



Open Source Used In Video Surveillance 8000 Series IP Camera Firmware 1.0.9

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```

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<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1" />
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<title>Eclipse Foundation Software User Agreement</title>
```

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</head>
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<body lang="EN-US">
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```

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1.3 message 1.0.1.25

1.4 busybox 1.22.1

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.5 openssh 7.9p1

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*/

#ifdef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif

#ifdef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

```

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*
*/

```

```

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

```

```

#ifndef HAVE_WAITPID

```

```

/* Clean out any potential issues */

```

```

#undef WIFEXITED

```

```

#undef WIFSTOPPED

```

```

#undef WIFSIGNALED

```

```

/* Define required functions to mimic a POSIX look and feel */

```

```

#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */

```

```

#define WIFEXITED(w) (!((_W_INT(w)) & 0377))

```

```

#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)

```

```

#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))

```

```

#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w)) >> 8) & 0377) : -1)

```

```

#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)

```

```

#define WCOREFLAG 0x80

```

```

#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

```

```

/* Prototype */

```

```

pid_t waitpid(int, int *, int);

```

```

#endif /* !HAVE_WAITPID */

```

```

#endif /* _BSD_WAITPID_H */
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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 */

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef HAVE_POLL || !defined(HAVE_POLL_H)
#ifdef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

typedef struct pollfd {
    int fd;
    short events;
    short revents;
} pollfd_t;

typedef unsigned int nfd_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#endif
#endif

```

```
/* the following are currently not implemented */
```

```
#define POLLPRI 0x0002
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif
```

```
#define INFTIM (-1) /* not standard */
```

```
int poll(struct pollfd *, nfd_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */
```

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1.9 e2fsprogs 1.42.8

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

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

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

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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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written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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for the nxt2004 frontend driver

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see init_nicstar() for PHY initialization to change this. This driver

* expects the Linux ATM stack to support scatter-gather lists

* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

*

* Implementing minimal-copy of received data:

* IDT always receives data into a small buffer, then large buffers

* as needed. This means that data must always be copied to create

* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

* Fix is simple: make large buffers large enough to hold entire

* SDU, and leave <small_buffer_data> bytes empty at the start. Then

* copy small buffer contents to head of large buffer.

* Trick is to avoid fragmenting Linux, due to need for a lot of large

* buffers. This is done by 2 things:

* 1) skb->destructor / skb->atm.recycle_buffer

* combined, allow nicstar_free_rx_skb to be called to

* recycle large data buffers

* 2) skb_clone of received buffers

* See nicstar_free_rx_skb and linearize_buffer for implementation

* details.

*
*
*
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*
* M. Welsh, 6 July 1996
*
*
*/

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QLogic Linux FC-FCoE Driver

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

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

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

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

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1.12 bstring 05122010

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```

```
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1.13 ftpd 0.17

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*/
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/* \$OpenBSD: ftpd.c,v 1.71 2000/04/29 14:02:59 deraadt Exp \$ */
/* \$NetBSD: ftpd.c,v 1.15 1995/06/03 22:46:47 mycroft Exp \$ */
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/*

```

* From: @(#)ftpd.c 8.4 (Berkeley) 4/16/94
* From: NetBSD: ftpd.c,v 1.15 1995/06/03 22:46:47 mycroft Exp
* From: OpenBSD: ftpd.c,v 1.26 1996/12/07 09:00:22 bitblt Exp
* From: OpenBSD: ftpd.c,v 1.35 1997/05/01 14:45:37 deraadt Exp
* From: OpenBSD: ftpd.c,v 1.54 1999/04/29 21:38:43 downsj Exp
*/
char ftpd_rcsid[] =
"$Id: ftpd.c,v 1.20 2000/07/23 03:34:56 dholland Exp $";

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/*
* FTP server.
*/

#ifdef __linux__
#define _GNU_SOURCE
#endif

#include <sys/types.h>
#include <sys/param.h>
#include <sys/stat.h>
#include <sys/ioctl.h>
#include <sys/socket.h>
#include <sys/wait.h>
#include <sys/mman.h>

#include <netinet/in.h>
#include <netinet/ip.h>
#include <netinet/tcp.h>

#define FTP_NAMES
#include <arpa/ftp.h>
#include <arpa/inet.h>
#include <arpa/telnet.h>

#include <ctype.h>
#include <dirent.h>
#include <errno.h>
#include <fcntl.h>
#include <glob.h>
#include <limits.h> /* for CHAR_BIT */
#include <netdb.h>
#include <pwd.h>
#include <setjmp.h>
#include <signal.h>

```

```

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <syslog.h>
#include <time.h>
#include <vis.h>
#include <unistd.h>
#include <utmp.h>

#ifdef __linux__
#include <util.h>
#include <err.h>
#else
#include <grp.h> /* for initgroups() */
/* #include <sys/file.h> * for L_SET et al. * <--- not used? */
/*typedef int64_t quad_t;*/
typedef unsigned int useconds_t;
#endif

#ifdef _USAGI
#include "version.h"
#else
#include "../version.h"
#endif

/* glibc 2.[01] does not have TCP_CORK, so define it here */
#if __GLIBC__ >= 2 && defined(__linux__) && !defined(TCP_CORK)
#define TCP_CORK 3
#endif

#ifdef MAP_FAILED
#define MAP_FAILED ((void *)-1)
#endif

#ifdef USE_SHADOW
#include <shadow.h>
#include "isexpired.h"
#endif

#ifdef TCPWRAPPERS
#include <tcpd.h>
#endif /* TCPWRAPPERS */

#ifdef SKEY
#include <skey.h>
#endif

#include "pathnames.h"

```

```

#include "extern.h"

#ifdef __STDC__
#include <stdarg.h>
#else
#include <varargs.h>
#endif

static char versionpre[] = "Version 6.4/OpenBSD/Linux";
static char version[sizeof(versionpre)+sizeof(pkg)];

extern off_t restart_point;
extern char cbuf[];

union sockunion server_addr;
union sockunion ctrl_addr;
union sockunion data_source;
union sockunion data_dest;
union sockunion his_addr;
union sockunion pasv_addr;

int daemon_mode = 0;
int data;
jmp_buf errcatch, urgcatch;
int logged_in;
struct passwd *pw;
#ifdef USE_SHADOW
struct spwd *spw = NULL;
#endif
int debug = 0;
int timeout = 900; /* timeout after 15 minutes of inactivity */
int maxtimeout = 7200; /* don't allow idle time to be set beyond 2 hours */
int logging;
int high_data_ports = 0;
int anon_only = 0;
int multihome = 0;
int guest;
int stats;
int statfd = -1;
int portcheck = 1;
int dochroot;
int type;
int form;
int stru; /* avoid C keyword */
int mode;
int doutmp = 0; /* update utmp file */
int usedefault = 1; /* for data transfers */

```

```

int pdata = -1; /* for passive mode */
int epsvall = 0; /* for EPSV ALL */
sig_atomic_t transflag;
off_t file_size;
off_t byte_count;
#if !defined(CMASK) || CMASK == 0
#undef CMASK
#define CMASK 027
#endif
int defumask = CMASK; /* default umask value */
char tmline[7];
char hostname[MAXHOSTNAMELEN];
char remotehost[MAXHOSTNAMELEN];
char dhostname[MAXHOSTNAMELEN];
char *guestpw;
static char ttyline[20];
char *tty = ttyline; /* for klogin */
static struct utmp utmp; /* for utmp */

#if defined(TCPWRAPPERS)
int allow_severity = LOG_INFO;
int deny_severity = LOG_NOTICE;
#endif /* TCPWRAPPERS */

#if defined(KERBEROS)
int notickets = 1;
char *krbtkfile_env = NULL;
#endif

char *ident = NULL;

/*
 * Timeout intervals for retrying connections
 * to hosts that don't accept PORT cmds. This
 * is a kludge, but given the problems with TCP...
 */
#define SWAITMAX 90 /* wait at most 90 seconds */
#define SWAITINT 5 /* interval between retries */

int swaitmax = SWAITMAX;
int swaitint = SWAITINT;

#ifdef HASSETPROCTITLE
char proctitle[BUFSIZ]; /* initial part of title */
#endif /* HASSETPROCTITLE */

#define LOGCMD(cmd, file) \

```

```

if (logging > 1) \
    syslog(LOG_INFO,"%s %s%s", cmd, \
*(file) == '/' ? "" : curdir(), file);
#define LOGCMD2(cmd, file1, file2) \
    if (logging > 1) \
        syslog(LOG_INFO,"%s %s%s %s%s", cmd, \
*(file1) == '/' ? "" : curdir(), file1, \
*(file2) == '/' ? "" : curdir(), file2);
#define LOGBYTES(cmd, file, cnt) \
    if (logging > 1) { \
        if (cnt == (off_t)-1) \
            syslog(LOG_INFO,"%s %s%s", cmd, \
*(file) == '/' ? "" : curdir(), file); \
        else \
            syslog(LOG_INFO, "%s %s%s = %qd bytes", cmd, \
*(file) == '/' ? "" : curdir(), file, (quad_t)(cnt)); \
    }

static void ack __P((const char *));
static void myoob __P((int));
static int checkuser __P((const char *, const char *));
static FILE *dataconn __P((const char *, off_t, const char *));
static void dolog __P((union sockunion *));
static const char *curdir __P((void));
static void end_login __P((void));
static FILE *getdatasock __P((const char *));

#if 0
static int guniquefd __P((const char *, char **));
#else
static char *gunique __P ((const char *));
#endif

static void lostconn __P((int));
static void sigquit __P((int));
static int receive_data __P((FILE *, FILE *));
static void replydirname __P((const char *, const char *));
static void send_data __P((FILE *, FILE *, off_t, off_t, int));
static struct passwd *
    sgetpwnam __P((const char *));
static char *sgetsav __P((char *));
static void reapchild __P((int));
static void printstataddrinfo __P((void));

#if defined(TCPWRAPPERS)
static int check_host __P((struct sockaddr_in *));
#endif

```

```

void logxfer __P((const char *, off_t, time_t));

#ifdef __linux__
static void warnx(const char *format, ...)
{
    va_list ap;
    va_start(ap, format);
    fprintf(stderr, "ftpd: ");
    vfprintf(stderr, format, ap);
    fprintf(stderr, "\n");
    va_end(ap);
}
#endif /* __linux__ */

static const char *
curdir(void)
{
    static char path[MAXPATHLEN+1]; /* path + '/' */

    if (getcwd(path, sizeof(path)-1) == NULL)
        return ("");
    if (path[1] != '\0') /* special case for root dir. */
        strcat(path, "/");
    /* For guest account, skip / since it's chrooted */
    return (guest ? path+1 : path);
}

int
main(int argc, char *argv[], char **envp)
{
    int ch, on = 1, tos;
    socklen_t addrlen;
    char *cp, line[LINE_MAX];
    FILE *fd;
#ifdef INET6
    const char *argstr = "AdDhLMSt:T:u:UvP46";
    int family = AF_UNSPEC;
    int enable_v4 = 0;
#else
    const char *argstr = "AdDhLMSt:T:u:UvP4";
    int family = AF_INET;
    int enable_v4 = 1;
#endif
    struct addrinfo hints, *res;
    int error;

#ifdef __linux__
    initsetproctitle(argc, argv, envp);

```

```

srandom(time(NULL)^(getpid()<<8));

/*
 * Get the version number from pkg[] and put it in version[]
 * (we do this like this because pkg[] gets updated by the build
 * environment)
 */
{
    char *tmp, *tmp2, tbuf[sizeof(pkg)+1];
    strcpy(tbuf, pkg);
    strcpy(version, versionpre);
    tmp = strchr(tbuf, '-');
    if (tmp) {
        tmp2 = strchr(tmp, ' ');
        if (tmp2) *tmp2=0;
        strcat(version, tmp);
    }
}
#endif

tzset(); /* in case no timezone database in ~ftp */

/* set this here so klogin can use it... */
(void)sprintf(ttyline, sizeof(ttyline), "ftp%d", getpid());

while ((ch = getopt(argc, argv, argstr)) != -1) {
    switch (ch) {
        case 'A':
            anon_only = 1;
            break;

        case 'd':
            debug = 1;
            break;

        case 'D':
            daemon_mode = 1;
            break;

        case 'P':
            portcheck = 0;
            break;

        case 'h':
            high_data_ports = 1;
            break;

        case 'l':

