 0){
        switch(opt) {
            case 'b':
                brief = 1;
                break;
            case 'd':
                delete = 1;
                tun = optarg;
                break;
            case 'f':
                file = optarg;
                break;
            case 'p':
                if(type != 0)
                    Usage(name);
                type = IFF_TAP;
                break;
            case 'n':
                if(type != 0)
                    Usage(name);
                break;
        }
    }
```
type = IFF_TUN;
break;
case 'u':
pw = getpwnam(optarg);
if(pw != NULL){
    owner = pw->pw_uid;
    break;
}
    owner = strtol(optarg, &end, 0);
if(*end != '\0'){
    fprintf(stderr, "%s is neither a username nor a numeric uid.\n", optarg);
    Usage(name);
}
    break;
case 'g':
gr = getgrnam(optarg);
if(gr != NULL){
    group = gr->gr_gid;
    break;
}
    group = strtol(optarg, &end, 0);
if(*end != '\0'){
    fprintf(stderr, "%s is neither a groupname nor a numeric group.\n", optarg);
    Usage(name);
}
    break;

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

    if(argc > 0)
    Usage(name);

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

1.236.1 Available under license:

```
#!/bin/sh
#
# update-rc.d Update the links in /etc/rc[0-9S].d/
#
# (c) 2003, 2004 Phil Blundell <pb@handhelds.org>
#
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initd="/etc/init.d"
etcd="/etc/rc"
notreally=0
force=0
dostart=0
verbose=0

