performance analysis study (lxlogin5.lrz.de)						
Size	serial time(sec)	grid dimension	#processor	MPI time(sec)	speedup	efficiency
	118.102	1 X 1	1	76.5918	1.541966634	1.541966634
	118.102	2 X 1	2	37.5593	3.1444143	1.57220715
	118.102	2 X 2	4	21.3492	5.531916887	1.382979222
	118.102	3 X 3	9	17.4781	6.757141795	0.7507935327
	118.102	4 X 4	16	15.867	7.443246991	0.4652029369
3000	118.102	5 X 4	20	26.3032	4.490024027	0.2245012014
	118.102	6 X 6	36	14.8062	7.976523348	0.221570093
	118.102	7 X 7	49	11.0061	10.73059485	0.2189917317
	118.102	9 X 9	81	5.96457	19.80058915	0.2444517178
	118.102	13 X 13	169	6.60304	17.88600402	0.1058343433
	118.102	17 X 17	289	8.60037	13.73219989	0.04751626261
	62.6418	1 X 1	1	34.2421	1.829379623	1.829379623
	62.6418	2 X 1	2	16.2914	3.845083909	1.922541955
	62.6418	2 X 2	4	9.24359	6.776782614	1.694195653
	62.6418	3 X 3	9	7.37498	8.493826424	0.9437584915
	62.6418	4 X 4	16	6.58865	9.507531892	0.5942207432
2000	62.6418	5 X 4	20	11.7729	5.32084703	0.2660423515
	62.6418	6 X 6	36	5.69298	11.00334096	0.3056483599
	62.6418	7 X 7	49	3.63687	17.22409654	0.3515121744
	62.6418	9 X 9	81	1.4612	42.87010676	0.5292605773
	62.6418	13 X 13	169	1.46115	42.87157376	0.2536779512
	62.6418	17 X 17	289	2.37234	26.40506841	0.09136701873
1250	23.034	1 X 1	1	12.512	1.840952685	1.840952685
	23.034	2 X 1	2	4.99054	4.615532588	2.307766294
	23.034	2 X 2	4	2.62577	8.77228394	2.193070985
	23.034	3 X 3	9	2.2329	10.3157329	1.146192545
	23.034	4 X 4	16	1.24307	18.52992993	1.158120621
	23.034	5 X 4	20	3.22002	7.153371718	0.3576685859
	23.034	6 X 6	36	1.0172	22.64451435	0.6290142876

	23.034	7 X 7	49	0.540927	42.58245567	0.8690297076
	23.034	9 X 9	81	0.306934	75.04544951	0.926487031
	23.034	13 X 13	169	0.700922	32.86242977	0.1944522472
	23.034	17 X 17	289	1.13697	20.25910974	0.07010072574
	2.29717	1 X 1	1	1.22649	1.872962682	1.872962682
	2.29717	2 X 1	2	0.651036	3.528483832	1.764241916
	2.29717	2 X 2	4	0.302923	7.583346263	1.895836566
	2.29717	3 X 3	9	0.178099	12.89827568	1.433141742
	2.29717	4 X 4	16	0.10359	22.1755961	1.385974756
500	2.29717	5 X 4	20	0.15082	15.23120276	0.7615601379
	2.29717	6 X 6	36	0.107402	21.38852163	0.5941256008
	2.29717	7 X 7	49	0.086527	26.54859177	0.5418079953
	2.29717	9 X 9	81	0.086629	26.51733253	0.3273744757
	2.29717	13 X 13	169	0.268138	8.567118424	0.05069300843
	2.29717	17 X 17	289	0.616672	3.725108323	0.01288964818
	0.166802	1 X 1	1	0.105718	1.57780132	1.57780132
	0.166802	2 X 1	2	0.053455	3.120419044	1.560209522
	0.166802	2 X 2	4	0.028053	5.945959434	1.486489858
	0.166802	3 X 3	9	0.015513	10.75240121	1.194711246
	0.166802	4 X 4	16	0.010085	16.53961329	1.03372583
200	0.166802	5 X 4	20	0.01801	9.261632426	0.4630816213
	0.166802	6 X 6	36	0.017329	9.625598707	0.2673777419
	0.166802	7 X 7	49	0.015328	10.88217641	0.2220852328
	0.166802	9 X 9	81	0.03881	4.297912909	0.0530606532
	0.166802	13 X 13	169	0.141477	1.179004361	0.00697635716
	0.166802	17 X 17	289	0.324533	0.5139754663	0.00177846182
100	0.023101	1 X 1	1	0.020641	1.119180272	1.119180272
	0.023101	2 X 1	2	0.007739	2.985010983	1.492505492
	0.023101	2 X 2	4	0.004695	4.920340788	1.230085197
	0.023101	3 X 3	9	0.003645	6.337722908	0.7041914342
	0.023101	4 X 4	16	0.003052	7.569134993	0.4730709371

	0.023101	5 X 4	20	0.006368	3.627669598	0.1813834799
	0.023101	6 X 6	36	0.007508	3.076851359	0.08546809329
	0.023101	7 X 7	49	0.007804	2.960148642	0.06041119677
	0.023101	9 X 9	81	0.029722	0.7772357177	0.00959550268
	0.023101	13 X 13	169	0.155375	0.1486790024	0.00087975741
	0.023101	17 X 17	289	0.237973	0.09707403781	0.00033589632
	0.003787	1 X 1	1	0.003499	1.082309231	1.082309231
	0.003787	2 X 1	2	0.002655	1.426365348	0.7131826742
	0.003787	2 X 2	4	0.001294	2.926584235	0.7316460587
	0.003787	3 X 3	9	0.001495	2.533110368	0.2814567075
	0.003787	4 X 4	16	0.001921	1.971369079	0.1232105674
50	0.003787	5 X 4	20	0.003971	0.9536640645	0.04768320322
	0.003787	6 X 6	36	0.004723	0.8018208766	0.02227280213
	0.003787	7 X 7	49	0.004384	0.8638229927	0.01762904067
	0.003787	9 X 9	81	0.026823	0.1411848041	0.00174302227
	0.003787	13 X 13	169	0.106754	0.0354740806	0.00020990580
	0.003787	17 X 17	289	0.173267	0.02185644122	0.00007562782
	0.000683	1 X 1	1	0.000242	2.82231405	2.82231405
	0.000683	2 X 1	2	0.000575	1.187826087	0.5939130435
	0.000683	2 X 2	4	0.00066	1.034848485	0.2587121212
	0.000683	3 X 3	9	0.000334	2.04491018	0.2272122422
	0.000683	4 X 4	16	0.000479	1.425887265	0.08911795407
10	0.000683	5 X 4	20	0.001542	0.4429312581	0.02214656291
	0.000683	6 X 6	36	0.001498	0.455941255	0.01266503486
	0.000683	7 X 7	49	0.001498	0.455941255	0.00930492357
	0.000683	9 X 9	81	0.020912	0.0326606733	0.00040321818
	0.000683	13 X 13	169	0.070417	0.00969936237	0.00005739267
	0.000683	17 X 17	289	0.149058	0.00458210897	0.00001585504

