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Contents

1.1 alsa-lib 1.0.29

1.1.1 Available under license

1.2 alsa-utils 1.0.29

1.2.1 Available under license

1.3 apmd 3.2.2-14

1.3.1 Available under license

1.4 atftp 0.7

1.4.1 Available under license

1.5 avahi 0.6.31

1.5.1 Available under license

1.6 base-files 3.0.14

1.6.1 Available under license

1.7 base-passwd 3.5.29

1.7.1 Available under license

1.8 bash 4.3.30

1.8.1 Available under license

1.9 bluez5 5.33

1.9.1 Available under license

1.10 bridge-utils 1.5

1.10.1 Available under license

1.11 busybox 1.23.2

1.11.1 Available under license

1.12 bzip2 1.0.6

1.12.1 Available under license

1.13 ca-certificates 20150426

1.13.1 Available under license

- 1.14 cronie 1.5.0**
 - 1.14.1 Available under license
- 1.15 curl 7.44.0**
 - 1.15.1 Available under license
- 1.16 curl 7.58.0**
 - 1.16.1 Available under license
- 1.17 dbus 1.8.2 :0.patch**
 - 1.17.1 Available under license
- 1.18 dbus-glib 0.104**
 - 1.18.1 Available under license
- 1.19 e2fsprogs 1.42.9**
 - 1.19.1 Available under license
- 1.20 ethtool 4.0 :r0**
 - 1.20.1 Available under license
- 1.21 expat 2.1.0**
 - 1.21.1 Available under license
- 1.22 gcc-runtime 5.2.0**
 - 1.22.1 Available under license
- 1.23 glib-2.0 2.44.1**
 - 1.23.1 Available under license
- 1.24 gmp 6.0.0**
 - 1.24.1 Available under license
- 1.25 gnutls 3.3.17.1**
 - 1.25.1 Available under license
- 1.26 gnutls_GPLv3 3.3.17.1**
 - 1.26.1 Available under license
- 1.27 gnutls_LGPLv3 3.3.17.1**
 - 1.27.1 Available under license
- 1.28 hostap-utils 0.4.7**
 - 1.28.1 Available under license
- 1.29 imx-alsa-plugins 1.0.26**
 - 1.29.1 Available under license
- 1.30 init-ifupdown 1.0**
 - 1.30.1 Available under license
- 1.31 initscripts 1.0**
 - 1.31.1 Available under license
- 1.32 iproute2 4.1.1**
 - 1.32.1 Available under license
- 1.33 iw 4.1 :1.el6**

- 1.33.1 Available under license
- 1.34 kmod 21**
 - 1.34.1 Available under license
- 1.35 libcap 2.24**
 - 1.35.1 Available under license
- 1.36 libdaemon 0.14**
 - 1.36.1 Available under license
- 1.37 libffi 3.2.1 :Nov 12 2014**
 - 1.37.1 Available under license
- 1.38 libgcrypt 1.6.3 :2.0**
 - 1.38.1 Available under license
- 1.39 libnl 3.2.25**
 - 1.39.1 Available under license
- 1.40 libpam 1.2.1 :r5**
 - 1.40.1 Available under license
- 1.41 libstdc++ 5.3.0 :r0**
 - 1.41.1 Available under license
- 1.42 libtirpc 1.0.1**
 - 1.42.1 Available under license
- 1.43 libusb1 1.0.19**
 - 1.43.1 Available under license
- 1.44 libX11 1.6.0 :2.1.el7**
 - 1.44.1 Available under license
- 1.45 libXau 1.0.8 :2.1.el7**
 - 1.45.1 Available under license
- 1.46 libxcb 1.11**
 - 1.46.1 Available under license
- 1.47 libXdmcp 1.1.2**
 - 1.47.1 Available under license
- 1.48 linux-firmware 1.0**
 - 1.48.1 Available under license
- 1.49 mmc-utils 0.1**
 - 1.49.1 Available under license
- 1.50 ncurses 5.9**
 - 1.50.1 Available under license
- 1.51 netbase 5.3**
 - 1.51.1 Available under license
- 1.52 nettle 2.7.1**
 - 1.52.1 Available under license

1.53 nss-mdns 0.10

1.53.1 Available under license

1.54 ofono 1.16

1.54.1 Available under license

1.55 OpenSSL-1.0.2r 1.0.2r

1.55.1 Available under license

1.56 opkg-utils 0.1.8

1.56.1 Available under license

1.57 packagegroup-base 1.0 :r83.0

1.57.1 Available under license

1.58 pciutils 3.3.1

1.58.1 Available under license

1.59 perl 5.22.0

1.59.1 Available under license

1.60 psplash 0.1

1.60.1 Available under license

1.61 python 2.7.9

1.61.1 Available under license

1.62 python 2.7.13

1.62.1 Available under license

1.63 python-dbus 1.2.0

1.63.1 Available under license

1.64 python-psutil 2.2.1 :1.e17

1.64.1 Available under license

1.65 python-pyobject 2.28.3

1.65.1 Available under license

1.66 python_GPLv3 2.7.13

1.66.1 Available under license

1.67 readline 6.3

1.67.1 Available under license

1.68 rpcbind 0.2.3 :r0

1.68.1 Available under license

1.69 run-postinsts 1.0

1.69.1 Available under license

1.70 shadow 4.2.1 :3.0

1.70.1 Available under license

1.71 shadow 4.2.1

1.71.1 Available under license

1.72 sysfsutils 2.1.0 :r5

- 1.72.1 Available under license
- 1.73 sysvinit 2.88dsf**
 - 1.73.1 Available under license
- 1.74 sysvinit-inittab 2.88dsf :r9**
 - 1.74.1 Available under license
- 1.75 tar 1.28**
 - 1.75.1 Available under license
- 1.76 tftp-hpa 5.2**
 - 1.76.1 Available under license
- 1.77 u-boot 2015.4**
 - 1.77.1 Available under license
- 1.78 u-boot-fw-util 2015.07**
 - 1.78.1 Available under license
- 1.79 udev 182 :8f90e109580577a67eba1aa04b6af4fb**
 - 1.79.1 Available under license
- 1.80 update-rc.d 0.7**
 - 1.80.1 Available under license
- 1.81 usbmuxd 1.0.8 :11.e17**
 - 1.81.1 Available under license
- 1.82 usbmuxd-proto.h 1.1.0**
 - 1.82.1 Available under license
- 1.83 usbmuxd/libusbmuxd 1.0.8 :11.e17**
 - 1.83.1 Available under license
- 1.84 usbutils 007 :5.e17**
 - 1.84.1 Available under license
- 1.85 util-linux 2.26.2**
 - 1.85.1 Available under license
- 1.86 vlan 1.9**
 - 1.86.1 Available under license
- 1.87 wireless-tools 30pre9 :1**
 - 1.87.1 Available under license
- 1.88 wpa-supPLICANT 2.4**
 - 1.88.1 Available under license
- 1.89 zlib 1.2.8**
 - 1.89.1 Available under license

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/*

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1.3 apmd 3.2.2-14

1.3.1 Available under license :

```
/* apm.h -- Header file for sample APM interface routines
* Created: Mon Jan 8 11:40:50 1996 by r.faiht@ieee.org
* Revised: Thu Apr 4 21:57:31 1996 by r.faiht@ieee.org
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*

* \$Id: apm.h,v 1.7 1999/07/05 22:31:11 apenwarr Exp \$

*

*/

```
#ifndef _APM_H
```

```
#define _APM_H 1
```

```
#ifndef __KERNEL_STRICT_NAMES
```

```
#define __KERNEL_STRICT_NAMES
```

```
#endif
```

```
#include <linux/apm_bios.h>
```

```
#include <sys/types.h>
```

```
#define APM_PROC "/proc/apm"
```

```
#define APM_DEVICE "/dev/apm_bios"
```

```
#define APM_DEV "/proc/devices"
```

```
#define APM_NAME "apm_bios"
```

```
#ifndef APM_32_BIT_SUPPORT
```

```
#define APM_32_BIT_SUPPORT 0x0002
```

```
#endif
```

```
typedef struct apm_info
```

```
{
```

```
    const char driver_version[10];
```

```
    int apm_version_major;
```

```
    int apm_version_minor;
```

```
    int apm_flags;
```

```
    int ac_line_status;
```

```
    int battery_status;
```

```
    int battery_flags;
```

```
    int battery_percentage;
```

```
    int battery_time;
```

```
    int using_minutes;
```

```
}
```

```
apm_info;
```

```
/*
```

```
* Encodings for apm_info
```

```
*/
```

```
#define AC_LINE_STATUS_OFF (0)
```



```

#define AC_LINE_STATUS_ON      (1)
#define AC_LINE_STATUS_BACKUP (2)
#define AC_LINE_STATUS_UNKNOWN (0xff)

#define BATTERY_STATUS_HIGH   (0)
#define BATTERY_STATUS_LOW    (1)
#define BATTERY_STATUS_CRITICAL (2)
#define BATTERY_STATUS_CHARGING (3)
#define BATTERY_STATUS_ABSENT (4)
#define BATTERY_STATUS_UNKNOWN (0xff)

#define BATTERY_FLAGS_HIGH    (0x1)
#define BATTERY_FLAGS_LOW     (0x2)
#define BATTERY_FLAGS_CRITICAL (0x4)
#define BATTERY_FLAGS_CHARGING (0x8)
#define BATTERY_FLAGS_ABSENT  (0x80)

#define BATTERY_PERCENTAGE_UNKNOWN (-1)

#define BATTERY_TIME_UNKNOWN    (-1)

extern int apm_exists(void);
extern int apm_read(apm_info * i);
extern dev_t apm_dev(void);
extern int apm_open(void);
extern int apm_close(int fd);
extern int apm_get_events(int fd, int timeout, apm_event_t * events, int n);
extern int apm_suspend(int fd);
extern int apm_standby(int fd);
extern int apm_set_ignore(int fd, int mode);
extern const char *apm_error_name( unsigned int err );
extern const char *apm_event_name(apm_event_t event);
extern const char *apm_time(time_t t);
extern const char *apm_delta_time(time_t then, time_t now);
extern const char *apm_time_nosec(time_t t);

#ifdef APM_IOC_REJECT
extern int apm_reject(int fd);
#else
#define apm_reject(fd) (-EINVAL)
#endif

#endif

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```

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1.7 base-passwd 3.5.29

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/*

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Files: passwd.master, group.master

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X-Notes: Originally written by Ian Murdock <imurdock@debian.org> and

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1.8 bash 4.3.30

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1.10 bridge-utils 1.5

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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

1.13 ca-certificates 20150426

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/* \$NetBSD: popen.c,v 1.9 2005/03/16 02:53:55 xtraeme Exp \$ */

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*/

```
#include "config.h"
```

```
#include <errno.h>
```

```
#include <pwd.h>
```

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
#include <string.h>
```

```
#include <sys/wait.h>
```

```
#include <unistd.h>
```

```
#include "funcs.h"
```

```
#include "globals.h"
```

```
#include "macros.h"
```

```
#ifdef HAVE_SYS_CDEFS_H
```

```
# include <sys/cdefs.h>
```

```
#endif
```

```
#include <signal.h>
```

```

/*
 * Special version of popen which avoids call to shell. This insures noone
 * may create a pipe to a hidden program as a side effect of a list or dir
 * command.
 */
static PID_T *pids;
static int fds;

#define MAX_ARGS 1024

FILE *cron_popen(char *program, const char *type, struct passwd *pw, char **jobenv) {
    char *cp;
    FILE *iop;
    int argc, pdes[2];
    PID_T pid;
    char *argv[MAX_ARGS];
    ssize_t out;
    char buf[PIPE_BUF];
    struct sigaction sa;
    int fd;

#ifdef __GNUCC__
    (void) &iop; /* Avoid fork clobbering */
#endif

    if ((*type != 'r' && *type != 'w') || type[1])
        return (NULL);

    if (!pids) {
        if ((fds = getdtablesize()) <= 0)
            return (NULL);
        if (!(pids = (PID_T *) malloc((u_int) (fds * sizeof (PID_T))))
            return (NULL);
        memset((char *) pids, 0, fds * sizeof (PID_T));
    }
    if (pipe(pdes) < 0)
        return (NULL);

    /* break up string into pieces */
    for (argc = 0, cp = program; argc < MAX_ARGS; cp = NULL)
        if (!(argv[argc++] = strtok(cp, "\t\n")))
            break;

    iop = NULL;
    switch (pid = fork()) {
    case -1: /* error */
        (void) close(pdes[0]);
        (void) close(pdes[1]);

```

