

Table 1: Reported results for problems 5.1-5.2

PN	VAR	SP	NHZI			NHZ2			MHZ2			DPM			PCG			CGD								
			NIT	FE	PT	Norm	NIT	FE	PT	Norm	NIT	FE	PT	Norm	NIT	FE	PT	Norm	NIT	FE	PT	Norm				
5.1	1000	x1	11	53	0.0107	2.76E-09	10	50	0.0421	9.13E-10	47	49	0.0361	8.89E-09	27	52	0.0217	5.69E-09	2	17	0.0066	0	62	127	0.0496	8.49E-09
	1000	x2	11	52	0.0146	3.19E-09	10	48	0.0151	8.78E-10	48	50	0.0289	7.58E-09	22	44	0.0200	8.81E-09	25	74	0.0241	4.57E-09	59	121	0.0416	9.22E-09
	1000	x3	13	71	0.0127	3.07E-09	10	57	0.0150	4.78E-09	67	82	0.0404	8.91E-09	28	58	0.0167	5.18E-09	27	62	0.0192	4.70E-09	65	136	0.0633	9.82E-09
	1000	x4	12	62	0.0136	3.48E-09	10	53	0.0108	9.34E-09	45	47	0.0255	9.65E-09	23	45	0.0141	7.69E-09	25	60	0.0192	2.27E-09	61	125	0.0458	9.69E-09
	1000	x5	9	4	0.0115	7.03E-09	8	37	0.0095	5.38E-09	44	46	0.0327	8.27E-09	23	48	0.0140	8.97E-09	17	33	0.0165	6.56E-09	59	121	0.0358	8.00E-09
	1000	x6	10	46	0.0207	4.15E-09	9	42	0.0095	1.26E-09	45	47	0.0282	9.91E-09	20	41	0.0121	5.90E-09	19	39	0.0178	4.61E-09	59	121	0.0326	8.63E-09
	1000	x7	10	46	0.0109	4.41E-09	9	42	0.0092	1.25E-09	46	48	0.0268	8.95E-09	22	45	0.0128	7.47E-09	2	16	0.0050	0	58	119	0.0464	9.89E-09
	10000	x1	11	53	0.0773	7.69E-09	10	50	0.0786	2.93E-09	43	45	0.2041	9.71E-09	28	54	0.1294	8.83E-09	2	17	0.0239	0	56	115	0.2484	9.70E-09
	10000	x2	12	56	0.0834	1.23E-09	10	48	0.0779	2.78E-09	44	46	0.1737	7.97E-09	24	48	0.1090	6.85E-09	5	37	0.0466	0	54	111	0.2439	8.23E-09
	10000	x3	13	71	0.1026	9.68E-09	11	61	0.0774	1.30E-09	67	82	0.2586	9.01E-09	29	60	0.1329	8.06E-09	25	55	0.1121	1.46E-09	60	126	0.2545	9.83E-09
	10000	x4	12	62	0.0922	8.73E-09	11	57	0.0760	2.55E-09	42	44	0.1585	8.39E-09	25	49	0.1128	5.83E-09	27	61	0.1403	5.81E-09	56	115	0.2210	8.90E-09
	10000	x5	10	45	0.0634	2.26E-09	8	37	0.0606	5.49E-09	40	42	0.1641	9.72E-09	25	52	0.1089	5.61E-09	29	63	0.1362	2.64E-09	53	109	0.2032	8.49E-09
	10000	x6	11	50	0.0801	1.60E-09	9	42	0.0593	3.96E-09	42	44	0.1626	8.32E-09	21	43	0.0883	8.87E-09	2	16	0.0239	0	53	109	0.2166	9.23E-09
	10000	x7	11	50	0.0790	1.69E-09	9	42	0.0615	3.90E-09	43	45	0.1620	7.38E-09	24	49	0.1103	5.84E-09	2	16	0.0223	0	53	109	0.2169	8.50E-09
	100000	x1	12	57	0.6071	2.92E-09	10	50	0.5059	9.28E-09	41	43	1.2539	7.93E-09	30	58	0.9385	6.98E-09	2	17	0.1892	0	51	105	1.6571	8.91E-09
	100000	x2	12	56	0.5799	3.90E-09	10	48	0.4606	8.79E-09	41	43	1.2585	8.50E-09	26	52	0.7787	5.41E-09	2	16	0.1883	0	48	99	1.5443	9.97E-09
