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## 1.5 bstring 05122010

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## 1.6 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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## 1.8 ethtool 3

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```

* SUCH DAMAGE.
*/

/*
* 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

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

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

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

#ifdef SKEY

```

```

#include <skey.h>
#endif

#include "pathnames.h"
#include "extern.h"

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

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

extern off_t restart_point;
extern char cbuf[];

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

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

```

```

int stru; /* avoid C keyword */
int mode;
int doutmp = 0; /* update utmp file */
int usedefault = 1; /* for data transfers */
int pdata = -1; /* for passive mode */
int epsvall = 0; /* for EPSV ALL */
sig_atomic_t transflag;
off_t file_size;
off_t byte_count;
#if !defined(CMASK) || CMASK == 0
#undef CMASK
#define CMASK 027
#endif
int defumask = CMASK; /* default umask value */
char 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 = "AddDhLMSt:T:u:UvP46";
    int family = AF_UNSPEC;
    int enable_v4 = 0;
#else
    const char *argstr = "AddDhLMSt:T:u:UvP4";
    int family = AF_INET;
    int enable_v4 = 1;
#endif
    struct addrinfo hints, *res;

```

```

int error;

#ifdef __linux__
initsetproctitle(argc, argv, envp);
srandom(time(NULL)^(getpid()<<8));

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

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

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

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

        case 'd':
            debug = 1;
            break;

        case 'D':
            daemon_mode = 1;
            break;

        case 'P':
            portcheck = 0;
            break;

        case 'h':

```

```
high_data_ports = 1;
break;

case 'l':
logging++; /* > 1 == extra logging */
break;

case 'M':
multihome = 1;
break;

case 'S':
stats = 1;
break;

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

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

case 'u':
{
long val = 0;

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

case 'U':
doutmp = 1;
break;

case 'v':
debug = 1;
break;

case '4':
```

```

enable_v4 = 1;
if (family == AF_UNSPEC)
    family = AF_INET;
break;
#ifdef INET6
case '6':
    family = AF_INET6;
    break;
#endif

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

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

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

if (daemon_mode) {
    int ctl_sock, fd2;

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

```



```

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

```

```

while (1) {
    addrlen = sizeof(his_addr);
    fd2 = accept(ctl_sock, (struct sockaddr *)&his_addr,
        &addrlen);
    if (fork() == 0) {
        /* child */
        (void) dup2(fd2, 0);
        (void) dup2(fd2, 1);
        close(ctl_sock);
        break;
    }
    close(fd2);
}

#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

```

```

}
#endif
#ifdef INET6
if (his_addr.su_family == AF_INET6 &&
    IN6_IS_ADDR_V4MAPPED(&his_addr.su_sin6.sin6_addr)) {
/*
 * IPv4 control connection arrived to AF_INET6 socket.
 * I hate to do this, but this is the easiest solution.
 */
struct sockaddr_in6 tmp_addr;

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

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

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

/* If logins are disabled, print out the message. */

```

```

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

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

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

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

```

```

/*
 * Signal handlers.
 */

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

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

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

    dologout(-1);
}

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

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

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

```

```

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

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

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

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

```

```

reply(530, "Can't change user from chroot user.");
return;
}
end_login();
}

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

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

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

```

```

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

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

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

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

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

```



```

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

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

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

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

```

```

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)
#if 0
    || *pw->pw_passwd == '\0'
#endif
) {
    rval = 1; /* failure */
    goto skip;
}
rval = 0;

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

```

```

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

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

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

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

logged_in = 1;

```

```

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

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

```

```

sigprocmask(SIG_UNBLOCK,&allsigs,NULL);

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

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

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

```

```

        syslog(LOG_INFO, "FTP LOGIN FROM %s as %s",
            remotehost, pw->pw_name);
    }
    (void) umask(defumask);
    return;
bad:
    /* Forget all about it... */
    end_login();
}

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

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

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

```

```

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

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

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

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

```

```

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

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

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

```



```

    reply(226, "Transfer complete (unique file name:%s).",
        name);
else
    reply(226, "Transfer complete.");
}
(void) fclose(din);
data = -1;
pdata = -1;
done:
LOGBYTES(*mode == 'w' ? "put" : "append", name, byte_count);
(*closefunc)(fout);
}
#else
void store (const char *name, const char *mode, int unique)
{
FILE *fout, *din;
struct stat st;
int (*closefunc) __P ((FILE *));
int ireboot = 0;

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

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

```

```

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

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

```

```

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

```

```

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

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

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

```

```

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

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

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

```

```

*/
on = 1;
if (setsockopt(s, IPPROTO_TCP, TCP_NOPUSH, (char *)&on, sizeof on) < 0)
    syslog(LOG_WARNING, "setsockopt (TCP_NOPUSH): %m");
#endif
/* if 0 /* Respect the user's settings */
#ifdef SO_SNDBUF
on = 65536;
if (setsockopt(s, SOL_SOCKET, SO_SNDBUF, (char *)&on, sizeof on) < 0)
    syslog(LOG_WARNING, "setsockopt (SO_SNDBUF): %m");
#endif
#endif

