LOGS

OMP

1)

Threads 2

==== Final Results ====

Epochs: 1000

Total Time: 14.092821 seconds

Final MaxDiff: 3.168619e-02

Converged: No

Performance: 70.96 epochs/sec

2)

Threads 4

==== Final Results ====

Epochs: 1000

Total Time: 10.459021 seconds

Final MaxDiff: 3.168619e-02

Converged: No

Performance: 95.61 epochs/sec

Center values: grid[250,250] = 0.000000 grid[250,251] = 0.000000

3)

Threads 8

==== Final Results ====

Epochs: 1000

Total Time: 15.506735 seconds

Final MaxDiff: 3.168619e-02

Converged: No

Performance: 64.49 epochs/sec

Center values: grid[250,250] = 0.000000 grid[250,251] = 0.000000

**MPI**

1)

Hosts = 1, Num Processes = 4

==== Final Results ====

Epochs: 1000

Total Time: 8.075226 seconds

Final MaxDiff: 1.814447e-02

Converged: No

Performance: 123.84 epochs/sec

Rank 0: Center values: grid[62,250] = 0.000000 grid[62,251] = 0.000000

Rank 1: Center values: grid[187,250] = 0.000000 grid[187,251] = 0.000000

Rank 2: Center values: grid[312,250] = 0.000000 grid[312,251] = 0.000000

Rank 3: Center values: grid[437,250] = 0.000000 grid[437,251] = 0.000000

2)

Hosts = 2, Num Processes = 4

==== Final Results ====

Epochs: 1000

Total Time: 5.063735 seconds

Final MaxDiff: 1.814447e-02

Converged: No

Performance: 197.48 epochs/sec

Rank 0: Center values: grid[62,250] = 0.000000 grid[62,251] = 0.000000

Rank 1: Center values: grid[187,250] = 0.000000 grid[187,251] = 0.000000

Rank 2: Center values: grid[312,250] = 0.000000 grid[312,251] = 0.000000

Rank 3: Center values: grid[437,250] = 0.000000 grid[437,251] = 0.000000

3)

Hosts = 4, Num Processes = 4

==== Final Results ====

Epochs: 1000

Total Time: 5.852357 seconds

Final MaxDiff: 1.814447e-02

Converged: No

Performance: 170.87 epochs/sec

Rank 0: Center values: grid[62,250] = 0.000000 grid[62,251] = 0.000000

Rank 1: Center values: grid[187,250] = 0.000000 grid[187,251] = 0.000000

[user15@afrit ~]$