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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.3 boa 0.94.14

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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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1.4 busybox 1.22.1 :32.patch

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jseward@bzip.org

bzip2/libbzip2 version 1.0.4 of 20 December 2006

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1.6 ethtool 3

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1.8 fdipc 0.0.0.1

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Version 2.1, February 1999

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1.9 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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*/

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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 tmline[7];
char hostname[MAXHOSTNAMELEN];

```

```

char remotehost[MAXHOSTNAMELEN];
char dhostname[MAXHOSTNAMELEN];
char *guestpw;
static char ttyline[20];
char *tty = ttyline; /* for klogin */
static struct utmp utmp; /* for utmp */

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

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

char *ident = NULL;

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

int swaitmax = SWAITMAX;
int swaitint = SWAITINT;

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

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

```

```

*(file) == '/' ? "" : curdir(), file); \
else \
    syslog(LOG_INFO, "%s %s%s = %qd bytes", cmd, \
*(file) == '/' ? "" : curdir(), file, (quad_t)(cnt)); \
}

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

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

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

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

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

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

```

```

#endif /* __linux__ */

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

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

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

#ifdef __linux__
    initsetproctitle(argc, argv, envp);
    srand(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 {
    addrlen = sizeof(his_addr);
    if (getpeername(0, (struct sockaddr *)&his_addr,
        &addrlen) < 0) {
        syslog(LOG_ERR, "getpeername (%s): %m", argv[0]);
        exit(1);
    }
}

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

addrlen = sizeof(ctrl_addr);
if (getsockname(0, (struct sockaddr *)&ctrl_addr, &addrlen) < 0) {
    syslog(LOG_ERR, "getsockname (%s): %m", argv[0]);
    exit(1);
}
#ifdef IP_TOS
if (ctrl_addr.su_family == AF_INET)
{
    tos = IPTOS_LOWDELAY;
    if (setsockopt(0, IPPROTO_IP, IP_TOS, (char *)&tos, sizeof(int)) < 0)
        syslog(LOG_WARNING, "setsockopt (IP_TOS): %m");
}
#endif
#ifdef INET6
if (his_addr.su_family == AF_INET6 &&
    IN6_IS_ADDR_V4MAPPED(&his_addr.su_sin6.sin6_addr)) {
    /*
     * IPv4 control connection arrived to AF_INET6 socket.
     * I hate to do this, but this is the easiest solution.
     */
    struct sockaddr_in6 tmp_addr;

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

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```

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

```

```

save.pw_name = sgetsave(p->pw_name);
save.pw_passwd = sgetsave(p->pw_passwd);
save.pw_gecos = sgetsave(p->pw_gecos);
save.pw_dir = sgetsave(p->pw_dir);
save.pw_shell = sgetsave(p->pw_shell);
return (&save);
}

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

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

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

    guest = 0;
    if (strcmp(name, "ftp") == 0 || strcmp(name, "anonymous") == 0) {
        if (checkuser(_PATH_FTPUSERS, "ftp") ||
            checkuser(_PATH_FTPUSERS, "anonymous"))
            reply(530, "User %s access denied.", name);
        else if ((pw = sgetpwnam("ftp")) != NULL) {
            guest = 1;
            askpasswd = 1;
            reply(331,
                "Guest login ok, type your name as password.");
        }
    }
}

```

```

} else
reply(530, "User %s unknown.", name);
if (!askpasswd && logging)
syslog(LOG_NOTICE,
"ANONYMOUS FTP LOGIN REFUSED FROM %s", remotehost);
return;
}
if (anon_only && !checkuser(_PATH_FTPCHROOT, name)) {
reply(530, "Sorry, only anonymous ftp allowed.");
return;
}

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

if (cp == NULL || checkuser(_PATH_FTPUSERS, name)) {
reply(530, "User %s access denied.", name);
if (logging)
syslog(LOG_NOTICE,
"FTP LOGIN REFUSED FROM %s, %s",
remotehost, name);
pw = (struct passwd *) NULL;
return;
}
}

if (logging) {
strncpy(curname, name, sizeof(curname)-1);
curname[sizeof(curname)-1] = '\0';
}
#ifdef SKEY
if (!skey_haskey(name)) {
char *myskey, *skey_keyinfo __P((char *name));