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

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

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

signal (SIGALRM, tolong);
(void) alarm ((unsigned) timeout);
s = accept(pdata, (struct sockaddr *)&from, &fromlen);
(void) alarm (0);
if (s < 0) {

```

```

reply(425, "Can't open data connection.");
(void) close(pdata);
pdata = -1;
return (NULL);
}
if (ntohs(from.su_port) < IPPORT_RESERVED) {
perror_reply(425, "Can't build data connection");
(void) close(pdata);
(void) close(s);
pdata = -1;
return (NULL);
}
if ((from.su_family == AF_INET &&
from.su_sin.sin_addr.s_addr !=
his_addr.su_sin.sin_addr.s_addr)
#ifdef INET6
|| (from.su_family == AF_INET6 &&
!IN6_ADDR_EQUAL(&from.su_sin6.sin6_addr,
&his_addr.su_sin6.sin6_addr))
#endif
) {
perror_reply(435, "Can't build data connection");
(void) close(pdata);
(void) close(s);
pdata = -1;
return (NULL);
}
(void) close(pdata);
pdata = s;
#ifdef IP_TOS
if (from.su_family == AF_INET)
{
tos = IPTOS_THROUGHPUT;
(void) setsockopt(s, IPPROTO_IP, IP_TOS, (char *)&tos,
sizeof(int));
}
#endif
reply(150, "Opening %s mode data connection for '%s'%s.",
type == TYPE_A ? "ASCII" : "BINARY", name, sizebuf);
return (fdopen(pdata, mode));
}
if (data >= 0) {
reply(125, "Using existing data connection for '%s'%s.",
name, sizebuf);
usedefault = 1;
return (fdopen(data, mode));
}
if (usedefault)

```

```

data_dest = his_addr;
usedefault = 1;
file = getdatasock(mode);
if (file == NULL) {
char hbuf[MAXHOSTNAMELEN], pbuf[10];

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

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

```



```

(void) fclose(file);
data = -1;
return (NULL);
}
reply(150, "Opening %s mode data connection for '%s'%s.",
      type == TYPE_A ? "ASCII" : "BINARY", name, sizebuf);
return (file);
}

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

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

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

case TYPE_I:

```

```

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

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

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

oldway:
size = blksize * 16;

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

#ifdef TCP_CORK
{
    int on = 1;
    setsockopt(netfd, SOL_TCP, TCP_CORK, &on, sizeof on);
    /* failure is harmless */
}

```

```

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

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

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

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

```

```

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

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

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

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

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

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

```

```

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

```

```

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

```

```

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

```

```

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

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

```

```

if (ferror(fin)) {
    perror_reply(551, filename);
    (void) ftpd_pclose(fin);
    return;
}
(void) putc('\r', stdout);
}
(void) putc(c, stdout);
}
(void) ftpd_pclose(fin);
reply(211, "End of Status");
}

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

    lreply(211, "%s FTP server status:", hostname, version);
    printf("  %s\r\n", version);
    printf("  Connected to %s", remotehost);
    getnameinfo((struct sockaddr *)&his_addr, sizeof(his_addr),
        hbuf, sizeof(hbuf), NULL, 0, NI_NUMERICHOST);
    if (strcmp(remotehost, hbuf) != 0)
        printf(" (%s)", hbuf);
    printf("\r\n");
    if (logged_in) {
        if (guest)
            printf("  Logged in anonymously\r\n");
        else
            printf("  Logged in as %s\r\n", pw->pw_name);
    } else if (askpasswd)
        printf("  Waiting for password\r\n");
    else
        printf("  Waiting for user name\r\n");
    printf("  TYPE: %s", typenames[type]);
    if (type == TYPE_A || type == TYPE_E)
        printf(", FORM: %s", formnames[form]);
    if (type == TYPE_L)
#ifdef 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 rmdir(char *name)
{
    LOGCMD("rmdir", name);
    if (rmdir(name) < 0)
        perror_reply(550, name);
    else
        ack("RMD");
}

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

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

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

```

```

if (stat(name, &st) < 0) {
    perror_reply(550, name);
    return ((char *)0);
}
reply(350, "File exists, ready for destination name");
return (name);
}

void renamecmd(char *from, char *to)
{

    LOGCMD2("rename", from, to);
    if (rename(from, to) < 0)
        perror_reply(550, "rename");
    else
        ack("RNTO");
}

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

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

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

/*
 * Record logout in wtmp file
 * and exit with supplied status.
 */

```

```

void dologout(int status)
{
    sigset_t allsigs;

    transflag = 0;

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

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

    (void)signo;

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

```

```

else
    reply(213, "Status: %qd bytes transferred",
        (quad_t)byte_count);
}
errno = save_errno;
}

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

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

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

```

```

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

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

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

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

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

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

```

```

socklen_t len;
#ifdef IP_PORTRANGE
int on;
#else
u_short port;
#endif
u_char *p, *a;