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

checklinks()
{
    local i d n fn remove=0
    if [ "$1" = "xremove" ]; then
        echo " Removing any system startup links for $bn ...
        remove=1
```
for i in 0 1 2 3 4 5 6 7 8 9 S; do
dn="${etcd}$i.d"
if [ ! -d $dn ]; then
    continue;
fi
for f in ${dn}/[^SK][^S]*${bn}; do
    if [ -L $f ]; then
        if [ $remove -eq 0 ]; then
            return 1
        fi
        echo " $f"
    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}"
    [ $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/S??${bn} ]; then
            ${etcd}$RUNLEVEL.d/S??${bn} restart || true
        fi
        exit 0
    fi
}
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}${etcd}"
    shift
    ;;
  -h | --help)
    usage
    exit 0
    ;;
  -*)
    usage
    exit 1
    ;;
  *)
    break
    ;;
esac
if [$# -lt 2 ]; then
usage
exit 1
fi

bn=$1
shift

sn=$initd/$bn
if [-L "$sn" -a -n "$root" ]; then
if which readlink >/dev/null; then
while true; do
linksn="$(readlink "$sn")"
if [ -z "$linksn" ]; then
break
fi

sn="$linksn"
case "$sn" in
/*) sn="$root$sn" ;;
*) sn="$initd/$sn" ;;
esac
done
else
else
echo "update-rc.d: readlink tool not present, cannot check whether \n$sn symlink points to a valid file." &>&2
fi
fi

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

if [ $dostart -eq 1 ]; then


#RUNLEVEL=`sed "s/.*\[\(.*\)\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\]\}\ " </proc/1/cmdline`
RUNLEVEL=`runlevel | cut -d" " -f2`
if [ "x$RUNLEVEL" = "x" ]; then
  echo "Unable to determine current runlevel" >&2
  exit 1
fi
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 $1 + 0)`
      start=$NN
      end=$NN
      if [ $end -lt 0 ]; then
        echo "illegal start or end" >&2
        usage
        exit 1
      fi
      stoplinks+="$startlinks/$start $endlinks/$end"
      startlinks="$endlinks/$start $startlinks/$start"
      makelinks
    done
    # (start | stop)
    if [ $# -gt 0 ]; then
      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 $1 + 0)`
      start=$NN
      end=$NN
      if [ $end -lt 0 ]; then
        echo "illegal start or end" >&2
        usage
        exit 1
      fi
      stoplinks+="$startlinks/$start $endlinks/$end"
      startlinks="$endlinks/$start $startlinks/$start"
      makelinks
    else
      while [ $# -gt 0 ]; do
        letter="S"
        letter="K"
        shift
      done
    fi
    if [ $end -lt 0 ]; then
      echo "illegal start or end" >&2
      usage
      exit 1
    fi
    stoplinks+="$startlinks/$start $endlinks/$end"
    startlinks="$endlinks/$start $startlinks/$start"
    makelinks
    ;;
  esac
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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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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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
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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
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to
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d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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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
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Otherwise, if the work is a derivative of the Library, you may
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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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1.241 util-linux 2.17.2-0ubuntu1

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size: 8388608, sector size: 512, PT: dos, offset: 446
---
#1:         32       7648  0x83
#2:        7680       8704  0xa5
#5:         7936      4864  0x7 (freebsd)
#6:      12544       3584  0x7 (freebsd)
size: 4456448, sector size: 512, PT: bsd, offset: 512
---
#1:        7936      4864  0x7
#2:     12544       3584  0x7
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The current maintainer is LaMont Jones <lamont@debian.org>. See also: git://git.debian.org/~lamont/util-linux.git

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1.242 util-linux 2.26.2 :r0.3

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

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

Create 1st primary partition
ada64ace122978d00d1d1c0e5ee45d26 bsd.img

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

Device  Boot Start  End Sectors Size Id Type
<removed>1  2048  4095  2048  1M 83 Linux
Create 2st primary partition
1bebf87248e05d6e4e62b749da65d023 bsd.img
Set 2nd partition type
2d8e8dfe51a88a045db233418dd73f8e 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>

<table>
<thead>
<tr>
<th>Device</th>
<th>Boot</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Id</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;removed&gt;1</td>
<td>2048</td>
<td>4095</td>
<td>2048</td>
<td>1M</td>
<td>83</td>
<td>83</td>
<td>Linux</td>
</tr>
<tr>
<td>&lt;removed&gt;2</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>a5</td>
<td>a5</td>
<td>FreeBSD</td>
</tr>
</tbody>
</table>

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

Create default BSD
2e1ce529cb59e9341afe0443f196a1 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

<table>
<thead>
<tr>
<th>Slice</th>
<th>Start</th>
<th>End</th>
<th>Sectors</th>
<th>Size</th>
<th>Type</th>
<th>Fsize</th>
<th>Bsize</th>
<th>Cpg</th>
</tr>
</thead>
<tbody>
<tr>
<td>c</td>
<td>4096</td>
<td>20479</td>
<td>16384</td>
<td>8M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>d</td>
<td>0</td>
<td>16064</td>
<td>16064</td>
<td>7.9M</td>
<td>unused</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

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

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

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

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

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

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

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

Command (m for help):

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

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Name: XZ Utils
Maintainer: Lasse Collin <lasse.collin@tukaani.org>
Source: http://tukaani.org/xz
git://ctrl.tukaani.org/xz.git
X-Authors: XZ Utils is developed and maintained upstream by Lasse Collin. Major portions are based on code by other authors; see AUTHORS for details.
Most of the source has been put into the public domain, but some files have not (details below).
X-Overview: Different licenses apply to different files in this package. Here is a rough summary of which licenses apply to which parts of this package (but check the individual files to be sure!):
- liblzma is in the public domain.

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

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

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

- Translated messages are in the public domain.

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

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

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

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

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1998, Steve Reid
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X-Note:
From: Lasse Collin <lasse.collin@tukaani.org>
To: Jonathan Nieder <jrnieder@gmail.com>
Subject: Re: XZ utils for Debian
Date: Sun, 19 Jul 2009 13:28:23 +0300
Message-Id: <200907191328.23816.lasse.collin@tukaani.org>

[...]

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

COPYING says that most docs are in the public domain. Maybe that's not clear enough, but on the other hand it looks a bit stupid to put copyright information in tiny and relatively small docs like README.

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Files: INSTALL, NEWS, PACKAGERS, windows/README-Windows.txt, windows/INSTALL-Windows.txt

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Files: src/scripts/*, lib/*, extra/scanlzma/scanlzma.c
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X-Source-Code: tests/bcj_test.c
License: PD
changelog.gz (commit 975d8fd) explains:

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Files: dos/config.h
Free Software Foundation, Inc.
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X-Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert, David Mackenzie, Bruno Haible, and many others.
X-Origin: configure.ac from XZ Utils,
visibility.m4 serial 1 (gettext-0.15),
Autoconf 2.52g
License: config-h
configure.ac:

# Author: Lasse Collin
#
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.
comments from Autoconf 2.52g:

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dos/config.h was generated with autoheader, which tells Autoconf to
output a script to generate a config.h file and then runs it.
Files: po/Makevars
X-Origin: gettext-runtime/po/Makevars (gettext-0.12)
X-Authors: Bruno Haible
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1.246 yajl 2.1.0 :r0.1

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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
1.248.1 Available under license :

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

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

Acknowledgments:

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

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