```

goto pfree;
/* NOTREACHED */
case 0: /* child */
if (*type == 'r') {
if (pdes[1] != STDOUT) {
dup2(pdes[1], STDOUT);
dup2(pdes[1], STDERR); /* stderr, too! */
(void) close(pdes[1]);
}
(void) close(pdes[0]);
}
else {
if (pdes[0] != STDIN) {
dup2(pdes[0], STDIN);
(void) close(pdes[0]);
}
(void) close(pdes[1]);
}

/* reset SIGPIPE to default for the child */
memset(&sa, 0, sizeof(sa));
sa.sa_handler = SIG_DFL;
sigaction(SIGPIPE, &sa, NULL);

/* close all unwanted open file descriptors */
for (fd = STDERR + 1; fd < fds; fd++) {
close(fd);
}

if (cron_change_user_permanently(pw, env_get("HOME", jobenv)) != 0)
_exit(2);

if (execvpe(argv[0], argv, jobenv) < 0) {
int save_errno = errno;

log_it("CRON", getpid(), "EXEC FAILED", program, save_errno);
if (*type != 'r') {
while (0 != (out = read(STDIN, buf, PIPE_BUF))) {
if ((out == -1) && (errno != EINTR))
break;
}
}
}
_exit(1);
}
/* parent; assume fdopen can't fail... */
if (*type == 'r') {
iop = fdopen(pdes[0], type);

```

```

(void) close(pdes[1]);
}
else {
iop = fdopen(pdes[1], type);
(void) close(pdes[0]);
}
pids[fileno(iop)] = pid;

pfree:
return (iop);
}

int cron_pclose(FILE * iop) {
int fdes;
sigset_t oset, nset;
WAIT_T stat_loc;
PID_T pid;

/*
* pclose returns -1 if stream is not associated with a
* `popened' command, or, if already `pclosed'.
*/
if (pids == 0 || pids[fdes = fileno(iop)] == 0)
return (-1);
(void) fclose(iop);

sigemptyset(&nset);
sigaddset(&nset, SIGINT);
sigaddset(&nset, SIGQUIT);
sigaddset(&nset, SIGHUP);
(void) sigprocmask(SIG_BLOCK, &nset, &oset);
while ((pid = wait(&stat_loc)) != pids[fdes] && pid != -1) ;
(void) sigprocmask(SIG_SETMASK, &oset, NULL);
pids[fdes] = 0;
return (pid == -1 ? -1 : WEXITSTATUS(stat_loc));
}
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1.15 curl 7.44.0

1.15.1 Available under license :

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=====

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1.16 curl 7.58.0

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1.17 dbus 1.8.2 :0.patch

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```

```
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```
/*
 * e2p.h --- header file for the e2p library
 *
 * %Begin-Header%
 * This file may be redistributed under the terms of the GNU Library
 * General Public License, version 2.
 * %End-Header%
 */

#include <sys/types.h> /* Needed by dirent.h on netbsd */
#include <stdio.h>
#include <dirent.h>

#include <ext2fs/ext2_fs.h>

#define E2P_FEATURE_COMPAT 0
#define E2P_FEATURE_INCOMPAT 1
#define E2P_FEATURE_RO_INCOMPAT 2
#define E2P_FEATURE_TYPE_MASK 0x03

#define E2P_FEATURE_NEGATE_FLAG 0x80

#define E2P_FS_FEATURE 0
#define E2P_JOURNAL_FEATURE 1

/* `options' for print_flags() */

#define PFOPT_LONG 1 /* Must be 1 for compatibility with `int long_format'. */

int fgetflags (const char * name, unsigned long * flags);
int fgetversion (const char * name, unsigned long * version);
int fsetflags (const char * name, unsigned long flags);
int fsetversion (const char * name, unsigned long version);
```

```

int getflags (int fd, unsigned long * flags);
int getversion (int fd, unsigned long * version);
int iterate_on_dir (const char * dir_name,
    int (*func) (const char *, struct dirent *, void *),
    void * private);
void list_super(struct ext2_super_block * s);
void list_super2(struct ext2_super_block * s, FILE *f);
void print_fs_errors (FILE * f, unsigned short errors);
void print_flags (FILE * f, unsigned long flags, unsigned options);
void print_fs_state (FILE * f, unsigned short state);
int setflags (int fd, unsigned long flags);
int setversion (int fd, unsigned long version);

const char *e2p_feature2string(int compat, unsigned int mask);
const char *e2p_jrnl_feature2string(int compat, unsigned int mask);
int e2p_string2feature(char *string, int *compat, unsigned int *mask);
int e2p_jrnl_string2feature(char *string, int *compat_type, unsigned int *mask);
int e2p_edit_feature(const char *str, __u32 *compat_array, __u32 *ok_array);
int e2p_edit_feature2(const char *str, __u32 *compat_array, __u32 *ok_array,
    __u32 *clear_ok_array, int *type_err,
    unsigned int *mask_err);

int e2p_is_null_uuid(void *uu);
void e2p_uuid_to_str(void *uu, char *out);
const char *e2p_uuid2str(void *uu);

const char *e2p_hash2string(int num);
int e2p_string2hash(char *string);

const char *e2p_mntopt2string(unsigned int mask);
int e2p_string2mntopt(char *string, unsigned int *mask);
int e2p_edit_mntopts(const char *str, __u32 *mntopts, __u32 ok);

unsigned long parse_num_blocks(const char *arg, int log_block_size);
unsigned long long parse_num_blocks2(const char *arg, int log_block_size);

char *e2p_os2string(int os_type);
int e2p_string2os(char *str);

unsigned int e2p_percent(int percent, unsigned int base);

```

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*/

#include "config.h"

#include "com_err.h"

#include "error_table.h"

#include "internal.h"

static const char char_set[] =

"ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789_";

static char buf[6];

const char * error_table_name(errcode_t num)

{

int ch;

int i;

char *p;

/* num = aa aaa abb bbb bcc ccc cdd ddd d?? ??? ??? */

```

p = buf;
num >>= ERRCODE_RANGE;
/* num = ?? ??? ??? aaa aaa bbb bbb ccc ccc ddd ddd */
num &= 07777777L;
/* num = 00 000 000 aaa aaa bbb bbb ccc ccc ddd ddd */
for (i = 4; i >= 0; i--) {
ch = (int)((num >> BITS_PER_CHAR * i) & ((1 << BITS_PER_CHAR) - 1));
if (ch != 0)
    *p++ = char_set[ch-1];
}
*p = '\0';
return(buf);
}

```

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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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#

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

#

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

#

BSDLIB_VERSION = 1.0
BSDLIB_IMAGE = libce
BSDLIB_MYDIR = et
BSDLIB_INSTALL_DIR = \$(SHLIBDIR)

#

all:: image

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

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

```
image: $(BSD_LIB)
```

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

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

```
install-strip: install
```

```
install-shlibs-strip: install-shlibs
```

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

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

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Gadi Oxman, August 1995

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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```
Gnomovision version 69, Copyright (C) year 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.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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1.21 expat 2.1.0

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1.22 gcc-runtime 5.2.0

1.22.1 Available under license :

```
.\" Automatically generated by Pod::Man 2.28 (Pod::Simple 3.29)
.\"
.\" Standard preamble:
.\" =====
.de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb \" Begin verbatim text
.ft CW
.nf
.ne \\$1
..
.de Ve \" End verbatim text
.ft R
.fi
..
```

```

.\" Set up some character translations and predefined strings. \*(- will
.\" give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
.\" double quote, and \*(R" will give a right double quote. \*(C+ will
.\" give a nicer C++. Capital omega is used to do unbreakable dashes and
.\" therefore won't be available. \*(C` and \*(C' expand to ` in nroff,
.\" nothing in troff, for use with C<>.
.tr \(*W-
.ds C+ C\v'-.1v'h'-1p's-2+\h'-1p'+\s0\v'.1v'h'-1p'
.ie n \{\
. ds -- \(*W-
. ds PI pi
. if (\n(.H=4u)&(1m=24u) .ds -- \(*W'h'-12u'\(*W'h'-12u'-\ " diablo 10 pitch
. if (\n(.H=4u)&(1m=20u) .ds -- \(*W'h'-12u'\(*W'h'-8u'-\ " diablo 12 pitch
. ds L" ""
. ds R" ""
. ds C` ""
. ds C' ""
.br\}
.el\{\
. ds -- \|(em|
. ds PI \(*p
. ds L" ``
. ds R" "
. ds C`
. ds C'
.br\}
.\"
.\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \{aq
.el .ds Aq '
.\"
.\" If the F register is turned on, we'll generate index entries on stderr for
.\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
.\" entries marked with X<> in POD. Of course, you'll have to process the
.\" output yourself in some meaningful fashion.
.\"
.\" Avoid warning from groff about undefined register 'F'.
.de IX
..
.nr rF 0
.if \n(.g .if rF .nr rF 1
.if (\n(rF:(\n(.g==0)) \{\
. if \nF \{\
. de IX
. tm Index:\$1\t\n%\t"\$2"
..
. if !\nF==2 \{\
. nr % 0

```

```

.      nr F 2
.      \}
.      \}
.\}
.r r rF
.\"
.\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.\" Fear. Run. Save yourself. No user-serviceable parts.
.  \" fudge factors for nroff and troff
.if n \{\
.  ds #H 0
.  ds #V .8m
.  ds #F .3m
.  ds #[ \f1
.  ds #] \fP
.\}
.if t \{\
.  ds #H ((1u-(\\n(.fu%2u))*).13m)
.  ds #V .6m
.  ds #F 0
.  ds #[ \&
.  ds #] \&
.\}
.  \" simple accents for nroff and troff
.if n \{\
.  ds ' \&
.  ds ` \&
.  ds ^ \&
.  ds , \&
.  ds ~ ~
.  ds /
.\}
.if t \{\
.  ds ' \|k:h'-(\\n(.wu*8/10-*(#H)^\`h''\\n:u"
.  ds ` \|k:h'-(\\n(.wu*8/10-*(#H)^\`h''\\n:u'
.  ds ^ \|k:h'-(\\n(.wu*10/11-*(#H)'^h''\\n:u'
.  ds , \|k:h'-(\\n(.wu*8/10)',h''\\n:u'
.  ds ~ \|k:h'-(\\n(.wu-*(#H-.1m)')~h''\\n:u'
.  ds / \|k:h'-(\\n(.wu*8/10-*(#H)^\z\sl'h''\\n:u'
.\}
.  \" troff and (daisy-wheel) nroff accents
.ds : \|k:h'-(\\n(.wu*8/10-*(#H+.1m+*(#F)\v'-*(#V)\z.\h'.2m+*(#F'.\h''\\n:u'\v'*(#V'
.ds 8 \h''*(#H\(*b'h'-*(#H'
.ds o \|k:h'-(\\n(.wu+w'\(de'u-*(#H)/2u'\v'-.3n''*(#[\z\(\de\v'.3n'h''\\n:u''*(#)
.ds d- \h''*(#H\(\pd\h'-\w'~'u'\v'-.25m'\f2\(\hy\fp\v'.25m'\h'-*(#H'
.ds D- D\|k:h'-\w'D'u'\v'-.11m'\z\(\hy\v'.11m'\h''\\n:u'
.ds th \*(#[\v'.3m'\s+1I\s-1\v'-.3m'\h'-(\w'T'u*2/3)\s-1o\s+1\*(#)
.ds Th \*(#[\s+2I\s-2\h'-\w'T'u*3/5'\v'-.3m'o\v'.3m'\*(#)