```

```
logging++; /* > 1 == extra logging */
break;

case 'M':
    multihome = 1;
    break;

case 'S':
    stats = 1;
    break;

case 't':
    timeout = atoi(optarg);
    if (maxtimeout < timeout)
        maxtimeout = timeout;
    break;

case 'T':
    maxtimeout = atoi(optarg);
    if (timeout > maxtimeout)
        timeout = maxtimeout;
    break;

case 'u':
    {
    long val = 0;

    val = strtol(optarg, &optarg, 8);
    if (*optarg != '\0' || val < 0 || (val & ~ACCESSPERMS))
        warnx("bad value for -u");
    else
        defumask = val;
    break;
    }

case 'U':
    doutmp = 1;
    break;

case 'v':
    debug = 1;
    break;

case '4':
    enable_v4 = 1;
    if (family == AF_UNSPEC)
        family = AF_INET;
    break;
```

```

#ifdef INET6
    case '6':
        family = AF_INET6;
        break;
#endif

default:
    warnx("unknown flag -%c ignored", optopt);
    break;
}
}

(void) freopen(_PATH_DEVNULL, "w", stderr);

/*
 * LOG_NDELAY sets up the logging connection immediately,
 * necessary for anonymous ftp's that chroot and can't do it later.
 */
#ifdef LOG_FTP
#define LOG_FTP LOG_DAEMON
#endif
openlog("ftpd", LOG_PID | LOG_NDELAY, LOG_FTP);

if (daemon_mode) {
    int ctl_sock, fd2;

    /*
     * Detach from parent.
     */
    if (daemon(1, 1) < 0) {
        syslog(LOG_ERR, "failed to become a daemon");
        exit(1);
    }
    (void) signal(SIGCHLD, reapchild);
    /* init bind_sa */
    memset(&hints, 0, sizeof(hints));
    hints.ai_family = family == AF_UNSPEC ? AF_INET : family;
    hints.ai_socktype = SOCK_STREAM;
    hints.ai_flags = AI_PASSIVE;
    error = getaddrinfo(0, "ftp", &hints, &res);
    if (error) {
        if (family == AF_UNSPEC) {
            hints.ai_family = AF_UNSPEC;
            error = getaddrinfo(0, "ftp", &hints, &res);
        }
    }
    if (error) {
        syslog(LOG_ERR, gai_strerror(error));
    }
}

```

```

if (error == EAI_SYSTEM)
    syslog(LOG_ERR, strerror(errno));
exit(1);
}
if ((int)sizeof(server_addr) < res->ai_addrlen) {
    syslog(LOG_ERR, "struct sockaddr_in* size unmatched.");
    exit(1);
}
family = res->ai_family;
memcpy(&server_addr, res->ai_addr, res->ai_addrlen);
freeaddrinfo(res);
/*
 * Open a socket, bind it to the FTP port, and start
 * listening.
 */
ctl_sock = socket(family, SOCK_STREAM, 0);
if (ctl_sock < 0) {
    syslog(LOG_ERR, "control socket: %m");
    exit(1);
}
if (setsockopt(ctl_sock, SOL_SOCKET, SO_REUSEADDR,
    (char *)&on, sizeof(on)) < 0)
    syslog(LOG_ERR, "control setsockopt: %m");;
#ifdef IPV6_V6ONLY
if (family == AF_INET6 && enable_v4 == 0) {
if (setsockopt(ctl_sock, IPPROTO_IPV6, IPV6_V6ONLY,
    (char *)&on, sizeof(on)) < 0)
    syslog(LOG_ERR,
        "control setsockopt(IPV6_V6ONLY): %m");
}
#endif /* IPV6_V6ONLY */
if (bind(ctl_sock, (struct sockaddr *)&server_addr,
    sizeof(server_addr))) {
    syslog(LOG_ERR, "control bind: %m");
    exit(1);
}
if (listen(ctl_sock, 32) < 0) {
    syslog(LOG_ERR, "control listen: %m");
    exit(1);
}
/*
 * Loop forever accepting connection requests and forking off
 * children to handle them.
 */
while (1) {
    addrlen = sizeof(his_addr);
    fd2 = accept(ctl_sock, (struct sockaddr *)&his_addr,
        &addrlen);

```

```

if (fork() == 0) {
    /* child */
    (void) dup2(fd2, 0);
    (void) dup2(fd2, 1);
    close(ctl_sock);
    break;
}
close(fd2);
}

#if defined(TCPWRAPPERS)
    /* ..in the child. */
    if (!check_host(&his_addr))
        exit(1);
#endif /* TCPWRAPPERS */
} else {
    addrlen = sizeof(his_addr);
    if (getpeername(0, (struct sockaddr *)&his_addr,
        &addrlen) < 0) {
        syslog(LOG_ERR, "getpeername (%s): %m", argv[0]);
        exit(1);
    }
}

(void) signal(SIGHUP, sigquit);
(void) signal(SIGINT, sigquit);
(void) signal(SIGQUIT, sigquit);
(void) signal(SIGTERM, sigquit);
(void) signal(SIGPIPE, lostconn);
(void) signal(SIGCHLD, SIG_IGN);
if (signal(SIGURG, myoob) == SIG_ERR)
    syslog(LOG_ERR, "signal: %m");

addrlen = sizeof(ctrl_addr);
if (getsockname(0, (struct sockaddr *)&ctrl_addr, &addrlen) < 0) {
    syslog(LOG_ERR, "getsockname (%s): %m", argv[0]);
    exit(1);
}
#ifdef IP_TOS
    if (ctrl_addr.su_family == AF_INET)
    {
        tos = IPTOS_LOWDELAY;
        if (setsockopt(0, IPPROTO_IP, IP_TOS, (char *)&tos, sizeof(int)) < 0)
            syslog(LOG_WARNING, "setsockopt (IP_TOS): %m");
    }
#endif
#ifdef INET6
    if (his_addr.su_family == AF_INET6 &&

```

```

    IN6_IS_ADDR_V4MAPPED(&his_addr.su_sin6.sin6_addr)) {
/*
 * IPv4 control connection arrived to AF_INET6 socket.
 * I hate to do this, but this is the easiest solution.
 */
struct sockaddr_in6 tmp_addr;

memcpy(&tmp_addr, &his_addr, sizeof(tmp_addr));
memset(&his_addr, 0, sizeof(his_addr));
his_addr.su_family = AF_INET;
his_addr.su_port = tmp_addr.sin6_port;
his_addr.su_sin.sin_addr.s_addr =
    tmp_addr.sin6_addr.s6_addr32[3];

memcpy(&tmp_addr, &ctrl_addr, sizeof(tmp_addr));
memset(&ctrl_addr, 0, sizeof(ctrl_addr));
ctrl_addr.su_family = AF_INET;
ctrl_addr.su_port = tmp_addr.sin6_port;
ctrl_addr.su_sin.sin_addr.s_addr =
    tmp_addr.sin6_addr.s6_addr32[3];
}
#endif
/* Try to handle urgent data inline */
#ifdef SO_OOBINLINE
if (setsockopt(0, SOL_SOCKET, SO_OOBINLINE, (char *)&on, sizeof(on)) < 0)
    syslog(LOG_ERR, "setsockopt: %m");
#endif

#ifdef F_SETOWN
if (fcntl(fileno(stdin), F_SETOWN, getpid()) == -1)
    syslog(LOG_ERR, "fcntl F_SETOWN: %m");
#endif
dolog(&his_addr);
/*
 * Set up default state
 */
data = -1;
type = TYPE_A;
form = FORM_N;
stru = STRU_F;
mode = MODE_S;
tmpline[0] = '\0';

/* If logins are disabled, print out the message. */
if ((fd = fopen(_PATH_NOLOGIN, "r")) != NULL) {
    while (fgets(line, sizeof(line), fd) != NULL) {
        if ((cp = strchr(line, '\n')) != NULL)
            *cp = '\0';
    }
}

```

```

    lreply(530, "%s", line);
}
(void) fflush(stdout);
(void) fclose(fd);
reply(530, "System not available.");
exit(0);
}
if ((fd = fopen(_PATH_FTPWELCOME, "r")) != NULL) {
while (fgets(line, sizeof(line), fd) != NULL) {
if ((cp = strchr(line, '\n')) != NULL)
*cp = '\0';
lreply(220, "%s", line);
}
(void) fflush(stdout);
(void) fclose(fd);
/* reply(220,) must follow */
}
(void) gethostname(hostname, sizeof(hostname));
// Modify by Jeffrey 2009/03/12
// To avoid hang when DNS resolve fail
reply(220, "%s FTP server (%s) ready.", hostname, version);
#if 0
/* Make sure hostname is fully qualified. */
memset(&hints, 0, sizeof(hints));
hints.ai_flags = AI_CANONNAME;
if (getaddrinfo(hostname, NULL, &hints, &res) == 0) {
strcpy(hostname, res->ai_canonname);
freeaddrinfo(res);
}

if (multihome) {
getnameinfo((struct sockaddr *)&ctrl_addr, sizeof(ctrl_addr),
dhostname, sizeof(dhostname), NULL, 0, 0);
}

reply(220, "%s FTP server (%s) ready.",
(multihome ? dhostname : hostname), version);
#endif

(void) setjmp(errcatch);
for (;;)
(void) yyparse();
/* NOTREACHED */
}

/*
* Signal handlers.
*/

```

```

static void
lostconn(int signo)
{
(void)signo;

if (debug)
    syslog(LOG_DEBUG, "lost connection");
dologout(-1);
}

static void sigquit(int signo)
{
    syslog(LOG_ERR, "got signal %s", strsignal(signo));

    dologout(-1);
}

/*
 * Helper function for sgetpwnam().
 */
static char * sgetsave(char *s)
{
    char *new = malloc((unsigned) strlen(s) + 1);

    if (new == NULL) {
        perror_reply(421, "Local resource failure: malloc");
        dologout(1);
        /* NOTREACHED */
    }
    (void) strcpy(new, s);
    return (new);
}

/*
 * Save the result of a getpwnam. Used for USER command, since
 * the data returned must not be clobbered by any other command
 * (e.g., globbing).
 */
static struct passwd *sgetpwnam(const char *name)
{
    static struct passwd save;
    struct passwd *p;

    if ((p = getpwnam(name)) == NULL)
        return (p);
#ifdef USE_SHADOW
    if ((spw = getsppnam(name)) != NULL)

```

```

    p->pw_passwd = spw->sp_pwdp;
    endspent(); /* ? */
#endif
if (save.pw_name) {
    free(save.pw_name);
    memset(save.pw_passwd, 0, strlen(save.pw_passwd));
    free(save.pw_passwd);
    free(save.pw_gecos);
    free(save.pw_dir);
    free(save.pw_shell);
}
save = *p;
save.pw_name = sgetsave(p->pw_name);
save.pw_passwd = sgetsave(p->pw_passwd);
save.pw_gecos = sgetsave(p->pw_gecos);
save.pw_dir = sgetsave(p->pw_dir);
save.pw_shell = sgetsave(p->pw_shell);
return (&save);
}

static int login_attempts; /* number of failed login attempts */
static int askpasswd; /* had user command, ask for passwd */
static char curname[16]; /* current USER name */

/*
 * USER command.
 * Sets global passwd pointer pw if named account exists and is acceptable;
 * sets askpasswd if a PASS command is expected. If logged in previously,
 * need to reset state. If name is "ftp" or "anonymous", the name is not in
 * _PATH_FTPUSERS, and ftp account exists, set guest and pw, then just return.
 * If account doesn't exist, ask for passwd anyway. Otherwise, check user
 * requesting login privileges. Disallow anyone who does not have a standard
 * shell as returned by getusershell(). Disallow anyone mentioned in the file
 * _PATH_FTPUSERS to allow people such as root and uucp to be avoided.
 */
void user(char *name)
{
    const char *cp, *shell;

    if (logged_in) {
        if (guest) {
            reply(530, "Can't change user from guest login.");
            return;
        } else if (dochroot) {
            reply(530, "Can't change user from chroot user.");
            return;
        }
    }
    end_login();

