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Contents

1.1 abf 1.0.2.1

1.1.1 Available under license

1.2 autofs 3.1.7

1.2.1 Available under license

1.3 autoip 1.0.0.1

1.3.1 Available under license

1.4 boa 0.94.14

1.4.1 Available under license

1.5 bstring 05122010

1.5.1 Available under license

1.6 busybox 1.22.1 :32.patch

1.6.1 Available under license

1.7 encrypt_md5 0.0.0.0

1.7.1 Available under license

1.8 ethtool 3

1.8.1 Available under license

1.9 expat 2.2.5

1.9.1 Available under license

1.10 fdipc 0.0.0.1

1.10.1 Available under license

1.11 focusmotor 1.0.0.0

1.11.1 Available under license

1.12 freetype 2.5.3

1.12.1 Available under license

1.13 ftpd 0.17

1.13.1 Available under license

- 1.14 ftpmput 1.0.0.0-1.0.0.0**
 - 1.14.1 Available under license
- 1.15 gpio 1.1.0.0**
 - 1.15.1 Available under license
- 1.16 icr 1.0.0.0**
 - 1.16.1 Available under license
- 1.17 iptables 1.4.2**
 - 1.17.1 Available under license
- 1.18 jpeg2avi 1.5**
 - 1.18.1 Available under license
- 1.19 lensmotor 1.0.2.1**
 - 1.19.1 Available under license
- 1.20 libfuse 2.9.3**
 - 1.20.1 Available under license
- 1.21 libJPEG 9 :9**
 - 1.21.1 Available under license
- 1.22 libjpeg-turbo 1.5.1**
 - 1.22.1 Available under license
- 1.23 Linux kernel 3.18.20**
 - 1.23.1 Available under license
- 1.24 message 1.0.1.23**
 - 1.24.1 Available under license
- 1.25 mount_cifs 1.10**
 - 1.25.1 Available under license
- 1.26 net-snmp 5.4.4**
 - 1.26.1 Available under license
- 1.27 OpenSSH 7.5p1**
 - 1.27.1 Available under license
- 1.28 openssl 1.0.2o :0**
 - 1.28.1 Available under license
- 1.29 rp-pppoe 3.10**
 - 1.29.1 Available under license
- 1.30 smtpclient 1.0.0**
 - 1.30.1 Available under license
- 1.31 SQLite 3.8.8.2**
- 1.32 stunnel 5.44**
 - 1.32.1 Available under license
- 1.33 sysklogd 1.5.0**
 - 1.33.1 Available under license

1.34 u-boot 2010.6

1.34.1 Available under license

1.35 wdt 1.0.0.2

1.35.1 Available under license

1.36 WPA supplicant 0.5.8

1.36.1 Available under license

1.37 xmlpraser 1.1.0.0

1.37.1 Available under license

1.38 xmlparser 1.1.0.0

1.38.1 Available under license

1.39 zlib 1.2.8 :3.0

1.39.1 Available under license

1.1 abf 1.0.2.1

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

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This program is free software; you can redistribute it and/or modify  
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```
Gnomovision version 69, Copyright (C) 19yy name of author
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This is free software, and you are welcome to redistribute it
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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 autoip 1.0.0.1

1.3.1 Available under license :

- * arping.c - Ping hosts by ARP requests/replies (version 1.0.0.0 , based on busybox 1.0.0.0)
- *
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- * as published by the Free Software Foundation; either version
- * 2 of the License, or (at your option) any later version.
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- * Author: Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>
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```
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```

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

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1.4 boa 0.94.14

1.4.1 Available under license :

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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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1.10 fdipc 0.0.0.1

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```

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1.13 ftpd 0.17

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```
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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"
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```

```
/*
```

```
* FTP server.
```

```
*/
```

```
#ifdef __linux__
#define _GNU_SOURCE
#endif
```

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

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

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



```

#include <arpa/telnet.h>

#include <ctype.h>
#include <dirent.h>
#include <errno.h>
#include <fcntl.h>
#include <glob.h>
#include <limits.h> /* for CHAR_BIT */
#include <netdb.h>
#include <pwd.h>
#include <setjmp.h>
#include <signal.h>
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <syslog.h>
#include <time.h>
#include <vis.h>
#include <unistd.h>
#include <utmp.h>

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

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

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

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

#ifdef USE_SHADOW
#include <shadow.h>

