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/\* agetty.c - another getty program for Linux. By W. Z. Venema 1989

Ported to Linux by Peter Orbaek <poe@daimi.aau.dk>

This program is freely distributable. The entire man-page used to

be here. Now read the real man-page agetty.8 instead.

-f option added by Eric Rasmussen <ear@usfirst.org> - 12/28/95

\*/

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## 1.7 genromfs 0.1

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```
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## 1.8 gmp 4.2.1

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

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

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## 1.9 gprof\_kernel 1.0

### 1.9.1 Available under license :

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

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```
/*-
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A gmon.out file consists of a header (defined by gmon\_hdr) followed by a sequence of records. Each record starts with a one-byte tag identifying the type of records, followed by records specific data. \*/

## 1.10 gzip 1.1.1.1

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## 1.19 libns 0.1

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## 1.22 modutils 2.4.12

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## 1.26 newmount 1.1.1.1

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```
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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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```

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

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# 1.28 openldap 2.1.25

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## 1.29 ping 5.9

### 1.29.1 Available under license :

```
/*  
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 *  
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 * Mike Muuss.  
 *  
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```
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* LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
* OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
* SUCH DAMAGE.
```

```
*/
```

```
char copyright[] =
```

```
"@(#) Copyright (c) 1989 The Regents of the University of California.\n"
```

```
"All rights reserved.\n";
```

```
/*
```

```
* From: @(#)ping.c 5.9 (Berkeley) 5/12/91
```

```
*/
```

```
char rcsid[] = "$Original-Id: ping.c,v 1.22 1997/06/08 19:39:47 dholland Exp $";
```

```
char pkg[] = "netkit-base-0.10";
```

```
/*
```

```
* P I N G . C
```

```
*
```

```
* Using the InterNet Control Message Protocol (ICMP) "ECHO" facility,
```

```
* measure round-trip-delays and packet loss across network paths.
```

```
*
```

```
* Author -
```

```
* Mike Muuss
```

```
* U. S. Army Ballistic Research Laboratory
```

```
* December, 1983
```

```
*
```

```
* Status -
```

```
* Public Domain. Distribution Unlimited.
```

```
* Bugs -
```

```
* More statistics could always be gathered.
```

```
* This program has to run SUID to ROOT to access the ICMP socket.
```

```
*/
```

```
#include <sys/param.h>
```

```
#include <sys/socket.h>
```

```
#include <sys/file.h>
```

```
#include <sys/time.h>
```

```
#include <sys/signal.h>
```

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

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

```
#include <netinet/ip_icmp.h>
```

```
#include <arpa/inet.h>
```

```

#include <netdb.h>
#include <unistd.h>
#include <stdlib.h>
#include <string.h>
#include <stdio.h>
#include <ctype.h>
#include <errno.h>
#include <getopt.h>
#include <resolv.h>

/*
 * Note: on some systems dropping root makes the process dumpable or
 * traceable. In that case if you enable dropping root and someone
 * traces ping, they get control of a raw socket and can start
 * spoofing whatever packets they like. SO BE CAREFUL.
 */
#ifdef __linux__
#define SAFE_TO_DROP_ROOT
#endif

#if defined(__GLIBC__) && (__GLIBC__ >= 2)
#define icmp_hdr icmp
#define ICMP_DEST_UNREACH ICMP_UNREACH
#define ICMP_NET_UNREACH ICMP_UNREACH_NET
#define ICMP_HOST_UNREACH ICMP_UNREACH_HOST
#define ICMP_PORT_UNREACH ICMP_UNREACH_PORT
#define ICMP_PROT_UNREACH ICMP_UNREACH_PROTOCOL
#define ICMP_FRAG_NEEDED ICMP_UNREACH_NEEDFRAG
#define ICMP_SR_FAILED ICMP_UNREACH_SRCFAIL
#define ICMP_NET_UNKNOWN ICMP_UNREACH_NET_UNKNOWN
#define ICMP_HOST_UNKNOWN ICMP_UNREACH_HOST_UNKNOWN
#define ICMP_HOST_ISOLATED ICMP_UNREACH_ISOLATED
#define ICMP_NET_UNR_TOS ICMP_UNREACH_TOSNET
#define ICMP_HOST_UNR_TOS ICMP_UNREACH_TOSHOST
#define ICMP_SOURCE_QUENCH ICMP_SOURCEQUENCH
#define ICMP_REDIRECT_NET ICMP_REDIRECT_NET
#define ICMP_REDIRECT_HOST ICMP_REDIRECT_HOST
#define ICMP_REDIRECT_NETTOS ICMP_REDIRECT_TOSNET
#define ICMP_REDIRECT_HOSTTOS ICMP_REDIRECT_TOSHOST
#define ICMP_TIME_EXCEEDED ICMP_TIMXCEED
#define ICMP_EXC_TTL ICMP_TIMXCEED_INTRANS
#define ICMP_EXC_FRAGTIME ICMP_TIMXCEED_REASS
#define ICMP_PARAMETERPROB ICMP_PARAMPROB
#define ICMP_TIMESTAMP ICMP_TSTAMP
#define ICMP_TIMESTAMPREPLY ICMP_TSTAMPREPLY
#define ICMP_INFO_REQUEST ICMP_IREQ
#define ICMP_INFO_REPLY ICMP_IREQREPLY
#else

