

Benchmarking MATrix Multiplication Outputs

- Java benchmark

----- benchmark: 2 tests -----										
Name (time in us)				Min	Max	Mean	StdDev	Median	IQR	Outliers
OPS	Rounds	Iterations								

test_matrix_multiplication				106.3000 (1.0)	184.0000 (1.0)	155.9900 (1.0)	24.4500 (1.0)	161.8500 (1.0)	10.9001 (1.0)	3;2
6,410.6678 (1.0)	10	1								
test_matrix_multiplication_numpy				11,090.5000 (104.33)	32,900.8000 (178.81)	13,785.6500 (88.38)	6,734.7402 (275.45)	11,768.5000 (72.71)	943.1001 (86.52)	1;1
72.5392 (0.01)	10	1								

Legend:										
Outliers: 1 Standard Deviation from Mean; 1.5 IQR (InterQuartile Range) from 1st Quartile and 3rd Quartile.										
OPS: Operations Per Second, computed as 1 / Mean										

- Python benchmark

Benchmark	(n)	Mode	Cnt	Score	Error	Units
testBenchmark.Matrix.testMethod	10	avgt	10	0,001	0,001	ms/op
testBenchmark.Matrix.testMethod	100	avgt	10	0,830	0,178	ms/op
testBenchmark.Matrix.testMethod	1000	avgt	10	1708,460	228,352	ms/op

- C benchmark

```
event syntax error: 'cpu_core/TOPDOWN.SLOTS,metric-id=cpu_core!3TOPDOWN.SLOTS..'
  \___ Bad event or PMU

Unable to find PMU or event on a PMU of 'cpu_core'

Performance counter stats for './matrix':

              79,78 msec task-clock                #    0,970 CPUs utilized
                13      context-switches           #   162,940 /sec
                 0      cpu-migrations              #    0,000 /sec
              6.196      page-faults               #    77,660 K/sec
<not supported>      cycles
<not supported>      instructions
<not supported>      branches
<not supported>      branch-misses

    0,082291594 seconds time elapsed

    0,022254000 seconds user
    0,045956000 seconds sys
```