LOOPBACK6: A Utility For Detecting IPv6 Extension Header Changes

draft-he-6man-icmpv6-extensions-ipv6-ext-header
Probing Node

• Probing node sends an ICMPv6 Extended Echo Request message (type 160) to a probed node
• Like any ICMPv6 message, the ICMPv6 Extended Echo Request is encapsulated in an IPv6 header
• The IPv6 header may carry IPv6 extension headers
Probed Node

• Probed node returns an ICMPv6 Extended Echo Response (type 161)
• The ICMPv6 Extended Echo Response contains an extension header
• New extension header objects contain IPv6 extension headers, as they were received at the probed node
  • HBH options, Routing, Destination Options