	100000	x3	14	75	0.7303	3.74E-09	11	61	0.5844	4.11E-09	67	82	2.0087	9.02E-09	31	64	0.9947	6.37E-09	26	56	0.8340	4.30E-09	55	116	1.8805	9.07E-09
100000	x4	13	66	0.6573	3.26E-09	11	57	0.5716	8.07E-09	40	42	1.2318	7.91E-09	26	51	0.7871	9.19E-09	28	62	0.9528	6.17E-09	51	105	1.6858	8.34E-09	
100000	x5	10	45	0.4664	7.01E-09	9	41	0.4573	1.13E-09	38	40	1.1577	9.34E-09	26	54	0.8719	8.63E-09	2	16	0.1752	0	47	97	1.5160	9.61E-09	
100000	x6	11	50	0.5747	5.05E-09	10	46	0.4676	1.09E-09	40	42	1.2231	7.15E-09	23	47	0.7654	6.99E-09	2	16	0.1679	0	48	99	1.5581	8.37E-09	
100000	x7	11	50	0.5433	5.35E-09	10	46	0.4737	1.07E-09	40	42	1.2170	8.79E-09	25	51	0.8013	9.23E-09	2	16	0.1724	0	47	97	1.4588	9.94E-09	
5.2	1000	x1	6	8	0.0069	9.53E-09	14	27	0.0390	3.40E-09	84	86	0.0799	9.97E-09	30	62	0.0216	7.00E-09	-	-	-	-	92	186	0.0679	8.40E-09
	1000	x2	6	8	0.0070	4.57E-10	14	28	0.0127	6.26E-09	82	84	0.0559	1.00E-08	29	60	0.0271	9.80E-09	-	-	-	-	90	182	0.0630	9.09E-09
	1000	x3	7	9	0.0099	3.43E-11	15	28	0.0123	4.73E-09	88	90	0.0720	8.36E-09	31	64	0.0365	8.48E-09	-	-	-	-	95	192	0.0694	8.24E-09
	1000	x4	6	8	0.0081	6.25E-09	15	29	0.0140	3.97E-09	86	88	0.0699	9.36E-09	31	64	0.0241	5.80E-09	-	-	-	-	93	188	0.0782	9.45E-09
	1000	x5	4	6	0.0064	1.46E-11	11	23	0.0113	5.25E-09	75	77	0.0536	8.53E-09	27	56	0.0228	5.63E-09	24	32	0.0151	6.07E-09	81	164	0.0664	8.10E-09
	1000	x6	4	6	0.0058	4.37E-10	13	27	0.0124	3.16E-09	78	80	0.0543	8.66E-09	28	58	0.0249	8.16E-09	2	3	0.0037	0	85	172	0.0865	8.51E-09
	1000	x7	4	6	0.0058	5.09E-09	14	29	0.0122	2.83E-09	80	82	0.0517	8.64E-09	29	60	0.0256	6.65E-09	-	-	-	-	87	176	0.0702	9.07E-09
	10000	x1	6	8	0.0330	1.96E-09	15	29	0.0849	2.75E-09	89	91	0.4095	7.73E-09	32	66	0.1583	5.52E-09	-	-	-	-	95	192	0.4364	8.65E-09
	10000	x2	6	8	0.0334	1.62E-09	15	30	0.0735	4.34E-09	87	89	0.3735	7.76E-09	31	64	0.1526	7.75E-09	-	-	-	-	93	188	0.4429	9.40E-09
	10000	x3	6	8	0.0347	5.38E-09	16	30	0.0796	3.76E-09	92	94	0.3921	8.53E-09	33	68	0.1653	6.69E-09	-	-	-	-	98	198	0.4304	8.45E-09
	10000	x4	6	8	0.0313	5.63E-10	16	31	0.0937	2.80E-09	90	92	0.3847	9.56E-09	32	66	0.1606	9.12E-09	-	-	-	-	96	194	0.4634	9.71E-09
	10000	x5	3	5	0.0196	9.97E-10	12	25	0.0703	3.42E-09	79	81	0.3370	8.74E-09	28	58	0.1443	8.84E-09	-	-	-	-	84	170	0.3926	9.34E-09
	10000	x6	5	9	0.0309	5.61E-09	13	27	0.0754	9.37E-09	82	84	0.3745	8.87E-09	30	62	0.1543	6.45E-09	-	-	-	-	88	178	0.3857	9.10E-09
