

Values	Number Of Cores	Time
CFS_C=1 CFS_O =36MPI*1OMP CFS_A=36MPI*2OMP	109	8288s
CFS_C=1 CFS_O =72MPI*1OMP CFS_A=72MPI*2OMP	217	4843s
CFS_C=1 CFS_O =108MPI*1OMP CFS_A=108MPI*2OMP	325	4215s
CFS_C=1 CFS_O =144MPI*1OMP CFS_A=144MPI*2OMP	433	3828s
CFS_C=1 CFS_O =36MPI*2OMP CFS_A=36MPI*3OMP	181	Failed(1920s)
CFS_C=1 CFS_O =72MPI*2OMP CFS_A=72MPI*3OMP	361	4025s
CFS_C=1 CFS_O =108MPI*2OMP CFS_A=108MPI*3OMP	541	3505s
CFS_C=1 CFS_O =144MPI*2OMP CFS_A=144MPI*3OMP	721	3246s
CFS_C=1 CFS_O =36MPI*3OMP CFS_A=36MPI*4OMP	253	Failed(1625s)
CFS_C=1 CFS_O =72MPI*3OMP CFS_A=72MPI*4OMP	505	3652s
CFS_C=1 CFS_O =108MPI*3OMP CFS_A=108MPI*4OMP	757	3122s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=144MPI*4OMP	1009	2725s
CFS_C=1 CFS_O =36MPI*4OMP CFS_A=36MPI*6OMP	361	Failed(620s)
CFS_C=1 CFS_O =72MPI*4OMP CFS_A=72MPI*6OMP	721	2949s
CFS_C=1 CFS_O =108MPI*4OMP CFS_A=108MPI*6OMP	1081	2864s
CFS_C=1 CFS_O =144MPI*4OMP CFS_A=144MPI*6OMP	1441	2725s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=180MPI*3OMP	973	2977s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=180MPI*4OMP	1153	3000s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=216MPI*2OMP	865	3232s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=216MPI*3OMP	1081	2884s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=216MPI*4OMP	1297	2560s
CFS_C=1 CFS_O =144MPI*4OMP CFS_A=216MPI*6OMP	1873	2314s
CFS_C=1 CFS_O =144MPI*6OMP CFS_A=216MPI*9OMP	2809	2144s
CFS_C=1 CFS_O =144MPI*9OMP CFS_A=216MPI*12OMP	3889	1949s
CFS_C=1 CFS_O =144MPI*12OMP CFS_A=216MPI*18OMP	5617	1784s
CFS_C=1 CFS_O =144MPI*18OMP CFS_A=216MPI*18OMP	6481	1687s
CFS_C=1 CFS_O =144MPI*18OMP CFS_A=216MPI*36OMP	10368	1784s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=252MPI*2OMP	937	3390s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=252MPI*3OMP	1189	2987s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=252MPI*4OMP	1441	2961s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=288MPI*2OMP	1009	3462s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=288MPI*3OMP	1297	3369s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=288MPI*4OMP	1585	3209s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=324MPI*2OMP	1081	3408s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=324MPI*3OMP	1405	3068s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=324MPI*4OMP	1729	3153s

CFS_C=1 CFS_O =144MPI*3OMP CFS_A=360MPI*2OMP	1153	3639s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=360MPI*3OMP	1513	3631s
CFS_C=1 CFS_O =144MPI*3OMP CFS_A=360MPI*4OMP	1873	2998s
CFS_C=1 CFS_O =180MPI*2OMP CFS_A=216MPI*6OMP	1657	2585s
CFS_C=1 CFS_O =180MPI*3OMP CFS_A=216MPI*6OMP	1837	2493s
CFS_C=1 CFS_O =180MPI*4OMP CFS_A=216MPI*6OMP	2017	2426s
CFS_C=1 CFS_O =180MPI*6OMP CFS_A=216MPI*6OMP	2377	2304s

Number of cores formula:

$CFS_C + CFS_O + CFS_A = \text{Total Number Of Cores.}$

Value Computed for :

CFS_O(OCEAN):

$CFS_O = \text{Number Of process} * \text{Number Of OMP Threads}$

For CFS_O run number of OMP threads set to 1.

CFS_A(ATMOSPHERE):

$CFS_A = \text{Number of Process} * \text{Number of OMP threads.}$

For CFS_A run number of OMP threads is set to 2.

So the "Values" section in above table means:

CFS_C=1 MPI Process CFS_O =16 MPI Process CFS_A=16 MPI Process * 2 OMP Threads

CFS_C=1 MPI Process CFS_O =32 MPI Process CFS_A=32 MPI Process * 2 OMP Threads

CFS_C=1 MPI Process CFS_O =64 MPI Process CFS_A=64 MPI Process * 2 OMP Threads

... and so on.