```

```

}

guest = 0;
if (strcmp(name, "ftp") == 0 || strcmp(name, "anonymous") == 0) {
if (checkuser(_PATH_FTPUSERS, "ftp") ||
    checkuser(_PATH_FTPUSERS, "anonymous"))
    reply(530, "User %s access denied.", name);
else if ((pw = sgetpwnam("ftp")) != NULL) {
    guest = 1;
    askpasswd = 1;
    reply(331,
        "Guest login ok, type your name as password.");
} else
    reply(530, "User %s unknown.", name);
if (!askpasswd && logging)
    syslog(LOG_NOTICE,
        "ANONYMOUS FTP LOGIN REFUSED FROM %s", remotehost);
return;
}
if (anon_only && !checkuser(_PATH_FTPCHROOT, name)) {
    reply(530, "Sorry, only anonymous ftp allowed.");
    return;
}

if ((pw = sgetpwnam(name)) != NULL) {
if ((shell = pw->pw_shell) == NULL || *shell == 0)
    shell = _PATH_BSHELL;
while ((cp = getusershell()) != NULL)
    if (strcmp(cp, shell) == 0)
        break;
endusershell();

if (cp == NULL || checkuser(_PATH_FTPUSERS, name)) {
    reply(530, "User %s access denied.", name);
    if (logging)
        syslog(LOG_NOTICE,
            "FTP LOGIN REFUSED FROM %s, %s",
            remotehost, name);
    pw = (struct passwd *) NULL;
    return;
}
}
if (logging) {
    strncpy(curname, name, sizeof(curname)-1);
    curname[sizeof(curname)-1] = '\0';
}
#ifdef SKEY
if (!skey_haskey(name)) {

```

```

char *myskey, *skey_keyinfo __P((char *name));

myskey = skey_keyinfo(name);
reply(331, "Password [ %s ] for %s required.",
    myskey ? myskey : "error getting challenge", name);
} else
#endif
reply(331, "Password required for %s.", name);

askpasswd = 1;
/*
 * Delay before reading passwd after first failed
 * attempt to slow down passwd-guessing programs.
 */
if (login_attempts)
    sleep((unsigned) login_attempts);
}

/*
 * Check if a user is in the file "fname"
 */
static int checkuser(const char *fname, const char *name)
{
    FILE *fd;
    int found = 0;
    char *p, line[BUFSIZ];

    if ((fd = fopen(fname, "r")) != NULL) {
        while (fgets(line, sizeof(line), fd) != NULL)
            if ((p = strchr(line, '\n')) != NULL) {
                *p = '\0';
                if (line[0] == '#')
                    continue;
                if (strcmp(line, name) == 0) {
                    found = 1;
                    break;
                }
            }
        (void) fclose(fd);
    }
    return (found);
}

/*
 * Terminate login as previous user, if any, resetting state;
 * used when USER command is given or login fails.
 */
static void end_login(void)

```

```

{
sigset_t allsigs;
sigfillset (&allsigs);
sigprocmask (SIG_BLOCK, &allsigs, NULL);
(void) seteuid((uid_t)0);
if (logged_in) {
ftpdlogwtmp(ttyline, "", "");
if (doutmp)
logout(utmp.ut_line);
}
pw = NULL;
logged_in = 0;
guest = 0;
dochroot = 0;
}

void pass(char *passwd)
{
int rval;
FILE *fd;
static char homedir[MAXPATHLEN];
char rootdir[MAXPATHLEN];
sigset_t allsigs;

if (logged_in || askpasswd == 0) {
reply(503, "Login with USER first.");
return;
}
askpasswd = 0;
if (!guest) { /* "ftp" is only account allowed no password */
if (pw == NULL) {
useconds_t us;

/* Sleep between 1 and 3 seconds to emulate a crypt. */
#ifdef __linux__
us = arc4random() % 3000000;
#else
us = random() % 3000000;
#endif
usleep(us);
rval = 1; /* failure below */
goto skip;
}
#ifdef KERBEROS
rval = klogin(pw, "", hostname, passwd);
if (rval == 0)
goto skip;
#endif
}
}

```

```

#ifdef SKEY
if (skey_haskey(pw->pw_name) == 0 &&
    (skey_passcheck(pw->pw_name, passwd) != -1)) {
    rval = 0;
    goto skip;
}
#endif
/* the strcmp does not catch null passwords! */
if (strcmp(crypt(passwd, pw->pw_passwd), pw->pw_passwd)
#ifdef 0
    || *pw->pw_passwd == '\0'
#endif
) {
    rval = 1; /* failure */
    goto skip;
}
rval = 0;

skip:
/*
 * If rval == 1, the user failed the authentication check
 * above. If rval == 0, either Kerberos or local authentication
 * succeeded.
 */
if (rval) {
    reply(530, "Login incorrect.");
    if (logging)
        syslog(LOG_NOTICE,
            "FTP LOGIN FAILED FROM %s, %s",
            remotehost, curname);
    pw = NULL;
    if (login_attempts++ >= 5) {
        syslog(LOG_NOTICE,
            "repeated login failures from %s",
            remotehost);
        exit(0);
    }
    return;
} else {
    /* Save anonymous' password. */
    guestpw = strdup(passwd);
    if (guestpw == (char *)NULL)
        fatal("Out of memory");
}
login_attempts = 0; /* this time successful */
#ifdef USE_SHADOW
switch (isexpired(spw)) {

```

```

case 0: /* success */
break;
case 1:
syslog(LOG_NOTICE, "expired password from %s, %s",
    remotehost, pw->pw_name);
reply(530, "Please change your password and try again.");
return;
case 2:
    syslog(LOG_NOTICE, "inactive login from %s, %s",
        remotehost, pw->pw_name);
reply(530, "Login inactive -- contact administrator.");
return;
case 3:
syslog(LOG_NOTICE, "expired login from %s, %s",
    remotehost, pw->pw_name);
reply(530, "Account expired -- contact administrator.");
return;
}
#endif
if (setegid((gid_t)pw->pw_gid) < 0) {
reply(550, "Can't set gid.");
return;
}
(void) initgroups(pw->pw_name, pw->pw_gid);

/* open wtmp before chroot */
ftpdlogwtmp(ttyline, pw->pw_name, remotehost);

/* open utmp before chroot */
if (doutmp) {
memset((void *)&utmp, 0, sizeof(utmp));
(void)time(&utmp.ut_time);
(void)strncpy(utmp.ut_name, pw->pw_name, sizeof(utmp.ut_name));
(void)strncpy(utmp.ut_host, remotehost, sizeof(utmp.ut_host));
(void)strncpy(utmp.ut_line, ttyline, sizeof(utmp.ut_line));
login(&utmp);
}

/* open stats file before chroot */
if (guest && (stats == 1) && (statfd < 0))
if ((statfd = open(_PATH_FTPDSTATFILE, O_WRONLY|O_APPEND)) < 0)
stats = 0;

logged_in = 1;

dochroot = checkuser(_PATH_FTPCHROOT, pw->pw_name);
if (guest || dochroot) {
if (multihome && guest) {

```

```

struct stat ts;

/* Compute root directory. */
snprintf(rootdir, sizeof(rootdir), "%s/%s",
    pw->pw_dir, dhostname);
if (stat(rootdir, &ts) < 0) {
    snprintf(rootdir, sizeof(rootdir), "%s/%s",
        pw->pw_dir, hostname);
    }
} else
    strcpy(rootdir, pw->pw_dir);
}
if (guest) {
    /*
    * We MUST do a chdir() after the chroot. Otherwise
    * the old current directory will be accessible as "."
    * outside the new root!
    */
    if (chroot(rootdir) < 0 || chdir("/") < 0) {
        reply(550, "Can't set guest privileges.");
        goto bad;
    }
    strcpy(pw->pw_dir, "/");
    setenv("HOME", "/", 1);
} else if (dochroot) {
    if (chroot(rootdir) < 0 || chdir("/") < 0) {
        reply(550, "Can't change root.");
        goto bad;
    }
    strcpy(pw->pw_dir, "/");
    setenv("HOME", "/", 1);
} else if (chdir(pw->pw_dir) < 0) {
    if (chdir("/") < 0) {
        reply(530, "User %s: can't change directory to %s.",
            pw->pw_name, pw->pw_dir);
        goto bad;
    } else
        reply(230, "No directory! Logging in with home=/");
}
if (seteuid((uid_t)pw->pw_uid) < 0) {
    reply(550, "Can't set uid.");
    goto bad;
}
sigfillset(&allsigs);
sigprocmask(SIG_UNBLOCK, &allsigs, NULL);

/*
* Set home directory so that use of ~ (tilde) works correctly.

```

```

*/
if (getcwd(homedir, MAXPATHLEN) != NULL)
    setenv("HOME", homedir, 1);

/*
 * Display a login message, if it exists.
 * N.B. reply(230,) must follow the message.
 */
if ((fd = fopen(_PATH_FTPLOGINMESG, "r")) != NULL) {
    char *cp, line[LINE_MAX];

    while (fgets(line, sizeof(line), fd) != NULL) {
        if ((cp = strchr(line, '\n')) != NULL)
            *cp = '\0';
        lreply(230, "%s", line);
    }
    (void) fflush(stdout);
    (void) fclose(fd);
}
if (guest) {
    if (ident != NULL)
        free(ident);
    ident = strdup(passwd);
    if (ident == (char *)NULL)
        fatal("Ran out of memory.");
    reply(230, "Guest login ok, access restrictions apply.");
#ifdef HASSETPROCTITLE
    snprintf(proctitle, sizeof(proctitle),
        "%s: anonymous/%. *s", remotehost,
        (int)(sizeof(proctitle) - sizeof(remotehost) -
        sizeof(": anonymous/")), passwd);
    setproctitle("%s", proctitle);
#endif /* HASSETPROCTITLE */
    if (logging)
        syslog(LOG_INFO, "ANONYMOUS FTP LOGIN FROM %s, %s",
            remotehost, passwd);
    } else {
        reply(230, "User %s logged in.", pw->pw_name);
#ifdef HASSETPROCTITLE
        snprintf(proctitle, sizeof(proctitle),
            "%s: %s", remotehost, pw->pw_name);
        setproctitle("%s", proctitle);
#endif /* HASSETPROCTITLE */
    if (logging)
        syslog(LOG_INFO, "FTP LOGIN FROM %s as %s",
            remotehost, pw->pw_name);
    }
    (void) umask(defumask);

```

```

return;
bad:
/* Forget all about it... */
end_login();
}

void retrieve(const char *cmd, const char *name)
{
FILE *fin, *fout;
struct stat st;
int (*closefunc) __P((FILE *));
time_t start;

if (cmd == 0) {
fin = fopen(name, "r"), closefunc = fclose;
st.st_size = 0;
} else {
char line[BUFSIZ];

(void) snprintf(line, sizeof(line), cmd, name);
name = line;
fin = ftpd_popen(line, "r"), closefunc = ftpd_pclose;
st.st_size = -1;
st.st_blksize = BUFSIZ;
}
if (fin == NULL) {
if (errno != 0) {
perror_reply(550, name);
if (cmd == 0) {
LOGCMD("get", name);
}
}
return;
}
byte_count = -1;
if (cmd == 0 && (fstat(fileno(fin), &st) < 0 || !S_ISREG(st.st_mode))) {
reply(550, "%s: not a plain file.", name);
goto done;
}
if (restart_point) {
if (type == TYPE_A) {
off_t i, n;
int c;

n = restart_point;
i = 0;
while (i++ < n) {
if ((c=getc(fin)) == EOF) {

```

```

    perror_reply(550, name);
    goto done;
}
if (c == '\n')
    i++;
}
} else if (lseek(fileno(fin), restart_point, SEEK_SET) < 0) {
    perror_reply(550, name);
    goto done;
}
}
dout = dataconn(name, st.st_size, "w");
if (dout == NULL)
    goto done;
time(&start);
send_data(fin, dout, st.st_blksize, st.st_size,
    (restart_point == 0 && cmd == 0 && S_ISREG(st.st_mode)));
if ((cmd == 0) && stats)
    logxfer(name, st.st_size, start);
(void) fclose(dout);
data = -1;
pdata = -1;
done:
if (cmd == 0)
    LOGBYTES("get", name, byte_count);
(*closefunc)(fin);
}

```

```

#if 0
void store(const char *name, const char *mode, int unique)
{

```

```

    FILE *fout, *din;
    int (*closefunc) __P((FILE *));
    struct stat st;
    int fd;

```

```

    if (unique && stat(name, &st) == 0) {
        char *nam;

```

```

        fd = guniquefd(name, &nam);
        if (fd == -1) {
            LOGCMD(*mode == 'w' ? "put" : "append", name);
            return;
        }

```

```

        name = nam;
        if (restart_point)
            mode = "r+";
        fout = fdopen(fd, mode);