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

askpasswd = 1;
/*
* Delay before reading passwd after first failed

```

```

* attempt to slow down passwd-guessing programs.
*/
if (login_attempts)
    sleep((unsigned) login_attempts);
}

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

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

/*
* Terminate login as previous user, if any, resetting state;
* used when USER command is given or login fails.
*/
static void end_login(void)
{
    sigset_t allsigs;
    sigfillset (&allsigs);
    sigprocmask (SIG_BLOCK, &allsigs, NULL);
    (void) seteuid((uid_t)0);
    if (logged_in) {
        ftpdlogwtmp(ttyline, "", "");
        if (doutmp)
            logout(utmp.ut_line);
    }
    pw = NULL;
    logged_in = 0;
}

```

```

guest = 0;
dochroot = 0;
}

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

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

/* Sleep between 1 and 3 seconds to emulate a crypt. */
#ifdef __linux__
us = arc4random() % 3000000;
#else
us = random() % 3000000;
#endif
usleep(us);
rval = 1; /* failure below */
goto skip;
}
#ifdef KERBEROS
rval = klogin(pw, "", hostname, passwd);
if (rval == 0)
goto skip;
#endif
#ifdef SKEY
if (skey_haskey(pw->pw_name) == 0 &&
(key_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)
#if 0
|| *pw->pw_passwd == '\0'
#endif
)
#endif

```

```

) {
    rval = 1; /* failure */
    goto skip;
}
rval = 0;

skip:
/*
 * If rval == 1, the user failed the authentication check
 * above. If rval == 0, either Kerberos or local authentication
 * succeeded.
 */
if (rval) {
    reply(530, "Login incorrect.");
    if (logging)
        syslog(LOG_NOTICE,
            "FTP LOGIN FAILED FROM %s, %s",
            remotehost, curname);
    pw = NULL;
    if (login_attempts++ >= 5) {
        syslog(LOG_NOTICE,
            "repeated login failures from %s",
            remotehost);
        exit(0);
    }
    return;
} else {
    /* Save anonymous' password. */
    guestpw = strdup(passwd);
    if (guestpw == (char *)NULL)
        fatal("Out of memory");
}
login_attempts = 0; /* this time successful */
#ifdef USE_SHADOW
switch (isexpired(spw)) {
    case 0: /* success */
        break;
    case 1:
        syslog(LOG_NOTICE, "expired password from %s, %s",
            remotehost, pw->pw_name);
        reply(530, "Please change your password and try again.");
        return;
    case 2:
        syslog(LOG_NOTICE, "inactive login from %s, %s",
            remotehost, pw->pw_name);
        reply(530, "Login inactive -- contact administrator.");
        return;
}

```

```

    case 3:
        syslog(LOG_NOTICE, "expired login from %s, %s",
            remotehost, pw->pw_name);
        reply(530, "Account expired -- contact administrator.");
        return;
    }
#endif
if (setegid((gid_t)pw->pw_gid) < 0) {
    reply(550, "Can't set gid.");
    return;
}
(void) initgroups(pw->pw_name, pw->pw_gid);

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

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

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

logged_in = 1;

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

        /* Compute root directory. */
        snprintf(rootdir, sizeof(rootdir), "%s/%s",
            pw->pw_dir, dhostname);
        if (stat(rootdir, &ts) < 0) {
            snprintf(rootdir, sizeof(rootdir), "%s/%s",
                pw->pw_dir, hostname);
        }
    } else
        strcpy(rootdir, pw->pw_dir);
}

```

```

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

/*
 * Set home directory so that use of ~ (tilde) works correctly.
 */
if (getcwd(homedir, MAXPATHLEN) != NULL)
    setenv("HOME", homedir, 1);