```



```

#define ICMP_MINLEN 28
#define inet_ntoa(x) inet_ntoa(((struct in_addr *)&(x)))
#endif

#define DEFDATALEN (64 - 8) /* default data length */
#define MAXIPLLEN 60
#define MAXICMPLEN 76
#define MAXPACKET (2048 - 60 - 8) /* max packet size */
#define MAXWAIT 10 /* max seconds to wait for response */
#define NROUTES 9 /* number of record route slots */

#define A(bit) rcvd_tbl[(bit)>>3] /* identify byte in array */
#define B(bit) (1 << ((bit) & 0x07)) /* identify bit in byte */
#define SET(bit) (A(bit) |= B(bit))
#define CLR(bit) (A(bit) &= (~B(bit)))
#define TST(bit) (A(bit) & B(bit))

/* various options */
int options;
#define F_FLOOD 0x001
#define F_INTERVAL 0x002
#define F_NUMERIC 0x004
#define F_PINGFILLED 0x008
#define F_QUIET 0x010
#define F_RROUTE 0x020
#define F_SO_DEBUG 0x040
#define F_SO_DONTROUTE 0x080
#define F_VERBOSE 0x100

/* multicast options */
int moptions;
#define MULTICAST_NOLOOP 0x001
#define MULTICAST_TTL 0x002
#define MULTICAST_IF 0x004

/*
 * MAX_DUP_CHK is the number of bits in received table, i.e. the maximum
 * number of received sequence numbers we can keep track of. Change 128
 * to 8192 for complete accuracy...
 */
#define MAX_DUP_CHK (8 * 128)
int mx_dup_ck = MAX_DUP_CHK;
char rcvd_tbl[MAX_DUP_CHK / 8];

struct sockaddr whereto; /* who to ping */
int datalen = DEFDATALEN;
int s; /* socket file descriptor */

```

```

u_char outpack[MAXPACKET];
char BSPACE = '\b'; /* characters written for flood */
char DOT = '.';
static char *hostname;
static int ident; /* process id to identify our packets */

/* counters */
static long npackets; /* max packets to transmit */
static long nreceived; /* # of packets we got back */
static long nrepeats; /* number of duplicates */
static long ntransmitted; /* sequence # for outbound packets = #sent */
static int interval = 1; /* interval between packets */

/* timing */
static int timing; /* flag to do timing */
static long tmin = LONG_MAX; /* minimum round trip time */
static long tmax = 0; /* maximum round trip time */
static u_long tsum; /* sum of all times, for doing average */

/* protos */
static char *pr_addr(u_long);
static int in_cksum(u_short *addr, int len);
static void catcher(int);
static void finish(int ignore);
static void pinger(void);
static void fill(void *bp, char *patp);
static void usage(void);
static void pr_pack(char *buf, int cc, struct sockaddr_in *from);
static void tvsub(struct timeval *out, struct timeval *in);
static void pr_icmph(struct icmphdr *icp);
static void pr_retip(struct iphdr *ip);

int
main(int argc, char *argv[])
{
    struct timeval timeout;
    struct hostent *hp;
    struct sockaddr_in *to;
    struct protoent *proto;
    struct in_addr ifaddr;
    int i;
    int ch, fdmask, hold, packlen, preload;
    u_char *datap, *packet;
    char *target, hnamebuf[MAXHOSTNAMELEN];
    u_char ttl, loop;
    int am_i_root;
#ifdef IP_OPTIONS

```

```

char rspace[3 + 4 * NROUTES + 1]; /* record route space */
#endif

static char *null = NULL;

/*__environ = &null;*/
am_i_root = (getuid()==0);

/*
 * Pull this stuff up front so we can drop root if desired.
 */
if ((s = socket(AF_INET, SOCK_RAW, IPPROTO_ICMP)) < 0) {
if (errno==EPERM) {
    fprintf(stderr, "ping: ping must run as root\n");
}
else perror("ping: socket");
exit(2);
}

#ifdef SAFE_TO_DROP_ROOT
setuid(getuid());
#endif

preload = 0;
datap = &outpack[8 + sizeof(struct timeval)];
while ((ch = getopt(argc, argv, "I:LRc:dfh:i:l:np:qrs:t:v")) != EOF)
switch(ch) {
case 'c':
    npackets = atoi(optarg);
    if (npackets <= 0) {
        (void)fprintf(stderr,
            "ping: bad number of packets to transmit.\n");
        exit(2);
    }
    break;
case 'd':
    options |= F_SO_DEBUG;
    break;
case 'f':
    if (!am_i_root) {
        (void)fprintf(stderr,
            "ping: %s\n", strerror(EPERM));
        exit(2);
    }
    options |= F_FLOOD;
    setbuf(stdout, NULL);
    break;
case 'i': /* wait between sending packets */