	10000	x7	4	6	0.0255	2.16E-10	14	29	0.0768	8.46E-09	84	86	0.3690	8.85E-09	31	64	0.1613	5.26E-09	-	-	-	-	90	182	0.3959	9.50E-09
	100000	x1	12	21	0.4629	2.54E-09	15	29	0.5583	8.79E-09	93	95	3.3514	8.07E-09	33	68	1.3015	8.73E-09	-	-	-	-	98	198	3.8006	9.08E-09
	100000	x2	14	26	0.5496	5.23E-09	16	32	0.6310	3.14E-09	91	93	3.1984	8.10E-09	33	68	1.2933	6.14E-09	-	-	-	-	96	194	3.7101	9.88E-09
	100000	x3	12	21	0.4291	6.88E-09	17	32	0.6332	2.76E-09	96	98	3.3850	8.91E-09	35	72	1.3383	5.30E-09	-	-	-	-	101	204	3.8228	8.86E-09
100000	x4	10	17	0.3759	9.70E-09	16	31	0.6076	8.82E-09	94	96	3.3554	9.98E-09	34	70	1.2870	7.22E-09	-	-	-	-	100	202	3.9258	8.15E-09	
100000	x5	8	16	0.3153	4.01E-09	13	27	0.5303	2.46E-09	83	85	2.9703	9.14E-09	30	62	1.1146	7.00E-09	-	-	-	-	88	178	3.3336	8.20E-09	
100000	x6	11	22	0.4354	7.41E-09	14	29	0.4960	6.77E-09	86	88	3.0205	9.27E-09	32	66	1.1977	5.10E-09	-	-	-	-	91	184	3.4703	9.67E-09	
100000	x7	13	26	0.5003	6.19E-09	15	31	0.5559	6.12E-09	88	90	3.1782	9.24E-09	32	66	1.2539	8.32E-09	-	-	-	-	94	190	3.5837	8.02E-09	

Table 2: Reported results for problems 5.3-5.4

PN	VAR	SP	NHZ1				NHZ2				MHZ2				DFPM				PCG				CGD			
			NIT	FE	PT	Norm	NIT	FE	PT	Norm	NIT	FE	PT	Norm	NIT	FE	PT	Norm	NIT	FE	PT	Norm	NIT	FE	PT	Norm
5.3	1000	x1	28	227	0.0488	8.99E-09	44	354	0.1208	6.21E-09	283	852	0.1985	9.88E-09	42	189	0.0483	3.27E-09	583	1912	0.3972	8.50E-09				
	1000	x2	25	207	0.0369	9.71E-09	39	321	0.0804	6.83E-09	278	833	0.1791	9.66E-09	36	163	0.0457	9.33E-09	206	706	0.1711	8.03E-09				
	1000	x3	47	316	0.0614	5.75E-09	51	390	0.0788	9.74E-09	293	934	0.2533	9.83E-09	54	236	0.0686	7.74E-09	379	1251	0.2651	9.76E-09				
	1000	x4	32	252	0.0579	6.24E-09	47	370	0.0929	9.10E-09	272	824	0.2094	9.65E-09	47	209	0.0615	7.41E-09	-	-	-	-				
	1000	x5	32	248	0.0503	5.70E-09	44	347	0.0535	7.47E-09	233	680	0.1958	9.93E-09	-	-	-	-	402	1377	0.2635	9.49E-09				
	1000	x6	31	242	0.0429	5.92E-09	42	333	0.0548	6.50E-09	44	93	0.0382	4.35E-09	36	142	0.0270	9.30E-09	355	1290	0.2615	8.49E-09				
	1000	x7	33	254	0.0637	8.26E-09	48	371	0.0897	7.30E-09	246	721	0.1697	9.99E-09	43	176	0.0556	7.81E-09	-	-	-	-				
	10000	x1	29	235	0.3286	5.41E-09	45	362	0.4312	6.22E-09	221	641	1.0583	9.77E-09	45	222	0.3092	3.29E-09	296	897	1.5753	7.45E-09				
	10000	x2	26	215	0.2507	5.99E-09	40	329	0.4187	7.01E-09	294	881	1.4583	9.83E-09	-	-	-	-	494	1719	2.6130	5.72E-09				