```

```

} else
fout = fopen(name, mode);

closefunc = fclose;
if (fout == NULL) {
perror_reply(553, name);
LOGCMD(*mode == 'w' ? "put" : "append", name);
return;
}
byte_count = -1;
if (restart_point) {
if (type == TYPE_A) {
off_t i, n;
int c;

n = restart_point;
i = 0;
while (i++ < n) {
if ((c=getc(fout)) == EOF) {
perror_reply(550, name);
goto done;
}
if (c == '\n')
i++;
}
/*
* We must do this seek to "current" position
* because we are changing from reading to
* writing.
*/
if (fseek(fout, 0L, SEEK_CUR) < 0) {
perror_reply(550, name);
goto done;
}
} else if (lseek(fileno(fout), restart_point, SEEK_SET) < 0) {
perror_reply(550, name);
goto done;
}
}
din = dataconn(name, (off_t)-1, "r");
if (din == NULL)
goto done;
if (receive_data(din, fout) == 0) {
if (unique)
reply(226, "Transfer complete (unique file name:%s).",
name);
else
reply(226, "Transfer complete.");
}
}

```

```

}
(void) fclose(din);
data = -1;
pdata = -1;
done:
LOGBYTES(*mode == 'w' ? "put" : "append", name, byte_count);
(*closefunc)(fout);
}
#else
void store (const char *name, const char *mode, int unique)
{
FILE *fout, *din;
struct stat st;
int (*closefunc) __P ((FILE *));
int ireboot = 0;

if (unique && stat (name, &st) == 0
    && (name = gunique (name)) == NULL)
{
LOGCMD (*mode == 'w' ? "put" : "append", name);
return;
}

if (restart_point)
mode = "r+";
// upgrade must use BINARY mode
if ((strcmp(name, "flash.pkg") == 0 || strcmp(name, "flashall.bin") == 0 ||
//  strcmp(name, "flash.bin") == 0 || strcmp(name, "l1boot.bin") == 0 ||
//  strcmp(name, "l1loader.bin") == 0 || strcmp(name, "l2boot.bin") == 0) &&
strcmp(name, "flash.bin") == 0 || strcmp(name, "l1all.bin") == 0 ||
strcmp(name, "l2boot.bin") == 0) && type == TYPE_A)
{
perror_reply (553, "Use BINARY mode to upgrade firmware");
return;
}
// modify by Jason for unpack pkg firmware file
/* if (strcmp(name, "flash.pkg") == 0)*/
/* {*/
/*  fout = popen("update_firmpkg FTP", "w");*/
/*  closefunc = pclose;*/
/* }*/
/* else*/
{
fout = fopen (name, mode);
closefunc = fclose;
}
if (fout == NULL)
{

```

```

    perror_reply (553, name);
    LOGCMD (*mode == 'w' ? "put" : "append", name);
    return;
}
byte_count = -1;
if (restart_point)
{
    if (type == TYPE_A)
{
    off_t i, n;
    int c;

    n = restart_point;
    i = 0;
    while (i++ < n)
    {
        c = getc (fout);
        if (c == EOF)
        {
            perror_reply (550, name);
            goto done;
        }
        if (c == '\n')
            i++;
    }
    /* We must do this seek to "current" position
    because we are changing from reading to
    writing. */
    if (fseek (fout, 0L, SEEK_CUR) < 0)
    {
        perror_reply (550, name);
        goto done;
    }
}
    else if (lseek (fileno(fout), restart_point, SEEK_SET) < 0)
{
    perror_reply (550, name);
    goto done;
}
}
din = dataconn (name, (off_t)-1, "r");
if (din == NULL)
    goto done;
// modify by Jason for unpack pkg firmware file
if (strcmp(name, "flash.pkg") == 0 ||
    strcmp(name, "flashall.bin") == 0 ||
    strcmp(name, "flash.bin") == 0 ||
    strcmp(name, "l1all.bin") == 0 ||

```

```

    strcmp(name, "l2boot.bin") == 0)
{
    printf("214-firmware upgrade begin\n");
fflush(stdout);
}
if (receive_data (din, fout) == 0)
{
    if (unique)
        reply (226, "Transfer complete (unique file name:%s).", name);
    else
    {
        // modified by Jason, for upgrade firmware
        if (strcmp(name, "flashall.bin") == 0)
        {
            printf("Upgrade ROM image\n");
fflush(stdout);
system("/usr/bin/ledctrl -f /tmp/led.fifo -r ENABLE=FW_UPGRADE");
            system("/etc/init.d/httpd stop > /dev/null");
            system("/etc/init.d/inetd stop > /dev/null");
            system("run-parts -a stop /etc/rcK.d > /dev/null");
            system("/etc/init.d/configer stop > /dev/null");
            system("umount -l /mnt/flash*");
            // PE requirement: If upgrade ROM fail, retry infinitely
            {
                signal(SIGCHLD, SIG_DFL);
                int status=255;
                do {
                    status = system("/usr/bin/flashmgr writeall /mnt/ramdisk/flashall.bin");
                } while (WEXITSTATUS(status) != 0);
                signal(SIGCHLD, SIG_IGN);
            }
system("flashmgr eraseFS");
            ireboot = 1;
        }
        else if (strcmp(name, "flash.pkg") == 0)
        {
            system("update_firmpkg FTP");
        }
        else if (strcmp(name, "flash.bin") == 0)
        {
            printf("Upgrade system image\n");
fflush(stdout);
            system("/etc/init.d/farseer stop > /dev/null");
            system("/etc/init.d/inetd stop > /dev/null");
            system("/usr/bin/flashmgr writebootp /mnt/ramdisk/flash.bin");
            ireboot = 1;
        }
        else if (strcmp(name, "l1all.bin") == 0)

```

```

    {
        printf("Upgrade L1 bootloader image\n");
        fflush(stdout);
        system("/usr/bin/flashmgr writel1boot /mnt/ramdisk/l1all.bin");
        ireboot = 1;
    }
    else if (strcmp(name, "l2boot.bin") == 0)
    {
        printf("Upgrade L2 boot image\n");
        fflush(stdout);
        system("/usr/bin/flashmgr writel2boot /mnt/ramdisk/l2boot.bin");
        ireboot = 1;
    }
    // modified by Jason, for upload config.ini
    else if (strcmp(name, "config.ini") == 0)
    {
        system("/usr/bin/reloadconfigini");
    }

    if (ireboot == 1)
    {
        printf("Rebooting system now !!\n");
        printf("This connection will close\n");
        printf("214 firmware upgrade exit\n");
        reply (226, "Transfer complete.");
        fflush(stdout);
        system("reboot");
    }
    if (strcmp(name, "flash.pkg") != 0)
    {
        reply (226, "Transfer complete.");
    }
}

(void) fclose (din);
data = -1;
pdata = -1;
done:
LOGBYTES (*mode == 'w' ? "put" : "append", name, byte_count);
(*closefunc) (fout);
}
#endif

static FILE * getdatasock(const char *mode)
{
    int on = 1, s, t, tries;
    sigset_t allsigs;

```

```

if (data >= 0)
    return (fdopen(data, mode));
sigfillset(&allsigs);
sigprocmask (SIG_BLOCK, &allsigs, NULL);
(void) seteuid((uid_t)0);
s = socket(data_dest.su_family, SOCK_STREAM, 0);
if (s < 0)
    goto bad;
if (setsockopt(s, SOL_SOCKET, SO_REUSEADDR,
    (char *) &on, sizeof(on)) < 0)
    goto bad;
/* anchor socket to avoid multi-homing problems */
#ifdef __linux__
data_source.sin_len = sizeof(struct sockaddr_in);
#endif
data_source = ctrl_addr;
data_source.su_port = htons(ntohs(ctrl_addr.su_port) - 1);
for (tries = 1; ; tries++) {
    if (bind(s, (struct sockaddr *)&data_source,
        sizeof(data_source)) >= 0)
        break;
    if (errno != EADDRINUSE || tries > 10)
        goto bad;
    sleep(tries);
}
(void) seteuid((uid_t)pw->pw_uid);
sigfillset(&allsigs);
sigprocmask (SIG_UNBLOCK, &allsigs, NULL);

#ifdef IP_TOS
if (data_source.su_family == AF_INET)
{
    on = IPTOS_THROUGHPUT;
    if (setsockopt(s, IPPROTO_IP, IP_TOS, (char *)&on, sizeof(int)) < 0)
        syslog(LOG_WARNING, "setsockopt (IP_TOS): %m");
}
#endif
#ifdef TCP_NOPUSH
/*
 * Turn off push flag to keep sender TCP from sending short packets
 * at the boundaries of each write(). Should probably do a SO_SNDBUF
 * to set the send buffer size as well, but that may not be desirable
 * in heavy-load situations.
 */
on = 1;
if (setsockopt(s, IPPROTO_TCP, TCP_NOPUSH, (char *)&on, sizeof on) < 0)
    syslog(LOG_WARNING, "setsockopt (TCP_NOPUSH): %m");

```

```

#endif
#if 0 /* Respect the user's settings */
#ifdef SO_SNDBUF
on = 65536;
if (setsockopt(s, SOL_SOCKET, SO_SNDBUF, (char *)&on, sizeof on) < 0)
syslog(LOG_WARNING, "setsockopt (SO_SNDBUF): %m");
#endif
#endif

return (fdopen(s, mode));
bad:
/* Return the real value of errno (close may change it) */
t = errno;
(void) seteuid((uid_t)pw->pw_uid);
sigfillset (&allsigs);
sigprocmask (SIG_UNBLOCK, &allsigs, NULL);
(void) close(s);
errno = t;
return (NULL);
}

static FILE * dataconn(const char *name, off_t size, const char *mode)
{
char sizebuf[32];
FILE *file;
int retry = 0, tos;

file_size = size;
byte_count = 0;
if (size != (off_t) -1) {
(void) snprintf(sizebuf, sizeof(sizebuf), "(%lld bytes)",
(quad_t) size);
} else
sizebuf[0] = '\0';
if (pdata >= 0) {
union sockunion from;
int s;
socklen_t fromlen = sizeof(from);

signal (SIGALRM, tolong);
(void) alarm ((unsigned) timeout);
s = accept(pdata, (struct sockaddr *)&from, &fromlen);
(void) alarm (0);
if (s < 0) {
reply(425, "Can't open data connection.");
(void) close(pdata);
pdata = -1;
return (NULL);
}
}
}

```

```

}
if (ntohs(from.su_port) < IPPORT_RESERVED) {
    perror_reply(425, "Can't build data connection");
    (void) close(pdata);
    (void) close(s);
    pdata = -1;
    return (NULL);
}
if ((from.su_family == AF_INET &&
    from.su_sin.sin_addr.s_addr !=
    his_addr.su_sin.sin_addr.s_addr)
#ifdef INET6
    || (from.su_family == AF_INET6 &&
    !IN6_ARE_ADDR_EQUAL(&from.su_sin6.sin6_addr,
    &his_addr.su_sin6.sin6_addr))
#endif
) {
    perror_reply(435, "Can't build data connection");
    (void) close(pdata);
    (void) close(s);
    pdata = -1;
    return (NULL);
}
(void) close(pdata);
pdata = s;
#ifdef IP_TOS
if (from.su_family == AF_INET)
{
    tos = IPTOS_THROUGHPUT;
    (void) setsockopt(s, IPPROTO_IP, IP_TOS, (char *)&tos,
        sizeof(int));
}
#endif
reply(150, "Opening %s mode data connection for '%s'%s.",
    type == TYPE_A ? "ASCII" : "BINARY", name, sizebuf);
return (fdopen(pdata, mode));
}
if (data >= 0) {
    reply(125, "Using existing data connection for '%s'%s.",
        name, sizebuf);
    usedefault = 1;
    return (fdopen(data, mode));
}
if (usedefault)
    data_dest = his_addr;
usedefault = 1;
file = getdatasock(mode);
if (file == NULL) {

```

```

char hbuf[MAXHOSTNAMELEN], pbuf[10];

getnameinfo((struct sockaddr*)&data_source, sizeof(data_source),
    hbuf, sizeof(hbuf), pbuf, sizeof(pbuf),
    NI_NUMERICHOST | NI_NUMERICSERV);
reply(425, "Can't create data socket (%s,%d): %s.",
    hbuf, pbuf, strerror(errno));
return (NULL);
}
data = fileno(file);

/*
 * attempt to connect to reserved port on client machine;
 * this looks like an attack
 */
if (ntohs(data_dest.su_port) < IPPORT_RESERVED ||
    ntohs(data_dest.su_port) == 2049) { /* XXX */
    perror_reply(425, "Can't build data connection");
    (void) fclose(file);
    data = -1;
    return NULL;
}
if ((data_dest.su_family == AF_INET &&
    data_dest.su_sin.sin_addr.s_addr !=
    his_addr.su_sin.sin_addr.s_addr)
#ifdef INET6
    || (data_dest.su_family == AF_INET6 &&
    !IN6_ARE_ADDR_EQUAL(&data_dest.su_sin6.sin6_addr,
        &his_addr.su_sin6.sin6_addr))
#endif
) {
    perror_reply(435, "Can't build data connection");
    (void) fclose(file);
    data = -1;
    return NULL;
}
while (connect(data, (struct sockaddr *)&data_dest,
    sizeof(data_dest)) < 0) {
    if (errno == EADDRINUSE && retry < swaitmax) {
        sleep((unsigned) swaitint);
        retry += swaitint;
        continue;
    }
    perror_reply(425, "Can't build data connection");
    (void) fclose(file);
    data = -1;
    return (NULL);
}

