

# 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