```

```

#include "isexpired.h"
#endif

#if defined(TCPWRAPPERS)
#include <tcpd.h>
#endif /* TCPWRAPPERS */

#if defined(SKEY)
#include <skey.h>
#endif

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

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

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

extern off_t restart_point;
extern char cbuf[];

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

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

```

```

int multihome = 0;
int guest;
int stats;
int statfd = -1;
int portcheck = 1;
int dochroot;
int type;
int form;
int stru; /* avoid C keyword */
int mode;
int doutmp = 0; /* update utmp file */
int usedefault = 1; /* for data transfers */
int pdata = -1; /* for passive mode */
int epsvall = 0; /* for EPSV ALL */
sig_atomic_t transflag;
off_t file_size;
off_t byte_count;
#if !defined(CMASK) || CMASK == 0
#undef CMASK
#define CMASK 027
#endif
int defumask = CMASK; /* default umask value */
char tmline[7];
char hostname[MAXHOSTNAMELEN];
char remotehost[MAXHOSTNAMELEN];
char dhostname[MAXHOSTNAMELEN];
char *guestpw;
static char ttyline[20];
char *tty = ttyline; /* for klogin */
static struct utmp utmp; /* for utmp */

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

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

char *ident = NULL;

/*
 * Timeout intervals for retrying connections
 * to hosts that don't accept PORT cmds. This
 * is a kludge, but given the problems with TCP...

```

```

*/
#define SWAITMAX 90 /* wait at most 90 seconds */
#define SWAITINT 5 /* interval between retries */

int swaitmax = SWAITMAX;
int swaitint = SWAITINT;

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

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

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

#ifdef 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 = "AdDhlMSt:T:u:UvP4";
int family = AF_INET;
int enable_v4 = 1;
#endif
struct addrinfo hints, *res;
int error;

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

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

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

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

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

case 'd':
debug = 1;
break;

case 'D':

```

```

daemon_mode = 1;
break;

case 'P':
portcheck = 0;
break;

case 'h':
high_data_ports = 1;
break;

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

case 'M':
multihome = 1;
break;

case 'S':
stats = 1;
break;

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

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

case 'u':
{
long val = 0;

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

case 'U':

```

```

doutmp = 1;
break;

case 'v':
debug = 1;
break;

case '4':
enable_v4 = 1;
if (family == AF_UNSPEC)
family = AF_INET;
break;
#ifdef INET6
case '6':
family = AF_INET6;
break;
#endif

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

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

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

if (daemon_mode) {
int ctl_sock, fd2;

/*
 * Detach from parent.
 */
if (daemon(1, 1) < 0) {
syslog(LOG_ERR, "failed to become a daemon");
exit(1);
}
(void) signal(SIGCHLD, reapchild);
/* init bind_sa */
memset(&hints, 0, sizeof(hints));

```



```

hints.ai_family = family == AF_UNSPEC ? AF_INET : family;
hints.ai_socktype = SOCK_STREAM;
hints.ai_flags = AI_PASSIVE;
error = getaddrinfo(0, "ftp", &hints, &res);
if (error) {
    if (family == AF_UNSPEC) {
        hints.ai_family = AF_UNSPEC;
        error = getaddrinfo(0, "ftp", &hints, &res);
    }
}
if (error) {
    syslog(LOG_ERR, gai_strerror(error));
    if (error == EAI_SYSTEM)
        syslog(LOG_ERR, strerror(errno));
    exit(1);
}
if ((int)sizeof(server_addr) < res->ai_addrlen) {
    syslog(LOG_ERR, "struct sockaddr_in* size unmatched.");
    exit(1);
}
family = res->ai_family;
memcpy(&server_addr, res->ai_addr, res->ai_addrlen);
freeaddrinfo(res);
/*
 * Open a socket, bind it to the FTP port, and start
 * listening.
 */
ctl_sock = socket(family, SOCK_STREAM, 0);
if (ctl_sock < 0) {
    syslog(LOG_ERR, "control socket: %m");
    exit(1);
}
if (setsockopt(ctl_sock, SOL_SOCKET, SO_REUSEADDR,
    (char *)&on, sizeof(on)) < 0)
    syslog(LOG_ERR, "control setsockopt: %m");
#ifdef IPV6_V6ONLY
if (family == AF_INET6 && enable_v4 == 0) {
if (setsockopt(ctl_sock, IPPROTO_IPV6, IPV6_V6ONLY,
    (char *)&on, sizeof(on)) < 0)
    syslog(LOG_ERR,
        "control setsockopt(IPV6_V6ONLY): %m");
}
#endif /* IPV6_V6ONLY */
if (bind(ctl_sock, (struct sockaddr *)&server_addr,
    sizeof(server_addr))) {
    syslog(LOG_ERR, "control bind: %m");
    exit(1);
}