```

```

.ds ae a\h'-(\w'a'u*4/10)e
.ds Ae A\h'-(\w'A'u*4/10)E
. \ " corrections for vproff
.if v .ds ~ \k:h'-(\n(.wu*9/10-\*(#H)\s-2\u~\d\s+2\h'\n:n'u'
.if v .ds ^ \k:h'-(\n(.wu*10/11-\*(#H)\v'-.4m'^\v'.4m'h'\n:n'u'
. \ " for low resolution devices (crt and lpr)
.if \n(.H>23 .if \n(.V>19 \
\{
. ds : e
. ds 8 ss
. ds o a
. ds d- d\h'-1\(\ga
. ds D- D\h'-1\(\hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae
. ds Ae AE
.\}
.rm #[ #] #H #V #F C
.\ " =====
.\ "
.IX Title "GPL 7"
.TH GPL 7 "2015-07-16" "gcc-5.2.0" "GNU"
.\ " For nroff, turn off justification. Always turn off hyphenation; it makes
.\ " way too many mistakes in technical documents.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"
.SS "Version 3, 29 June 2007"
.IX Subsection "Version 3, 29 June 2007"
.Vb 1
\& Copyright (c) 2007 Free Software Foundation, Inc. <http://fsf.org/>
\&
\& Everyone is permitted to copy and distribute verbatim copies of this
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.Ve
.SS "Preamble"
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.IX Subsection "TERMS AND CONDITIONS"

.IP "0. Definitions." 4

.IX Item "0. Definitions."

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.IP "1. Source Code." 4

.IX Item "1. Source Code."

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.RS 4

.IP "a." 4

.IX Item "a."

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.IP "b." 4

.IX Item "b."

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to `*(L"keep intact all notices*(R"`.

.IP "c." 4

.IX Item "c."

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.IP "d." 4

.IX Item "d."

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

.RE

.RS 4

.Sp

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an `\&*(L"aggregate*(R"` if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

.RE

.IP "6. Conveying Non-Source Forms." 4

.IX Item "6. Conveying Non-Source Forms."

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

.RS 4

.IP "a." 4

.IX Item "a."

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

.IP "b." 4

.IX Item "b."

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

.IP "c." 4

.IX Item "c."

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

.IP "d." 4

.IX Item "d."

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

.IP "e." 4

.IX Item "e."

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

.RE

.RS 4

.Sp

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

.Sp

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.Sp

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.Sp

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.Sp

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.Sp

Corresponding Source conveyed, and Installation Information provided,

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.RE

.IP "7. Additional Terms." 4

.IX Item "7. Additional Terms."

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.RS 4

.IP "a." 4

.IX Item "a."

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.IX Item "b."

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.IX Item "c."

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.IX Item "e."

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.IX Item "f."

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.RE

.RS 4

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.RE

.IP "8. Termination." 4

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.SS "\s-1END OF TERMS AND CONDITIONS\s0"

.IX Subsection "END OF TERMS AND CONDITIONS"

.SS "How to Apply These Terms to Your New Programs"

.IX Subsection "How to Apply These Terms to Your New Programs"

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.PP

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.PP

.Vb 2

```
\& <one line to give the program\*(Aqs name and a brief idea of what it does.>
```

```
\& Copyright (C) <year> <name of author>
```

```
\&
```

```
\& This program is free software: you can redistribute it and/or modify  
\& it under the terms of the GNU General Public License as published by  
\& the Free Software Foundation, either version 3 of the License, or (at  
\& your option) any later version.
```

```
\&
```

```
\& This program is distributed in the hope that it will be useful, but  
\& WITHOUT ANY WARRANTY; without even the implied warranty of  
\& MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU  
\& General Public License for more details.
```

```
\&
```

```
\& You should have received a copy of the GNU General Public License  
\& along with this program. If not, see <http://www.gnu.org/licenses/>.
```

.Ve

.PP

Also add information on how to contact you by electronic and paper mail.

.PP

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

.PP

.Vb 4

```
\& <program> Copyright (C) <year> <name of author>
```

```
\& This program comes with ABSOLUTELY NO WARRANTY; for details type "show w".
```

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

```
.Ve
```

.PP

The hypothetical commands `\fBshow w\fR` and `\fBshow c\fR` should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a `\s-1GUI\s0` interface, you would use an `*(L"about box*(R"`.

.PP

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.SH "SEE ALSO"

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1.23 glib-2.0 2.44.1

1.23.1 Available under license :

```
/* GMODULE - GLIB wrapper code for dynamic module loading
 * Copyright (C) 1998 Tim Janik
 *
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 * version 2 of the License, or (at your option) any later version.
 *
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 * Lesser General Public License for more details.
 *
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 * License along with this library; if not, see <http://www.gnu.org/licenses/>.
 */

/*
 * Modified by the GLib Team and others 1997-2000. See the AUTHORS
 * file for a list of people on the GLib Team. See the ChangeLog
 * files for a list of changes. These files are distributed with
 * GLib at ftp://ftp.gtk.org/pub/gtk/.
 */

#ifdef __GMODULE_H__
#define __GMODULE_H__
```

```

#include <glib.h>

G_BEGIN_DECLS

/* exporting and importing functions, this is special cased
 * to feature Windows dll stubs.
 */
#define G_MODULE_IMPORT extern
#ifdef G_PLATFORM_WIN32
# define G_MODULE_EXPORT __declspec(dllexport)
#else /* !G_PLATFORM_WIN32 */
# define G_MODULE_EXPORT
#endif /* !G_PLATFORM_WIN32 */

typedef enum
{
    G_MODULE_BIND_LAZY = 1 << 0,
    G_MODULE_BIND_LOCAL = 1 << 1,
    G_MODULE_BIND_MASK = 0x03
} GModuleFlags;

typedef struct _GModule  GModule;
typedef const gchar* (*GModuleCheckInit) (GModule *module);
typedef void (*GModuleUnload) (GModule *module);

/* return TRUE if dynamic module loading is supported */
GLIB_AVAILABLE_IN_ALL
gboolean g_module_supported (void) G_GNUC_CONST;

/* open a module 'file_name' and return handle, which is NULL on error */
GLIB_AVAILABLE_IN_ALL
GModule* g_module_open (const gchar *file_name,
                        GModuleFlags flags);

/* close a previously opened module, returns TRUE on success */
GLIB_AVAILABLE_IN_ALL
gboolean g_module_close (GModule *module);

/* make a module resident so g_module_close on it will be ignored */
GLIB_AVAILABLE_IN_ALL
void g_module_make_resident (GModule *module);

/* query the last module error as a string */
GLIB_AVAILABLE_IN_ALL
const gchar * g_module_error (void);

/* retrieve a symbol pointer from 'module', returns TRUE on success */

```



```

GLIB_AVAILABLE_IN_ALL
gboolean      g_module_symbol (GModule *module,
                              const gchar *symbol_name,
                              gpointer *symbol);

/* retrieve the file name from an existing module */
GLIB_AVAILABLE_IN_ALL
const gchar *  g_module_name (GModule *module);

/* Build the actual file name containing a module. 'directory' is the
 * directory where the module file is supposed to be, or NULL or empty
 * in which case it should either be in the current directory or, on
 * some operating systems, in some standard place, for instance on the
 * PATH. Hence, to be absolutely sure to get the correct module,
 * always pass in a directory. The file name consists of the directory,
 * if supplied, and 'module_name' suitably decorated according to
 * the operating system's conventions (for instance lib*.so or *.dll).
 *
 * No checks are made that the file exists, or is of correct type.
 */
GLIB_AVAILABLE_IN_ALL
gchar*        g_module_build_path (const gchar *directory,
                                   const gchar *module_name);

#ifdef __GTK_DOC_IGNORE__
#ifdef G_OS_WIN32
#define g_module_open g_module_open_utf8
#define g_module_name g_module_name_utf8

GLIB_AVAILABLE_IN_ALL
GModule *  g_module_open_utf8 (const gchar *file_name,
                              GModuleFlags flags);
GLIB_AVAILABLE_IN_ALL
const gchar *g_module_name_utf8 (GModule *module);
#endif
#endif

G_END_DECLS

#endif /* __GMODULE_H__ */
/*****
 * 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
```

```
/* 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(dllexport)
# endif
# ifdef __cplusplus
#   ifndef PCRECPP_EXP_DECL
#     define PCRECPP_EXP_DECL extern __declspec(dllexport)
#   endif
#   ifndef PCRECPP_EXP_DEFN
#     define PCRECPP_EXP_DEFN __declspec(dllexport)
#   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

#ifdef __cplusplus
# ifndef PCRECPP_EXP_DECL
#   define PCRECPP_EXP_DECL extern
# endif
# ifndef PCRECPP_EXP_DEFN
#   define PCRECPP_EXP_DEFN
# 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_RECURSIONLIMIT (-21)
#define PCRE_ERROR_NULLWSLIMIT  (-22) /* No longer actually used */
#define PCRE_ERROR_BADNEWLINE   (-23)
#define PCRE_ERROR_BADOFFSET    (-24)
#define PCRE_ERROR_SHORTUTF8    (-25)
#define PCRE_ERROR_SHORTUTF16   (-25) /* Same for 8/16 */
#define PCRE_ERROR_RECURSELOOP (-26)
#define PCRE_ERROR_JIT_STACKLIMIT (-27)
#define PCRE_ERROR_BADMODE      (-28)
#define PCRE_ERROR_BADENDIANNESS (-29)
#define PCRE_ERROR_DFA_BADRESTART (-30)

```

/* Specific error codes for UTF-8 validity checks */

```

#define PCRE_UTF8_ERR0      0
#define PCRE_UTF8_ERR1     1
#define PCRE_UTF8_ERR2     2
#define PCRE_UTF8_ERR3     3
#define PCRE_UTF8_ERR4     4
#define PCRE_UTF8_ERR5     5
#define PCRE_UTF8_ERR6     6
#define PCRE_UTF8_ERR7     7
#define PCRE_UTF8_ERR8     8
#define PCRE_UTF8_ERR9     9
#define PCRE_UTF8_ERR10    10
#define PCRE_UTF8_ERR11    11
#define PCRE_UTF8_ERR12    12
#define PCRE_UTF8_ERR13    13

```

```

#define PCRE_UTF8_ERR14      14
#define PCRE_UTF8_ERR15      15
#define PCRE_UTF8_ERR16      16
#define PCRE_UTF8_ERR17      17
#define PCRE_UTF8_ERR18      18
#define PCRE_UTF8_ERR19      19
#define PCRE_UTF8_ERR20      20
#define PCRE_UTF8_ERR21      21

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

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

/* Request types for pcre_fullinfo() */

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

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

#define PCRE_CONFIG_UTF8        0
#define PCRE_CONFIG_NEWLINE     1
#define PCRE_CONFIG_LINK_SIZE  2
#define PCRE_CONFIG_POSIX_MALLOC_THRESHOLD 3
#define PCRE_CONFIG_MATCH_LIMIT 4

```

```

#define PCRE_CONFIG_STACKRECURSE      5
#define PCRE_CONFIG_UNICODE_PROPERTIES 6
#define PCRE_CONFIG_MATCH_LIMIT_RECURSION 7
#define PCRE_CONFIG_BSR                8
#define PCRE_CONFIG_JIT                9
#define PCRE_CONFIG_UTF16              10
#define PCRE_CONFIG_JITTARGET          11

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

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

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

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

/* Types */

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

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

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

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

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

#ifndef PCRE_SPTR16

```

```

#define PCRE_SPTR16 const PCRE_UCHAR16 *
#endif

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

#ifndef PCRE_SPTR
#define PCRE_SPTR const char *
#endif

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

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

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

typedef struct pcre16_extra {
  unsigned long int flags;      /* Bits for which fields are set */
  void *study_data;           /* Opaque data from pcre_study() */
  unsigned long int match_limit; /* Maximum number of calls to match() */
  void *callout_data;         /* Data passed back in callouts */
  const unsigned char *tables; /* Pointer to character tables */
  unsigned long int match_limit_recursion; /* Max recursive calls to match() */
  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 */
/* ----- */
} pcre16_callout_block;

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

#ifdef 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 *);

PCRE_EXP_DECL void *pcre16_malloc(size_t);
PCRE_EXP_DECL void pcre16_free(void *);
PCRE_EXP_DECL void *pcre16_stack_malloc(size_t);
PCRE_EXP_DECL void pcre16_stack_free(void *);
PCRE_EXP_DECL int pcre16_callout(pcre16_callout_block *);
#endif /* VPCOMPAT */

/* User defined callback which provides a stack just before the match starts. */

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

/* Exported PCRE functions */

PCRE_EXP_DECL pcre *pcre_compile(const char *, int, const char **, int *,
    const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile(PCRE_SPTR16, int, const char **, int *,
    const unsigned char *);
PCRE_EXP_DECL pcre *pcre_compile2(const char *, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL pcre16 *pcre16_compile2(PCRE_SPTR16, int, int *, const char **,
    int *, const unsigned char *);
PCRE_EXP_DECL int pcre_config(int, void *);
PCRE_EXP_DECL int pcre16_config(int, void *);
PCRE_EXP_DECL int pcre_copy_named_substring(const pcre *, const char *,
    int *, int, const char *, char *, int);
PCRE_EXP_DECL int pcre16_copy_named_substring(const pcre16 *, PCRE_SPTR16,
    int *, int, PCRE_SPTR16, PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_copy_substring(const char *, int *, int, int,
    char *, int);
PCRE_EXP_DECL int pcre16_copy_substring(PCRE_SPTR16, int *, int, int,
    PCRE_UCHAR16 *, int);
PCRE_EXP_DECL int pcre_dfa_exec(const pcre *, const pcre_extra *,

```

```

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

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

```

```

        const unsigned char *);
PCRE_EXP_DECL int pcre16_utf16_to_host_byte_order(PCRE_UCHAR16 *,
        PCRE_SPTR16, int, int *, int);

/* JIT compiler related functions. */

PCRE_EXP_DECL pcre_jit_stack *pcre_jit_stack_alloc(int, int);
PCRE_EXP_DECL pcre16_jit_stack *pcre16_jit_stack_alloc(int, int);
PCRE_EXP_DECL void pcre_jit_stack_free(pcre_jit_stack *);
PCRE_EXP_DECL void pcre16_jit_stack_free(pcre16_jit_stack *);
PCRE_EXP_DECL void pcre_assign_jit_stack(pcre_extra *,
        pcre_jit_callback, void *);
PCRE_EXP_DECL void pcre16_assign_jit_stack(pcre16_extra *,
        pcre16_jit_callback, void *);

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

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

```

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

End

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

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1.24 gmp 6.0.0

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```

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Version 3, 29 June 2007

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1.25 gnutls 3.3.17.1

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=====
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1.27 gnutls_LGPLv3 3.3.17.1

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1.28 hostap-utils 0.4.7

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1.29 imx-alsa-plugins 1.0.26

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1.30 init-ifupdown 1.0

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1.36 libdaemon 0.14

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```

```
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1.37 libffi 3.2.1 :Nov 12 2014

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1.40 libpam 1.2.1 :r5

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1.41 libstdc++ 5.3.0 :r0

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

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

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

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Also add information on how to contact you by electronic and paper mail.