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

    while (fgets(line, sizeof(line), fd) != NULL) {

```

```

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

```

```

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

```

```

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

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

        n = restart_point;
        i = 0;
        while (i++ < n) {
            if ((c=getc(fin)) == EOF) {
                perror_reply(550, name);
                goto done;
            }
            if (c == '\n')
                i++;
        }
    } else if (lseek(fileno(fin), restart_point, SEEK_SET) < 0) {
        perror_reply(550, name);
        goto done;
    }
}
dout = dataconn(name, st.st_size, "w");

```

```

if (dout == NULL)
    goto done;
time(&start);
send_data(fin, dout, st.st_blksize, st.st_size,
    (restart_point == 0 && cmd == 0 && S_ISREG(st.st_mode)));
if ((cmd == 0) && stats)
    logxfer(name, st.st_size, start);
(void) fclose(dout);
data = -1;
pdata = -1;
done:
if (cmd == 0)
    LOGBYTES("get", name, byte_count);
(*closefunc)(fin);
}

```

```

#if 0
void store(const char *name, const char *mode, int unique)
{
    FILE *fout, *din;
    int (*closefunc) __P((FILE *));
    struct stat st;
    int fd;

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

        fd = guniquefd(name, &nam);
        if (fd == -1) {
            LOGCMD(*mode == 'w' ? "put" : "append", name);
            return;
        }
        name = nam;
        if (restart_point)
            mode = "r+";
        fout = fdopen(fd, mode);
    } else
        fout = fopen(name, mode);

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

```

```

off_t i, n;
int c;

n = restart_point;
i = 0;
while (i++ < n) {
    if ((c=getc(fout)) == EOF) {
        perror_reply(550, name);
        goto done;
    }
    if (c == '\n')
        i++;
}
/*
 * We must do this seek to "current" position
 * because we are changing from reading to
 * writing.
 */
if (fseek(fout, 0L, SEEK_CUR) < 0) {
    perror_reply(550, name);
    goto done;
}
} else if (lseek(fileno(fout), restart_point, SEEK_SET) < 0) {
    perror_reply(550, name);
    goto done;
}
}
din = dataconn(name, (off_t)-1, "r");
if (din == NULL)
    goto done;
if (receive_data(din, fout) == 0) {
    if (unique)
        reply(226, "Transfer complete (unique file name:%s).",
            name);
    else
        reply(226, "Transfer complete.");
}
(void) fclose(din);
data = -1;
pdata = -1;
done:
LOGBYTES(*mode == 'w' ? "put" : "append", name, byte_count);
(*closefunc)(fout);
}
#else
void store (const char *name, const char *mode, int unique)
{
    FILE *fout, *din;

```

```

struct stat st;
int (*closefunc) __P ((FILE *));
int ireboot = 0;

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

if (restart_point)
    mode = "r+";
// upgrade must use BINARY mode
if ((strcmp(name, "flash.pkg") == 0 || strcmp(name, "flashall.bin") == 0 ||
    strcmp(name, "flash.bin") == 0 || strcmp(name, "l1boot.bin") == 0 ||
    strcmp(name, "l1loader.bin") == 0 || strcmp(name, "l2boot.bin") == 0) &&
    strcmp(name, "flash.bin") == 0 || strcmp(name, "l1all.bin") == 0 ||
    strcmp(name, "l2boot.bin") == 0) && type == TYPE_A)
{
    perror_reply (553, "Use BINARY mode to upgrade firmware");
    return;
}
// modify by Jason for unpack pkg firmware file
/* if (strcmp(name, "flash.pkg") == 0)*/
/* {*/
/*     fout = popen("update_firmpkg FTP", "w");*/
/*     closefunc = pclose;*/
/* }*/
/* else*/
{
    fout = fopen (name, mode);
    closefunc = fclose;
}
if (fout == NULL)
{
    perror_reply (553, name);
    LOGCMD (*mode == 'w' ? "put" : "append", name);
    return;
}
byte_count = -1;
if (restart_point)
{
    if (type == TYPE_A)
    {
        off_t i, n;
        int c;

```

