

Repetition's in 2d rectangular grid	Triangulation Refine Global	Parallel code on single processor	Running Parallel on multiple processors
(1,1)	1	ok	ok
	2	ok	ok
	3	Ok	Ok
(2,2)	1	Ok	Ok
	2	Ok	Ok
	3	Failed	failed
	4	ok	Ok (except n_proc = 4)
(3,3)	1	Ok	Ok
	2	Ok	Ok
	3 or 4	Failed	Failed
(4,4)	3	ok	Failed
	2	failed	failed
	4	Failed	failed
	1	Ok	ok
5,5	1	Ok	Ok
	2	Failed	Failed
	3	Ok	ok(except nproc = 2)
6,6	1	Ok	Ok
	2	failed	failed
	3	Failed	failed
	4	Ok	Ok (except n_proc = 2)
10,10	1	Failed	failed
	2	Ok	Ok(except n_proc=2,3,6 etc)
	3	Failed	failed
	4	Ok	Failed