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

```
Gnomovision version 69, Copyright (C) 19yy 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 c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program  
'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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Version 2.1, February 1999

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

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

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

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research projects supported in part by the National Science Foundation and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for the Russell programming language implementation. The first version of the garbage collector was written primarily by Al Demers. It was then refined and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U., the University of Washington, Rice University (where it was first used for C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in README.changes. My apologies for any omissions.

The SPARC specific code was originally contributed by Mark Weiser. The Encore Multimax modifications were supplied by Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely due to Vernon Lee, on machines made available to Rice by IBM. Much of the HP specific code and a number of good suggestions for improving the generic code are due to Walter Underwood. Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code. Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk) subsequently provided updates and information on variation between ULTRIX systems. Parag Patel (parag@netcom.com) supplied the A/UX code. Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port. Thomas Funke (thf@zelator.in-berlin.de(?)) and Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports. Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code. Bill Janssen (janssen@parc.xerox.com) supplied the SunOS dynamic loader specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes. Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports. Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port. Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to a Motorola 88K processor running CX/UX (Harris NightHawk). Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to nonIBM development environments (a nontrivial task). Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port. David Chase, then at Olivetti Research, suggested several improvements. Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the code to save and print call stacks for leak detection on a SPARC. Jesse Hull and John Ellis supplied the C++ interface code.

Zhong Shao performed much of the experimentation that led to the current typed allocation facility. (His dynamic type inference code hasn't made it into the released version of the collector, yet.)

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@ignore

@c Set file name and title for man page.

@setfilename gpl

@settitle GNU General Public License

@c man begin SEEALSO

gfdl(7), fsf-funding(7).

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@ignore
@c Set file name and title for man page.
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<h1 align="center">Installing GCC: GNU Free Documentation License</h1>
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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

@c man end

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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@end smallexample
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```

```
@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample
```

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1.42 libtirpc 1.0.1

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1.44 libX11 1.6.0 :2.1.el7

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1.48 linux-firmware 1.0

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The following XC4000 firmware file "dvb-fe-xc4000-1.4.1.fw" was created based on version 1.4 of "xc4000_firmwares.h".

Firmware provided as part of an XC4000 Linux developers kit by Brian Mathews <bmathews@xceive.com> to Devin Heitmueller <dheitmueller@kernellabs.org> on July 1, 2009.

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The following XC500C firmware file "dvb-fe-xc5000C-4.1.30.7.fw" was created
based on "Xc5200_firmwares_32000Khz.h".

Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares
<Ramon.Cazares@CrestaTech.com> to Devin Heitmueller dheitmueller@linuxtv.org
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The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all

other sections are completely obsolete.

WIS GO7007SB Public Linux Driver

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from "/lib/modules/<KERNEL VERSION>/build" for convenience. If this link does not exist, an extra parameter will need to be passed to the

`make` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

CONFIG_HOTPLUG	- Support for hot-pluggable devices
CONFIG_MODULES	- Enable loadable module support
CONFIG_KMOD	- Automatic kernel module loading
CONFIG_FW_LOADER	- Hotplug firmware loading support
CONFIG_I2C	- I2C support
CONFIG_VIDEO_DEV	- Video For Linux
CONFIG_SOUND	- Sound card support
CONFIG_SND	- Advanced Linux Sound Architecture
CONFIG_USB	- Support for Host-side USB
CONFIG_USB_DEVICEFS	- USB device filesystem
CONFIG_USB_EHCI_HCD	- EHCI HCD (USB 2.0) support

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

CONFIG_SND_MIXER_OSS	- OSS Mixer API
CONFIG_SND_PCM_OSS	- OSS PCM (digital audio) API

The hotplug scripts, along with the fxload utility, must also be installed. These scripts can be obtained from <<http://linux-hotplug.sourceforge.net/>>. Hotplugging is used for loading firmware into the Cypress EZ-USB chip using fxload and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be

installed by running:

```
$ make install
```

The kernel modules will be placed in `"/lib/modules/<KERNEL VERSION>/extra"` and the firmware files will be placed in the appropriate hotplug firmware directory, usually `/lib/firmware`. In addition, USB maps and scripts will be placed in `/etc/hotplug/usb` to enable `fxload` to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the appropriate TV band. To work around this issue, the correct TV band may be specified in the `"force_band"` parameter to the `wis-sony-tuner` module:

TV band	force_band
-----	-----
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

If the `"force_band"` parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the `"force_mpx_mode"` parameter must be specified to the `wis-sony-tuner` module.

TV band	Audio subcarrier	force_mpx_mode
-----	-----	-----
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR.

This will be captured to a file for testing the driver. If an input source

is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in `/var/log/messages`) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the `-help` flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

- * Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.
- * No raw video modes are supported, so applications like `xawtv` that expect only uncompressed video will not function.
- * Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.
- * MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.
- * Video parameters such as format and input port may not be changed while the encoder is active.
- * The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.
- * The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The `include/` directory contains a C header file describing non-standard

features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

__u32 The maximum number of frames in each
gop_size Group Of Pictures; i.e. the maximum
 number of frames minus one between
 each key frame.

__u32 The maximum number of sequential
max_b_frames bidirectionally-predicted frames.
 (B-frames are not yet supported.)

enum go7007_aspect_ratio The aspect ratio to be encoded in the
aspect_ratio meta-data of the compressed format.

Choices are:

GO7007_ASPECT_RATIO_1_1
GO7007_ASPECT_RATIO_4_3_NTSC
GO7007_ASPECT_RATIO_4_3_PAL
GO7007_ASPECT_RATIO_16_9_NTSC
GO7007_ASPECT_RATIO_16_9_PAL

__u32 Bit-wise OR of control flags (below)
flags

Flags in struct go7007_comp_params:

GO7007_COMP_CLOSED_GOP Only produce self-contained GOPs, used
 to produce streams appropriate for

random seeking.

GO7007_COMP_OMIT_SEQ_HEADER Omit the stream sequence header.

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl with a pointer to a struct go7007_mpeg_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or selected MPEG mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

```
enum go7007_mpeg_video_standard
    mpeg_video_standard    The MPEG video standard in which to
                           compress the video.
```

Choices are:

```
GO7007_MPEG_VIDEO_MPEG1
GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4
```

```
__u32    Bit-wise OR of control flags (below)
flags
```

```
__u32    The profile and level indication to be
pali     stored in the sequence header. This
         is only used as an indicator to the
         decoder, and does not affect the MPEG
         features used in the video stream.
         Not valid for MPEG1.
```

Choices for MPEG2 are:

```
GO7007_MPEG2_PROFILE_MAIN_MAIN
```

Choices for MPEG4 are:

GO7007_MPEG4_PROFILE_S_L0
GO7007_MPEG4_PROFILE_S_L1
GO7007_MPEG4_PROFILE_S_L2
GO7007_MPEG4_PROFILE_S_L3
GO7007_MPEG4_PROFILE_ARTS_L1
GO7007_MPEG4_PROFILE_ARTS_L2
GO7007_MPEG4_PROFILE_ARTS_L3
GO7007_MPEG4_PROFILE_ARTS_L4
GO7007_MPEG4_PROFILE_AS_L0
GO7007_MPEG4_PROFILE_AS_L1
GO7007_MPEG4_PROFILE_AS_L2
GO7007_MPEG4_PROFILE_AS_L3
GO7007_MPEG4_PROFILE_AS_L4
GO7007_MPEG4_PROFILE_AS_L5

Flags in struct `go7007_mpeg_params`:

`GO7007_MPEG_FORCE_DVD_MODE` Force all compression parameters and
bitrate control settings to comply
with DVD MPEG2 stream requirements.
This overrides most compression and
bitrate settings!

`GO7007_MPEG_OMIT_GOP_HEADER` Omit the GOP header.

`GO7007_MPEG_REPEAT_SEQHEADER` Repeat the MPEG sequence header at
the start of each GOP.

`GO7007IOC_S_BITRATE`, `GO7007IOC_G_BITRATE`

These ioctls are used to set and query the target bitrate value for the
compressed video stream. The bitrate may be selected by storing the
target bits per second in an int and calling `GO7007IOC_S_BITRATE` with a
pointer to the int. The bitrate may be queried by calling
`GO7007IOC_G_BITRATE` with a pointer to an int where the current bitrate
will be stored.

Note that this is the primary means of controlling the video quality
for all compression modes, including `V4L2_PIX_FMT_MJPEG`. The
`VIDIOC_S_JPEGCOMP` ioctl is not supported.

Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x

kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

```
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner
http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2
http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg
http://dl.bytesex.org/patches/2.6.11-2/saa7134-update
```

The following patches are included with this SDK and can be applied in any order:

```
patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff
```

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y
$ make install
$ modprobe saa7134-go7007
```

There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

```
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
```

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".
- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.
- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.
- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.
- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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=====

1.

```
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* SUCH DAMAGE.
*
* $Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg $
*/
File: LLM_sp_sha2.c
```

```
/*
* FILE: sha2.h
* AUTHOR: Aaron D. Gifford <me@aarongifford.com>
*
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* SUCH DAMAGE.
*
* $Id: sha2.h,v 1.1 2001/11/08 00:02:01 adg Exp adg $
*/
File: LLM_sp_sha2.h

```

```

=====

```

```

2.

```

```

/* utility to create the register check tables
* this includes inlined list.h safe for userspace.
*
* Copyright 2009 Jerome Glisse
* Copyright 2009 Red Hat Inc.
*
* Authors:
*   Jerome Glisse
*   Dave Airlie
*/
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*/

File: comm_lib.h

3.

/* crypto/aes/aes.h -*- mode:C; c-file-style: "eay" -*- */

/* =====

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```

```

* =====

```

```

*
*/

```

```

File Name list: aes.h, aes_locl.h

```

```

=====

```

```

4.

```

```

/* crypto/aes/aes_core.c -*- mode:C; c-file-style: "eay" -*- */

```

```

/**

```

```

* rijndael-alg-fst.c

```

```

*

```

```

* @version 3.0 (December 2000)

```

```

*

```

```

* Optimised ANSI C code for the Rijndael cipher (now AES)

```

```

*

```

```

* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

```

```

* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

```

```

* @author Paulo Barreto <paulo.barreto@terra.com.br>

```

```

*

```

```

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```

```

*

```

```

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*/

File: aes_core.c

=====

5.

/*=====

EDIT HISTORY FOR FILE

\$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes.h#1 \$

\$DateTime: 2006/12/11 00:43:21 \$ \$Author: davidf \$

when who what, where, why

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

11/12/04 rv changes to correct LINT errors

02/02/04 rwh Small mods to open source.

=====*/

/*

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

This is an implementation of the AES encryption algorithm (Rijndael) designed by Joan Daemen and Vincent Rijmen. This version is designed to provide both fixed and dynamic block and key lengths and can also run with either big or little endian internal byte order.

NOTE: Input block and key lengths are given in terms of the lengths of the byte arrays involved, the legal values being 16, 24 and 32.

A. THE CIPHER INTERFACE

byte (an unsigned 8-bit type)

word (an unsigned 32-bit type)

aes_ret: (a signed 16 bit type for function return values)


```

    aes_good      (value != 0, a good return)
    aes_bad      (value == 0, an error return)
enum aes_key:    (encryption direction)
    enc         (set key for encryption)
    dec         (set key for decryption)
    both        (set key for both)
class or struct aes (structure for context)

```

C subroutine calls:

