

Mpi on one node

Graph500 Scale=20 u12-2.fascia

```
Time for count per iter: 40.559860 seconds
spmv ratio 87.157092%
eMA ratio 11.323668%
Peak Mem Usage is : 3.138687 GB
SpMM time is : 23.457994 second; EMA time is: 4.586901
SpMM Memory bandwidth is : 6.808948 GBytes per second
FMA Memory bandwidth is : 32.194311 GBytes per second
Total Memory bandwidth is : 10.960867 GBytes per second
SpMM Throughput is : 0.801053 Gflops per second
FMA Throughput is : 5.365718 Gflops per second
Total Throughput is : 1.547630 Gflops per second
Final raw count is 2.165708e+38
Prob is 0.000054
Final count is 4.031233e+42
```

Time for count per iter: 40.559860 seconds

spmv ratio 87.157092%

eMA ratio 11.323668%

Peak Mem Usage is : 3.138687 GB

SpMM time is : 23.457994 second; EMA time is: 4.586901

SpMM Memory bandwidth is : 6.808948 GBytes per second

FMA Memory bandwidth is : 32.194311 GBytes per second

Total Memory bandwidth is : 10.960867 GBytes per second

SpMM Throughput is : 0.801053 Gflops per second

FMA Throughput is : 5.365718 Gflops per second

Total Throughput is : 1.547630 Gflops per second

Final raw count is 2.165708e+38

Prob is 0.000054

Final count is 4.031233e+42

---

Graph500 Scale=20 u13.fascia

```
Time for count per iter: 80.153574 seconds
spmv ratio 86.082331%
eMA ratio 12.524303%
Peak Mem Usage is : 5.806557 GB
SpMM time is : 54.955528 second; EMA time is: 10.018052
SpMM Memory bandwidth is : 8.434217 GBytes per second
FMA Memory bandwidth is : 34.738397 GBytes per second
Total Memory bandwidth is : 12.489967 GBytes per second
SpMM Throughput is : 0.992261 Gflops per second
FMA Throughput is : 5.789733 Gflops per second
Total Throughput is : 1.731966 Gflops per second
Final raw count is 2.257683e+40
Prob is 0.000006
Final count is 3.539218e+45
```

Time for count per iter: 80.153574 seconds

spmv ratio 86.082331%

eMA ratio 12.524303%

Peak Mem Usage is : 5.806557 GB

SpMM time is : 54.955528 second; EMA time is: 10.018052

SpMM Memory bandwidth is : 8.434217 GBytes per second

FMA Memory bandwidth is : 34.738397 GBytes per second

Total Memory bandwidth is : 12.489967 GBytes per second

SpMM Throughput is : 0.992261 Gflops per second

FMA Throughput is : 5.789733 Gflops per second

Total Throughput is : 1.731966 Gflops per second

Final raw count is 2.257683e+40

Prob is 0.000006

Final count is 3.539218e+45