```

```

interval = atoi(optarg);
if (interval <= 0) {
    (void)fprintf(stderr,
        "ping: bad timing interval.\n");
    exit(2);
}
options |= F_INTERVAL;
break;
case 'l':
if (!am_i_root) {
    (void)fprintf(stderr,
        "ping: %s\n", strerror(EPERM));
    exit(2);
}
preload = atoi(optarg);
if (preload < 0) {
    (void)fprintf(stderr,
        "ping: bad preload value.\n");
    exit(2);
}
break;
case 'n':
options |= F_NUMERIC;
break;
case 'p': /* fill buffer with user pattern */
options |= F_PINGFILLED;
fill(datap, optarg);
break;
case 'q':
options |= F_QUIET;
break;
case 'R':
options |= F_RROUTE;
break;
case 'r':
options |= F_SO_DONTROUTE;
break;
case 's': /* size of packet to send */
datalen = atoi(optarg);
if (datalen > MAXPACKET) {
    (void)fprintf(stderr,
        "ping: packet size too large.\n");
    exit(2);
}
if (datalen <= 0) {
    (void)fprintf(stderr,
        "ping: illegal packet size.\n");
    exit(2);
}

```

```

}
break;
case 'v':
options |= F_VERBOSE;
break;
case 'L':
moptions |= MULTICAST_NOLOOP;
loop = 0;
break;
case 't':
moptions |= MULTICAST_TTL;
i = atoi(optarg);
if (i < 0 || i > 255) {
printf("ttl %u out of range\n", i);
exit(2);
}
ttl = i;
break;
case 'I':
moptions |= MULTICAST_IF;
{
int i1, i2, i3, i4;
char junk;

if (sscanf(optarg, "%u.%u.%u.%u%c",
&i1, &i2, &i3, &i4, &junk) != 4) {
printf("bad interface address '%s'\n",
optarg);
exit(2);
}
ifaddr.s_addr = (i1<<24)|(i2<<16)|(i3<<8)|i4;
ifaddr.s_addr = htonl(ifaddr.s_addr);
}
break;
default:
usage();
}
argc -= optind;
argv += optind;

if (argc != 1)
usage();
target = *argv;

memset(&where, 0, sizeof(struct sockaddr));
to = (struct sockaddr_in *)&where;
to->sin_family = AF_INET;
if (inet_aton(target, &to->sin_addr)) {

```

```

hostname = target;
}
else {
#if 0
char * addr = resolve_name(target, 0);
if (!addr) {
(void)fprintf(stderr,
    "ping: unknown host %s\n", target);
exit(2);
}
to->sin_addr.s_addr = inet_addr(addr);
hostname = target;
#else
hp = gethostbyname(target);
if (!hp) {
(void)fprintf(stderr,
    "ping: unknown host %s\n", target);
exit(2);
}
to->sin_family = hp->h_addrtype;
if (hp->h_length > (int)sizeof(to->sin_addr)) {
hp->h_length = sizeof(to->sin_addr);
}
memcpy(&to->sin_addr, hp->h_addr, hp->h_length);
(void)strncpy(hnamebuf, hp->h_name, sizeof(hnamebuf) - 1);
hostname = hnamebuf;
#endif
}

if (options & F_FLOOD && options & F_INTERVAL) {
(void)fprintf(stderr,
    "ping: -f and -i incompatible options.\n");
exit(2);
}

if (datalen >= (int)sizeof(struct timeval)) /* can we time transfer */
    timing = 1;
packlen = datalen + MAXIPLLEN + MAXICMPLEN;
packet = malloc((u_int)packlen);
if (!packet) {
(void)fprintf(stderr, "ping: out of memory.\n");
exit(2);
}
if (!(options & F_PINGFILLED))
for (i = 8; i < datalen; ++i)
    *datap++ = i;

ident = getpid() & 0xFFFF;

```

```

hold = 1;

if (options & F_SO_DEBUG)
    (void)setsockopt(s, SOL_SOCKET, SO_DEBUG, (char *)&hold,
        sizeof(hold));

if (options & F_SO_DONTROUTE)
    (void)setsockopt(s, SOL_SOCKET, SO_DONTROUTE, (char *)&hold,
        sizeof(hold));

/* this is necessary for broadcast pings to work */
setsockopt(s, SOL_SOCKET, SO_BROADCAST, (char *)&hold, sizeof(hold));

/* record route option */
if (options & F_RROUTE) {
#ifdef IP_OPTIONS
    memset(rspace, 0, sizeof(rspace));
    rspace[IPOPT_OPTVAL] = IPOPT_RR;
    rspace[IPOPT_OLEN] = sizeof(rspace)-1;
    rspace[IPOPT_OFFSET] = IPOPT_MINOFF;
    if (setsockopt(s, IPPROTO_IP, IP_OPTIONS, rspace,
        sizeof(rspace)) < 0) {
        perror("ping: record route");
        exit(2);
    }
#else
    (void)fprintf(stderr,
        "ping: record route not available in this implementation.\n");
    exit(2);
#endif /* IP_OPTIONS */
}

/*
 * When pinging the broadcast address, you can get a lot of answers.
 * Doing something so evil is useful if you are trying to stress the
 * ethernet, or just want to fill the arp cache to get some stuff for
 * /etc/ethers.
 */
hold = 48 * 1024;
(void)setsockopt(s, SOL_SOCKET, SO_RCVBUF, (char *)&hold,
    sizeof(hold));

/*#if 0*/
if (moptions & MULTICAST_NOLOOP) {
    if (setsockopt(s, IPPROTO_IP, IP_MULTICAST_LOOP,
        &loop, 1) == -1) {
        perror("can't disable multicast loopback");
        exit(92);
    }
}

