# CPU Load

It’s a java based program to generate load on all the cores of cpu by creating multiple threads of execution.

5 threads are created every second to increase the CPU load. Every thread runs an infinite loop performing mathematical calculations.

## How to build:

It’s a maven based project. To build simply go inside project directory and run: mvn verify

customer@node1:~$ cd tariq/CPULoad/

customer@node1:~/tariq/CPULoad$

customer@node1:~/tariq/CPULoad$ mvn verify

[INFO] Scanning for projects...

[INFO]

[INFO] ------------------------------------------------------------------------

[INFO] Building CPULoad 1.0.0-SNAPSHOT

[INFO] ------------------------------------------------------------------------

[INFO]

[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ CPULoad ---

[WARNING] Using platform encoding (ISO-8859-1 actually) to copy filtered resources, i.e. build is platform dependent!

[INFO] skip non existing resourceDirectory /home/customer/tariq/CPULoad/src/main/resources

[INFO]

[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ CPULoad ---

[INFO] Nothing to compile - all classes are up to date

[INFO]

[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ CPULoad ---

[WARNING] Using platform encoding (ISO-8859-1 actually) to copy filtered resources, i.e. build is platform dependent!

[INFO] skip non existing resourceDirectory /home/customer/tariq/CPULoad/src/test/resources

[INFO]

[INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ CPULoad ---

[INFO] No sources to compile

[INFO]

[INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ CPULoad ---

[INFO]

[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ CPULoad ---

[INFO] Building jar: /home/customer/tariq/CPULoad/target/CPULoad-1.0.0-SNAPSHOT.jar

[INFO] ------------------------------------------------------------------------

[INFO] BUILD SUCCESS

[INFO] ------------------------------------------------------------------------

[INFO] Total time: 3.391 s

[INFO] Finished at: 2018-02-10T11:59:47-06:00

[INFO] Final Memory: 11M/231M

[INFO] ------------------------------------------------------------------------

customer@node1:~/tariq/CPULoad$

## Binary created

An executable jar file is created as a result of maven build.

## How to run

Go to target dir & run: java -jar CPULoad\*.jar

customer@node1:~/tariq/CPULoad$ cd target/

customer@node1:~/tariq/CPULoad/target$

customer@node1:~/tariq/CPULoad/target$ java -jar CPULoad\*.jar

creating 5 threads per second...

Total threads created:5

Total threads created:10

Total threads created:15

Total threads created:20

Total threads created:25

Total threads created:30

Total threads created:35

Total threads created:40

Total threads created:45

Total threads created:50

Total threads created:55

Total threads created:60

Total threads created:65

Total threads created:70

Total threads created:75

Total threads created:80

Total threads created:85

Total threads created:90

Total threads created:95

## Result

Using top command it can be seen that cpu usage is increasing and reaches its peak.

