1 NAME

sjrun - Runs SJ parallel program as ring topology

2 SYNOPSIS


3 DESCRIPTION

sjrun looks in .sj files in supplied directories and uses the first lines of comment to generate execution command. The first two lines of a sj file will usually be:

```bash
//$ sessionjc src/foo/bar/Name.sj -d lib/
//$ sessionj -cp lib/ foo.bar.Name arg0 arg1
```

With the first line specifying compile command and second line run command.

To make an SJ comment compatible with this script use the following placeholders

- **Head node**: head-port right-port
  - Connects to head-port of tail-host
  - right-port of first body-host

- **Body node**: left-port right-port
  - Connects to right-port of next body-host
  - Listens on left-port

- **Tail node**: head-port tail-port
  - Listens on head-port for Head node
  - tail-port for last Body node

4 OPTIONS

- `-c` /path/to/hosts.conf, `-config=/path/to/hosts.conf`
  - Uses specified hosts config file with hostnames of target machines. (Default: nil) If this option is not specified, no command will be run.

- `-e` key:value:key2:value2.., `-extra-replace=key:value:key2:value2..`
  - Extra variables to search and replace
-n number-of-nodes, --nodes=number-of-nodes
   Number of body nodes to run. (Default: 1) Note that the total number
   of nodes to run is n+2, including Head/Tail node.

-p port-number, --port=port-number
   Port the Tail node listens at. (Default: 33300) This is the largest port
   number used in multiport mode.

-s, --single-port
   Runs the parallel in a single port mode on different machines. (Default:
   off) Requires -config set.

-w /path/to/working-dir, --working-dir=/path/to/working-dir/
   The execution will first change to this directory on the remote machine.
   (Default: current working directory)

-v, --verbose
   Verbose mode.

-h, --help
   This help text.

5 EXAMPLE
To run a precompiled parallel SJ program with 4 body node

   ./sjrun --nodes=4 path/to/source/

6 AUTHOR
Nicholas Ng <cn06@imperial.ac.uk>

7 VERSION
$Id: sjrun 23 2010-06-11 22:45:28Z cn06 $