```

```

    }
}
if (moptions & MULTICAST_TTL) {
    if (setsockopt(s, IPPROTO_IP, IP_MULTICAST_TTL,
        &tll, 1) == -1) {
        perror ("can't set multicast time-to-live");
        exit(93);
    }
}
if (moptions & MULTICAST_IF) {
    if (setsockopt(s, IPPROTO_IP, IP_MULTICAST_IF,
        &ifaddr, sizeof(ifaddr)) == -1) {
        perror ("can't set multicast source interface");
        exit(94);
    }
}
/*#endif*/

if (to->sin_family == AF_INET)
    (void)printf("PING %s (%s): %d data bytes\n", hostname,
        inet_ntoa(*(struct in_addr *)&to->sin_addr.s_addr),
        datalen);
else
    (void)printf("PING %s: %d data bytes\n", hostname, datalen);

(void)signal(SIGINT, finish);
(void)signal(SIGALRM, catcher);

while (preload--) /* fire off them quickies */
    pinger();

if ((options & F_FLOOD) == 0)
    catcher(0); /* start things going */

for (;;) {
    struct sockaddr_in from;
    register int cc;
    int fromlen;

    if (options & F_FLOOD) {
        pinger();
        timeout.tv_sec = 0;
        timeout.tv_usec = 10000;
        fdmask = 1 << s;
        if (select(s + 1, (fd_set *)&fdmask, (fd_set *)NULL,
            (fd_set *)NULL, &timeout) < 1)
            continue;
    }
}

```



```

fromlen = sizeof(from);
if ((cc = recvfrom(s, (char *)packet, packlen, 0,
    (struct sockaddr *)&from, &fromlen) < 0) {
    if (errno == EINTR)
        continue;
    perror("ping: recvfrom");
    continue;
}
pr_pack((char *)packet, cc, &from);
if (npackets && nreceived >= npackets)
    break;
}
finish(0);
/* NOTREACHED */
return 0;
}

/*
 * catcher --
 * This routine causes another PING to be transmitted, and then
 * schedules another SIGALRM for 1 second from now.
 *
 * bug --
 * Our sense of time will slowly skew (i.e., packets will not be
 * launched exactly at 1-second intervals). This does not affect the
 * quality of the delay and loss statistics.
 */
static void
catcher(int ignore)
{
    int waittime;

    (void)ignore;
    pinger();
    (void)signal(SIGALRM, catcher);
    if (!npackets || ntransmitted < npackets)
        alarm((u_int)interval);
    else {
        if (nreceived) {
            waittime = 2 * tmax / 1000;
            if (!waittime)
                waittime = 1;
            if (waittime > MAXWAIT)
                waittime = MAXWAIT;
        } else
            waittime = MAXWAIT;
        (void)signal(SIGALRM, finish);
        (void)alarm((u_int)waittime);
    }
}

```

```

}
}

#if !defined(__GLIBC__) || (__GLIBC__ < 2)
#define icmp_type type
#define icmp_code code
#define icmp_cksum checksum
#define icmp_id un.echo.id
#define icmp_seq un.echo.sequence
#define icmp_gwaddr un.gateway
#endif /* __GLIBC__ */

#define ip_hl ihl
#define ip_v version
#define ip_tos tos
#define ip_len tot_len
#define ip_id id
#define ip_off frag_off
#define ip_ttl ttl
#define ip_p protocol
#define ip_sum check
#define ip_src saddr
#define ip_dst daddr

/*
 * pinger --
 * Compose and transmit an ICMP ECHO REQUEST packet. The IP packet
 * will be added on by the kernel. The ID field is our UNIX process ID,
 * and the sequence number is an ascending integer. The first 8 bytes
 * of the data portion are used to hold a UNIX "timeval" struct in VAX
 * byte-order, to compute the round-trip time.
 */
static void
pinger(void)
{
    register struct icmphdr *icp;
    register int cc;
    int i;

    icp = (struct icmphdr *)outpack;
    icp->icmp_type = ICMP_ECHO;
    icp->icmp_code = 0;
    icp->icmp_cksum = 0;
    icp->icmp_seq = ntransmitted++;
    icp->icmp_id = ident; /* ID */

    CLR(icp->icmp_seq % mx_dup_ck);

