

Source Reference

Noddy Benchmark Script

This documents a noddy network latency benchmark script.

Revision	Date	Author	Note
1	2007-04-10	Kx Systems	Initial content

address

Kx Systems
555 Bryant St #375
Palo Alto CA
United States

web

<http://kx.com/>

email

info@kx.com

Contents

1 NoddyBenchmark File Documentation	2
benchmark.q File Reference	2

NoddyBenchmark File Documentation

benchmark.q File Reference

Functions

- **benchmark** ()
The "Benchmark" code to run.
- **echo** (val)
A function to print to a value to stdout.
- **asDestination** (host, port)
A function to convert a hostname and port number into a destination that we can connect to using hopen.
- **asFile** (filename)
A function to convert a filename into a file descriptor we can open using hopen.
- **haveArgument** (arg)
A function to check whether we were passed a certain command line argument.
- **rpcOnce** (handle)
Performs an RPC call to execute one call to the benchmark function.
- **createHandleOrDie** (server, port)
Try to connect to the remote server on the given port.
- **executeRemoteCalls** ()
A function to open a connection to the server and execute 'iterations' number of RPC calls to the server.

Variables

- **iterations** = 10000
The number of iterations to execute by default.
- **port** = 5000
The default port to use in the server process.
- **argv** = .Z.x
The command line arguments.
- **argc** = count .Z.x
The number of command line arguments.
- **argvAsDictionary** = .Q.opt .Z.x
The command line arguments as a dictionary.
- **port** = value first **argvAsDictionary**['port']
- **iterations** = value first **argvAsDictionary**['iterations']

Function Documentation

asDestination (host, port)

A function to convert a hostname and port number into a destination that we can connect to using hopen.

Parameters:

host The hostname of the remote machine

port The remote port to connect to

Returns:

A symbolic descriptor for the remote host:port

asFile (filename)

A function to convert a filename into a file descriptor we can open using hopen.

Parameters:

filename The filename to make into a descriptor

Returns:

The symbolic file descriptor

benchmark ()

The "Benchmark" code to run.

createHandleOrDie (server, port)

Try to connect to the remote server on the given port.

If we fail, then complain and exit.

Parameters:

server The server to connect to

port The port on which to connect

Returns:

The open connection handle

echo (val)

A function to print a value to stdout.

Parameters:

val The value to print

executeRemoteCalls ()

A function to open a connection to the server and execute 'iterations' number of RPC calls to the server. Save the timing data in the log file if requested.

haveArgument (arg)

A function to check whether we were passed a certain command line argument.

Parameters:

arg The symbolic form of a command line argument we are checking

Returns:

true if we were passed this argument, otherwise false

rpcOnce (handle)

Performs an RPC call to execute one call to the benchmark function.

Parameters:

handle an open handle to the remote server

Returns:

returns whatever the benchmark server returns

Variable Documentation

argc = count .z.x

The number of command line arguments.

argv = .z.x

The command line arguments.

argvAsDictionary = .Q.opt .z.x

The command line arguments as a dictionary.

"-flag arg" is processed so 'flag' is a key and arg is the associated value.

iterations = value first argvAsDictionary['iterations']

iterations = 10000

The number of iterations to execute by default.

port = value first argvAsDictionary['port']

port = 5000

The default port to use in the server process.