NAME

mtest - test multicast socket operations

SYNOPSIS

mtest

DESCRIPTION

The **mtest** utility is a small program for testing multicast socket operations.

It accepts the following commands, interactively, or as part of a scripted input file (useful for automated testing):

a ifname mac-addr Join the link-layer group address *mac-addr* on interface *ifname*. The

group address should be in IEEE 802 MAC format, delimited by colon

(':') characters.

d ifname mac-addr

Leave the link-layer group address *mac-addr* on interface *ifname*. **m** ifname 1/0 Set or reset ALLMULTI mode on interface ifname. This option is

deprecated and is now a no-op.

Set or reset promiscuous mode on interface *ifname*. **p** *ifname 1/0*

j *mcast-addr ifname* [*source-addr*]

Join the multicast address *mcast-addr* on the interface with name *ifname*.

If an optional source source-addr is specified, a source-specific join will be performed; if **mtest** is already joined to the multicast address, the source will be added to its filter list.

I mcast-addr ifname [source-addr]

Leave the multicast address *mcast-addr* on the interface with address ifname. If a source source-addr is specified, only that source will be left.

i mcast-addr ifname n source-addr ...

Set the socket with membership of *mcast-addr* on interface *ifname* to include filter mode, and add n sources beginning with source-addr to the inclusion filter list.

e mcast-addr ifname n source-addr ...

Set the socket with membership of *mcast-addr* on interface *ifname* to exclude filter mode, and add n sources beginning with source-addr to the exclusion filter list.

t mcast-addr ifname source-addr

Set the socket with membership of *mcast-addr* on interface *ifname* to

block traffic from source source-addr.

b mcast-addr ifname source-addr

Set the socket with membership of *mcast-addr* on interface *ifname* to

allow traffic from source source-addr.

g mcast-addr ifname n Print n source filter entries for mcast-addr on interface ifname.

f filename Read commands from the file filename.

s n Sleep for n seconds.? List legal commands.q Quit the program.

IMPLEMENTATION NOTES

For each command implemented by **mtest**, the address family of each argument must be identical; it is not possible to mix IPv4 multicast memberships with IPv6, for example.

To support IPv6, all commands have now changed to accept an interface name rather than an interface address. For IPv4, the program will perform a lookup of the primary IP address based on the interface name. This may fail if no primary IP address is assigned.

SEE ALSO

D. Thaler, B. Fenner, and B. Quinn, Socket Interface Extensions for Multicast Filters, RFC 3678.

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