

Modules

[os](#) [signal](#) [sys](#)
[re](#) [subprocess](#) [time](#)

Functions

dig_query(baselineserver, serverport, thehostname)

Given the server port returned by start_server, make a query for given DNS hostname to that server port.

kill_server(server, serverthread)

Given a server Popen object previously returned by run_server, kill the server and wait for it to terminate.

kill_strace(strace)

Given an strace Popen object previously returned by start_strace, detach and kill strace, returning a tuple (sendaddr, recvaddr), indicating the IPs the straced server sent to and received from, respectively.

run_server(serverpath)

Start the server python script given by pathname serverpath, and return a tuple (server, serveroutput, serverport). server is a Popen object, serveroutput is the server's stderr output stream, serverport is an integer indicating which port the server is listening on for incoming requests.

select(...)

[select](#)(rlist, wlist, xlist[, timeout]) -> (rlist, wlist, xlist)

Wait until one or more file descriptors are ready for some kind of I/O operation. The first three arguments are sequences of file descriptors to be waited on. For:

rlist -- wait until ready for reading

wlist -- wait until ready for writing

xlist -- wait for an ``exceptional condition''

If only one kind of condition is required, pass [] for the other two.

A file descriptor is either a socket or file object, or a small integer gotten from a fileno() method call on one of those.

The optional 4th argument specifies a timeout in seconds; it may be a floating point number to specify fractions of seconds. If it is None or None, the call will never time out.

The return value is a tuple of three lists corresponding to the three arguments; each contains the subset of the corresponding file descriptors that are ready.

*** IMPORTANT NOTICE ***

On Windows and OpenVMS, only sockets are supported; on Unix, all descriptors can be used.

start_strace(server)

Given a server Popen object previously returned by run_server, strace the server, returning the resulting strace Popen object.

Data

DIGBIN = '/usr/bin/dig'

PIPE = -1

PYTHONBIN = '/cs/research/nets/home1/starship/jamieson/arch/i386/bin/python'

SERVERSTDERR = 'ncsdns.stderr'

SERVERSTDOUT = 'ncsdns.stdout'

STDOUT = -2

STRACEBIN = '/usr/bin/strace'

cmd = 'uname -m'

f = 'i386'

recvfromre = <_sre.SRE_Pattern object>

sendtore = <_sre.SRE_Pattern object>

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