	10000	x3	42	296	0.3385	7.32E-09	52	398	0.5095	9.19E-09	352	1070	1.7165	9.63E-09	-	-	-	-	535	1742	2.7415	5.00E-09				
	10000	x4	32	252	0.2904	8.33E-09	48	378	0.5056	9.11E-09	105	280	0.5056	8.56E-09	47	227	0.2963	3.52E-09	470	1528	2.5964	9.16E-09				
	10000	x5	33	255	0.2943	9.25E-09	46	360	0.4202	9.49E-09	259	773	1.3047	9.86E-09	-	-	-	-	165	633	0.9811	9.73E-09				
	10000	x6	30	240	0.3038	4.77E-09	42	337	0.3515	8.17E-09	246	727	1.2310	9.67E-09	44	174	0.2787	6.77E-09	-	-	-	-				
	10000	x7	36	269	0.3151	5.26E-09	50	381	0.4379	9.36E-09	268	805	1.3046	9.89E-09	-	-	-	-	225	802	1.2054	9.86E-09				
	100000	x1	29	235	2.5471	7.65E-09	46	370	3.9669	6.24E-09	142	366	6.1327	5.95E-09	-	-	-	-	525	1586	25.4072	9.36E-09				
	100000	x2	26	215	2.3050	8.52E-09	41	337	3.4545	7.13E-09	310	929	14.0511	9.82E-09	-	-	-	-	529	1807	27.0562	6.82E-09				
	100000	x3	41	292	3.3530	9.88E-09	53	406	4.2657	8.94E-09	365	1116	16.8486	9.70E-09	-	-	-	-	418	1261	20.3785	9.08E-09				
100000	x4	33	260	2.7970	5.12E-09	49	386	4.0323	9.34E-09	263	797	12.1257	9.91E-09	-	-	-	-	-	-	-	-					
100000	x5	33	254	2.6656	8.78E-09	49	376	3.8985	7.02E-09	282	845	12.8748	9.86E-09	-	-	-	-	439	1621	23.8868	9.37E-09					
100000	x6	31	245	2.6145	6.63E-09	44	350	3.5152	6.22E-09	63	114	2.3735	7.16E-09	52	207	2.9044	2.81E-09	192	709	10.2294	9.07E-09					
100000	x7	35	265	2.7995	4.98E-09	35	261	2.8517	9.95E-09	275	818	12.5011	9.75E-09	-	-	-	-	255	939	13.6540	5.95E-09					
5.4	1000	x1	1	2	0.0033	0	1	2	0.0551	0	1	2	0.0026	0	1	2	0.0026	0	1	2	0.0028	0				
	1000	x2	1	2	0.0027	0	1	2	0.0055	0	1	2	0.0028	0	1	2	0.0027	0	1	2	0.0025	0				
	1000	x3	1	2	0.0028	0	1	2	0.0028	0	1	2	0.0026	0	1	2	0.0028	0	1	2	0.0031	0				
	1000	x4	1	2	0.0030	0	1	2	0.0017	0	1	2	0.0027	0	1	2	0.0027	0	1	2	0.0027	0				
	1000	x5	1	2	0.0026	0	1	2	0.0028	0	1	2	0.0017	0	1	2	0.0026	0	1	2	0.0026	0				
	1000	x6	1	2	0.0017	0	1	2	0.0026	0	1	2	0.0026	0	1	2	0.0026	0	1	2	0.0026	0				
	1000	x7	1	2	0.0064	0	1	2	0.0026	0	1	2	0.0025	0	1	2	0.0038	0	1	2	0.0025	0				
	10000	x1	1	2	0.0064	0	1	2	0.0060	0	1	2	0.0062	0	1	2	0.0067	0	1	2	0.0066	0				
	10000	x2	1	2	0.0067	0	1	2	0.0065	0	1	2	0.0058	0	1	2	0.0063	0	1	2	0.0104	0				
	10000	x3	1	2	0.0134	0	1	2	0.0057	0	1	2	0.0060	0	1	2	0.0061	0	1	2	0.0061	0				
	10000	x4	1	2	0.0063	0	1	2	0.0057	0	1	2	0.0062	0	1	2	0.0059	0	1	2	0.0058	0				
	10000	x5	1	2	0.0056	0	1	2	0.0062	0	1	2	0.0073	0	1	2	0.0060	0	1	2	0.0066	0				
