

Fusion Embedded™ RIP

The Fusion Embedded™ Routing Information Protocol (RIP) source code offering is a high performance, portable software engine that implements IP forwarding and route generation per industry standard RFCs.

Routing Information Protocol

RIP has been widely accepted as the standard routing protocol designed specifically for providing network routing based upon distance-vector algorithms. RIP routers send broadcast messages onto the network, which contain routing information about the network. This information is shared among all the RIP-capable routers in the network so that each router understands where it exists in the network and where its routes lead.

Features

- RIPng for IPv6
- Source routing
- Route recording
- Fragmentation and reassembly
- Proxy ARP
- Static routes
- ARP entries
- Redirect
- Echo
- Address mask
- Router discover
- Generic link addressing (supports non-IEEE addresses and networks with token-ring source-routing bridges)
- Multi-protocol forwarding database
- Generic data-link addressing with broadcast and point to point support
- Unnumbered RIP support
- RRD compliant
- Operating system independent
- Straight forward porting
- RIP2: Assumes classless routes and implements RIP2 for generic sub netting
- RIP2: Allows a unified database to be shared Integrated ISI

RFC Compliance

- RFC 2453; RIP Version 2
- RFC 1256; ICMP Router Discovery Protocol (IRDP)
- RFC 2080; RIPng for IPv6