```

```

if (timing)
(void)gettimeofday((struct timeval *)&outpack[8],
(struct timezone *)NULL);

cc = datalen + 8; /* skips ICMP portion */

/* compute ICMP checksum here */
icp->icmp_cksum = in_cksum((u_short *)icp, cc);

i = sendto(s, (char *)outpack, cc, 0, &whereto,
sizeof(struct sockaddr));

if (i < 0 || i != cc) {
if (i < 0)
perror("ping: sendto");
(void)printf("ping: wrote %s %d chars, ret=%d\n",
hostname, cc, i);
}
if (!(options & F_QUIET) && options & F_FLOOD)
(void)write(STDOUT_FILENO, &DOT, 1);
}

/*
* pr_pack --
* Print out the packet, if it came from us. This logic is necessary
* because ALL readers of the ICMP socket get a copy of ALL ICMP packets
* which arrive ('tis only fair). This permits multiple copies of this
* program to be run without having intermingled output (or statistics!).
*/
void
pr_pack(char *buf, int cc, struct sockaddr_in *from)
{
register struct icmphdr *icp;
register int i;
register u_char *cp,*dp;
/*#if 0*/
register u_long l;
register int j;
static int old_rrlen;
static char old_rr[MAX_IPOPTLEN];
/*#endif*/
struct iphdr *ip;
struct timeval tv, *tp;
long triptime = 0;
int hlen, dupflag;

(void)gettimeofday(&tv, (struct timezone *)NULL);

```

```

/* Check the IP header */
ip = (struct iphdr *)buf;
hlen = ip->ip_hl << 2;
if (cc < datalen + ICMP_MINLEN) {
    if (options & F_VERBOSE)
        (void)fprintf(stderr,
            "ping: packet too short (%d bytes) from %s\n", cc,
            inet_ntoa(*(struct in_addr *)&from->sin_addr.s_addr));
    return;
}

/* Now the ICMP part */
cc -= hlen;
icp = (struct icmphdr *)(buf + hlen);
if (icp->icmp_type == ICMP_ECHOREPLY) {
    if (icp->icmp_id != ident)
        return; /* 'Twas not our ECHO */
    ++nreceived;
    if (timing) {
#ifdef icmp_data
        tp = (struct timeval *)(icp + 1);
#else
        tp = (struct timeval *)icp->icmp_data;
#endif
        tvsub(&tv, tp);
        triptime = tv.tv_sec * 10000 + (tv.tv_usec / 100);
        tsum += triptime;
        if (triptime < tmin)
            tmin = triptime;
        if (triptime > tmax)
            tmax = triptime;
    }

    if (TST(icp->icmp_seq % mx_dup_ck)) {
        ++nrepeats;
        --nreceived;
        dupflag = 1;
    } else {
        SET(icp->icmp_seq % mx_dup_ck);
        dupflag = 0;
    }

    if (options & F_QUIET)
        return;

    if (options & F_FLOOD)
        (void)write(STDOUT_FILENO, &BSPACE, 1);
    else {

```

```

(void)printf("%d bytes from %s: icmp_seq=%u", cc,
    inet_ntoa(*(struct in_addr *)&from->sin_addr.s_addr),
    icp->icmp_seq);
(void)printf(" ttl=%d", ip->ip_ttl);
if (timing)
    (void)printf(" time=%ld.%ld ms", triptime/10,
        triptime%10);
if (dupflag)
    (void)printf(" (DUP!)");
/* check the data */
#ifdef icmp_data
    cp = ((u_char*)(icp + 1) + 8);
#else
    cp = (u_char*)icp->icmp_data + 8;
#endif
    dp = &outpack[8 + sizeof(struct timeval)];
    for (i = 8; i < datalen; ++i, ++cp, ++dp) {
        if (*cp != *dp) {
(void)printf("\nwrong data byte #%d should be 0x%x but was 0x%x",
        i, *dp, *cp);
            cp = (u_char*)(icp + 1);
            for (i = 8; i < datalen; ++i, ++cp) {
                if ((i % 32) == 8)
                    (void)printf("\n\t");
                (void)printf("%x ", *cp);
            }
            break;
        }
    }
} else {
/* We've got something other than an ECHOREPLY */
if (!(options & F_VERBOSE))
    return;
(void)printf("%d bytes from %s: ", cc,
    pr_addr(from->sin_addr.s_addr));
pr_icmph(icp);
}

/*#if 0*/
/* Display any IP options */
cp = (u_char *)buf + sizeof(struct iphdr);

for (; hlen > (int)sizeof(struct iphdr); --hlen, ++cp)
    switch (*cp) {
        case IPOPT_EOL:
            hlen = 0;
            break;

