

NAME

sc_ally — scamper driver to run Ally on a list of candidate aliases.

SYNOPSIS

```
sc_ally [-?D] [-i infile] [-o outfile] [-p port] [-U unix-socket] [-f fudge]  
        [-i probe-wait] [-q attempts] [-t logfile] [-w waittime]
```

DESCRIPTION

The **sc_ally** utility provides the ability to connect to a running *scamper*(1) instance and have a set of IPv4 address-pairs tested for aliases using the Ally technique. For each address pair in the file, **sc_ally** establishes which probe methods (UDP, TCP-ack, ICMP-echo) solicit an incrementing IP-ID value, and then uses the Ally technique on pairs where a probe method is able to obtain an incrementing IP-ID for both addresses. The output is written to a warts file. The options are as follows:

- ? prints a list of command line options and a synopsis of each.
- D causes **sc_ally** to detach and become a daemon.
- i *infile*
specifies the name of the input file which consists of a sequence of IPv4 address-pairs, one pair per line.
- o *outfile*
specifies the name of the output file to be written. The output file will use the warts format.
- p *port*
specifies the port on the local host where *scamper*(1) is accepting control socket connections.
- U *unix-socket*
specifies the name of a unix domain socket where *scamper*(1) is accepting control socket connections.
- f *fudge*
specifies the fudge factor to use when (1) inferring if IPIDs are assigned from a counter, and (2) inferring if two addresses share the same counter.
- i *probe-wait*
specifies the inter-probe gap for both ping and Ally measurements, in milliseconds. The default is 1000ms (1 second); the minimum is 200ms, and the maximum is 2000ms.
- q *attempts*
specifies the number of times to try Ally when one of the addresses is unresponsive.
- t *logfile*
specifies the name of a file to log output from **sc_ally** generated at run time.
- w *waittime*
specifies the minimum length of time, in seconds, to wait between completing a measurement to a particular IP address and issuing the next.

EXAMPLE

Given a set of IPv4-address pairs in a file named *infile.txt*:

```
192.0.2.1 192.0.32.10  
192.0.2.2 192.0.31.8  
192.0.2.3 192.0.30.64
```

and a `scamper(1)` daemon listening on port 31337, then these address-pairs can be tested for aliases using `sc_ally -i infile.txt -o outfile.warts -p 31337`

SEE ALSO

N. Spring, R. Mahajan, and D. Wetherall, *Measuring ISP topologies with Rocketfuel*, Proc. ACM SIGCOMM 2002. `scamper(1)`, `sc_wartsdump(1)`, `sc_warts2text(1)`

AUTHORS

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