```

aes_ret set_blk(const word block_length, aes *cx) (variable block size)
aes_ret set_key(const byte key[], const word key_length,
               const enum aes_key direction, aes *cx)
aes_ret encrypt(const byte input_blk[], byte output_blk[], const aes *cx)
aes_ret decrypt(const byte input_blk[], byte output_blk[], const aes *cx)

```

IMPORTANT NOTE: If you are using this C interface and your compiler does not set the memory used for objects to zero before use, you will need to ensure that `cx.mode` is set to zero before using the C subroutine calls.

C++ aes class subroutines:

```

aes_ret set_blk(const word block_length) (variable block size)
aes_ret set_key(const byte key[], const word key_length,
               const aes_key direction)
aes_ret encrypt(const byte input_blk[], byte output_blk[]) const
aes_ret decrypt(const byte input_blk[], byte output_blk[]) const

```

The block length inputs to `set_block` and `set_key` are in numbers of BYTES, not bits. The calls to subroutines must be made in the above order but multiple calls can be made without repeating earlier calls if their parameters have not changed. If the cipher block length is variable but `set_blk` has not been called before cipher operations a value of 16 is assumed (that is, the AES block size). In contrast to earlier versions the block and key length parameters are now checked for correctness and the encryption and decryption routines check to ensure that an appropriate key has been set before they are called.

B. BYTE ORDER WITHIN 32 BIT WORDS

The fundamental data processing units in Rijndael are 8-bit bytes. The input, the output and the key input are all enumerated arrays of bytes in which bytes are numbered starting at zero and increasing to one less than the number of bytes in the array in question. When these inputs and outputs are considered as bit sequences, the n 'th byte contains bits $8n$ to $8n+7$ of the sequence with the lower numbered bit mapped to the most significant bit within the byte (i.e. that having a numeric value of 128). However, Rijndael can be implemented more efficiently

using 32-bit words to process 4 bytes at a time provided that the order of bytes within words is known. This order is called big-endian if the lowest numbered bytes in words have the highest numeric significance and little-endian if the opposite applies. This code can work in either order irrespective of the native order of the machine on which it runs. The byte order used internally is set by defining `INTERNAL_BYTE_ORDER` whereas the order for all inputs and outputs is specified by defining `EXTERNAL_BYTE_ORDER`, the only purpose of the latter being to determine if a byte order change is needed immediately after input and immediately before output to account for the use of a different internal byte order. In almost all situations both of these defines will be set to the native order of the processor on which the code is to run but other settings may sometimes be useful in special circumstances.

```
#define INTERNAL_BYTE_ORDER LITTLE_ENDIAN
#define EXTERNAL_BYTE_ORDER LITTLE_ENDIAN
```

C. COMPILATION

To compile AES (Rijndael) for use in C code

- a. Exclude the `AES_DLL` define in `aes.h`
- b. Exclude the `AES_IN_CPP` define in `aes.h`

To compile AES (Rijndael) for use in in C++ code

- a. Exclude the `AES_DLL` define in `aes.h`
- b. Include the `AES_IN_CPP` define in `aes.h`

To compile AES (Rijndael) in C as a Dynamic Link Library

- a. Include the `AES_DLL` define in `aes.h`
- b. Compile the DLL. If using the test files, exclude `aes.c` from the test build project and compile it with the same defines as used for the DLL (ensure that the DLL path is correct)

D. CONFIGURATION OPTIONS (see also `aes.c`)

1. define `BLOCK_SIZE` to set the cipher block size (16, 24 or 32) or leave this undefined for dynamically variable block size (this will result in much slower code).
2. set `AES_IN_CPP` to use the code from C++ rather than C
3. set `AES_DLL` if AES (Rijndael) is to be compiled to a DLL
4. set `INTERNAL_BYTE_ORDER` to one of the above constants to set the internal byte order (the order used within the algorithm code)
5. set `EXTERNAL_BYTE_ORDER` to one of the above constants to set the byte order used at the external interfaces for the input, output and key byte arrays.

IMPORTANT NOTE: `BLOCK_SIZE` is in BYTES: 16, 24, 32 or undefined for `aes.c` and 16, 20, 24, 28, 32 or undefined for `aes++.c`. If left undefined a

slower version providing variable block length is compiled

```
#define BLOCK_SIZE 16
```

Define AES_IN_CPP if you intend to use the AES C++ class rather than the C code directly.

```
#define AES_IN_CPP
```

Define AES_DLL if you wish to compile the code to produce a Windows DLL

```
#define AES_DLL
```

```
*/
```

```
File: aes.h
```

```
/*=====
```

EDIT HISTORY FOR FILE

```
$Header: //depot/asic/msmshared/sec/sec/MSM_SEC.03.03.08.xx/aes_tab.h#1 $
```

```
$DateTime: 2006/12/11 00:43:21 $ $Author: davidf $
```

when who what, where, why

```
----- -- -----
```

11/12/04 rv changes to correct LINT errors

02/02/04 rwh Small mods to open source.

```
=====*/
```

```
/*lint -e146 -e303 */
```

```
/* 146: Assuming a binary constant */
```

```
/* 303: String too long (try +macros) */
```

```
/*
```

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Dr B. R. Gladman <brg@gladman.uk.net> 1st June 2001.

```
*/
```

```
File: aes_tab.h
```

```
=====
```

```
6.
```

```
#FILE:Conftest.py
# Copyright (c) 2003 Stichting NLnet Labs
# Copyright (c) 2001, 2002, 2003 Steven Knight
#
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#
#
# The purpose of this module is to define how a check is to be performed.
# Use one of the Check...() functions below.
#
#
# A context class is used that defines functions for carrying out the tests,
# logging and messages. The following methods and members must be present:
#
# context.Display(msg) Function called to print messages that are normally
#         displayed for the user. Newlines are explicitly used.
#         The text should also be written to the logfile!
#
# context.Log(msg)   Function called to write to a log file.
#
# context.BuildProg(text, ext)
#         Function called to build a program, using "ext" for the
#         file extension. Must return an empty string for
#         success, an error message for failure.
#         For reliable test results building should be done just
#         like an actual program would be build, using the same
#         command and arguments (including configure results so
#         far).
```

```

#
# context.CompileProg(text, ext)
#     Function called to compile a program, using "ext" for
#     the file extension. Must return an empty string for
#     success, an error message for failure.
#     For reliable test results compiling should be done just
#     like an actual source file would be compiled, using the
#     same command and arguments (including configure results
#     so far).
#
# context.AppendLIBS(lib_name_list)
#     Append "lib_name_list" to the value of LIBS.
#     "lib_namelist" is a list of strings.
#     Return the value of LIBS before changing it (any type
#     can be used, it is passed to SetLIBS() later.)
#
# context.PrependLIBS(lib_name_list)
#     Prepend "lib_name_list" to the value of LIBS.
#     "lib_namelist" is a list of strings.
#     Return the value of LIBS before changing it (any type
#     can be used, it is passed to SetLIBS() later.)
#
# context.SetLIBS(value)
#     Set LIBS to "value". The type of "value" is what
#     AppendLIBS() returned.
#     Return the value of LIBS before changing it (any type
#     can be used, it is passed to SetLIBS() later.)
#
# context.headerfilename
#     Name of file to append configure results to, usually
#     "confdefs.h".
#     The file must not exist or be empty when starting.
#     Empty or None to skip this (some tests will not work!).
#
# context.config_h    (may be missing). If present, must be a string, which
#     will be filled with the contents of a config_h file.
#
# context vardict    Dictionary holding variables used for the tests and
#     stores results from the tests, used for the build
#     commands.
#     Normally contains "CC", "LIBS", "CPPFLAGS", etc.
#
# context.havedict    Dictionary holding results from the tests that are to
#     be used inside a program.
#     Names often start with "HAVE_". These are zero
#     (feature not present) or one (feature present). Other
#     variables may have any value, e.g., "PERLVERSION" can
#

```

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```
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```

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```
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```

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The README file from the original package from Micronas appears below. Only the part about the firmware redistribution in section 0 is relevant, all other sections are completely obsolete.

WIS GO7007SB Public Linux Driver

*** Please see the file RELEASE-NOTES for important last-minute updates ***

0. OVERVIEW AND LICENSING/DISCLAIMER

This driver kit contains Linux drivers for the WIS GO7007SB multi-format video encoder. Only kernel version 2.6.x is supported. The video stream is available through the Video4Linux2 API and the audio stream is available through the ALSA API (or the OSS emulation layer of the ALSA system).

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1. SYSTEM REQUIREMENTS

This driver requires Linux kernel 2.6. Kernel 2.4 is not supported. Using kernel 2.6.10 or later is recommended, as earlier kernels are known to have unstable USB 2.0 support.

A fully built kernel source tree must be available. Typically this will be linked from `"/lib/modules/<KERNEL VERSION>/build"` for convenience. If this link does not exist, an extra parameter will need to be passed to the ``make`` command.

All vendor-built kernels should already be configured properly. However, for custom-built kernels, the following options need to be enabled in the kernel as built-in or modules:

CONFIG_HOTPLUG	- Support for hot-pluggable devices
CONFIG_MODULES	- Enable loadable module support
CONFIG_KMOD	- Automatic kernel module loading
CONFIG_FW_LOADER	- Hotplug firmware loading support
CONFIG_I2C	- I2C support
CONFIG_VIDEO_DEV	- Video For Linux
CONFIG_SOUND	- Sound card support
CONFIG_SND	- Advanced Linux Sound Architecture
CONFIG_USB	- Support for Host-side USB
CONFIG_USB_DEVICEFS	- USB device filesystem
CONFIG_USB_EHCI_HCD	- EHCI HCD (USB 2.0) support

Additionally, to use the example application, the following options need to be enabled in the ALSA section:

CONFIG_SND_MIXER_OSS	- OSS Mixer API
CONFIG_SND_PCM_OSS	- OSS PCM (digital audio) API

The hotplug scripts, along with the `fxload` utility, must also be installed. These scripts can be obtained from <http://linux-hotplug.sourceforge.net/>. Hotplugging is used for loading firmware into the Cypress EZ-USB chip using `fxload` and for loading firmware into the driver using the firmware agent.

2. COMPILING AND INSTALLING THE DRIVER

Most users should be able to compile the driver by simply running:

```
$ make
```

in the top-level directory of the driver kit. First the kernel modules will be built, followed by the example applications.

If the build system is unable to locate the kernel source tree for the currently-running kernel, or if the module should be built for a kernel other than the currently-running kernel, an additional parameter will need to be passed to make to specify the appropriate kernel source directory:

```
$ make KERNELSRC=/usr/src/linux-2.6.10-custom3
```

Once the compile completes, the driver and firmware files should be installed by running:

```
$ make install
```

The kernel modules will be placed in `"/lib/modules/<KERNEL VERSION>/extra"` and the firmware files will be placed in the appropriate hotplug firmware directory, usually `/lib/firmware`. In addition, USB maps and scripts will be placed in `/etc/hotplug/usb` to enable `fxload` to initialize the EZ-USB control chip when the device is connected.

3. PAL/SECAM TUNER CONFIGURATION (TV402U-EU only)

The PAL model of the Plextor ConvertX TV402U may require additional configuration to correctly select the appropriate TV frequency band and audio subchannel.

Users with a device other than the Plextor ConvertX TV402U-EU should skip this section.

The wide variety of PAL TV systems used in Europe requires that additional information about the local TV standards be passed to the driver in order to properly tune TV channels. The two necessary parameters are (a) the PAL TV band, and (b) the audio subchannel format in use.

In many cases, the appropriate TV band selection is passed to the driver from applications. However, in some cases, the application only specifies that the driver should use PAL but not the specific information about the

appropriate TV band. To work around this issue, the correct TV band may be specified in the "force_band" parameter to the wis-sony-tuner module:

TV band	force_band
-----	-----
PAL B/G	B
PAL I	I
PAL D/K	D
SECAM L	L

If the "force_band" parameter is specified, the driver will ignore any TV band specified by applications and will always use the band provided in the module parameter.

The other parameter that can be specified is the audio subchannel format. There are several stereo audio carrier systems in use, including NICAM and three varieties of A2. To receive audio broadcast on one of these stereo carriers, the "force_mpx_mode" parameter must be specified to the wis-sony-tuner module.

TV band	Audio subcarrier	force_mpx_mode
-----	-----	-----
PAL B/G	Mono (default)	1
PAL B/G	A2	2
PAL B/G	NICAM	3
PAL I	Mono (default)	4
PAL I	NICAM	5
PAL D/K	Mono (default)	6
PAL D/K	A2 (1)	7
PAL D/K	A2 (2)	8
PAL D/K	A2 (3)	9
PAL D/K	NICAM	10
SECAM L	Mono (default)	11
SECAM L	NICAM	12

If the "force_mpx_mode" parameter is not specified, the correct mono-only mode will be chosen based on the TV band. However, the tuner will not receive stereo audio or bilingual broadcasts correctly.

To pass the "force_band" or "force_mpx_mode" parameters to the wis-sony-tuner module, the following line must be added to the modprobe configuration file, which varies from one Linux distribution to another.