```

```

reply(150, "Opening %s mode data connection for '%s'%s.",
    type == TYPE_A ? "ASCII" : "BINARY", name, sizebuf);
return (file);
}

/*
 * Transfer the contents of "instr" to "outstr" peer using the appropriate
 * encapsulation of the data subject to Mode, Structure, and Type.
 *
 * NB: Form isn't handled.
 */
static void send_data(FILE *instr, FILE *outstr, off_t blksize, off_t filesize, int isreg)
{
    int c, cnt, filefd, netfd;
    char *buf, *bp;
    size_t len, size;

    transflag++;
    if (setjmp(urgcatch)) {
        transflag = 0;
        return;
    }
    switch (type) {

    case TYPE_A:
        while ((c = getc(instr)) != EOF) {
            byte_count++;
            if (c == '\n') {
                if (ferror(outstr))
                    goto data_err;
                (void) putc('\r', outstr);
            }
            (void) putc(c, outstr);
        }
        fflush(outstr);
        transflag = 0;
        if (ferror(instr))
            goto file_err;
        if (ferror(outstr))
            goto data_err;
        reply(226, "Transfer complete.");
        return;

    case TYPE_I:
    case TYPE_L:
        /*
         * isreg is only set if we are not doing restart and we
         * are sending a regular file

```

```

*/
netfd = fileno(outstr);
filefd = fileno(instr);

if (isreg && filesize < (off_t)16 * 1024 * 1024) {
    buf = mmap(0, filesize, PROT_READ, MAP_SHARED, filefd,
        (off_t)0);
    if (buf==MAP_FAILED || buf==NULL) {
        syslog(LOG_WARNING, "mmap(%lu): %m",
            (unsigned long)filesize);
        goto oldway;
    }
    bp = buf;
    len = filesize;
    do {
        cnt = write(netfd, bp, len);
        len -= cnt;
        bp += cnt;
        if (cnt > 0) byte_count += cnt;
    } while(cnt > 0 && len > 0);

    transflag = 0;
    munmap(buf, (size_t)filesize);
    if (cnt < 0)
        goto data_err;
    reply(226, "Transfer complete.");
    return;
}

oldway:
size = blksize * 16;

if ((buf = malloc(size)) == NULL) {
    transflag = 0;
    perror_reply(451, "Local resource failure: malloc");
    return;
}

#ifdef TCP_CORK
{
    int on = 1;
    setsockopt(netfd, SOL_TCP, TCP_CORK, &on, sizeof on);
    /* failure is harmless */
}
#endif
while ((cnt = read(filefd, buf, size)) > 0 &&
    write(netfd, buf, cnt) == cnt)
    byte_count += cnt;

```

```

#ifdef TCP_CORK
{
int off = 0;
setsockopt(netfd, SOL_TCP, TCP_CORK, &off, sizeof off);
}
#endif
transflag = 0;
(void)free(buf);
if (cnt != 0) {
if (cnt < 0)
goto file_err;
goto data_err;
}
reply(226, "Transfer complete.");
return;
default:
transflag = 0;
reply(550, "Unimplemented TYPE %d in send_data", type);
return;
}

data_err:
transflag = 0;
perror_reply(426, "Data connection");
return;

file_err:
transflag = 0;
perror_reply(551, "Error on input file");
}

/*
* Transfer data from peer to "outstr" using the appropriate encapsulation of
* the data subject to Mode, Structure, and Type.
*
* N.B.: Form isn't handled.
*/
static int receive_data(FILE *instr, FILE *outstr)
{
int c;
int cnt;
volatile int bare_lfs = 0;
char buf[BUFSIZ];

transflag++;
if (setjmp(urgcatch)) {
transflag = 0;
return (-1);
}

```

```

}
switch (type) {

case TYPE_I:
case TYPE_L:
    signal (SIGALRM, lostconn);

    do {
        (void) alarm ((unsigned) timeout);
        cnt = read(fileno(instr), buf, sizeof(buf));
        (void) alarm (0);

        if (cnt > 0) {
            if (write(fileno(outstr), buf, cnt) != cnt)
                goto file_err;
            byte_count += cnt;
        }
    } while (cnt > 0);
    if (cnt < 0)
        goto data_err;
    transflag = 0;
    return (0);

case TYPE_E:
    reply(553, "TYPE E not implemented.");
    transflag = 0;
    return (-1);

case TYPE_A:
    while ((c = getc(instr)) != EOF) {
        byte_count++;
        if (c == '\n')
            bare_lfs++;
        while (c == '\r') {
            if (ferror(outstr))
                goto data_err;
            if ((c = getc(instr)) != '\n') {
                (void) putc ('\r', outstr);
                if (c == '\0' || c == EOF)
                    goto contin2;
            }
        }
        (void) putc(c, outstr);
    }
    contin2: ;
}
fflush(outstr);
if (ferror(instr))
    goto data_err;

```

```

if (ferror(outstr))
    goto file_err;
transflag = 0;
if (bare_lfs) {
    lreply(226,
"WARNING! %d bare linefeeds received in ASCII mode",
        bare_lfs);
(void)printf(" File may not have transferred correctly.\r\n");
}
return (0);
default:
reply(550, "Unimplemented TYPE %d in receive_data", type);
transflag = 0;
return (-1);
}

```

```

data_err:
transflag = 0;
perror_reply(426, "Data Connection");
return (-1);

```

```

file_err:
transflag = 0;
perror_reply(452, "Error writing file");
return (-1);
}

```

```

void statfilecmd(char *filename)
{
    FILE *fin;
    int c;
    char line[LINE_MAX];

(void)snprintf(line, sizeof(line), "/bin/ls -lgA %s", filename);
fin = ftpd_popen(line, "r");
lreply(211, "status of %s:", filename);
while ((c = getc(fin)) != EOF) {
    if (c == '\n') {
        if (ferror(stdout)){
            perror_reply(421, "control connection");
            (void) ftpd_pclose(fin);
            dologout(1);
            /* NOTREACHED */
        }
        if (ferror(fin)) {
            perror_reply(551, filename);
            (void) ftpd_pclose(fin);
            return;
        }
    }
}

```

```

    }
    (void) putc('\r', stdout);
}
(void) putc(c, stdout);
}
(void) ftpd_pclose(fin);
reply(211, "End of Status");
}

void statcmd(void)
{
char hbuf[MAXHOSTNAMELEN];

lreply(211, "%s FTP server status:", hostname, version);
printf("  %s\r\n", version);
printf("  Connected to %s", remotehost);
getnameinfo((struct sockaddr *)&his_addr, sizeof(his_addr),
  hbuf, sizeof(hbuf), NULL, 0, NI_NUMERICHOST);
if (strcmp(remotehost, hbuf) != 0)
  printf(" (%s)", hbuf);
printf("\r\n");
if (logged_in) {
  if (guest)
    printf("  Logged in anonymously\r\n");
  else
    printf("  Logged in as %s\r\n", pw->pw_name);
} else if (askpasswd)
  printf("  Waiting for password\r\n");
else
  printf("  Waiting for user name\r\n");
printf("  TYPE: %s", typenames[type]);
if (type == TYPE_A || type == TYPE_E)
  printf(", FORM: %s", formnames[form]);
if (type == TYPE_L)
#if CHAR_BIT == 8
  printf(" %d", CHAR_BIT);
#else
  printf(" %d", bytesize); /* need definition! */
#endif
printf("; STRUcture: %s; transfer MODE: %s\r\n",
  strunames[stru], modenames[mode]);
printstataddrinfo();
reply(211, "End of status");
}

static void
printstataddrinfo(void)
{

```

```

int i, ispsv, af = 0; int alen = 0;
union sockunion *su;
u_char *p, *a = NULL;
char hbuf[MAXHOSTNAMELEN];

if (epsvall)
    printf("  EPSV only mode (EPSV ALL)\r\n");

ispsv = pdata != -1 ? 1 : 0;

if (data != -1 || ispsv || usedefault == 0) {
    printf("  Data connection open\r\n");
} else {
    printf("  No data connection\r\n");
    return;
}

su = ispsv ? &pasv_addr : &data_dest;

if (su->su_family == AF_INET) {
    a = (u_char *) &su->su_sin.sin_addr;
    alen = sizeof(su->su_sin.sin_addr);
    af = 4;
#ifdef INET6
} else if (su->su_family == AF_INET6) {
    a = (u_char *) &su->su_sin6.sin6_addr;
    alen = sizeof(su->su_sin6.sin6_addr);
    af = 6;
#endif
}

p = (u_char *) &su->su_port;

if (epsvall == 0) {
    /* PORT/PASV */
    if (alen == 4) {
        printf("  %s (%u,%u,%u,%u,%u,%u)\r\n",
            ispsv ? "PASV" : "PORT",
            a[0], a[1], a[2], a[3], p[0], p[1]);
    }
    /* LPRT/LPSV */
    if (alen > 0) {
        printf("  %s (%d,%d,",
            ispsv ? "LPSV" : "LPRT", af, alen);
        for (i = 0; i < alen; i++)
            printf("%u,", a[i]);
        printf("%u,%u,%u)\r\n", 2, p[0], p[1]);
    }
}

```

```

}
/* EPRT/EPVS */
if (a && getnameinfo((struct sockaddr *)su, sizeof(pasv_addr),
    hbuf, sizeof(hbuf), NULL, 0, NI_NUMERICHOST) == 0) {
    printf("    %s |%d|%s|%d|\r\n",
        ispsv ? "EPSV" : "EPRT", ex_af2prot(su->su_family),
        hbuf, htons(su->su_port));
}
}
}

```

```

void fatal(const char *s)

```

```

{

    reply(451, "Error in server: %s\n", s);
    reply(221, "Closing connection due to server error.");
    dologout(0);
    /* NOTREACHED */
}

```

```

void

```

```

#ifdef __STDC__
reply(int n, const char *fmt, ...)
#else
reply(int n, char *fmt, va_dcl va_alist)
#endif
{
    va_list ap;
#ifdef __STDC__
    va_start(ap, fmt);
#else
    va_start(ap);
#endif
    (void)printf("%d ", n);
    (void)vprintf(fmt, ap);
    (void)printf("\r\n");
    (void)fflush(stdout);
    if (debug) {
        syslog(LOG_DEBUG, "<--- %d ", n);
        vsyslog(LOG_DEBUG, fmt, ap);
    }
}
}

```

```

void

```

```

#ifdef __STDC__
lreply(int n, const char *fmt, ...)
#else
lreply(n, fmt, va_alist)
int n;

```

```

char *fmt;
va_dcl
#endif
{
va_list ap;
#ifdef __STDC__
va_start(ap, fmt);
#else
va_start(ap);
#endif
(void)printf("%d- ", n);
(void)vprintf(fmt, ap);
(void)printf("\r\n");
(void)fflush(stdout);
if (debug) {
syslog(LOG_DEBUG, "<--- %d- ", n);
vsyslog(LOG_DEBUG, fmt, ap);
}
}

static void ack(const char *s)
{

reply(250, "%s command successful.", s);
}

void nack(const char *s)
{

reply(502, "%s command not implemented.", s);
}

/* ARGSUSED */
void yyerror(char *s)
{
char *cp;

(void)s; /* ignore argument */

if ((cp = strchr(cbuf, '\n')) != NULL)
*cp = '\0';
reply(500, "'%s': command not understood.", cbuf);
}

void delete(char *name)
{
struct stat st;

```

```

LOGCMD("delete", name);
if (stat(name, &st) < 0) {
    perror_reply(550, name);
    return;
}
if ((st.st_mode&S_IFMT) == S_IFDIR) {
    if (rmdir(name) < 0) {
        perror_reply(550, name);
        return;
    }
    goto done;
}
if (unlink(name) < 0) {
    perror_reply(550, name);
    return;
}
done:
ack("DELE");
}

void cwd(const char *path)
{
    FILE *message;

    if (chdir(path) < 0)
        perror_reply(550, path);
    else {
        if ((message = fopen(_PATH_CWDMESG, "r")) != NULL) {
            char *cp, line[LINE_MAX];

            while (fgets(line, sizeof(line), message) != NULL) {
                if ((cp = strchr(line, '\n')) != NULL)
                    *cp = '\0';
                lreply(250, "%s", line);
            }
            (void) fflush(stdout);
            (void) fclose(message);
        }
        ack("CWD");
    }
}

#ifdef min
#define min(a,b) ((a) < (b) ? (a) : (b))
#endif
void replydirname(const char *name, const char *message)
{
    char npath[MAXPATHLEN];