```

```

if (listen(ctl_sock, 32) < 0) {
    syslog(LOG_ERR, "control listen: %m");
    exit(1);
}
/*
 * Loop forever accepting connection requests and forking off
 * children to handle them.
 */
while (1) {
    addrlen = sizeof(his_addr);
    fd2 = accept(ctl_sock, (struct sockaddr *)&his_addr,
        &addrlen);
    if (fork() == 0) {
        /* child */
        (void) dup2(fd2, 0);
        (void) dup2(fd2, 1);
        close(ctl_sock);
        break;
    }
    close(fd2);
}

#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 =
        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 (!key_haskey(name)) {
    char *myskey, *skey_keyinfo __P((char *name));

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

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

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

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

```



```

    }
    }
    (void) fclose(fd);
}
return (found);
}

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

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

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

            /* Sleep between 1 and 3 seconds to emulate a crypt. */
#ifdef __linux__
            us = arc4random() % 3000000;

```

```

#else
    us = random() % 3000000;
#endif
    usleep(us);
    rval = 1; /* failure below */
    goto skip;
}
#if defined(KERBEROS)
    rval = klogin(pw, "", hostname, passwd);
    if (rval == 0)
        goto skip;
#endif
#ifdef SKEY
    if (skey_haskey(pw->pw_name) == 0 &&
        (skey_passcheck(pw->pw_name, passwd) != -1)) {
        rval = 0;
        goto skip;
    }
#endif
    /* the strcmp does not catch null passwords! */
    if (strcmp(crypt(passwd, pw->pw_passwd), pw->pw_passwd)
#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
    lreply(230, "No directory! Logging in with home=/");
}
if (seteuid((uid_t)pw->pw_uid) < 0) {
    reply(550, "Can't set uid.");
    goto bad;
}
sigfillset(&allsigs);
sigprocmask(SIG_UNBLOCK,&allsigs,NULL);

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

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

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

```

```

} else {
    reply(230, "User %s logged in.", pw->pw_name);
#ifdef HASSETPROCTITLE
    snprintf(proctitle, sizeof(proctitle),
        "%s: %s", remotehost, pw->pw_name);
    setproctitle("%s", proctitle);
#endif /* HASSETPROCTITLE */
    if (logging)
        syslog(LOG_INFO, "FTP LOGIN FROM %s as %s",
            remotehost, pw->pw_name);
    }
    (void) umask(defumask);
    return;
bad:
    /* Forget all about it... */
    end_login();
}

void retrieve(const char *cmd, const char *name)
{
    FILE *fin, *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)snprintf(line, sizeof(line), "/bin/ls -lgA %s", filename);
    fin = ftpd_popen(line, "r");
    lreply(211, "status of %s:", filename);
}

```

```

while ((c = getc(fin)) != EOF) {
    if (c == '\n') {
        if (ferror(stdout)){
            perror_reply(421, "control connection");
            (void) ftpd_pclose(fin);
            dologout(1);
            /* NOTREACHED */
        }
        if (ferror(fin)) {
            perror_reply(551, filename);
            (void) ftpd_pclose(fin);
            return;
        }
        (void) putc('\r', stdout);
    }
    (void) putc(c, stdout);
}
(void) ftpd_pclose(fin);
reply(211, "End of Status");
}

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

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

```

```

#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");
}
}

#ifndef 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("RNT0");
}

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("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 */

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```

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```
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```

```
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```

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1.20 libfuse 2.9.3

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1.21 libJPEG 9 :9

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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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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include

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

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```
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`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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```
#ifndef __LICENSE_H
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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);  
}
```

#endif

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(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

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

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a

line to the DVB mailing list)

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ConferenceTV card

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</appendix>

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1.25 mount_cifs 1.10

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*
* Optimised ANSI C code for the Rijndael cipher (now AES)
*
* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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1.29 rp-pppoe 3.10

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1.30 smtpclient 1.0.0

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L I C E N S E

SMTPclient -- simple SMTP client

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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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1.33 syslogd 1.5.0

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Version 2, June 1991

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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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1.34 u-boot 2010.6

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```

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```
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1.36 WPA supplicant 0.5.8

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1.38 xmlsparser 1.1.0.0

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1.39 zlib 1.2.8 :3.0

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