```
options wis-sony-tuner force_band=B force_mpx_mode=2
```

The above example would force the tuner to the PAL B/G TV band and receive stereo audio broadcasts on the A2 carrier.

To verify that the configuration has been placed in the correct location, execute:

```
$ modprobe -c | grep wis-sony-tuner
```

If the configuration line appears, then modprobe will pass the parameters correctly the next time the wis-sony-tuner module is loaded into the kernel.

4. TESTING THE DRIVER

Because few Linux applications are able to correctly capture from Video4Linux2 devices with only compressed formats supported, the new driver should be tested with the "gorecord" application in the apps/ directory.

First connect a video source to the device, such as a DVD player or VCR. This will be captured to a file for testing the driver. If an input source is unavailable, a test file can still be captured, but the video will be black and the audio will be silent.

This application will auto-detect the V4L2 and ALSA/OSS device names of the hardware and will record video and audio to an AVI file for a specified number of seconds. For example:

```
$ apps/gorecord -duration 60 capture.avi
```

If this application does not successfully record an AVI file, the error messages produced by gorecord and recorded in the system log (usually in /var/log/messages) should provide information to help resolve the problem.

Supplying no parameters to gorecord will cause it to probe the available devices and exit. Use the -help flag for usage information.

5. USING THE DRIVER

The V4L2 device implemented by the driver provides a standard compressed format API, within the following criteria:

- * Applications that only support the original Video4Linux1 API will not be able to communicate with this driver at all.
- * No raw video modes are supported, so applications like xawtv that expect only uncompressed video will not function.

* Supported compression formats are: Motion-JPEG, MPEG1, MPEG2 and MPEG4.

* MPEG video formats are delivered as Video Elementary Streams only. Program Stream (PS), Transport Stream (TS) and Packetized Elementary Stream (PES) formats are not supported.

* Video parameters such as format and input port may not be changed while the encoder is active.

* The audio capture device only functions when the video encoder is actively capturing video. Attempts to read from the audio device when the encoder is inactive will result in an I/O error.

* The native format of the audio device is 48Khz 2-channel 16-bit little-endian PCM, delivered through the ALSA system. No audio compression is implemented in the hardware. ALSA may convert to other uncompressed formats on the fly.

The include/ directory contains a C header file describing non-standard features of the GO7007SB encoder, which are described below:

GO7007IOC_S_COMP_PARAMS, GO7007IOC_G_COMP_PARAMS

These ioctls are used to negotiate general compression parameters.

To query the current parameters, call the GO7007IOC_G_COMP_PARAMS ioctl with a pointer to a struct go7007_comp_params. If the driver is not set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct go7007_comp_params and call the GO7007_IOC_S_COMP_PARAMS ioctl with a pointer to this structure. The driver will return the current parameters with any necessary changes to conform to the limitations of the hardware or current compression mode. Any or all fields can be set to zero to request a reasonable default value. If the driver is not set to MPEG format, the EINVAL error code will be returned. When I/O is in progress, the EBUSY error code will be returned.

Fields in struct go7007_comp_params:

__u32	The maximum number of frames in each
gop_size	Group Of Pictures; i.e. the maximum
	number of frames minus one between
	each key frame.

__u32	The maximum number of sequential
max_b_frames	bidirectionally-predicted frames.

(B-frames are not yet supported.)

enum go7007_aspect_ratio The aspect ratio to be encoded in the
aspect_ratio meta-data of the compressed format.

Choices are:

GO7007_ASPECT_RATIO_1_1

GO7007_ASPECT_RATIO_4_3_NTSC

GO7007_ASPECT_RATIO_4_3_PAL

GO7007_ASPECT_RATIO_16_9_NTSC

GO7007_ASPECT_RATIO_16_9_PAL

__u32 Bit-wise OR of control flags (below)
flags

Flags in struct go7007_comp_params:

GO7007_COMP_CLOSED_GOP Only produce self-contained GOPs, used
to produce streams appropriate for
random seeking.

GO7007_COMP_OMIT_SEQ_HEADER Omit the stream sequence header.

GO7007IOC_S_MPEG_PARAMS, GO7007IOC_G_MPEG_PARAMS

These ioctls are used to negotiate MPEG-specific stream parameters when
the pixelformat has been set to V4L2_PIX_FMT_MPEG.

To query the current parameters, call the GO7007IOC_G_MPEG_PARAMS ioctl
with a pointer to a struct go7007_mpeg_params. If the driver is not
set to MPEG format, the EINVAL error code will be returned.

To change the current parameters, initialize all fields of a struct
go7007_mpeg_params and call the GO7007_IOC_S_MPEG_PARAMS ioctl with a
pointer to this structure. The driver will return the current
parameters with any necessary changes to conform to the limitations of
the hardware or selected MPEG mode. Any or all fields can be set to
zero to request a reasonable default value. If the driver is not set
to MPEG format, the EINVAL error code will be returned. When I/O is in
progress, the EBUSY error code will be returned.

Fields in struct go7007_mpeg_params:

enum go7007_mpeg_video_standard
mpeg_video_standard The MPEG video standard in which to
compress the video.

Choices are:

GO7007_MPEG_VIDEO_MPEG1
GO7007_MPEG_VIDEO_MPEG2
GO7007_MPEG_VIDEO_MPEG4

__u32 Bit-wise OR of control flags (below)
flags

__u32 The profile and level indication to be
pali stored in the sequence header. This
is only used as an indicator to the
decoder, and does not affect the MPEG
features used in the video stream.
Not valid for MPEG1.

Choices for MPEG2 are:

GO7007_MPEG2_PROFILE_MAIN_MAIN

Choices for MPEG4 are:

GO7007_MPEG4_PROFILE_S_L0
GO7007_MPEG4_PROFILE_S_L1
GO7007_MPEG4_PROFILE_S_L2
GO7007_MPEG4_PROFILE_S_L3
GO7007_MPEG4_PROFILE_ARTS_L1
GO7007_MPEG4_PROFILE_ARTS_L2
GO7007_MPEG4_PROFILE_ARTS_L3
GO7007_MPEG4_PROFILE_ARTS_L4
GO7007_MPEG4_PROFILE_AS_L0
GO7007_MPEG4_PROFILE_AS_L1
GO7007_MPEG4_PROFILE_AS_L2
GO7007_MPEG4_PROFILE_AS_L3
GO7007_MPEG4_PROFILE_AS_L4
GO7007_MPEG4_PROFILE_AS_L5

Flags in struct go7007_mpeg_params:

GO7007_MPEG_FORCE_DVD_MODE Force all compression parameters and
bitrate control settings to comply
with DVD MPEG2 stream requirements.
This overrides most compression and
bitrate settings!

GO7007_MPEG_OMIT_GOP_HEADER Omit the GOP header.

GO7007_MPEG_REPEAT_SEQHEADER Repeat the MPEG sequence header at
the start of each GOP.

GO7007IOC_S_BITRATE, GO7007IOC_G_BITRATE

These ioctls are used to set and query the target bitrate value for the compressed video stream. The bitrate may be selected by storing the target bits per second in an int and calling GO7007IOC_S_BITRATE with a pointer to the int. The bitrate may be queried by calling GO7007IOC_G_BITRATE with a pointer to an int where the current bitrate will be stored.

Note that this is the primary means of controlling the video quality for all compression modes, including V4L2_PIX_FMT_MJPEG. The VIDIOC_S_JPEGCOMP ioctl is not supported.

Installing the WIS PCI Voyager Driver

The WIS PCI Voyager driver requires several patches to the Linux 2.6.11.x kernel source tree before compiling the driver. These patches update the in-kernel SAA7134 driver to the newest development version and patch bugs in the TDA8290/TDA8275 tuner driver.

The following patches must be downloaded from Gerd Knorr's website and applied in the order listed:

<http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner>
<http://dl.bytesex.org/patches/2.6.11-2/i2c-tuner2>
<http://dl.bytesex.org/patches/2.6.11-2/v4l2-api-mpeg>
<http://dl.bytesex.org/patches/2.6.11-2/saa7134-update>

The following patches are included with this SDK and can be applied in any order:

patches/2.6.11/saa7134-voyager.diff
patches/2.6.11/tda8275-newaddr.diff
patches/2.6.11/tda8290-ntsc.diff

Check to make sure the CONFIG_VIDEO_SAA7134 option is enabled in the kernel configuration, and build and install the kernel.

After rebooting into the new kernel, the GO7007 driver can be compiled and installed:

```
$ make SAA7134_BUILD=y  
$ make install  
$ modprobe saa7134-go7007
```


There will be two V4L video devices associated with the PCI Voyager. The first device (most likely /dev/video0) provides access to the raw video capture mode of the SAA7133 device and is used to configure the source video parameters and tune the TV tuner. This device can be used with xawtv or other V4L(2) video software as a standard uncompressed device.

The second device (most likely /dev/video1) provides access to the compression functions of the GO7007. It can be tested using the gorecord application in the apps/ directory of this SDK:

```
$ apps/gorecord -vdevice /dev/video1 -noaudio test.avi
```

Currently the frame resolution is fixed at 720x480 (NTSC) or 720x576 (PAL), and the video standard must be specified to both the raw and the compressed video devices (xawtv and gorecord, for example).

RELEASE NOTES FOR WIS GO7007SB LINUX DRIVER

Last updated: 5 November 2005

- Release 0.9.7 includes new support for using udev to run fxload. The install script should automatically detect whether the old hotplug scripts or the new udev rules should be used. To force the use of hotplug, run "make install USE_UDEV=n". To force the use of udev, run "make install USE_UDEV=y".
- Motion detection is supported but undocumented. Try the `modet` app for a demonstration of how to use the facility.
- Using USB2.0 devices such as the TV402U with USB1.1 HCDs or hubs can cause buffer overruns and frame drops, even at low framerates, due to inconsistency in the bitrate control mechanism.
- On devices with an SAA7115, including the Plextor ConvertX, video height values of 96, 128, 160, 192, 256, 320, and 384 do not work in NTSC mode. All valid heights up to 512 work correctly in PAL mode.
- The WIS Star Trek and PCI Voyager boards have no support yet for audio or the TV tuner.

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agere_sta_fw.bin -- 9.48 Hermes I

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The following XC5000 firmware file "dvb-fe-xc5000-1.6.114.fw" was created based on "xc5000_firmwares_32000Khz.h".

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

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Firmware provided as part of an XC5000C Linux developers kit by Ramon Cazares <Ramon.Cazares@CrestaTech.com> to Devin Heitmueller dheitmueller@linuxtv.org on July 25, 2012.

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1.49 mmc-utils 0.1

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1.50 ncurses 5.9

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1.51 netbase 5.3

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1.52 nettle 2.7.1

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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

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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

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

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

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(For 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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The End

```
#!/perl
```

```
=head1 NAME
```

```
copyright.t
```

```
=head1 DESCRIPTION
```

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

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

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

```
=cut
```

```
use TestInit;
```

```

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

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

my ($opt) = @ARGV;

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

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

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

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', './README' or die "Opening README failed: $!";

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

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

    $year;
}

```

```

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

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

$year;
}

```

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

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

```
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```


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

That's all there is to it!

