# Chapter 5
# ripquery

ripquery is experimental.

## 5.1 Name

**ripquery** - query RIP gateways

## 5.2 Synopsis

```
ripquery [ -1 ] [ -2 ] [ -[ a | 5 ] authkey ] [ -n ] [ -N dest[/mask] ]
    [ -p ] [ -r ] [ -v ] [ -w time ] gateway ...
```

## 5.3 Description

**ripquery** is used to request all routes known by a RIP gateway by sending a **RIP REQUEST** or a **RIP POLL** command. The routing information in any routing packets returned is displayed numerically and symbolically. **ripquery** is intended to be used as a tool for debugging gateways, not for network management.

**ripquery**, by default, uses the **RIP POLL** command, which is an undocumented extension to the RIP specification supported by **routed** on *SunOS 3.x* and later. The **RIP POLL** command is preferred over the **RIP REQUEST** command because it is not subject to split horizon and/or poisoned reverse. See "Chapter 11 Routing Information Protocol (RIP)" on page 39 of *Configuring GateD* for more information.

## 5.4 Options

**-1**
   **-1** sends the query as a version 1 packet.

**-2**
   **-2** sends the query as a version 2 packet (default).

**-[ a | 5 ]** *authkey*
   **-[ a | 5 ]** *authkey* specifies the authentication password to use for queries. If **-a** is specified, an authentication type of SIMPLE will be used. If **-5** is specified, an authentication type of MD5 will be used. Otherwise, the default is an authentication type of NONE, which indicates that authentication fields in incoming packets will be displayed but not validated.

**-n**
   **-n** prevents the address of the responding host from being looked up to determine the symbolic name.

**-N** *dest[/mask]*

> **-N** *dest[/mask]* specifies that the query should be for the specified *dest/mask* instead of the complete routing table. The specification of the optional mask implies a version 2 query. Up to 23 requests about specific destinations can be included in one packet.

**-p**

> **-p** (lowercase) uses the **RIP POLL** command to request information from the routing table. This is the default, but it is a proprietary extension supported only by some versions of routed and later versions of GateD. If there is no response to the **RIP POLL** command, the **RIP REQUEST** command is tried. GateD responds to a **RIP POLL** command with all the routes learned via RIP.

**-r**

> **-r** uses the **RIP REQUEST** command to request information from the gateway's routing table. Unlike the **RIP POLL** command, all gateways should support the **RIP REQUEST**. If there is no response to the **RIP REQUEST** command, the **RIP POLL** command is tried. GateD responds to a **RIP REQUEST** command with all the routes announced out the specified interface.

**-v**

> **-v** (lowercase) displays version information about **ripquery** before querying the gateways.

**-w** *time*

> The default *time* is 5 seconds.

## 5.5  Bugs

Some versions of UNIX do not allow looking up the symbolic name of a subnet.