```

```

int i;

for (i = 0; *name != '\0' && i < (int)sizeof(npath) - 1; i++, name++) {
    npath[i] = *name;
    if (*name == "")
        npath[++i] = "";
    }
npath[min(i,(int)sizeof(npath)-1)] = '\0';
reply(257, "\\\"%s\" %s", npath, message);
}

void mkdir(char *name)
{

LOGCMD("mkdir", name);
if (mkdir(name, 0777) < 0)
    perror_reply(550, name);
else
    replydirname(name, "directory created.");
}

void rmdir(char *name)
{

LOGCMD("rmdir", name);
if (rmdir(name) < 0)
    perror_reply(550, name);
else
    ack("RMD");
}

void pwd(void)
{
char path[MAXPATHLEN];

if (getcwd(path, sizeof path) == (char *)NULL)
    reply(550, "%s.", path);
else
    replydirname(path, "is current directory.");
}

char * renamefrom(char *name)
{
struct stat st;

if (stat(name, &st) < 0) {
    perror_reply(550, name);
    return ((char *)0);
}
}

```

```

reply(350, "File exists, ready for destination name");
return (name);
}

void renamecmd(char *from, char *to)
{
    LOGCMD2("rename", from, to);
    if (rename(from, to) < 0)
        perror_reply(550, "rename");
    else
        ack("RNTO");
}

static void dolog(union sockunion *su)
{
    char hbuf[MAXHOSTNAMELEN], addstr[MAXHOSTNAMELEN + 4];

    memset(remotehost, '\0', sizeof(remotehost));
    // Modified by Jeffrey 2009/03/12
    // To avoid hang when DNS resolve fail
    /*getnameinfo((struct sockaddr *)su, sizeof(ctrl_addr),
        remotehost, sizeof(remotehost), NULL, 0, 0);*/
    getnameinfo((struct sockaddr *)su, sizeof(ctrl_addr),
        remotehost, sizeof(remotehost), NULL, 0, NI_NUMERICHOST);
    memset(hbuf, '\0', sizeof(hbuf));
    getnameinfo((struct sockaddr *)su, sizeof(ctrl_addr),
        hbuf, sizeof(hbuf), NULL, 0, NI_NUMERICHOST);
    addstr[0] = '\0';
    if (strcmp(remotehost, hbuf) != 0)
        sprintf(addstr, " (%s)", hbuf);
#ifdef HASSETPROCTITLE
    snprintf(proctitle, sizeof(proctitle), "%s: connected", remotehost);
    setproctitle("%s", proctitle);
#endif /* HASSETPROCTITLE */

    if (logging)
        syslog(LOG_INFO, "connection from %s%s", remotehost, addstr);
}

/*
 * Record logout in wtmp file
 * and exit with supplied status.
 */
void dologout(int status)
{
    sigset_t allsigs;

```

```

transflag = 0;

if (logged_in) {
    sigfillset(&allsigs);
    sigprocmask(SIG_BLOCK, &allsigs, NULL);
    (void) seteuid((uid_t)0);
    ftpdlogwtmp(ttyline, "", "");
    if (doutmp)
        logout(utmp.ut_line);
#ifdef KERBEROS
    if (!notickets && krbtkfile_env)
        unlink(krbtkfile_env);
#endif
}
/* beware of flushing buffers after a SIGPIPE */
_exit(status);
}

static void myoob(int signo)
{
    char *cp;
    int save_errno = errno;

    (void)signo;

    /* only process if transfer occurring */
    if (!transflag)
        return;
    cp = tmpline;
    if (ftpd_getline(cp, 7, stdin) == NULL) {
        reply(221, "You could at least say goodbye.");
        dologout(0);
    }
    upper(cp);
    if (strcmp(cp, "ABOR\r\n") == 0) {
        tmpline[0] = '\0';
        reply(426, "Transfer aborted. Data connection closed.");
        reply(226, "Abort successful");
        longjmp(urgcatch, 1);
    }
    if (strcmp(cp, "STAT\r\n") == 0) {
        if (file_size != (off_t) -1)
            reply(213, "Status: %qd of %qd bytes transferred",
                (quad_t) byte_count, (quad_t) file_size);
        else
            reply(213, "Status: %qd bytes transferred",
                (quad_t) byte_count);
    }
}

```

```

errno = save_errno;
}

/*
 * Note: a response of 425 is not mentioned as a possible response to
 * the PASV command in RFC959. However, it has been blessed as
 * a legitimate response by Jon Postel in a telephone conversation
 * with Rick Adams on 25 Jan 89.
 */
void passive(void)
{
    socklen_t len;
#ifdef IP_PORTRANGE
    int on;
#else
    u_short port;
#endif
    char *p, *a;

    if (pw == NULL) {
        reply(530, "Please login with USER and PASS");
        return;
    }
    if (pdata >= 0)
        close(pdata);
    pdata = socket(AF_INET, SOCK_STREAM, 0);
    if (pdata < 0) {
        perror_reply(425, "Can't open passive connection");
        return;
    }

#ifdef IP_PORTRANGE
    on = high_data_ports ? IP_PORTRANGE_HIGH : IP_PORTRANGE_DEFAULT;
    if (setsockopt(pdata, IPPROTO_IP, IP_PORTRANGE,
        (char *)&on, sizeof(on)) < 0)
        goto pasv_error;
#else
#define FTP_DATA_BOTTOM 40000
#define FTP_DATA_TOP 44999
    if (high_data_ports) {
        for (port = FTP_DATA_BOTTOM; port <= FTP_DATA_TOP; port++) {
            pasv_addr = ctrl_addr;
            pasv_addr.su_port = htons(port);
            if (bind(pdata, (struct sockaddr *) &pasv_addr,
                sizeof(pasv_addr)) == 0)
                break;
            if (errno != EADDRINUSE)
                goto pasv_error;

```

```

    }
    if (port > FTP_DATA_TOP)
        goto pasv_error;
    }
    else
#endif
    {
        pasv_addr = ctrl_addr;
        pasv_addr.su_port = 0;
        if (bind(pdata, (struct sockaddr *)&pasv_addr,
            sizeof(pasv_addr)) < 0)
            goto pasv_error;
    }

    len = sizeof(pasv_addr);
    if (getsockname(pdata, (struct sockaddr *) &pasv_addr, &len) < 0)
        goto pasv_error;
    if (listen(pdata, 1) < 0)
        goto pasv_error;
    a = (char *) &pasv_addr.su_sin.sin_addr;
    p = (char *) &pasv_addr.su_port;

#define UC(b) (((int) b) & 0xff)

    reply(227, "Entering Passive Mode (%d,%d,%d,%d,%d,%d)", UC(a[0]),
        UC(a[1]), UC(a[2]), UC(a[3]), UC(p[0]), UC(p[1]));
    return;

pasv_error:
    (void) close(pdata);
    pdata = -1;
    perror_reply(425, "Can't open passive connection");
    return;
}

/*
 * Long Passive defined in RFC 1639.
 * 228 Entering Long Passive Mode (af, hal, h1, h2, h3, ..., pal, p1, p2...)
 * Extended Passive defined in RFC 2428.
 * 229 Entering Extended Passive Mode (|||port|)
 */
void
long_passive(const char *cmd, int pf)
{
    socklen_t len;
#ifdef IP_PORTRANGE
    int on;
#else

```

```

u_short port;
#endif
u_char *p, *a;

if (pf != PF_UNSPEC && ctrl_addr.su_family != pf) {
/*
* XXX
* only EPRT/EPSV ready clients will understand this
*/
pf = ex_af2prot(ctrl_addr.su_family);
if (strcmp(cmd, "EPSV") == 0 && pf)
reply(522, "Network protocol mismatch, use (%d)", pf);
else
reply(501, "Network protocol mismatch"); /*XXX*/

return;
}

if (pdata >= 0) /* close old port if one set */
close(pdata);

pdata = socket(ctrl_addr.su_family, SOCK_STREAM, 0);
if (pdata < 0) {
perror_reply(425, "Can't open passive connection");
return;
}

#ifdef IP_PORTRANGE
if (ctrl_addr.su_family == AF_INET) {
on = high_data_ports ? IP_PORTRANGE_HIGH : IP_PORTRANGE_DEFAULT;

if (setsockopt(pdata, IPPROTO_IP, IP_PORTRANGE,
(char *)&on, sizeof(on)) < 0)
goto pasv_error;
}
#else
if (high_data_ports) {
for (port = FTP_DATA_BOTTOM; port <= FTP_DATA_TOP; port++) {
pasv_addr = ctrl_addr;
pasv_addr.su_port = htons(port);
if (bind(pdata, (struct sockaddr *) &pasv_addr,
sizeof(pasv_addr)) == 0)
break;
if (errno != EADDRINUSE)
goto pasv_error;
}
if (port > FTP_DATA_TOP)
goto pasv_error;
}

```

```

} else
#endif
{
    pasv_addr = ctrl_addr;
    pasv_addr.su_port = 0;
    if (bind(pdata, (struct sockaddr *)&pasv_addr,
        sizeof(pasv_addr)) < 0)
        goto pasv_error;
}

len = sizeof(pasv_addr);
if (getsockname(pdata, (struct sockaddr *)&pasv_addr, &len) < 0)
    goto pasv_error;
if (listen(pdata, 1) < 0)
    goto pasv_error;

p = (u_char *) &pasv_addr.su_port;
if (strcmp(cmd, "LPSV") == 0) {
    if (pasv_addr.su_family == AF_INET) {
        a = (u_char *) &pasv_addr.su_sin.sin_addr;
        reply(228,
            "Entering Long Passive Mode (%u,%u,%u,%u,%u,%u,%u,%u,%u,%u)",
            4, 4, a[0], a[1], a[2], a[3], 2, p[0], p[1]);
#ifdef INET6
    } else if (pasv_addr.su_family == AF_INET6) {
        a = (u_char *) &pasv_addr.su_sin6.sin6_addr;
        reply(228,
            "Entering Long Passive Mode (%u,%u,%u,%u,%u,%u,"
            "%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u)",
            6, 16, a[0], a[1], a[2], a[3], a[4], a[5], a[6], a[7],
            a[8], a[9], a[10], a[11], a[12], a[13], a[14], a[15],
            2, p[0], p[1]);
#endif
    } else {
        goto pasv_error;
    }
    return;
} else if (strcmp(cmd, "EPSV") == 0) {
    if (ex_af2prot(pasv_addr.su_family) > 0) {
        reply(229, "Entering Extended Passive Mode (|||%u|)",
            ntohs(pasv_addr.su_port));
        return;
    }
} else {
    /* more proper error code? */
}

pasv_error:

```

```

(void) close(pdata);
pdata = -1;
perror_reply(425, "Can't open passive connection");
return;
}

```

```

/*

```

```

* Extended Port defined in RFC 2428.