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

return;
}

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

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

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

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

```



```

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

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

p = (u_char *) &pasv_addr.su_port;
if (strcmp(cmd, "LPSV") == 0) {
    if (pasv_addr.su_family == AF_INET) {
        a = (u_char *) &pasv_addr.su_sin.sin_addr;
        reply(228,
            "Entering Long Passive Mode (%u,%u,%u,%u,%u,%u,%u,%u,%u,%u)",
            4, 4, a[0], a[1], a[2], a[3], 2, p[0], p[1]);
#ifdef INET6
    } else if (pasv_addr.su_family == AF_INET6) {
        a = (u_char *) &pasv_addr.su_sin6.sin6_addr;
        reply(228,
            "Entering Long Passive Mode (%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u,%u)",
            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("EPR") == 1) {
#ifdef INET6
    } else if (port_check_v6("EPR") == 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 */
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.\" $Id: ftpusers.5,v 1.11 2000/07/30 23:56:57 dholland Exp $
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Version 2, June 1991

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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

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

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# 1.20 libJPEG 9 :9

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=====

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=====  
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```
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## 1.23 Linux 3.4.35

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Version 2, June 1991

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>  
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>  
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch  
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>  
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>  
Ragnar Hojland Espinosa <ragnar@macula.net>  
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

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Ralph Metzler <rjkm@metzlerbros.de>  
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for his AFC kernel thread

Christoph Martin <martin@uni-mainz.de>  
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>  
Dennis Noermann <dennis.noermann@noernet.de>  
Felix Domke <tmbinc@elitedvb.net>  
Florian Schirmer <jolt@tuxbox.org>  
Ronny Strutz <3des@elitedvb.de>  
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Peter Schildmann <peter.schildmann@web.de>  
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Vadim Catana <skystar@moldova.cc>  
Roberto Ragusa <r.ragusa@libero.it>  
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Michael Dreher <michael@5dot1.de>  
Andreas 'randy' Weinberger  
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Kenneth Aafly <ke-aa@frisurf.no>  
for adding support for Typhoon DVB-S budget card

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

Peter Beutner <p.beutner@gmx.net>

for the IR code for the ttusb-dec driver

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for the nxt2002 frontend driver

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

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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

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

\*

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

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

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

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

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

\* and spelling mistakes.

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

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

\* re-established. (put back CFG\_PHYIE)

\*  
 \* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.  
 \*  
 \* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997  
 \*  
 \* Linux driver for the IDT77201 NICStAR PCI ATM controller.  
 \* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;  
 \* see init\_nicstar() for PHY initialization to change this. This driver  
 \* expects the Linux ATM stack to support scatter-gather lists  
 \* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.  
 \*  
 \* Implementing minimal-copy of received data:  
 \* IDT always receives data into a small buffer, then large buffers  
 \* as needed. This means that data must always be copied to create  
 \* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)  
 \* Fix is simple: make large buffers large enough to hold entire  
 \* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then  
 \* copy small buffer contents to head of large buffer.  
 \* Trick is to avoid fragmenting Linux, due to need for a lot of large  
 \* buffers. This is done by 2 things:  
 \* 1) skb->destructor / skb->atm.recycle\_buffer  
 \* combined, allow nicstar\_free\_rx\_skb to be called to  
 \* recycle large data buffers  
 \* 2) skb\_clone of received buffers  
 \* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
 \* details.  
 \*  
 \*  
 \*  
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 \*  
 \* M. Welsh, 6 July 1996  
 \*  
 \*

\*/

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Please keep the following list in alphabetical order.

Suman Anna  
Sripal Bagadia  
Felipe Balbi  
Ohad Ben-Cohen  
Phil Carmody  
Deepak Chitriki  
Felipe Contreras  
Hiroshi Doyu  
Seth Forshee  
Ivan Gomez Castellanos  
Mark Grosen  
Ramesh Gupta G  
Fernando Guzman Lugo  
Axel Haslam  
Janet Head  
Shivananda Hebbar  
Hari Kanigeri  
Tony Lindgren  
Antonio Luna  
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Nishanth Menon  
Ameya Palande  
Vijay Pasam  
Gilbert Pitney  
Omar Ramirez Luna  
Ernesto Ramos  
Chris Ring  
Larry Schiefer  
Rebecca Schultz Zavin  
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Andy Shevchenko  
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```
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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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## 1.28 openssl 1.0.2o :0



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

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```

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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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```
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 *
 * Implementation of user-space PPPoE redirector for Linux.
 *
 * Copyright (C) 2000-2006 by Roaring Penguin Software Inc.
 *
 */
```

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\*\*\*\*\*/

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### L I C E N S E

SMTPclient -- simple SMTP client

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Ralf S. Engelschall  
rse@engelschall.com  
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## 1.31 SQLite 3.8.8.2

## 1.32 stunnel 5.44

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```
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```

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

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

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```
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under certain conditions; type 'show c' for details.
```

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```
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```

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

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## 1.34 u-boot 2010.6

### 1.34.1 Available under license :

NOTE! This copyright does *\*not\** cover the so-called "standalone" applications that use U-Boot services by means of the jump table provided by U-Boot exactly for this purpose - this is merely considered normal use of U-Boot, and does *\*not\** fall under the heading of "derived work".

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-- Wolfgang Denk

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## 1.38 zlib 1.2.3

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