Single Thread Server

The program includes two classes, namely STSMain.java, which is the main program, and SingleThreadedServer.java, which is the actual program.  
The makeSTSMain.bat batch command can be used to compile the programs using a command line. No parameter is required.

To execute the program use the following command:

java -cp ..\lib\commons-cli-1.4\commons-cli-1.4.jar;. STSMain <options>

Options:

-t number of tasks

-i number of iterations (computational load)

-s sleep time (waiting time)

The default options values are:

-t 10

-I 1000000

-s 0

The program prints: Number of tasks Sleep time Total elapsed time Time per Task

Here is some result:

1. Only processing (i = 1000000 s = 0)

java -cp ..\lib\commons-cli-1.4\commons-cli-1.4.jar;. STSMain -t 1 -i 1000000 -s 0

1 0 853 853.0

java -cp ..\lib\commons-cli-1.4\commons-cli-1.4.jar;. STSMain -t 2 -i 1000000 -s 0

2 0 1683 841.5

1. Only sleeping (i = 0 s = 1000)

java -cp ..\lib\commons-cli-1.4\commons-cli-1.4.jar;. STSMain -t 1 -i 0 -s 1000

1 1000 1020 1020.0

java -cp ..\lib\commons-cli-1.4\commons-cli-1.4.jar;. STSMain -t 2 -i 0 -s 1000

2 1000 2008 1004.0

1. Processing and sleeping (i = 1000000 s = 500)

java -cp ..\lib\commons-cli-1.4\commons-cli-1.4.jar;. STSMain -t 1 -i 1000000 -s 500

1 500 1348 1348.0

java -cp ..\lib\commons-cli-1.4\commons-cli-1.4.jar;. STSMain -t 2 -i 1000000 -s 500

2 500 2715 1357.5