```

n = restart_point;
i = 0;
while (i++ < n)
{
    c = getc (fout);
    if (c == EOF)
    {
        perror_reply (550, name);
        goto done;
    }
    if (c == '\n')
i++;
}
/* We must do this seek to "current" position
because we are changing from reading to
writing. */
if (fseek (fout, 0L, SEEK_CUR) < 0)
{
    perror_reply (550, name);
    goto done;
}
}
else if (lseek (fileno(fout), restart_point, SEEK_SET) < 0)
{
    perror_reply (550, name);
    goto done;
}
}
din = dataconn (name, (off_t)-1, "r");
if (din == NULL)
    goto done;
// modify by Jason for unpack pkg firmware file
if (strcmp(name, "flash.pkg") == 0 ||
    strcmp(name, "flashall.bin") == 0 ||
    strcmp(name, "flash.bin") == 0 ||
    strcmp(name, "l1all.bin") == 0 ||
    strcmp(name, "l2boot.bin") == 0)
{
    printf("214-firmware upgrade begin\n");
    fflush(stdout);
}
if (receive_data (din, fout) == 0)
{
    if (unique)
        reply (226, "Transfer complete (unique file name:%s).", name);
    else
    {
        // modified by Jason, for upgrade firmware

```

```

    if (strcmp(name, "flashall.bin") == 0)
    {
        printf("Upgrade ROM image\n");
        fflush(stdout);
        system("/usr/bin/ledctrl -f /tmp/led.fifo -r ENABLE=FW_UPGRADE");
        system("/etc/init.d/httpd stop > /dev/null");
        system("/etc/init.d/inetd stop > /dev/null");
        system("run-parts -a stop /etc/rcK.d > /dev/null");
        system("/etc/init.d/configer stop > /dev/null");
        system("umount -l /mnt/flash*");
        // PE requirement: If upgrade ROM fail, retry infinitely
        {
            signal(SIGCHLD, SIG_DFL);
            int status=255;
            do {
                status = system("/usr/bin/flashmgr writeall /mnt/ramdisk/flashall.bin");
            } while (WEXITSTATUS(status) != 0);
            signal(SIGCHLD, SIG_IGN);
        }
        system("flashmgr eraseFS");
        ireboot = 1;
    }
    else if (strcmp(name, "flash.pkg") == 0)
    {
        system("update_firmpkg FTP");
    }
    else if (strcmp(name, "flash.bin") == 0)
    {
        printf("Upgrade system image\n");
        fflush(stdout);
        system("/etc/init.d/farseer stop > /dev/null");
        system("/etc/init.d/inetd stop > /dev/null");
        system("/usr/bin/flashmgr writebootp /mnt/ramdisk/flash.bin");
        ireboot = 1;
    }
    else if (strcmp(name, "l1all.bin") == 0)
    {
        printf("Upgrade L1 bootloader image\n");
        fflush(stdout);
        system("/usr/bin/flashmgr writel1boot /mnt/ramdisk/l1all.bin");
        ireboot = 1;
    }
    else if (strcmp(name, "l2boot.bin") == 0)
    {
        printf("Upgrade L2 boot image\n");
        fflush(stdout);
        system("/usr/bin/flashmgr writel2boot /mnt/ramdisk/l2boot.bin");
        ireboot = 1;
    }

```

```

    }
    // modified by Jason, for upload config.ini
    else if (strcmp(name, "config.ini") == 0)
    {
system("/usr/bin/reloadconfigini");
    }

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

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

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

if (data >= 0)
return (fdopen(data, mode));
sigfillset(&allsigs);
sigprocmask (SIG_BLOCK, &allsigs, NULL);
(void) seteuid((uid_t)0);
s = socket(data_dest.su_family, SOCK_STREAM, 0);
if (s < 0)
goto bad;
if (setsockopt(s, SOL_SOCKET, SO_REUSEADDR,
(char *) &on, sizeof(on)) < 0)
goto bad;

```

```

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

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

```

```

t = errno;
(void) seteuid((uid_t)pw->pw_uid);
sigfillset (&allsigs);
sigprocmask (SIG_UNBLOCK, &allsigs, NULL);
(void) close(s);
errno = t;
return (NULL);
}

