# CSE2005L - Operating Systems Lab

# L1 , L2 Cache Benchmarking

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#### Download the compressed file of LMBench3



© www.bitmover.com/lmbench/get\_lmbench.html

# LMbench - Tools for performance analysi How do I get LMbench?

Download LMbench version 2 or LMbench version 3.





#### Download file from above website

wget http://www.bitmover.com/lmbench/lmbench3.tar.gz

#### Extract the compressed tar.gz file

tar -xvzf lmbench3.tar.gz

#### Once extracted

root@oslab-15bce1097:~/lmbench3# apt-get install build-essential root@oslab-15bce1097:~/lmbench3# make

root@oslab-15bce1097:~/Imbench3# mkdir SCSS

root@oslab-15bce1097:~/lmbench3# cd SCSS/

root@oslab-15bce1097:~/lmbench3/SCSS# touch s.ChangeSet

root@oslab-15bce1097:~/Imbench3/SCSS# nano s.ChangeSet

root@oslab-15bce1097:~/lmbench3/SCSS# cd ..

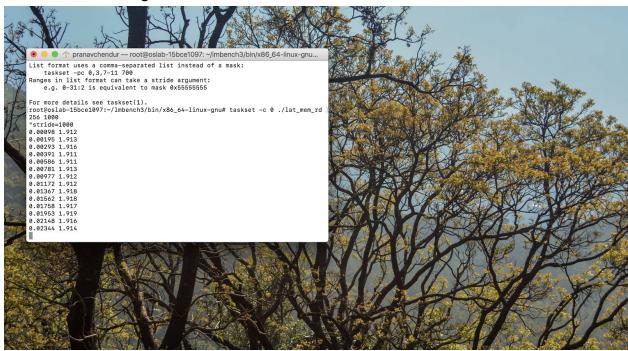
root@oslab-15bce1097:~/lmbench3# cd bin/

root@oslab-15bce1097:~/lmbench3/bin# cd x86\_64-linux-gnu/

root@oslab-15bce1097:~/lmbench3/bin/x86\_64-linux-gnu# taskset -c 0/1 .lat\_mem\_rd 256 1000



#### **Bemchmark Running**



## Running GNUPlot on captured data

```
# Scale font and line width (dpi) by changing the size! It will always display stretched.
set terminal svg size 400,300 enhanced fname 'arial' fsize 10 butt solid
set output 'out.svg'

plot "data.txt"
```

## We arrive at the following graph