```

```

case IPOPT_LSRR:
    (void)printf("\nLSRR: ");
    hlen -= 2;
    j = *++cp;
    ++cp;
    if (j > IPOPT_MINOFF)
        for (;;) {
            l = *++cp;
            l = (l << 8) + *++cp;
            l = (l << 8) + *++cp;
            l = (l << 8) + *++cp;
            if (l == 0)
                (void)printf("\t0.0.0.0");
            else
                (void)printf("\t%s", pr_addr(ntohl(l)));
            hlen -= 4;
            j -= 4;
            if (j <= IPOPT_MINOFF)
                break;
            (void)putchar('\n');
        }
    break;
case IPOPT_RR:
    j = *++cp; /* get length */
    i = *++cp; /* and pointer */
    hlen -= 2;
    if (i > j)
        i = j;
    i -= IPOPT_MINOFF;
    if (i <= 0)
        continue;
    if (i == old_rrlen
        && cp == (u_char *)buf + sizeof(struct iphdr) + 2
        && !memcmp((char *)cp, old_rr, i)
        && !(options & F_FLOOD)) {
        (void)printf("\t(same route)");
        i = ((i + 3) / 4) * 4;
        hlen -= i;
        cp += i;
        break;
    }
    old_rrlen = i;
    memcpy(old_rr, cp, i);
    (void)printf("\nRR: ");
    for (;;) {
        l = *++cp;
        l = (l << 8) + *++cp;
        l = (l << 8) + *++cp;

```

```

l = (l<<8) + *++cp;
if (l == 0)
    (void)printf("\t0.0.0.0");
else
    (void)printf("\t%s", pr_addr(ntohl(l)));
hlen -= 4;
i -= 4;
if (i <= 0)
    break;
(void)putchar('\n');
}
break;
case IPOPT_NOP:
    (void)printf("\nNOP");
    break;
default:
    (void)printf("\nunknown option %x", *cp);
    break;
}
/*#endif*/
if (!(options & F_FLOOD)) {
    (void)putchar('\n');
    (void)fflush(stdout);
}
}

/*
 * in_cksum --
 * Checksum routine for Internet Protocol family headers (C Version)
 */
static int
in_cksum(u_short *addr, int len)
{
    register int nleft = len;
    register u_short *w = addr;
    register int sum = 0;
    u_short answer = 0;

    /*
     * Our algorithm is simple, using a 32 bit accumulator (sum), we add
     * sequential 16 bit words to it, and at the end, fold back all the
     * carry bits from the top 16 bits into the lower 16 bits.
     */
    while (nleft > 1) {
        sum += *w++;
        nleft -= 2;
    }

```

```

/* mop up an odd byte, if necessary */
if (nleft == 1) {
    *(u_char *)&answer = *(u_char *)w ;
    sum += answer;
}

/* add back carry outs from top 16 bits to low 16 bits */
sum = (sum >> 16) + (sum & 0xffff); /* add hi 16 to low 16 */
sum += (sum >> 16); /* add carry */
answer = ~sum; /* truncate to 16 bits */
return(answer);
}

/*
 * tvsub --
 * Subtract 2 timeval structs: out = out - in. Out is assumed to
 * be >= in.
 */
static void
tvsub(register struct timeval *out, register struct timeval *in)
{
    if ((out->tv_usec - in->tv_usec) < 0) {
        --out->tv_sec;
        out->tv_usec += 1000000;
    }
    out->tv_sec -= in->tv_sec;
}

/*
 * finish --
 * Print out statistics, and give up.
 */
static void
finish(int ignore)
{
    (void)ignore;

    (void)signal(SIGINT, SIG_IGN);
    (void)putchar('\n');
    (void)fflush(stdout);
    (void)printf("--- %s ping statistics ---\n", hostname);
    (void)printf("%ld packets transmitted, ", ntransmitted);
    (void)printf("%ld packets received, ", nreceived);
    if (nrepeats)
        (void)printf("+%ld duplicates, ", nrepeats);
    if (ntransmitted)
        if (nreceived > ntransmitted)
            (void)printf("-- somebody's printing up packets!");
}

```



```

else
    (void)printf("%d%% packet loss",
        (int) (((ntransmitted - nreceived) * 100) /
            ntransmitted));
(void)putchar('\n');
if (nreceived && timing)
    (void)printf("round-trip min/avg/max = %ld.%ld/%lu.%ld/%ld.%ld ms\n",
        tmin/10, tmin%10,
        (tsum / (nreceived + nrepeats))/10,
        (tsum / (nreceived + nrepeats))%10,
        tmax/10, tmax%10);

if (nreceived==0) exit(1);
exit(0);
}

#ifdef notdef
static char *ttab[] = {
    "Echo Reply", /* ip + seq + udata */
    "Dest Unreachable", /* net, host, proto, port, frag, sr + IP */
    "Source Quench", /* IP */
    "Redirect", /* redirect type, gateway, + IP */
    "Echo",
    "Time Exceeded", /* transit, frag reassem + IP */
    "Parameter Problem", /* pointer + IP */
    "Timestamp", /* id + seq + three timestamps */
    "Timestamp Reply", /* " */
    "Info Request", /* id + sq */
    "Info Reply" /* " */
};
#endif

/*
 * pr_icmph --
 * Print a descriptive string about an ICMP header.
 */
static void
pr_icmph(struct icmphdr *icp)
{
    switch(icp->icmp_type) {
    case ICMP_ECHOREPLY:
        (void)printf("Echo Reply\n");
        /* XXX ID + Seq + Data */
        break;
    case ICMP_DEST_UNREACH:
        switch(icp->icmp_code) {
        case ICMP_NET_UNREACH:
            (void)printf("Destination Net Unreachable\n");

