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   Ported to Linux by Peter Orbaek <poe@daimi.aau.dk>
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1.7 genromfs 0.1
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1.9 gprof_kernel 1.0

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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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1.26 newmount 1.1.1.1

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1.27 ntpclient 2000

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1.28 openldap 2.1.25

1.28.1 Available under license:

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1.29 ping 5.9

1.29.1 Available under license:

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 *
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* SUCH DAMAGE.
*/

char copyright[] =
"@(#) Copyright (c) 1989 The Regents of the University of California.
"All rights reserved.
";
/*
* 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 -
* 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 icmphdr			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_NEEDEDICMP_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_ISOLATEDICMP_UNREACH_ISOLATED
#define ICMP_NET_UNR_TOSICMP_UNREACH_TOSNET
#define ICMP_HOST_UNR_TOSICMP_UNREACH_TOSHOST
#define ICMP_SOURCE_QUENCHICMP_SOURCEQUENCH
#define ICMP_REDIR_NETICMP_REDIRECT_NET
#define ICMP_REDIR_HOSTICMP_REDIRECT_HOST
#define ICMP_REDIR_NETTOSICMP_REDIRECT_TOSNET
#define ICMP_REDIR_HOSTTOSICMP_REDIRECT_TOSHOST
#define ICMP_TIME_EXCEEDDICMP_TIMEXCEED
#define ICMP exc TTLICMP_TIMEXCEED_INTRANS
#define ICMP exc FRAGTIMEICMP_TIMEXCEED_REASS
#define ICMP PARAMETERPROBICMP PARAMPROB
#define ICMP_TIMESTAMPICMP_TIMESTAMP
#define ICMP_TIMESTAMPREPLYICMP_TIMESTAMPREPLY
#define ICMP_INFO_REQUESTICMP_IREQ
#define ICMP_INFO_REPLYICMP_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 MAXPLEN 60
#define MAXCMPLEN 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;/* # 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 'I':
if (!am_i_root) {
(void)fprintf(stderr,
"ping: %s\n", strerror(EPERM));
exi(2);
}
 preload = atoi(optarg);
if (preload < 0) {
(void)fprintf(stderr,
"ping: bad preload value.\n");
exi(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 > MAX_PACKET) {
(void)fprintf(stderr,
"ping: packet size too large.\n");
exi(2);
}
if (datalen <= 0) {
(void)fprintf(stderr,
"ping: illegal packet size.\n");
exi(2);
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(&whereto, 0, sizeof(struct sockaddr));
to = (struct sockaddr_in *)&whereto;
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 + MAXIPLen + 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, &ttl, 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)sigint(SIGINT, finish);
(void)sigint(SIGALRM, catcher);

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

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

for (i;)
    struct sockaddr_in from;
    int cc;
    int fromlen;

    if (options & F_FLOOD) {
        pinger();
        timeout.tv_sec = 0;
        timeout.tv_usec = 100000;
        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) {
#ifndef 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 */
#ifndef 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("\t");
         (void)printf("%x ", *cp);
      }
      break;
   }
}
/* 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: \n");
    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\n");
            else
                (void)printf("\t%", pr_addr(ntohl(l)));
            hlen -= 4;
            j -= 4;
            if (j <= IPOPT_MINOFF)
                break;
        }
    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("\tsame route\n");
            i = ((i + 3) / 4) * 4;
            hlen -= i;
            cp += i;
            break;
        }
        old_rrlen = i;
        memcpy(old_rr, cp, i);
        (void)printf("\nRR: \n");
        for (; ;) {
            l = *++cp;
            l = (l<8) + *++cp;
            l = (l<8) + *++cp;
            if (l == 0) { /* Print 0.0.0.0 */
                (void)printf("\t0.0.0.0\n");
            } else
                (void)printf("\t%", pr_addr(ntohl(l)));
            hlen -= 4;
            j -= 4;
            if (j <= IPOPT_MINOFF)
                break;
        }
        break;
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, \n", ntransmitted);
    (void)printf("%ld packets received, \n", nreceived);
    if (nrepeats)
        (void)printf("+%ld duplicates, \n", nrepeats);
    if (ntransmitted)
    if (nreceived > ntransmitted)
        (void)printf("-- somebody's printing up packets!!\n");
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);
}
#endif

#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", /* IP */
    "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;
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 */
#endif 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");
#endif 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_REDIR_NET:
    (void)printf("Redirect Network\n");
    break;
  case ICMP_REDIR_HOST:
    (void)printf("Redirect Host\n");
    break;
  case ICMP_REDIR_NETTOS:
    (void)printf("Redirect Type of Service and Network\n");
    break;
  case ICMP_REDIR_HOSTTOS:
    (void)printf("Redirect Type of Service and Host\n");
    break;
  default:
    (void)printf("Redirect, Bad Code: %d", icp->icmp_code);
    break;
}
  (void)printf("(New addr: %s)\n", 
    inet_ntoa(icp->icmp_gwaddr));
#endif 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;
}
#endif
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));
#endif
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_TIMESTAMPPREPLY:
(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;
#endif

#if defined ICMP_MASERQ
case ICMP_MASERQ:
  (void)printf("Address Mask Request\n");
  break;
#endif

#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 %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,}
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\n");
    for (jj = 0; jj < ii; ++jj)
        (void)printf("%02x", bp[jj] & 0xFF);
    (void)printf("\n");
}

static void
usage(void)
{
    (void)fprintf(stderr,
    exit(2);
}

1.30 PPP 2.4.3
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Unix SMB/CIFS implementation.

trivial database library

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1.32 reboot 0.1

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1.41 ucd-snmp 4.2.3

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1.42 uClibc 0.9.27

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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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