NAME

   mld - Multicast Listener Discovery Protocol

SYNOPSIS

   #include <sys/types.h>
   #include <sys/socket.h>
   #include <netinet/in.h>
   #include <netinet/in_systm.h>
   #include <netinet/ip6.h>
   #include <netinet/icmp6.h>
   #include <netinet6/mld6.h>

   int
   socket(*AF_INET6*, *SOCK_RAW*, *IPPROTO_ICMPV6*);

DESCRIPTION

   MLD is a control plane protocol used by IPv6 hosts and routers to propagate multicast group
   membership information. Normally this protocol is not used directly, except by the kernel itself, in
   response to multicast membership requests by user applications. Multicast routing protocol daemons
   may open a raw socket to directly interact with **mld** and receive membership reports.

   As of FreeBSD 8.0, MLD version 2 is implemented. This adds support for Source-Specific Multicast
   (SSM), whereby applications may communicate to upstream multicast routers that they are only
   interested in receiving multicast streams from particular sources. The retransmission of state-change
   reports adds some robustness to the protocol.

SYSCTL VARIABLES

   net.inet6.mld.ifinfo

            This opaque read-only variable exposes the per-link MLDv2 status to ifmcstat(8).

   net.inet6.mld.gsrdelay

            This variable specifies the time threshold, in seconds, for processing Group-and-Source Specific
            Queries (GSR). As GSR query processing requires maintaining state on the host, it may cause
            memory to be allocated, and is therefore a potential attack point for Denial-of-Service (DoS). If
            more than one GSR query is received within this threshold, it will be dropped, to mitigate the
            potential for DoS.

   net.inet6.mld.v1enable

            If this variable is non-zero, then MLDv1 membership queries (and host reports) will be
            processed by this host, and backwards compatibility will be enabled until the v1 'Older Version

Querier Present' timer expires. This sysctl is normally enabled by default.

SEE ALSO

netstat(1), sourcefilter(3), icmp6(4), inet(4), multicast(4), ifmcstat(8)

HISTORY

The **mld** manual page appeared in FreeBSD 8.0.