

WRF Scaling

no. of procs in X direction	no. of procs in Y direction	No. of cores per node	No. of OpenMP threads	No. of Nodes	Time
6	33	36	2	11	3564
36	198	36	2	396	1495
24	165	36	2	220	1193
12	66	36	2	44	1192
24	132	36	2	176	1045
18	132	36	2	132	997
12	99	36	2	66	971
18	99	36	2	99	906
30	198	36	2	330	1434
20	100	36	2	112	932
18	198	36	2	198	1074
36	264	36	2	528	1454

If no. of procs in X direction=6 and no. of procs in Y direction=33 means

Launch a job on 6x33 MPI ranks and 2 OpenMP threads

Based this No. of nodes is determined and job is submitted.