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

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

signal (SIGALRM, tolong);
(void) alarm ((unsigned) timeout);
s = accept(pdata, (struct sockaddr *)&from, &fromlen);
(void) alarm (0);
if (s < 0) {
reply(425, "Can't open data connection.");
(void) close(pdata);
pdata = -1;
return (NULL);
}
if (ntohs(from.su_port) < IPPORT_RESERVED) {
perror_reply(425, "Can't build data connection");
(void) close(pdata);
(void) close(s);
pdata = -1;
return (NULL);
}
if ((from.su_family == AF_INET &&
from.su_sin.sin_addr.s_addr !=
his_addr.su_sin.sin_addr.s_addr)
#ifdef INET6

```

```

    || (from.su_family == AF_INET6 &&
    !IN6_ARE_ADDR_EQUAL(&from.su_sin6.sin6_addr,
    &his_addr.su_sin6.sin6_addr))
#endif
) {
    perror_reply(435, "Can't build data connection");
    (void) close(pdata);
    (void) close(s);
    pdata = -1;
    return (NULL);
}
(void) close(pdata);
pdata = s;
#ifdef IP_TOS
if (from.su_family == AF_INET)
{
    tos = IPTOS_THROUGHPUT;
    (void) setsockopt(s, IPPROTO_IP, IP_TOS, (char *)&tos,
    sizeof(int));
}
#endif
reply(150, "Opening %s mode data connection for '%s'%s.",
    type == TYPE_A ? "ASCII" : "BINARY", name, sizebuf);
return (fdopen(pdata, mode));
}
if (data >= 0) {
    reply(125, "Using existing data connection for '%s'%s.",
    name, sizebuf);
    usedefault = 1;
    return (fdopen(data, mode));
}
if (usedefault)
    data_dest = his_addr;
usedefault = 1;
file = getdatasock(mode);
if (file == NULL) {
    char hbuf[MAXHOSTNAMELEN], pbuf[10];

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

/*

```

```

* attempt to connect to reserved port on client machine;
* this looks like an attack
*/
if (ntohs(data_dest.su_port) < IPPORT_RESERVED ||
    ntohs(data_dest.su_port) == 2049) { /* XXX */
    perror_reply(425, "Can't build data connection");
    (void) fclose(file);
    data = -1;
    return NULL;
}
if ((data_dest.su_family == AF_INET &&
    data_dest.su_sin.sin_addr.s_addr !=
    his_addr.su_sin.sin_addr.s_addr)
#ifdef INET6
    || (data_dest.su_family == AF_INET6 &&
    !IN6_ADDR_EQUAL(&data_dest.su_sin6.sin6_addr,
        &his_addr.su_sin6.sin6_addr))
#endif
) {
    perror_reply(435, "Can't build data connection");
    (void) fclose(file);
    data = -1;
    return NULL;
}
while (connect(data, (struct sockaddr *)&data_dest,
    sizeof(data_dest)) < 0) {
    if (errno == EADDRINUSE && retry < swaitmax) {
        sleep((unsigned) swaitint);
        retry += swaitint;
        continue;
    }
    perror_reply(425, "Can't build data connection");
    (void) fclose(file);
    data = -1;
    return (NULL);
}
reply(150, "Opening %s mode data connection for '%s'%s.",
    type == TYPE_A ? "ASCII" : "BINARY", name, sizebuf);
return (file);
}

/*
* Transfer the contents of "instr" to "outstr" peer using the appropriate
* encapsulation of the data subject to Mode, Structure, and Type.
*
* NB: Form isn't handled.
*/
static void send_data(FILE *instr, FILE *outstr, off_t blksize, off_t filesize, int isreg)

```

```

{
int c, cnt, filefd, netfd;
char *buf, *bp;
size_t len, size;

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

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

case TYPE_I:
case TYPE_L:
/*
* isreg is only set if we are not doing restart and we
* are sending a regular file
*/
netfd = fileno(outstr);
filefd = fileno(instr);

if (isreg && filesize < (off_t)16 * 1024 * 1024) {
buf = mmap(0, filesize, PROT_READ, MAP_SHARED, filefd,
(off_t)0);
if (buf==MAP_FAILED || buf==NULL) {
syslog(LOG_WARNING, "mmap(%lu): %m",
(unsigned long)filesize);
goto oldway;
}
}

```

