

Table 1

TEST	Grid	Decomposition	NY_CPU	NZ_CPU	Tasks/node	nodes	Total tasks	Time x time step	Notes
0	256 x 256 x 257	SLAB	1	4	4	1	4	-	Crash
1	256 x 256 x 257	SLAB	4	1	4	1	4	6.135	1 node - CPU - 2s
2	256 x 256 x 257	SLAB	8	1	4	2	8	2.330	
3	256 x 256 x 257	SLAB	8	1	4	2	8	2.331	With -gpu flag (MPI aware)
4	256 x 256 x 257	SLAB	16	1	4	4	16	1.016	
5	256 x 256 x 257	SLAB	32	1	4	8	32	0.593	
6	256 x 256 x 257	SLAB	64	1	4	16	64	0.370	
7	256 x 256 x 257	SLAB	128	1	4	32	128	0.278	
	256 x 256 x 257	SLAB	256	1	4	64	256		
8	512 x 512 x 513	SLAB	4	1	4	1	4	41.518	Specify memory required
9	512 x 512 x 513	SLAB	8	1	4	2	8	21.282	
10	512 x 512 x 513	SLAB	16	1	4	4	16	10.212	
11	512 x 512 x 513	SLAB	32	1	4	8	32	4.758	
12	512 x 512 x 513	SLAB	64	1	4	16	64	2.528	
13	512 x 512 x 513	SLAB	128	1	4	32	128	1.563	Switch to m100_usr_bprod
28	512 x 512 x 513	SLAB	256	1	4	64	256		Skip, too much queue

Table 1						
			SLAB			
			256 x 256 x 257		512 x 512 x 513	
CORES	NODES	SPEED-UP	TIME	SPEED-UP	TIME	SPEED-UP
		IDEAL	Time	Speed-up	Time	Speed-up
1	1	1	6.135	1.00000	41.518	1.00000
2	2	2	2.331	2.63192	21.282	1.95085
4	4	4	1.016	6.03839	10.212	4.06561
8	8	8	0.593	10.34570	4.758	8.72594
16	16	16	0.370	16.58108	2.528	16.42326
32	32	32	0.278	22.06835	1.563	26.56302
64	64	64				
128	128	128				