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

abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-build@perl.org>."

build_requires:

File::Temp: 0.15

Test::Harness: 3.16

Test::More: 0.49

generated_by: 'Module::Build version 0.3608'

license: gpl

meta-spec:

url: <http://module-build.sourceforge.net/META-spec-v1.4.html>

version: 1.4

name: Module-Build

resources:

MailingList: <mailto:module-build@perl.org>

license: <http://dev.perl.org/licenses/>

repository: <http://github.com/dagolden/module-build/>

version: 3

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```

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```

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Ty Coon, President of Vice

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The End

1.60 psplash 0.1

1.60.1 Available under license :

```
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 * psplash - a lightweight framebuffer splashscreen for embedded devices.
 *
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*

*/

```
#ifndef _HAVE_PSPLASH_H
```

```
#define _HAVE_PSPLASH_H
```

```
#define _GNU_SOURCE 1
```

```
#include <assert.h>
```

```
#include <errno.h>
```

```
#include <fcntl.h>
```

```
#include <limits.h>
```

```
#include <linux/fb.h>
```

```
#include <linux/kd.h>
```

```
#include <linux/vt.h>
```

```
#include <signal.h>
```

```
#include <stdarg.h>
```

```
#include <stdio.h>
```

```
#include <stdint.h>
```

```
#include <stdlib.h>
```

```
#include <string.h>
```

```
#if defined(__i386__) || defined(__alpha__)
```

```
#include <sys/io.h>
```

```
#endif
```

```
#include <sys/ioctl.h>
```

```
#include <sys/mman.h>
```

```
#include <sys/stat.h>
```

```
#include <sys/time.h>
```

```
#include <sys/types.h>
```

```
#include <termios.h>
```

```
#include <unistd.h>
```

```
typedef uint8_t uint8;
```

```
typedef uint16_t uint16;
```

```
typedef int      bool;
```

```
#ifndef FALSE
```

```
#define FALSE 0
```

```
#endif
```

```
#ifndef TRUE
```

```
#define TRUE 1
```

```
#endif
```

```
#define PSPLASH_FIFO "psplash_fifo"
```

```
#define CLAMP(x, low, high) \
```

```
(((x) > (high)) ? (high) : (((x) < (low)) ? (low) : (x)))
```

```
#define DEBUG 0

#if DEBUG
#define DBG(x, a...) \
    { printf ( __FILE__ ":%d,%s() " x "\n", __LINE__, __func__, ##a); }
#else
#define DBG(x, a...) do { } while (0)
#endif
```

```
typedef struct PSplashFont
{
    char *name; /* Font name. */
    int height; /* Height in pixels. */
    int index_mask; /* ((1 << N) - 1). */
    int *offset; /* (1 << N) offsets into index. */
    int *index;
    u_int32_t *content;
}
PSplashFont;
```

```
#include "psplash-fb.h"
#include "psplash-console.h"
```

```
#endif
```

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Version 2, June 1991

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1.61 python 2.7.9

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

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

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

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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

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

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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=====

Python was created in the early 1990s by Guido van Rossum at Stichting
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successor of a language called ABC. Guido remains Python's principal author,
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2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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MD5 message digest algorithm

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

<http://www.ietf.org/rfc/rfc1321.txt>

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

- 2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
- 1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
- 1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
- 1999-05-03 lpd Original version.

Asynchronous socket services

The :mod:`asynchat` and :mod:`asyncore` modules contain the following notice::

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

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strtod and dtoa

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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.

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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The data format used by the zlib library is described by RFCs (Request for

Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950>
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*/

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1.63 python-dbus 1.2.0

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1.64 python-psutil 2.2.1 :1.e17

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1.65 python-pygobject 2.28.3

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1.68 rpcbind 0.2.3 :r0

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1.70 shadow 4.2.1 :3.0

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- *
- * Written by Marek Michalkiewicz <marekm@i17linuxb.ists.pwr.wroc.pl>,
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1.74 sysvinit-inittab 2.88dsf :r9

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1.76 tftp-hpa 5.2

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1.77 u-boot 2015.4

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a

"work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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

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

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

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

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

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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.

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

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

collective works based on the Library.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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

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

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

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Ty Coon, President of Vice

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

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

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

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

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

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

case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

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

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

compelled to copy the source along with the object code.

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

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

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

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

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

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

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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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Version 2.1, February 1999

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```

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```
Gnomovision version 69, Copyright (C) year 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.
```

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```
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```

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

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```
/*
```

```
libusbmuxd - client library to talk to usbmuxd
```

```
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```

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```
*/
```

```
/* Protocol definition for usbmuxd proxy protocol */
```

```
#ifndef __USBMUXD_PROTO_H
```

```
#define __USBMUXD_PROTO_H
```

```
#include <stdint.h>
```

```
#define USBMUXD_PROTOCOL_VERSION 0
```

```
#if defined(WIN32) || defined(__CYGWIN__)
```

```
#define USBMUXD_SOCKET_PORT 27015
```

```
#else
```

```
#define USBMUXD_SOCKET_FILE "/var/run/usbmuxd"
```

```
#endif
```

```
#ifdef __cplusplus
```

```
extern "C" {
```

```
#endif
```

```
enum usbmuxd_result {
```

```
    RESULT_OK = 0,
```

```
    RESULT_BADCOMMAND = 1,
```

```
    RESULT_BADDEV = 2,
```

```
    RESULT_CONNREFUSED = 3,
```

```
    // ???
```

```
    // ???
```

```
    RESULT_BADVERSION = 6,
```

```
};
```

```
enum usbmuxd_msgtype {
```

```
    MESSAGE_RESULT = 1,
```

```
    MESSAGE_CONNECT = 2,
```

```
    MESSAGE_LISTEN = 3,
```

```
    MESSAGE_DEVICE_ADD = 4,
```

```
    MESSAGE_DEVICE_REMOVE = 5,
```

```
    //???
```



```

//???
MESSAGE_PLIST = 8,
};

struct usbmuxd_header {
    uint32_t length; // length of message, including header
    uint32_t version; // protocol version
    uint32_t message; // message type
    uint32_t tag; // responses to this query will echo back this tag
} __attribute__((__packed__));

struct usbmuxd_result_msg {
    struct usbmuxd_header header;
    uint32_t result;
} __attribute__((__packed__));

struct usbmuxd_connect_request {
    struct usbmuxd_header header;
    uint32_t device_id;
    uint16_t port; // TCP port number
    uint16_t reserved; // set to zero
} __attribute__((__packed__));

struct usbmuxd_listen_request {
    struct usbmuxd_header header;
} __attribute__((__packed__));

struct usbmuxd_device_record {
    uint32_t device_id;
    uint16_t product_id;
    char serial_number[256];
    uint16_t padding;
    uint32_t location;
} __attribute__((__packed__));

#ifdef __cplusplus
}
#endif

#endif /* __USBMUXD_PROTO_H */
/*
libusbmuxd - client library to talk to usbmuxd

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```

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```
*/

/* Protocol definition for usbmuxd proxy protocol */
#ifndef __USBMUXD_PROTO_H
#define __USBMUXD_PROTO_H

#include <stdint.h>
#define USBMUXD_PROTOCOL_VERSION 0

#if defined(WIN32) || defined(__CYGWIN__)
#define USBMUXD_SOCKET_PORT 27015
#else
#define USBMUXD_SOCKET_FILE "/var/run/usbmuxd"
#endif

#ifdef __cplusplus
extern "C" {
#endif

enum usbmuxd_result {
    RESULT_OK = 0,
    RESULT_BADCOMMAND = 1,
    RESULT_BADDEV = 2,
    RESULT_CONNREFUSED = 3,
    // ???
    // ???
    RESULT_BADVERSION = 6,
};

enum usbmuxd_msgtype {
    MESSAGE_RESULT = 1,
    MESSAGE_CONNECT = 2,
    MESSAGE_LISTEN = 3,
    MESSAGE_DEVICE_ADD = 4,
    MESSAGE_DEVICE_REMOVE = 5,
```

```

//???
//???
MESSAGE_PLIST = 8,
};

struct usbmuxd_header {
uint32_t length; // length of message, including header
uint32_t version; // protocol version
uint32_t message; // message type
uint32_t tag; // responses to this query will echo back this tag
} __attribute__((__packed__));

struct usbmuxd_result_msg {
struct usbmuxd_header header;
uint32_t result;
} __attribute__((__packed__));

struct usbmuxd_connect_request {
struct usbmuxd_header header;
uint32_t device_id;
uint16_t port; // TCP port number
uint16_t reserved; // set to zero
} __attribute__((__packed__));

struct usbmuxd_listen_request {
struct usbmuxd_header header;
} __attribute__((__packed__));

struct usbmuxd_device_record {
uint32_t device_id;
uint16_t product_id;
char serial_number[256];
uint16_t padding;
uint32_t location;
} __attribute__((__packed__));

#ifdef __cplusplus
}
#endif

#endif /* __USBMUXD_PROTO_H */
Background
=====

```

'usbmuxd' stands for "USB multiplexing daemon". This daemon is in charge of multiplexing connections over USB to an iPhone or iPod touch. To users, it means you can sync your music, contacts, photos, etc. over USB. To developers, it means you can connect to any listening localhost socket on the device. usbmuxd

is not used for tethering data transfer, which uses a dedicated USB interface as a virtual network device.

Multiple connections to different TCP ports can happen in parallel. An example (and useful) tool called 'iproxy' is included that allows you to forward localhost ports to the device---allows SSH over USB on jailbroken devices, or allowing access the lockdown daemon (and then to all of the file access, sync, notification and backup services running on the device).

The higher-level layers are handled by libimobiledevice. 'ifuse' is then able to sit on top of this and mount your device's AFC filesystem share.

There is also a Python implementation of the client library in the python-client library, and an example tcprelay.py which performs a similar function to iproxy. This implementation supports OSX and Windows and the new iTunes plist-based usbmuxd protocol, so it is portable and will run on those operating systems with no modification, using Apple's native usbmuxd. This is useful if you need to tunnel to your device from another OS in a pinch. Run python tcprelay.py --help for usage information.

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=====

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Building

=====

```
mkdir build
cd build
cmake ..
make
sudo make install
```

You should also create a 'usbmux' user that has access to USB devices on your system. Alternatively, you can pass a different username after the -U argument.

Running (with magic)

```
=====
(Unplug + replug your jailbroken device)
./iproxy 2222 22 &
ssh -p 2222 root@localhost
```

Hopefully you get the normal SSH login prompt. You may still get lots of debugging output for the moment. If this is getting in the way of your ssh login, then run the 'ssh' command from a different xterminal or virtual console. Of course, you need to have OpenSSH installed on your jailbroken device for this to work.

If you have iFuse, you can run "ifuse <mountpoint">. This doesn't require iproxy and works on all devices, jailbroken or not.

Running (without magic)

```
=====
If 'udev' is not automatically running on your machine and picking up the new
.rules file, you will need to start usbmuxd by hand first. Check it's running
and that there is only one copy with 'ps aux | grep
usbmuxd'.
```

```
sudo usbmuxd -U -v -v &
./iproxy 2222 22 &
ssh -p 2222 root@localhost
```

Tip: Starting SSH if disabled

```
=====
If your device is rooted, but SSH isn't started and you cannot (for instance,
cracked/broken screen) get to the Services control panel on the device, then you
can start the SSH service over the USB by mounting the (jailbroken) filesystem.
```

You will need to mount it using 'ifuse --afc2' (to access the root directory of the device), and then edit:

```
/Library/LaunchDaemons/com.openssh.sshd.plist
```

to remove the lines:

```
<key>Disabled</key>
<true/>
```

Reboot the device and then sshd should be running.

TODO