```

bp = buf;
len = filesize;
do {
    cnt = write(netfd, bp, len);
    len -= cnt;
    bp += cnt;
    if (cnt > 0) byte_count += cnt;
} while(cnt > 0 && len > 0);

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

oldway:
size = blksize * 16;

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

#ifdef TCP_CORK
{
    int on = 1;
    setsockopt(netfd, SOL_TCP, TCP_CORK, &on, sizeof on);
    /* failure is harmless */
}
#endif
while ((cnt = read(filefd, buf, size)) > 0 &&
        write(netfd, buf, cnt) == cnt)
    byte_count += cnt;
#ifdef TCP_CORK
{
    int off = 0;
    setsockopt(netfd, SOL_TCP, TCP_CORK, &off, sizeof off);
}
#endif
transflag = 0;
(void)free(buf);
if (cnt != 0) {
    if (cnt < 0)
        goto file_err;
    goto data_err;
}

```

```

    }
    reply(226, "Transfer complete.");
    return;
default:
    transflag = 0;
    reply(550, "Unimplemented TYPE %d in send_data", type);
    return;
}

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

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

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

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

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

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

```

```

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

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

case TYPE_A:
while ((c = getc(instr)) != EOF) {
    byte_count++;
    if (c == '\n')
        bare_lfs++;
    while (c == '\r') {
        if (ferror(outstr))
            goto data_err;
        if ((c = getc(instr)) != '\n') {
            (void) putc ('\r', outstr);
            if (c == '\0' || c == EOF)
                goto contin2;
        }
    }
    (void) putc(c, outstr);
contin2: ;
}
fflush(outstr);
if (ferror(instr))
    goto data_err;
if (ferror(outstr))
    goto file_err;
transflag = 0;
if (bare_lfs) {
    lreply(226,
"WARNING! %d bare linefeeds received in ASCII mode",
    bare_lfs);
(void)printf(" File may not have transferred correctly.\r\n");
}
return (0);
default:
reply(550, "Unimplemented TYPE %d in receive_data", type);

```

```

    transflag = 0;
    return (-1);
}

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

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

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

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

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

```

```

reply(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
}
}

```

```

#endif
}
/* beware of flushing buffers after a SIGPIPE */
_exit(status);
}

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

(void)signo;

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

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

```

```

#ifdef IP_PORTRANGE
int on;
#else
u_short port;
#endif
char *p, *a;

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

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

```

```

}

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

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

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

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

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

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

```

```

else
    reply(501, "Network protocol mismatch"); /*XXX*/

return;
}

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

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

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

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

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

```

```

goto pasv_error;
if (listen(pdata, 1) < 0)
goto pasv_error;

p = (u_char *) &pasv_addr.su_port;
if (strcmp(cmd, "LPSV") == 0) {
if (pasv_addr.su_family == AF_INET) {
a = (u_char *) &pasv_addr.su_sin.sin_addr;
reply(228,
"Entering Long Passive Mode (%u,%u,%u,%u,%u,%u,%u,%u,%u,%u)",
4, 4, a[0], a[1], a[2], a[3], 2, p[0], p[1]);
#ifdef INET6
} else if (pasv_addr.su_family == AF_INET6) {
a = (u_char *) &pasv_addr.su_sin6.sin6_addr;
reply(228,
"Entering Long Passive Mode (%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u)",
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)snprintf(cp, sizeof(new) - (cp - new), "%d", count);
fd = open(new, O_RDWR|O_CREAT|O_EXCL, 0666);
if (fd == -1)
    continue;
if (nam)
    *nam = new;
return (fd);
}
reply(452, "Unique file name cannot be created.");
return (-1);
}
#else
static char * gunique (const char *local)
{
static char *string = 0;
struct stat st;
int count;
char *cp;