	10000	x6	1	2	0.0063	0	1	2	0.0059	0	1	2	0.0057	0	1	2	0.0059	0	1	2	0.0061	0				
	10000	x7	1	2	0.0112	0	1	2	0.0058	0	1	2	0.0053	0	1	2	0.0065	0	1	2	0.0053	0				
	100000	x1	1	2	0.0359	0	1	2	0.0378	0	1	2	0.0452	0	1	2	0.0431	0	1	2	0.0381	0				
	100000	x2	1	2	0.0398	0	1	2	0.0398	0	1	2	0.04	0	1	2	0.0365	0	1	2	0.0447	0				
	100000	x3	1	2	0.0357	0	1	2	0.0380	0	1	2	0.0361	0	1	2	0.0395	0	1	2	0.0371	0				
100000	x4	1	2	0.0445	0	1	2	0.0365	0	1	2	0.048	0	1	2	0.0388	0	1	2	0.0389	0					
100000	x5	1	2	0.0561	0	1	2	0.0342	0	1	2	0.0389	0	1	2	0.0359	0	1	2	0.0367	0					
100000	x6	1	2	0.0394	0	1	2	0.0337	0	1	2	0.038	0	1	2	0.0431	0	1	2	0.0356	0					
100000	x7	1	2	0.0360	0	1	2	0.0423	0	1	2	0.039	0	1	2	0.0413	0	1	2	0.0443	0					

Table 3: Reported results for problems 5.5-5.6

PN	VAR	SP	NHZ1			NHZ2			MHZ2			DPM			PCG			CGD								
			NIT	FE	PT	Norm	NIT	FE	PT	Norm	NIT	FE	PT	Norm	NIT	FE	PT	Norm	NIT	FE	PT	Norm				
5.5	1000	x1	15	60	0.0122	7.97E-09	14	56	0.0242	3.37E-09	43	70	0.0301	9.01E-09	28	61	0.0166	9.09E-09	25	67	0.0166	6.21E-09	46	95	0.0313	6.64E-09
	1000	x2	12	51	0.0150	8.76E-09	11	47	0.0141	4.94E-09	37	39	0.0293	9.42E-09	22	49	0.0128	6.30E-09	23	56	0.0262	8.00E-09	44	91	0.0276	8.13E-09
	1000	x3	13	53	0.0154	5.65E-09	12	49	0.0109	4.05E-09	42	63	0.0332	7.61E-09	30	62	0.0279	6.94E-09	24	72	0.0285	6.86E-09	44	90	0.0328	7.06E-09
	1000	x4	15	59	0.0195	5.23E-09	13	51	0.0159	4.51E-09	46	79	0.0305	7.48E-09	29	64	0.0241	7.52E-09	25	74	0.0179	7.83E-09	45	92	0.0276	7.11E-09
	1000	x5	12	53	0.0106	3.10E-09	11	49	0.0104	1.57E-09	35	37	0.0310	8.78E-09	27	57	0.0232	9.94E-09	14	29	0.0104	5.31E-09	42	87	0.0494	8.49E-09
	1000	x6	10	45	0.0096	3.69E-09	9	41	0.0097	2.69E-09	30	32	0.0180	7.67E-09	22	47	0.0240	9.82E-09	16	21	0.0100	4.58E-09	38	79	0.0332	7.35E-09
	1000	x7	12	53	0.0151	2.37E-09	10	45	0.0101	7.58E-09	35	37	0.0256	8.58E-09	22	46	0.0127	7.77E-09	19	34	0.0129	3.91E-09	42	87	0.0315	8.23E-09
	10000	x1	16	64	0.1044	4.49E-09	15	60	0.0999	1.55E-09	45	72	0.2122	8.56E-09	30	65	0.1325	7.19E-09	25	74	0.1337	3.05E-09	47	97	0.2061	8.06E-09
	10000	x2	13	55	0.0876	4.93E-09	12	51	0.0764	2.27E-09	39	41	0.1783	8.95E-09	23	51	0.0970	9.97E-09	23	62	0.1122	5.13E-09	45	93	0.1907	9.90E-09
	10000	x3	14	57	0.0860	3.18E-09	13	53	0.0770	1.86E-09	44	65	0.1835	7.22E-09	32	66	0.1301	5.49E-09	37	210	0.2637	6.80E-09	45	92	0.1907	8.62E-09
	10000	x4	16	63	0.1119	2.95E-09	14	55	0.0896	2.07E-09	48	81	0.2101	7.11E-09	31	68	0.1276	5.95E-09	26	92	0.1491	4.53E-09	46	94	0.2015	8.63E-09
