



## Open Source Used In 8930 IP camera 1.0.6 firmware

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Julian Seward, Cambridge, UK.  
jseward@bzip.org  
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## 1.6 ethtool 3

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

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

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

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## 1.7 expat 2.2.5

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## 1.8 fdipc 0.0.0.1

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Version 2.1, February 1999

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```
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```

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

That's all there is to it!

## 1.9 freetype 2.9.1

### 1.9.1 Available under license :

```
# 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/zip/adler32.c
src/zip/infblock.c
src/zip/infblock.h
src/zip/infcodes.c
src/zip/infcodes.h
src/zip/inffixed.h
src/zip/inflate.c
src/zip/inftrees.c
src/zip/inftrees.h
src/zip/infutil.c
src/zip/infutil.h
src/zip/zconf.h
```

```
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/frandom/frandom.c
#
# EOF
```

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The contributed BDF and PCF drivers come with a license similar to that of the X Window System. It is compatible to the above two licenses (see file `src/bdf/README` and `src/pcf/README`). The same holds for the files ``fthash.c'` and ``fthash.h'`; their code was part of the BDF driver in earlier FreeType versions.

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2006-Jan-27

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```
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```

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

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## 1.10 ftpd 0.17

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\*/

/\* \$USAGI: ftpd.c,v 1.7 2001/06/06 02:16:47 yoshfuji Exp \$ \*/

/\* \$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 $";

char copyright[] =
"@(#) Copyright (c) 1985, 1988, 1990, 1992, 1993, 1994\n"
" The Regents of the University of California. All rights reserved.\n";

/*
* 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

#ifndef 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;
#ifdef CMASK || CMASK == 0
#undef CMASK
#define CMASK 027
#endif
int defumask = CMASK; /* default umask value */
char tmpline[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 *sgetsave __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));
#endif

    /*
     * 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.
*/
#ifndef 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);
}

#ifdef TCPWRAPPERS
/* ..in the child. */
if (!check_host(&his_addr))
    exit(1);
#endif /* TCPWRAPPERS */

```

```

} else {
    addrln = sizeof(his_addr);
    if (getpeername(0, (struct sockaddr *)&his_addr,
        &addrln) < 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");

addrln = sizeof(ctrl_addr);
if (getsockname(0, (struct sockaddr *)&ctrl_addr, &addrln) < 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 (!key_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
        lreply(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, *dout;
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/ledctl -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
#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, toolong);
(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_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_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_ifs = 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;
            }
        } while (cnt > 0);
    }
}

```

```

    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/lis -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/EPSV */
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 removedir(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)
printf(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/EPST 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)",
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 {
onelfile[0] = whichf;
dirlist = onelfile;
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

sprintf(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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.\" $Id: ftpusers.5,v 1.11 2000/07/30 23:56:57 dholland Exp $
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```
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## 1.14 iptables 1.4.2

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## 1.16 lensmotor 1.0.2.1

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Version 2.1, February 1999

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

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

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

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

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

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

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

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

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library,

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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## 1.21 Linux 3.4.35

### 1.21.1 Available under license :

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

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

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

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

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

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is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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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)

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Version 1.0

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

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```

```

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

```

```

#if !defined(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 nfds_t;

```

```

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* 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 *, nfds_t, int);
#endif /* !_COMPAT_POLL_H_ */
#endif /* !HAVE_POLL_H */

```

```

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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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#ifdef _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 */
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```

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[Tatu continues]

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#### L I C E N S E

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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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