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

if (string)
    free (string);

string = malloc (strlen (local) + 5); /* '.' + DIG + DIG + '\0' */
if (string)
{
strcpy (string, local);
cp = string + strlen (string);
*cp++ = '!';
for (count = 1; count < 100; count++)

```

```

{
(void)sprintf(cp, "%d", count);
if (stat(string, &st) < 0)
return string;
}
}

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

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

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

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

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

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

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

```

```

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

if (setjmp(urgcatch)) {
    transflag = 0;
    goto out;
}
while ((dirname = *dirlist++) != NULL) {
    if (stat(dirname, &st) < 0) {
        /*
         * If user typed "ls -l", etc, and the client
         * used NLST, do what the user meant.
         */
        if (dirname[0] == '-' && *dirlist == NULL &&
            transflag == 0) {
            retrieve("/bin/ls %s", dirname);
            goto out;
        }
        perror_reply(550, whichf);
        if (dout != NULL) {
            (void) fclose(dout);
            transflag = 0;
            data = -1;
            pdata = -1;
        }
        goto out;
    }

    if (S_ISREG(st.st_mode)) {
        if (dout == NULL) {
            dout = dataconn("file list", (off_t)-1, "w");
            if (dout == NULL)
                goto out;
            transflag++;
        }
    }
}

```

```

}
fprintf(dout, "%s%s\n", dirname,
type == TYPE_A ? "\r" : "");
byte_count += strlen(dirname) + 1;
continue;
} else if (!S_ISDIR(st.st_mode))
continue;

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

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

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

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

/*
 * We have to do a stat to insure it's
 * not a directory or special file.
 */
if (simple || (stat(nbuf, &st) == 0 &&
S_ISREG(st.st_mode))) {
if (dout == NULL) {
dout = dataconn("file list", (off_t)-1,
"w");
if (dout == NULL)
goto out;
transflag++;
}
if (nbuf[0] == '.' && nbuf[1] == '/')
fprintf(dout, "%s%s\n", &nbuf[2],
type == TYPE_A ? "\r" : "");
else
fprintf(dout, "%s%s\n", nbuf,

```

```

        type == TYPE_A ? "\r" : "");
    byte_count += strlen(nbuf) + 1;
    }
}
(void) closedir(dirp);
}

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

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

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

    (void)signo;

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

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

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

```

```

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

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

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

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

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

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

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

    if (strcmp(hbuf, addr)) {
        if (!hosts_ctl("ftpd", hbuf, addr, STRING_UNKNOWN)) {
            syslog(LOG_NOTICE, "tcpwrappers rejected: %s [%s]",
                hbuf, addr);
            return (0);
        }
    }
}

```

```

}
} else {
if (!hosts_ctl("ftpd", STRING_UNKNOWN, addr, STRING_UNKNOWN)) {
    syslog(LOG_NOTICE, "tcpwrappers rejected: [%s]", addr);
    return (0);
}
}
return (1);
}
#endif /* TCPWRAPPERS */
.\" Copyright (c) 1994 Peter Tobias (tobias@server.et-inf.fho-emden.de),
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.\" $Id: ftpusers.5,v 1.11 2000/07/30 23:56:57 dholland Exp $
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1.13 iptables 1.4.2

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1.15 lensmotor 1.0.2.1

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1.16 libfuse 2.9.3

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1.17 libJPEG 9 :9

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1.19 Linux kernel 3.18.20

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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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

```

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```

```
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```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{  
  return (strcmp(license, "GPL") == 0  
    || strcmp(license, "GPL v2") == 0  
    || strcmp(license, "GPL and additional rights") == 0  
    || strcmp(license, "Dual BSD/GPL") == 0  
    || strcmp(license, "Dual MIT/GPL") == 0  
    || strcmp(license, "Dual MPL/GPL") == 0);  
}
```

```
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```

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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
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1.26 smtpclient 1.0.0

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SMTPclient -- simple SMTP client

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```
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```

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```
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```

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1.29 sysklogd 1.5.0

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```
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```

```
<signature of Ty Coon>, 1 April 1989
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1.30 u-boot 2010.6

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```

```
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1.35 zlib 1.2.8 :3.0

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