```
=====
```

The server currently assumes that the device is well-behaved and does not do a bunch of checks like looking for the expected SEQ and ACK numbers from it. This is normally not an issue, but it's annoying for debugging because lost packets (which shouldn't happen, but can happen if the code is buggy) mean that stuff gets out of sync and then might crash and burn dozens of packets later.

The server needs more testing, and some optimizing.

Someone should probably do some edge-case testing on the TCP stuff.

The outgoing ACK handling on the server probably needs some thought. Currently, when there's an outstanding ACK, we send it after a timeout (to avoid sending a no-payload ACK packet for everything the phone sends us). However, there's probably a better way of doing this.

Architecture information

=====

The iPhone / iPod Touch basically implements a rather strange USB networking system that operates at a higher level. It is of course completely proprietary. Generally speaking, this is what goes on in a typical usage scenario:

0. iTunes opens a connection to usbmuxd and asks it for device notifications
1. User inserts phone into computer
2. usbmuxd notices the phone and pings it with a version packet
3. phone replies
4. usbmuxd now considers the phone to be connected and tells iTunes
5. iTunes opens another separate connection to usbmuxd and asks it to connect to, say, the afc port on the device
6. usbmuxd sends a pseudo-TCP SYN packet to the phone
7. the phone's kernel driver receives the SYN packet and itself opens a TCP connection to localhost on the afc port
8. the phone replies with a pseudo-TCP SYN/ACK indicating that the port is open and the connection can proceed
7. usbmuxd sends a final ACK to the phone
8. usbmuxd replies to iTunes with a "connection successful" message
9. any data that iTunes writes to the usbmuxd socket from now on is forwarded, through pseudo-TCP, through USB, back into a more regular TCP connection to localhost, to the afc daemon on the phone, and vice versa

The usbmuxd protocol is a relatively simple binary message protocol documented here:

<http://wiki.eiphwn.org/usb:usbmux>

Note that once a connection is established the UNIX socket essentially becomes a dedicated pipe to the TCP connection and no more high-level control is possible (closing the socket closes the TCP connection). Ditto for the "listen

for devices" mode - usbmuxd will reject any commands in such mode, and the socket essentially becomes a dedicated device notification pipe. This means that you need, at minimum, TWO connections to usbmuxd to do anything useful.

On Windows, usbmuxd works the same way but a TCP connection to localhost port 27015 replaces the UNIX socket. On OSX, the UNIX socket is /var/run/usbmuxd. The server and client implemented here default the same /var/run/usbmuxd socket.

The phone protocol operates over a pair of USB bulk endpoints. There is an outer layer used for packet size info and a "protocol" (version and TCP are the only two options), and that header is followed by TCP headers for actual data comms. However, the protocol isn't actual TCP, just a custom protocol which for some reason uses a standard TCP header and leaves most fields unused.

There is no reordering or retransmission. There are no checksums, no URG, no PSH, no non-ACK, no FIN. What there *is* is the SEQ/ACK/window mechanism used for flow control, and RST is used as the only connection teardown mechanism (and also for "connection refused"), and the connection startup is SYN/SYNACK/ACK.

Windows are constant-scaled by 8 bits. This is legal TCP as long as the corresponding option is negotiated. Of course, no such negotiation happens on this protocol.

Note that, since there are no retransmissions, there is some overlap between ACK and window for flow control. For example, the server doesn't ever touch its window size, and just refuses to ACK stuff if its buffers are full and the client isn't reading data. The phone happily seems to stop sending stuff.

Also, if the phone RSTs you out of nowhere, look at the packet payload for a textual error message. Note: if it claims to suffer from amnesia, that probably means you overflowed its input buffer by ignoring its flow control / window size. Go figure. Probably a logic bug in the kernel code.

Note that all normal packets need to have flags set to ACK (and only ACK). There is no support for, erm, not-acking. Keep the ack number field valid at all times.

The usbmuxd CONNECT request port field is byte-swapped (network-endian). This is even more annoying for the plist based protocol, since it's even true there (where the field is plain text). So even for the plain text int, you need to swap the bytes (port 22 becomes <integer>5632</integer>). I have no clue if this is the case on the new plist protocol on PPC macs (is the newer iTunes available for those?)

There are a bunch of gotchas due to the USB framing, and this is even worse because implementations tend to get it wrong (i.e. libusb, and this is the reason for the patch). Basically, USB Bulk offers, at the low level, the ability to transfer packets from 0 to wMaxPacketSize (512 here) bytes, period. There is

no other support for higher level framing of transfers. The way you do those is by breaking them up into packets, and the final shorter packet marks the end of the transfer. The critical bit is that, if the transfer happens to be divisible by 512, you send a zero-length packet (ZLP) to indicate the end of the transfer. Libusb doesn't set this option by default and the iPhone gets packets stuck to each other, which it doesn't like. Actually, this framing is sort of redundant because the usbmux packet header includes a length field, but the phone still wants the ZLPs or else it breaks. To make matters worse, usbdevfs imposes a max transfer size of 16k, so libusb breaks transfers into that size. This is okay for sending as long as the ZLP is only added to the last transfer (the patch does that), but it can easily cause nasty race conditions on RX due to libusb doing multiple outstanding reads at the same time and then cancelling the rest when shorter data arrives (but what if some data got into the other requests already?), so we only do 16k reads and stick them together ourselves by looking at the packet size header. We still depend on ZLPs being sent to end transfers at non-16k boundaries that are multiples of 512, but that seems to work fine. I guess the ZLPs might cause spurious 0-byte transfers to show up on RX if things line up right, but we ignore those. By the way, the maximum packet/transfer size is 65535 bytes due to the 16-bit length header of the usbmux protocol.

1.82 usbmuxd-proto.h 1.1.0

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Version 2.1, February 1999

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1.83 usbmuxd/libusbmuxd 1.0.8 :11.e17

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/*

libusbmuxd - client library to talk to usbmuxd

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*/

Background

=====

'usbmuxd' stands for "USB multiplexing daemon". This daemon is in charge of multiplexing connections over USB to an iPhone or iPod touch. To users, it means you can sync your music, contacts, photos, etc. over USB. To developers, it means you can connect to any listening localhost socket on the device. usbmuxd is not used for tethering data transfer, which uses a dedicated USB interface as a virtual network device.

Multiple connections to different TCP ports can happen in parallel. An example (and useful) tool called 'iproxy' is included that allows you to forward localhost ports to the device---allows SSH over USB on jailbroken devices, or allowing access the lockdown daemon (and then to all of the file access, sync, notification and backup services running on the device).

The higher-level layers are handled by libimobiledevice. 'ifuse' is then able to sit on top of this and mount your device's AFC filesystem share.

There is also a Python implementation of the client library in the python-client library, and an example tcprelay.py which performs a similar function to iproxy. This implementation supports OSX and Windows and the new iTunes plist-based usbmuxd protocol, so it is portable and will run on those operating systems with no modification, using Apple's native usbmuxd. This is useful if you need to tunnel to your device from another OS in a pinch. Run python tcpclient.py --help for usage information.

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=====

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=====

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Building

=====

```
mkdir build
cd build
cmake ..
make
sudo make install
```

You should also create a 'usbmux' user that has access to USB devices on your system. Alternatively, you can pass a different username after the -U argument.

Running (with magic)

=====

```
(Unplug + replug your jailbroken device)
./iproxy 2222 22 &
ssh -p 2222 root@localhost
```

Hopefully you get the normal SSH login prompt. You may still get lots of debugging output for the moment. If this is getting in the way of your ssh login, then run the 'ssh' command from a different xterminal or virtual console. Of course, you need to have OpenSSH installed on your jailbroken device for this to work.

If you have iFuse, you can run "ifuse <mountpoint>". This doesn't require iproxy and works on all devices, jailbroken or not.

Running (without magic)

=====

If 'udev' is not automatically running on your machine and picking up the new .rules file, you will need to start usbmuxd by hand first. Check it's running and that there is only one copy with 'ps aux | grep usbmuxd'.

```
sudo usbmuxd -U -v -v &
./iproxy 2222 22 &
```

```
ssh -p 2222 root@localhost
```

Tip: Starting SSH if disabled

=====

If your device is rooted, but SSH isn't started and you cannot (for instance, cracked/broken screen) get to the Services control panel on the device, then you can start the SSH service over the USB by mounting the (jailbroken) filesystem.

You will need to mount it using 'ifuse --afc2' (to access the root directory of the device), and then edit:

```
/Library/LaunchDaemons/com.openssh.sshd.plist
```

to remove the lines:

```
<key>Disabled</key>  
<true/>
```

Reboot the device and then sshd should be running.

TODO

=====

The server currently assumes that the device is well-behaved and does not do a bunch of checks like looking for the expected SEQ and ACK numbers from it. This is normally not an issue, but it's annoying for debugging because lost packets (which shouldn't happen, but can happen if the code is buggy) mean that stuff gets out of sync and then might crash and burn dozens of packets later.

The server needs more testing, and some optimizing.

Someone should probably do some edge-case testing on the TCP stuff.

The outgoing ACK handling on the server probably needs some thought. Currently, when there's an outstanding ACK, we send it after a timeout (to avoid sending a no-payload ACK packet for everything the phone sends us). However, there's probably a better way of doing this.

Architecture information

=====

The iPhone / iPod Touch basically implements a rather strange USB networking system that operates at a higher level. It is of course completely proprietary. Generally speaking, this is what goes on in a typical usage scenario:

0. iTunes opens a connection to usbmuxd and asks it for device notifications
1. User inserts phone into computer

2. usbmuxd notices the phone and pings it with a version packet
3. phone replies
4. usbmuxd now considers the phone to be connected and tells iTunes
5. iTunes opens another separate connection to usbmuxd and asks it to connect to, say, the afc port on the device
6. usbmuxd sends a pseudo-TCP SYN packet to the phone
7. the phone's kernel driver receives the SYN packet and itself opens a TCP connection to localhost on the afc port
8. the phone replies with a pseudo-TCP SYN/ACK indicating that the port is open and the connection can proceed
7. usbmuxd sends a final ACK to the phone
8. usbmuxd replies to iTunes with a "connection successful" message
9. any data that iTunes writes to the usbmuxd socket from now on is forwarded, through pseudo-TCP, through USB, back into a more regular TCP connection to localhost, to the afc daemon on the phone, and vice versa

The usbmuxd protocol is a relatively simple binary message protocol documented here:

<http://wikee.iphwn.org/usb:usbmux>

Note that once a connection is established the UNIX socket essentially becomes a dedicated pipe to the TCP connection and no more high-level control is possible (closing the socket closes the TCP connection). Ditto for the "listen for devices" mode - usbmuxd will reject any commands in such mode, and the socket essentially becomes a dedicated device notification pipe. This means that you need, at minimum, TWO connections to usbmuxd to do anything useful.

On Windows, usbmuxd works the same way but a TCP connection to localhost port 27015 replaces the UNIX socket. On OSX, the UNIX socket is `/var/run/usbmuxd`. The server and client implemented here default the same `/var/run/usbmuxd` socket.

The phone protocol operates over a pair of USB bulk endpoints. There is an outer layer used for packet size info and a "protocol" (version and TCP are the only two options), and that header is followed by TCP headers for actual data comms. However, the protocol isn't actual TCP, just a custom protocol which for some reason uses a standard TCP header and leaves most fields unused.

There is no reordering or retransmission. There are no checksums, no URG, no PSH, no non-ACK, no FIN. What there *is* is the SEQ/ACK/window mechanism used for flow control, and RST is used as the only connection teardown mechanism (and also for "connection refused"), and the connection startup is SYN/SYNACK/ACK.

Windows are constant-scaled by 8 bits. This is legal TCP as long as the corresponding option is negotiated. Of course, no such negotiation happens on this protocol.

Note that, since there are no retransmissions, there is some overlap between ACK

and window for flow control. For example, the server doesn't ever touch its window size, and just refuses to ACK stuff if its buffers are full and the client isn't reading data. The phone happily seems to stop sending stuff.

Also, if the phone RSTs you out of nowhere, look at the packet payload for a textual error message. Note: if it claims to suffer from amnesia, that probably means you overflowed its input buffer by ignoring its flow control / window size. Go figure. Probably a logic bug in the kernel code.

Note that all normal packets need to have flags set to ACK (and only ACK). There is no support for, erm, not-acking. Keep the ack number field valid at all times.

The usbmuxd CONNECT request port field is byte-swapped (network-endian). This is even more annoying for the plist based protocol, since it's even true there (where the field is plain text). So even for the plain text int, you need to swap the bytes (port 22 becomes `<integer>5632</integer>`). I have no clue if this is the case on the new plist protocol on PPC macs (is the newer iTunes available for those?)

There are a bunch of gotchas due to the USB framing, and this is even worse because implementations tend to get it wrong (i.e. libusb, and this is the reason for the patch). Basically, USB Bulk offers, at the low level, the ability to transfer packets from 0 to `wMaxPacketSize` (512 here) bytes, period. There is no other support for higher level framing of transfers. The way you do those is by breaking them up into packets, and the final shorter packet marks the end of the transfer. The critical bit is that, if the transfer happens to be divisible by 512, you send a zero-length packet (ZLP) to indicate the end of the transfer. Libusb doesn't set this option by default and the iPhone gets packets stuck to each other, which it doesn't like. Actually, this framing is sort of redundant because the usbmux packet header includes a length field, but the phone still wants the ZLPs or else it breaks. To make matters worse, `usbdevfs` imposes a max transfer size of 16k, so libusb breaks transfers into that size. This is okay for sending as long as the ZLP is only added to the last transfer (the patch does that), but it can easily cause nasty race conditions on RX due to libusb doing multiple outstanding reads at the same time and then cancelling the rest when shorter data arrives (but what if some data got into the other requests already?), so we only do 16k reads and stick them together ourselves by looking at the packet size header. We still depend on ZLPs being sent to end transfers at non-16k boundaries that are multiples of 512, but that seems to work fine. I guess the ZLPs might cause spurious 0-byte transfers to show up on RX if things line up right, but we ignore those. By the way, the maximum packet/transfer size is 65535 bytes due to the 16-bit length header of the usbmux protocol.

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```

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```
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```

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1.85 util-linux 2.26.2

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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
2d8e8dff51a88a045db233418dd73fbe bsd.img

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

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

Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img

---layout-----

Welcome to fdisk <removed>.
Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

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

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

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

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

b5c121c2091b2ff26b880551feac7112 BSD.img

---layout-----

Welcome to fdisk <removed>.

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

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

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

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

Partition table entries are not in disk order.

Command (m for help): Leaving nested disklabel.

Command (m for help):

Changes will remain in memory only, until you decide to write them.

Be careful before using the write command.

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

Command (m for help):

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

Command (m for help):

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Version 2, June 1991

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--Ben Greear (greearb@candelatech.com)

<http://www.candelatech.com/~greear>

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1.88 wpa-suppliant 2.4

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1.89 zlib 1.2.8

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.8, April 28th, 2013
```

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Jean-loup Gailly Mark Adler
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

*/

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