**Computer Systems Technology**

British Columbia Institute of Technology

COMP 8005 - Assignment2- How-to

Albert Huang &

Aiyan Ma

Feb 20, 2018

# Table of Contents

[Table of Contents 2](#_Toc18607)

[1. Server-Manager 3](#_Toc7122)

[1.1Default Parameters 3](#_Toc12964)

[1.2 Specified Parameters 3](#_Toc17646)

[To start the POLL server: 4](#_Toc13187)

[To start the MT Server 4](#_Toc14937)

[2. Start the SuperClient 4](#_Toc9546)

[3. Optimize the host 4](#_Toc16523)

[4. Trouble Shooting Guide 5](#_Toc2876)

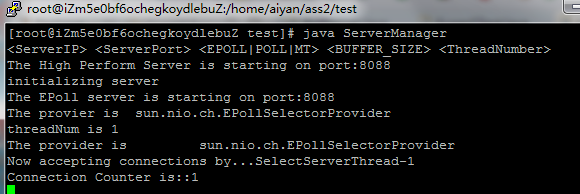
# Server-Manager

ServerManger is the entry point to:

1. Create a user interface of CLI to config the variables required for running different mode of servers( EPOLL, POLL and MT)
2. Setup the host machine environment ( fd size, heap memory, ip stack etc)
3. Start the server and execute each of them with proper context.

## 1.1Default Parameters

To Run it in java mode by default parameters:

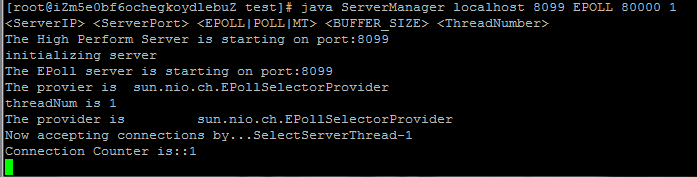


## 1.2 Specified Parameters

The parameters can be specified are:

<ServerIP> <ServerPort> <EPOLL|POLL|MT> <BUFFER\_SIZE> <ThreadNumber>

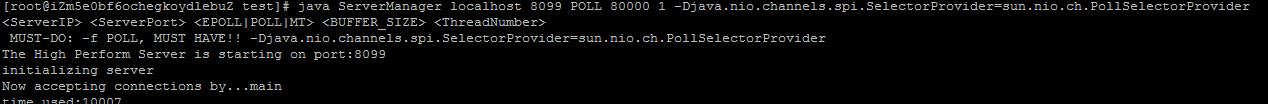
Example:



### To start the POLL server:

By define the mode=POLL and provider:

*java ServerManager localhost 8099 POLL 80000 1 -Djava.nio.channels.spi.SelectorProvider=sun.nio.ch.PollSelectorProvider*



### To start the MT Server

by define the mode=MT



# Start the SuperClient

SuperClient is a test client designed to running tirelessly send payload to the target server.

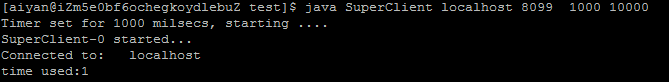
To utmost the client host, better to ulimit the fd and memory before starting it.

Command:

Java SuperClient {IP} {PORT} {INTERVAL} {TTL}

*$[aiyan@iZm5e0bf6ochegkoydlebuZ test]$ java SuperClient localhost 8099 1000 10000*

Example:



# Optimize the host

1 increase the fd to 100K

#ulimit -n 100000

2 increase the heap memory

#java -Xss1024m -Xms4096m -Xmx5120m

# Trouble Shooting Guide