```

```

* EPRT |proto|addr|port|

```

```

*/

```

```

int

```

```

extended_port(const char *arg)

```

```

{

```

```

    char *tmp = NULL;

```

```

    char *result[3];

```

```

    char *p, *q;

```

```

    char delim;

```

```

    struct addrinfo hints;

```

```

    struct addrinfo *res = NULL;

```

```

    int i;

```

```

    unsigned long proto;

```

```

    tmp = strdup(arg);

```

```

    if (debug)

```

```

        syslog(LOG_DEBUG, "%s", tmp);

```

```

    if (!tmp) {

```

```

        fatal("not enough core.");

```

```

        /*NOTREACHED*/

```

```

    }

```

```

    p = tmp;

```

```

    delim = p[0];

```

```

    p++;

```

```

    memset(result, 0, sizeof(result));

```

```

    for (i = 0; i < 3; i++) {

```

```

        q = strchr(p, delim);

```

```

        if (!q || *q != delim)

```

```

            goto parsefail;

```

```

        *q++ = '\0';

```

```

        result[i] = p;

```

```

        if (debug)

```

```

            syslog(LOG_DEBUG, "%d: %s", i, p);

```

```

        p = q;

```

```

    }

```

```

    /* some more sanity check */

```

```

    p = NULL;

```

```

    (void) strtoul(result[2], &p, 10);

```

```

    if (!*result[2] || *p)

```

```

goto parsefail;
p = NULL;
proto = strtoul(result[0], &p, 10);
if (!*result[0] || *p)
    goto parsefail; /* not 522, since not numeric */

memset(&hints, 0, sizeof(hints));
hints.ai_family = ex_prot2af((int)proto);
if (hints.ai_family < 0)
    goto protounsupp;
hints.ai_socktype = SOCK_STREAM;
hints.ai_flags = AI_NUMERICHOST; /*no DNS*/
if (getaddrinfo(result[1], result[2], &hints, &res))
    goto parsefail;
if (res->ai_next)
    goto parsefail;
if ((int)sizeof(data_dest) < res->ai_addrlen) {
    if (debug)
        syslog(LOG_DEBUG, "ai_addrlen large");
    goto parsefail;
}
memcpy(&data_dest, res->ai_addr, res->ai_addrlen);
#ifdef HAVE_SOCKADDR_IN6_SIN6_SCOPE_ID
if (his_addr.su_family == AF_INET6 &&
    data_dest.su_family == AF_INET6) {
    /* XXX more sanity checks! */
    data_dest.su_sin6.sin6_scope_id =
        his_addr.su_sin6.sin6_scope_id;
}
#endif
if (port_check("EPRT") == 1) {
#ifdef INET6
    } else if (port_check_v6("EPRT") == 1) {
#endif
    } else {
        goto parsefail;
    }

if (tmp)
    free(tmp);
if (res)
    freeaddrinfo(res);
return 0;

parsefail:
reply(500, "Invalid argument, rejected.");
usedefault = 1;
if (tmp)

```

```

    free(tmp);
    if (res)
        freeaddrinfo(res);
    return -1;

protounsupp:
    reply(522, "Network protocol mismatch, use (%d)",
        ex_af2prot(his_addr.su_family));
    usedefault = 1;
    if (tmp)
        free(tmp);
    if (res)
        freeaddrinfo(res);
    return -1;
}

/* Return 1, if port check is done. Return 0, if not yet. */
int
port_check(const char *pcmd)
{
    if (his_addr.su_family == AF_INET) {
        if (data_dest.su_family != AF_INET) {
            usedefault = 1;
            reply(500, "Invalid address rejected.");
            return 1;
        }
        if (portcheck &&
            ntohs(data_dest.su_port) < IPPORT_RESERVED) {
            usedefault = 1;
            reply(500,
                "Illegal PORT rejected (reserved port).");
        } else if (portcheck &&
            data_dest.su_sin.sin_addr.s_addr !=
            his_addr.su_sin.sin_addr.s_addr) {
            usedefault = 1;
            reply(500,
                "Illegal PORT rejected (address wrong).");
        } else {
            usedefault = 0;
            if (pdata >= 0) {
                (void) close(pdata);
                pdata = -1;
            }
            reply(200, "%s command successful.", pcmd);
        }
        return 1;
    }
    return 0;
}

```

```

}

#ifdef INET6
/* Return 1, if port check is done. Return 0, if not yet. */
int
port_check_v6(const char *pcmd)
{
if (his_addr.su_family == AF_INET6) {
if (data_dest.su_family != AF_INET6) {
usedefault = 1;
reply(500, "Invalid address rejected.");
return 1;
}
if (portcheck &&
ntohs(data_dest.su_port) < IPPORT_RESERVED) {
usedefault = 1;
reply(500,
"Illegal PORT rejected (reserved port).");
} else if (portcheck && !IN6_ARE_ADDR_EQUAL(
&data_dest.su_sin6.sin6_addr,
&his_addr.su_sin6.sin6_addr)) {
usedefault = 1;
reply(500,
"Illegal PORT rejected (address wrong).");
} else {
usedefault = 0;
if (pdata >= 0) {
(void) close(pdata);
pdata = -1;
}
reply(200, "%s command successful.", pcmd);
}
return 1;
}
return 0;
}
#endif

/*
* Generate unique name for file with basename "local".
* The file named "local" is already known to exist.
* Generates failure reply on error.
*/
#if 0
static int guniquefd(const char *local, char **nam)
{
static char new[MAXPATHLEN];
struct stat st;

```

```

int count, len, fd;
char *cp;

cp = strrchr(local, '/');
if (cp)
    *cp = '\0';
if (stat(cp ? local : ".", &st) < 0) {
    perror_reply(553, cp ? local : ".");
    return (-1);
}
if (cp)
    *cp = '/';
(void) strncpy(new, local, sizeof(new)-1);
new[sizeof(new)-1] = '\0';
len = strlen(new);
if (len+2+1 >= (int)sizeof(new)-1)
    return (-1);
cp = new + len;
*cp++ = '!';
for (count = 1; count < 100; count++) {
    (void)sprintf(cp, sizeof(new) - (cp - new), "%d", count);
    fd = open(new, O_RDWR|O_CREAT|O_EXCL, 0666);
    if (fd == -1)
        continue;
    if (nam)
        *nam = new;
    return (fd);
}
reply(452, "Unique file name cannot be created.");
return (-1);
}
#else
static char * gunique (const char *local)
{
    static char *string = 0;
    struct stat st;
    int count;
    char *cp;

    cp = strrchr (local, '/');
    if (cp)
        *cp = '\0';
    if (stat(cp ? local : ".", &st) < 0)
    {
        perror_reply (553, cp ? local : ".");
        return ((char *) 0);
    }
    if (cp)

```

```

*cp = '/';

if (string)
    free (string);

string = malloc (strlen (local) + 5); /* '.' + DIG + DIG + '\0' */
if (string)
    {
        strcpy (string, local);
        cp = string + strlen (string);
        *cp++ = '.';
        for (count = 1; count < 100; count++)
        {
            (void)sprintf (cp, "%d", count);
            if (stat (string, &st) < 0)
                return string;
        }
    }

reply (452, "Unique file name cannot be created.");
return NULL;
}
#endif

/*
 * Format and send reply containing system error number.
 */
void perror_reply(int code, const char *string)
{

reply(code, "%s: %s.", string, strerror(errno));
}

static const char *onefile[] = {
    "",
    0
};

void send_file_list(const char *whichf)
{
    struct stat st;
    DIR *dirp = NULL;
    struct dirent *dir;
    FILE *volatile dout = NULL;
    char const *const *volatile dirlist;
    const char *dirname;
    volatile int simple = 0;
    volatile int freeglob = 0;

```

```

glob_t gl;

/* XXX: should the { go away if __linux__? */
if (strpbrk(whichf, "~{[*?}") != NULL) {
#ifdef __linux__
    /* see popen.c */
    int flags = GLOB_NOCHECK;
#else
    int flags = GLOB_BRACE|GLOB_NOCHECK|GLOB_QUOTE|GLOB_TILDE;
#endif

    memset(&gl, 0, sizeof(gl));
    freeglob = 1;
    if (glob(whichf, flags, 0, &gl)) {
        reply(550, "not found");
        goto out;
    } else if (gl.gl_pathc == 0) {
        errno = ENOENT;
        perror_reply(550, whichf);
        goto out;
    }
    /* The cast is necessary because of bugs in C's type system */
    dirlist = (char const *const *) gl.gl_pathv;
} else {
    onefile[0] = whichf;
    dirlist = onefile;
    simple = 1;
}

if (setjmp(urgcatch)) {
    transflag = 0;
    goto out;
}
while ((dirname = *dirlist++) != NULL) {
    if (stat(dirname, &st) < 0) {
        /*
         * If user typed "ls -l", etc, and the client
         * used NLST, do what the user meant.
         */
        if (dirname[0] == '-' && *dirlist == NULL &&
            transflag == 0) {
            retrieve("/bin/ls %s", dirname);
            goto out;
        }
        perror_reply(550, whichf);
        if (dout != NULL) {
            (void) fclose(dout);
            transflag = 0;
        }
    }
}

```

```

data = -1;
pdata = -1;
}
goto out;
}

if (S_ISREG(st.st_mode)) {
if (dout == NULL) {
dout = dataconn("file list", (off_t)-1, "w");
if (dout == NULL)
goto out;
transflag++;
}
fprintf(dout, "%s%s\n", dirname,
type == TYPE_A ? "\r" : "");
byte_count += strlen(dirname) + 1;
continue;
} else if (!S_ISDIR(st.st_mode))
continue;

if ((dirp = opendir(dirname)) == NULL)
continue;

while ((dir = readdir(dirp)) != NULL) {
char nbuf[MAXPATHLEN];

#ifdef __linux__
if (!strcmp(dir->d_name, "."))
continue;
if (!strcmp(dir->d_name, ".."))
continue;
#else
if (dir->d_name[0] == '.' && dir->d_namlen == 1)
continue;
if (dir->d_name[0] == '.' && dir->d_name[1] == '.' &&
dir->d_namlen == 2)
continue;
#endif
#endif

snprintf(nbuf, sizeof(nbuf), "%s/%s", dirname,
dir->d_name);

/*
* We have to do a stat to insure it's
* not a directory or special file.
*/
if (simple || (stat(nbuf, &st) == 0 &&
S_ISREG(st.st_mode))) {

```

```

if (dout == NULL) {
    dout = dataconn("file list", (off_t)-1,
        "w");
    if (dout == NULL)
        goto out;
    transflag++;
}
if (nbuf[0] == '.' && nbuf[1] == '/')
    fprintf(dout, "%s%s\n", &nbuf[2],
        type == TYPE_A ? "\r" : "");
else
    fprintf(dout, "%s%s\n", nbuf,
        type == TYPE_A ? "\r" : "");
byte_count += strlen(nbuf) + 1;
}
}
(void) closedir(dirp);
}

```

```

if (dout == NULL)
    reply(550, "No files found.");
else if (ferror(dout) != 0)
    perror_reply(550, "Data connection");
else
    reply(226, "Transfer complete.");

```

```

transflag = 0;
if (dout != NULL)
    (void) fclose(dout);
data = -1;
pdata = -1;
out:
if (freeglob) {
    freeglob = 0;
    globfree(&gl);
}
}

```

```

static void reapchild(int signo)
{
    int save_errno = errno;

    (void)signo;

    while (wait3(NULL, WNOHANG, NULL) > 0)
        ;
    errno = save_errno;
}

```

```

void logxfer(const char *name, off_t size, time_t start)
{
    char buf[400 + MAXHOSTNAMELEN*4 + MAXPATHLEN*4];
    char dir[MAXPATHLEN], path[MAXPATHLEN], rpath[MAXPATHLEN];
    char vremotehost[MAXHOSTNAMELEN*4], vpath[MAXPATHLEN*4];
    char *vpw;
    time_t now;

    if ((statfd >= 0) && (getcwd(dir, sizeof(dir)) != NULL)) {
        time(&now);

        vpw = (char *)malloc(strlen((guest) ? guestpw : pw->pw_name)*4+1);
        if (vpw == NULL)
            return;

        snprintf(path, sizeof path, "%s/%s", dir, name);
        if (realpath(path, rpath) == NULL) {
            strncpy(rpath, path, sizeof rpath-1);
            rpath[sizeof rpath-1] = '\0';
        }
        strvis(vpath, rpath, VIS_SAFE|VIS_NOSLASH);

        strvis(vremotehost, remotehost, VIS_SAFE|VIS_NOSLASH);
        strvis(vpw, (guest) ? guestpw : pw->pw_name, VIS_SAFE|VIS_NOSLASH);

        snprintf(buf, sizeof(buf),
            "%.24s %ld %s %qd %s %c %s %c %c %s ftp %d %s %s\n",
            ctime(&now), (long)(now - start + (now == start)),
            vremotehost, (long long) size, vpath,
            ((type == TYPE_A) ? 'a' : 'b'), "*" /* none yet *//,
            'o', ((guest) ? 'a' : 'r'),
            vpw, 0 /* none yet *//,
            ((guest) ? "*" : pw->pw_name),
            dhostname);
        write(statfd, buf, strlen(buf));
        free(vpw);
    }
}

#if defined(TCPWRAPPERS)
static int check_host(union sockunion *su)
{
    char hbuf[MAXHOSTNAMELEN], addr[MAXHOSTNAMELEN];

    if (su->su_family != AF_INET)
        return 1; /*XXX*/
}