```

```

break;
case ICMP_HOST_UNREACH:
(void)printf("Destination Host Unreachable\n");
break;
case ICMP_PROT_UNREACH:
(void)printf("Destination Protocol Unreachable\n");
break;
case ICMP_PORT_UNREACH:
(void)printf("Destination Port Unreachable\n");
break;
case ICMP_FRAG_NEEDED:
(void)printf("frag needed and DF set\n");
break;
case ICMP_SR_FAILED:
(void)printf("Source Route Failed\n");
break;
case ICMP_NET_UNKNOWN:
(void)printf("Network Unknown\n");
break;
case ICMP_HOST_UNKNOWN:
(void)printf("Host Unknown\n");
break;
case ICMP_HOST_ISOLATED:
(void)printf("Host Isolated\n");
break;
case ICMP_NET_UNR_TOS:
printf("Destination Network Unreachable At This TOS\n");
break;
case ICMP_HOST_UNR_TOS:
printf("Destination Host Unreachable At This TOS\n");
break;
#ifdef ICMP_PKT_FILTERED
case ICMP_PKT_FILTERED:
(void)printf("Packet Filtered\n");
break;
#endif
#ifdef ICMP_PREC_VIOLATION
case ICMP_PREC_VIOLATION:
(void)printf("Precedence Violation\n");
break;
#endif
#ifdef ICMP_PREC_CUTOFF
case ICMP_PREC_CUTOFF:
(void)printf("Precedence Cutoff\n");
break;
#endif
default:
(void)printf("Dest Unreachable, Unknown Code: %d\n",

```

```

        icp->icmp_code);
    break;
}
/* Print returned IP header information */
#ifdef icmp_data
    pr_retip((struct iphdr*)(icp + 1));
#else
    pr_retip((struct iphdr *)icp->icmp_data);
#endif
    break;
case ICMP_SOURCE_QUENCH:
    (void)printf("Source Quench\n");
#ifdef icmp_data
    pr_retip((struct iphdr*)(icp + 1));
#else
    pr_retip((struct iphdr *)icp->icmp_data);
#endif
    break;
case ICMP_REDIRECT:
    switch(icp->icmp_code) {
case ICMP_REDIRECT_NET:
    (void)printf("Redirect Network");
    break;
case ICMP_REDIRECT_HOST:
    (void)printf("Redirect Host");
    break;
case ICMP_REDIRECT_NETTOS:
    (void)printf("Redirect Type of Service and Network");
    break;
case ICMP_REDIRECT_HOSTTOS:
    (void)printf("Redirect Type of Service and Host");
    break;
default:
    (void)printf("Redirect, Bad Code: %d", icp->icmp_code);
    break;
    }
    (void)printf("(New addr: %s)\n",
        inet_ntoa(icp->icmp_gwaddr));
#ifdef icmp_data
    pr_retip((struct iphdr*)(icp + 1));
#else
    pr_retip((struct iphdr *)icp->icmp_data);
#endif
    break;
case ICMP_ECHO:
    (void)printf("Echo Request\n");
    /* XXX ID + Seq + Data */
    break;

```

```

case ICMP_TIME_EXCEEDED:
switch(icp->icmp_code) {
case ICMP_EXC_TTL:
(void)printf("Time to live exceeded\n");
break;
case ICMP_EXC_FRAGTIME:
(void)printf("Frag reassembly time exceeded\n");
break;
default:
(void)printf("Time exceeded, Bad Code: %d\n",
icp->icmp_code);
break;
}
#ifdef icmp_data
pr_retip((struct iphdr*)(icp + 1));
#else
pr_retip((struct iphdr*)icp->icmp_data);
#endif
break;
case ICMP_PARAMETERPROB:
(void)printf("Parameter problem: IP address = %s\n",
inet_ntoa(icp->icmp_gwaddr));
#ifdef icmp_data
pr_retip((struct iphdr*)(icp + 1));
#else
pr_retip((struct iphdr*)icp->icmp_data);
#endif
break;
case ICMP_TIMESTAMP:
(void)printf("Timestamp\n");
/* XXX ID + Seq + 3 timestamps */
break;
case ICMP_TIMESTAMPREPLY:
(void)printf("Timestamp Reply\n");
/* XXX ID + Seq + 3 timestamps */
break;
case ICMP_INFO_REQUEST:
(void)printf("Information Request\n");
/* XXX ID + Seq */
break;
case ICMP_INFO_REPLY:
(void)printf("Information Reply\n");
/* XXX ID + Seq */
break;
#ifdef ICMP_MASKREQ
case ICMP_MASKREQ:
(void)printf("Address Mask Request\n");
break;

