**Mpi two nodes**

**Miami.graph: u12-2.fascia**

Time for count per iter: 36.745218 seconds

spmv ratio 80.655596%

eMA ratio 16.983155%

Peak Mem Usage is : 8.776348 GB

SpMM time is : 21.618388 second; EMA time is: 6.227825

SpMM Memory bandwidth is : 17.011803 GBytes per second

FMA Memory bandwidth is : 72.292252 GBytes per second

Total Memory bandwidth is : 29.375314 GBytes per second

SpMM Throughput is : 2.001389 Gflops per second

FMA Throughput is : 12.048709 Gflops per second

Total Throughput is : 4.248479 Gflops per second

Final raw count is 7.366348e+23

Prob is 0.000054

Final count is 1.371167e+28

**Miami.graph: u13.fascia**

Time for count per iter: 61.456651 seconds

spmv ratio 33.967596%

eMA ratio 63.161920%

Peak Mem Usage is : 22.663086 GB

SpMM time is : 14.573958 second; EMA time is: 38.733833

SpMM Memory bandwidth is : 28.739512 GBytes per second

FMA Memory bandwidth is : 73.224236 GBytes per second

Total Memory bandwidth is : 61.062440 GBytes per second

SpMM Throughput is : 3.381119 Gflops per second

FMA Throughput is : 12.204039 Gflops per second

Total Throughput is : 9.791918 Gflops per second

Final raw count is 1.419937e+27

Prob is 0.000000

Final count is 1.233700e+34

**Orkut.graph: u12-2.fascia**

Time for count per iter: 113.194126 seconds

spmv ratio 90.402725%

eMA ratio 8.430781%

Peak Mem Usage is : 14.333656 GB

SpMM time is : 90.565247 second; EMA time is: 9.529993

SpMM Memory bandwidth is : 16.432196 GBytes per second

FMA Memory bandwidth is : 69.378880 GBytes per second

Total Memory bandwidth is : 21.473211 GBytes per second

SpMM Throughput is : 1.933200 Gflops per second

FMA Throughput is : 11.563147 Gflops per second

Total Throughput is : 2.850060 Gflops per second

Final raw count is 2.127072e+38

Prob is 0.000054

Final count is 3.959317e+42ss

**Orkut.graph: u13.fascia**

Time for count per iter: 222.066368 seconds

spmv ratio 87.196826%

eMA ratio 11.968504%

Peak Mem Usage is : 22.518909 GB

SpMM time is : 171.668853 second; EMA time is: 26.540053

SpMM Memory bandwidth is : 17.044127 GBytes per second

FMA Memory bandwidth is : 71.364079 GBytes per second

Total Memory bandwidth is : 24.317536 GBytes per second

SpMM Throughput is : 2.005191 Gflops per second

FMA Throughput is : 11.894013 Gflops per second

Total Throughput is : 3.329299 Gflops per second

Final raw count is 2.282042e+37

Prob is 0.000006

Final count is 3.577405e+42