```

```

memset(hbuf, '\0', sizeof(hbuf));
getnameinfo((struct sockaddr *)su, sizeof(his_addr),
  hbuf, sizeof(hbuf), NULL, 0, 0);
memset(addr, '\0', sizeof(addr));
getnameinfo((struct sockaddr *)su, sizeof(his_addr),
  addr, sizeof(addr), NULL, 0, NI_NUMERICHOST);

if (strcmp(hbuf, addr)) {
if (!hosts_ctl("ftpd", hbuf, addr, STRING_UNKNOWN)) {
  syslog(LOG_NOTICE, "tcpwrappers rejected: %s [%s]",
    hbuf, addr);
  return (0);
}
} else {
if (!hosts_ctl("ftpd", STRING_UNKNOWN, addr, STRING_UNKNOWN)) {
  syslog(LOG_NOTICE, "tcpwrappers rejected: [%s]", addr);
  return (0);
}
}
return (1);
}
#endif /* TCPWRAPPERS */

```

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1.15 linux-kernel 3.4.35

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```
/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
```

```
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
```

```
*
```

```
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
```

```
* http://www.hypermall.com/
```

- * 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
- * interrupts us (except possibly for removal/insertion of the cable?)
- * 10/4/97 - began heavy inline documentation of the code. Corrected typos
- * and spelling mistakes.
- * 10/5/97 - added code to handle PHY interrupts, disable PHY on
- * loss of link, and correctly re-enable PHY when link is
- * re-established. (put back CFG_PHYIE)
- *
- * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
- *
- * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
- *
- * Linux driver for the IDT77201 NICStAR PCI ATM controller.
- * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
- * see init_nicstar() for PHY initialization to change this. This driver
- * expects the Linux ATM stack to support scatter-gather lists
- * (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
- *
- * Implementing minimal-copy of received data:
- * IDT always receives data into a small buffer, then large buffers
- * as needed. This means that data must always be copied to create
- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *
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- * along with this program; if not, write to the Free Software
- * Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
- *
- * M. Welsh, 6 July 1996
- *
- *
- */

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for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

TI DSP/Bridge Driver - Contributors File

The DSP/Bridge project wish to thank all of its contributors, current bridge
driver is the result of the work of all of them. If any name is accidentally
omitted, let us know by sending a mail to omar.ramirez@ti.com or
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1.17 u-boot v2010.6

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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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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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```

/*****
*
* Implementation of user-space PPPoE redirector for Linux.
*
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*
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*****/

```

1.21 fuse 2.9.3

1.21.1 Available under license :

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```
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1.24 ftpmput 1.0.0.0

1.24.1 Available under license :

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1.25 wide-dhcpv6 20070507

1.25.1 Available under license :

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1.26 libjpeg 9d

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1.26.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

DOCUMENTATION ROADMAP

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This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
RELATED SOFTWARE Other stuff you should get.
FILE FORMAT WARS Software *not* to get.
TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

install.doc How to configure and install the IJG software.
usage.doc Usage instructions for cjpeg, djpeg, jpegtran,
 rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.doc).
wizard.doc Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.

Programmer and internal documentation:

libjpeg.doc How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.doc Overview of the JPEG library's internal structure.
filelist.doc Road map of IJG files.
coderules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW

=====

This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES

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We highly recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at <ftp://ftp.uu.net/graphics/jpeg/wallace.ps.gz>. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best full description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US\$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The standard is divided into two parts, Part 1 being the actual specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

Some extensions to the original JPEG standard are defined in JPEG Part 3,

a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. A copy of the JFIF spec is available from:

Literature Department
C-Cube Microsystems, Inc.
1778 McCarthy Blvd.
Milpitas, CA 95035
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/jfif.txt.gz>, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from <ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz>. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from [ftp.sgi.com](ftp://ftp.sgi.com) or from <ftp://ftp.uu.net/graphics/jpeg/>. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

ARCHIVE LOCATIONS

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The "official" archive site for this software is [ftp.uu.net](ftp://ftp.uu.net) (Internet address 192.48.96.9). The most recent released version can always be found there in directory [graphics/jpeg](ftp://ftp.uu.net/graphics/jpeg/). This particular version will be archived as <ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz>. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only [ftp.uu.net](ftp://ftp.uu.net) is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (<ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/>), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the [ftp.uu.net](ftp://ftp.uu.net) release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. It is available on the World Wide Web at <http://www.faqs.org/faqs/jpeg-faq/> and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: <ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/>. If you don't have Web or FTP access, send e-mail to mail-server@rtfm.mit.edu with body
send usenet/news.answers/jpeg-faq/part1
send usenet/news.answers/jpeg-faq/part2

RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use; it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

FILE FORMAT WARS

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Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

TO DO

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The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to jpeg-info@uunet.uu.net.

1.27 mount-cifs 1.10

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Version 2, June 1991

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1.28 uclibc 0.9.33.2

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* arping.c - Ping hosts by ARP requests/replies (version 1.0.0.0 , based on busybox 1.0.0.0)

*

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*

* Author: Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>

* Busybox port: Nick Fedchik <nick@fedchik.org.ua>

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```
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1.33 sqlite 3.31.1

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```

```
<signature of Ty Coon>, 1 April 1989
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# Files that don't get a copyright, or which are taken from elsewhere.
#
# All lines in this file are patterns, including the comment lines; this
# means that e.g. `FTL.TXT' matches all files that have this string in
# the file name (including the path relative to the current directory,
# always starting with `./').
#
# Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
```

```
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
```

src/tools/ftrandom/ftrandom.c

#

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1.35 expat 2.2.9

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ppp-2.4.4/include/linux/if_pppvar.h

ppp-2.4.4/include/linux/ppp_defs.h

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 ppp-2.4.4/modules/deflate.c
 ppp-2.4.4/modules/if_ppp.c
 ppp-2.4.4/modules/ppp.c
 ppp-2.4.4/modules/ppp_comp.c
 ppp-2.4.4/pppdump/deflate.c
 ppp-2.4.4/pppdump/ppp-comp.h
 ppp-2.4.4/solaris/ppp.c
 ppp-2.4.4/solaris/ppp_comp.c
 ppp-2.4.4/solaris/ppp_comp_mod.c
 ppp-2.4.4/solaris/ppp_mod.c

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ppp-2.4.4/pppd/ccp.c

ppp-2.4.4/pppd/ccp.h

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ppp-2.4.4/pppdump/pppdump.c

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ppp-2.4.4/pppd/chap-md5.c

ppp-2.4.4/pppd/chap-md5.h

ppp-2.4.4/pppd/chap-new.c

ppp-2.4.4/pppd/chap-new.h

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ppp-2.4.4/include/linux/if_ppp.h
ppp-2.4.4/include/net/if_ppp.h
ppp-2.4.4/pppd/auth.c
ppp-2.4.4/pppd/fsm.c
ppp-2.4.4/pppd/fsm.h
ppp-2.4.4/pppd/ipcp.c
ppp-2.4.4/pppd/ipcp.h
ppp-2.4.4/pppd/ipv6cp.c
ppp-2.4.4/pppd/ipv6cp.h
ppp-2.4.4/pppd/ipxcp.c
ppp-2.4.4/pppd/ipxcp.h
ppp-2.4.4/pppd/lcp.c
ppp-2.4.4/pppd/lcp.h
ppp-2.4.4/pppd/magic.c
ppp-2.4.4/pppd/magic.h
ppp-2.4.4/pppd/main.c
ppp-2.4.4/pppd/options.c
ppp-2.4.4/pppd/pppd.h
ppp-2.4.4/pppd/sys-linux.c
ppp-2.4.4/pppd/sys-solaris.c
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ppp-2.4.4/include/net/vjcompress.h

ppp-2.4.4/modules/vjcompress.c

ppp-2.4.4/pppstats/pppstats.c

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ppp-2.4.4/common/zlib.c

ppp-2.4.4/common/zlib.h

ppp-2.4.4/pppdump/zlib.c

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Jean-loup Gailly Mark Adler

gzip@prep.ai.mit.edu madler@alumni.caltech.edu

ppp-2.4.4/pppd/eui64.c

ppp-2.4.4/pppd/eui64.h

ppp-2.4.4/pppd/ipv6cp.c

ppp-2.4.4/pppd/ipv6cp.h

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ppp-2.4.4/modules/ppp_ahdlc.c

ppp-2.4.4/pppd/sys-solaris.c

ppp-2.4.4/solaris/ppp_ahdlc.c

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ppp-2.4.4/pppd/eap.c

ppp-2.4.4/pppd/eap.h

ppp-2.4.4/pppd/srp-entry.c

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* Based in part on work from Jens Axboe and Paul Mackerras.

* Updated to ppp-2.4.1 by Bernhard Kaindl

*

* Updated to ppp-2.4.2 by David Woodhouse 2004.

* - disconnect method added

* - remove_options() abuse removed.

*

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ppp-2.4.4/pppd/ecp.c

ppp-2.4.4/pppd/ecp.h

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ppp-2.4.4/pppd/plugins/radius/Makefile.linux
ppp-2.4.4/pppd/plugins/radius/radattr.c
ppp-2.4.4/pppd/plugins/rp-pppoe/common.c
ppp-2.4.4/pppd/plugins/rp-pppoe/debug.c
ppp-2.4.4/pppd/plugins/rp-pppoe/discovery.c
ppp-2.4.4/pppd/plugins/rp-pppoe/if.c
ppp-2.4.4/pppd/plugins/rp-pppoe/Makefile.linux
ppp-2.4.4/pppd/plugins/rp-pppoe/pppoe-discovery.c
ppp-2.4.4/pppd/plugins/rp-pppoe/pppoe.h
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ppp-2.4.4/pppd/plugins/radius/avpair.c
ppp-2.4.4/pppd/plugins/radius/clientid.c
ppp-2.4.4/pppd/plugins/radius/config.c
ppp-2.4.4/pppd/plugins/radius/dict.c
ppp-2.4.4/pppd/plugins/radius/includes.h
ppp-2.4.4/pppd/plugins/radius/ip_util.c
ppp-2.4.4/pppd/plugins/radius/lock.c
ppp-2.4.4/pppd/plugins/radius/options.h
ppp-2.4.4/pppd/plugins/radius/pathnames.h
ppp-2.4.4/pppd/plugins/radius/radiusclient.h
ppp-2.4.4/pppd/plugins/radius/sendserver.c
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ppp-2.4.4/pppd/plugins/radius/config.c
ppp-2.4.4/pppd/plugins/radius/dict.c
ppp-2.4.4/pppd/plugins/radius/includes.h
ppp-2.4.4/pppd/plugins/radius/ip_util.c
ppp-2.4.4/pppd/plugins/radius/pathnames.h
ppp-2.4.4/pppd/plugins/radius/radiusclient.h
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ppp-2.4.4/pppd/plugins/radius/config.c
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ppp-2.4.4/pppd/plugins/radius/includes.h
ppp-2.4.4/pppd/plugins/radius/ip_util.c
ppp-2.4.4/pppd/plugins/radius/pathnames.h
ppp-2.4.4/pppd/plugins/radius/radiusclient.h
ppp-2.4.4/pppd/plugins/radius/sendserver.c
ppp-2.4.4/pppd/plugins/radius/util.c

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* MPPE support is by Ralf Hofmann, <ralf.hofmann@elvido.net>, with

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Unix SMB/CIFS implementation.
Samba utility functions

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ppp-2.4.4/pppd/pppcrypt.c

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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>
```

```
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 2 of the License, or  
(at your option) any later version.
```

```
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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:

```
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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1.40 zlib 1.2.11

1.40.1 Available under license :

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

*/

1.41 fdipc 0.0.0.1

1.41.1 Available under license :

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Version 2.1, February 1999

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

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

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

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

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever

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

That's all there is to it!

1.42 psntp 0.1

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```
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*
* \$Id: sntp.h,v 1.2 2003/04/17 01:14:04 fuyuki Exp \$
*/

1.43 mtd-utils 1.3.0

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Version 2, June 1991

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1.44 abf 1.0.2.1

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1.45 Irzsz 0.12.20

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```
/*  
protname.c - return the name of the protocol used  
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```

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```
*/  
#include "zglobal.h"  
  
/* this code was duplicate in lrz.c and lsz.c */  
  
const char *  
protname(void)  
{  
    const char *prot_name;  
    switch(protocol) {  
    case ZM_XMODEM:  
        prot_name="XMODEM";  
        break;  
    case ZM_YMODEM:  
        prot_name="YMODEM";  
        break;  
    default:  
        prot_name="ZMODEM";  
        break;  
    }  
    return prot_name;  
}
```

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1.46 bzip2 1.0.8

1.47 libuv 1.20.0

1.48 json-c 0.13

1.48.1 Available under license :

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1.49 sysklogd 1.5.0

1.49.1 Available under license :

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1.50 lensmotor 1.0.2.2

1.51 boa 0.94.14

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```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989
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1.57 mtd-utils 1.5.0

1.57.1 Available under license :

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