

NAME

arping – send ARP REQUEST to a neighbour host

SYNOPSIS

arping [**-AbDfhqUV**] [**-c** *count*] [**-w** *deadline*] [**-i** *interval*] [**-s** *source*] [**-I** *interface*] {*destination*}

DESCRIPTION

Ping *destination* on device *interface* by ARP packets, using source address *source*.

arping supports IPv4 addresses only. For IPv6, see **ndisc6**(8).

OPTIONS

-A

The same as **-U**, but ARP REPLY packets used instead of ARP REQUEST.

-b

Send only MAC level broadcasts. Normally **arping** starts from sending broadcast, and switch to unicast after reply received.

-c *count*

Stop after sending *count* ARP REQUEST packets. With *deadline* option, instead wait for *count* ARP REPLY packets, or until the timeout expires.

-D

Duplicate address detection mode (DAD). See RFC2131, 4.4.1. Returns 0, if DAD succeeded i.e. no replies are received.

-f

Finish after the first reply confirming that target is alive.

-I *interface*

Name of network device where to send ARP REQUEST packets.

-h

Print help page and exit.

-q

Quiet output. Nothing is displayed.

-s *source*

IP source address to use in ARP packets. If this option is absent, source address is:

- In DAD mode (with option **-D**) set to 0.0.0.0.
- In Unsolicited ARP mode (with options **-U** or **-A**) set to *destination*.
- Otherwise, it is calculated from routing tables.

-U

Unsolicited ARP mode to update neighbours' ARP caches. No replies are expected.

-V

Print version of the program and exit.

-w *deadline*

Specify a timeout, in seconds, before **arping** exits regardless of how many packets have been sent or received. If any replies are received, exit with status 0, otherwise status 1. When combined with the *count* option, exit with status 0 if *count* replies are received before the deadline expiration, otherwise status 1.

-i *interval*

Specify an interval, in seconds, between packets.

SEE ALSO

ndisc6(8), **ping(8)**, **clockdiff(8)**, **tracepath(8)**.

AUTHOR

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SECURITY

arping requires CAP_NET_RAW capability to be executed. It is not recommended to be used as set-uid root, because it allows user to modify ARP caches of neighbour hosts.

AVAILABILITY

arping is part of *iputils* package.