```

```

#endif
#ifdef ICMP_MASKREPLY
case ICMP_MASKREPLY:
    (void)printf("Address Mask Reply\n");
    break;
#endif
default:
    (void)printf("Bad ICMP type: %d\n", icp->icmp_type);
}
}

/*
 * pr_iph --
 * Print an IP header with options.
 */
static void
pr_iph(struct iphdr *ip)
{
    int hlen;
    u_char *cp;

    hlen = ip->ip_hl << 2;
    cp = (u_char *)ip + 20; /* point to options */

    (void)printf("Vr HL TOS Len ID Flg off TTL Pro cks Src Dst Data\n");
    (void)printf(" %1x %1x %02x %04x %04x",
        ip->ip_v, ip->ip_hl, ip->ip_tos, ip->ip_len, ip->ip_id);
    (void)printf(" %1x %04x", ((ip->ip_off) & 0xe000) >> 13,
        (ip->ip_off) & 0x1fff);
    (void)printf(" %02x %02x %04x", ip->ip_ttl, ip->ip_p, ip->ip_sum);
    (void)printf(" %s ", inet_ntoa(*(struct in_addr *) &ip->ip_src));
    (void)printf(" %s ", inet_ntoa(*(struct in_addr *) &ip->ip_dst));
    /* dump and option bytes */
    while (hlen-- > 20) {
        (void)printf("%02x", *cp++);
    }
    (void)putchar('\n');
}

/*
 * pr_addr --
 * Return an ascii host address as a dotted quad and optionally with
 * a hostname.
 */
static char *
pr_addr(u_long l)
{
    struct hostent *hp;

```

```

static char buf[256];

if ((options & F_NUMERIC) ||
    !(hp = gethostbyaddr((char *)&l, 4, AF_INET)))
    (void)sprintf(buf, /*sizeof(buf),*/ "%s",
        inet_ntoa*(struct in_addr *)&l);
else
    (void)sprintf(buf, /*sizeof(buf),*/ "%s (%s)", hp->h_name,
        inet_ntoa*(struct in_addr *)&l);
return(buf);
}

/*
 * pr_retip --
 * Dump some info on a returned (via ICMP) IP packet.
 */
static void
pr_retip(struct iphdr *ip)
{
    int hlen;
    u_char *cp;

    pr_iph(ip);
    hlen = ip->ip_hl << 2;
    cp = (u_char *)ip + hlen;

    if (ip->ip_p == 6)
        (void)printf("TCP: from port %u, to port %u (decimal)\n",
            (*cp * 256 + *(cp + 1)), (*(cp + 2) * 256 + *(cp + 3)));
    else if (ip->ip_p == 17)
        (void)printf("UDP: from port %u, to port %u (decimal)\n",
            (*cp * 256 + *(cp + 1)), (*(cp + 2) * 256 + *(cp + 3)));
}

static void
fill(void *bp1, char *patp)
{
    register int ii, jj, kk;
    int pat[16];
    char *cp, *bp = (char *)bp1;

    for (cp = patp; *cp; cp++)
        if (!isxdigit(*cp)) {
            (void)fprintf(stderr,
                "ping: patterns must be specified as hex digits.\n");
            exit(2);
        }
    ii = sscanf(patp,

```

```

"%2x%2x%2x%2x%2x%2x%2x%2x%2x%2x%2x%2x%2x%2x%2x%2x",
&pat[0], &pat[1], &pat[2], &pat[3], &pat[4], &pat[5], &pat[6],
&pat[7], &pat[8], &pat[9], &pat[10], &pat[11], &pat[12],
&pat[13], &pat[14], &pat[15]);

if (ii > 0)
for (kk = 0; kk <= MAXPACKET - (8 + ii); kk += ii)
for (jj = 0; jj < ii; ++jj)
    bp[jj + kk] = pat[jj];
if (!(options & F_QUIET)) {
(void)printf("PATTERN: 0x");
for (jj = 0; jj < ii; ++jj)
    (void)printf("%02x", bp[jj] & 0xFF);
(void)printf("\n");
}
}

static void
usage(void)
{
(void)fprintf(stderr,
    "usage: ping [-LRdfnqrv] [-c count] [-i wait] [-l preload]\n\t[-p pattern] [-s packetsize] [-t ttl] [-I interface address]
host\n");
exit(2);
}

```

## 1.30 PPP 2.4.3

### 1.30.1 Available under license :

Unix SMB/CIFS implementation.

trivial database library

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## 1.31 pptp-linux 1.5.0

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## 1.36 smtpclient 1.0.0

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L I C E N S E

SMTPclient -- simple SMTP client

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*/
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002
```

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

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files ftp://ds.internic.net/rfc/rfc1950.txt (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).  
\*/

## 1.38 syslogd 1.4.1 :708.25.34

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## 1.42 uClibc 0.9.27

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## 1.43 udhcp 0.9.6

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## 1.47 zlib 1.1.4

## 1.47.1 Available under license :

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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