	10000	x5	12	53	0.0838	9.82E-09	11	49	0.0778	4.96E-09	37	39	0.1375	8.34E-09	29	61	0.1385	7.87E-09	18	35	0.0824	4.96E-09	44	91	0.1868	6.39E-09
	10000	x6	11	49	0.0663	2.08E-09	9	41	0.0618	8.50E-09	32	34	0.1274	7.29E-09	24	51	0.0982	7.77E-09	16	23	0.0750	5.17E-09	40	83	0.1704	6.58E-09
	10000	x7	12	53	0.0750	7.48E-09	11	49	0.0725	3.48E-09	37	39	0.1553	8.15E-09	24	50	0.1151	6.15E-09	19	44	0.1009	4.51E-09	43	89	0.1834	9.92E-09
	100000	x1	17	68	0.7499	2.53E-09	15	60	0.6452	4.90E-09	47	74	1.6139	8.13E-09	32	69	1.0745	5.69E-09	24	70	0.9241	6.16E-09	47	97	1.5503	9.73E-09
	100000	x2	14	59	0.6466	2.78E-09	12	51	0.5479	7.17E-09	41	43	1.2685	8.50E-09	25	55	0.8540	7.89E-09	25	55	0.8540	7.89E-09	25	55	0.8540	7.89E-09
	100000	x3	15	61	0.6516	1.79E-09	13	53	0.5467	5.88E-09	46	67	1.5501	6.86E-09	33	68	1.0598	8.69E-09	33	68	1.0598	8.69E-09	33	68	1.0598	8.69E-09
	100000	x4	16	63	0.7215	9.32E-09	14	55	0.5970	6.56E-09	50	83	1.7140	6.75E-09	32	70	1.0905	9.41E-09	32	70	1.0905	9.41E-09	32	70	1.0905	9.41E-09
	100000	x5	13	57	0.6295	5.53E-09	12	53	0.5574	2.28E-09	39	41	1.2014	7.92E-09	31	65	1.0290	6.22E-09	22	55	0.7453	4.75E-09	45	93	1.4914	7.69E-09
	100000	x6	11	49	0.5472	6.57E-09	10	45	0.4880	3.91E-09	34	36	1.0353	6.92E-09	26	55	0.8380	6.15E-09	18	29	0.5374	4.28E-09	41	85	1.3630	8.29E-09
	100000	x7	13	57	0.6485	4.21E-09	12	53	0.5752	1.60E-09	39	41	1.1839	7.74E-09	25	52	0.7680	9.73E-09	25	52	0.7680	9.73E-09	25	52	0.7680	9.73E-09
5.6	1000	x1	17	87	0.0159	6.25E-10	27	143	0.0475	4.83E-09	196	710	0.1475	4.19E-09	34	73	0.0461	8.03E-09	28	92	0.0202	2.41E-09	38	80	0.0292	4.79E-09
	1000	x2	12	56	0.0155	1.78E-09	18	108	0.0181	4.36E-09	56	165	0.0526	8.99E-09	35	89	0.0319	9.17E-09	30	95	0.0289	3.59E-09	32	67	0.0193	4.41E-09
	1000	x3	16	72	0.0228	1.86E-09	29	138	0.0239	6.64E-09	59	212	0.0611	4.25E-09	39	114	0.0350	5.87E-09	33	109	0.0332	5.09E-09	40	83	0.0364	6.96E-09
	1000	x4	41	179	0.0333	7.80E-10	25	141	0.0298	2.61E-09	83	231	0.0853	6.99E-09	43	122	0.0295	5.71E-09	35	111	0.0402	8.98E-09	38	79	0.0241	6.69E-09
	1000	x5	7	41	0.0114	3.88E-10	13	84	0.0136	5.04E-09	19	21	0.0138	4.43E-09	31	66	0.0179	5.14E-09	20	60	0.0206	6.20E-09	23	49	0.0206	5.33E-09
	1000	x6	6	36	0.0097	2.18E-09	11	72	0.0194	5.53E-09	18	20	0.0119	5.17E-09	29	62	0.0278	7.92E-09	17	47	0.0202	4.83E-09	22	47	0.0137	8.36E-09
	1000	x7	6	36	0.0111	5.50E-10	13	85	0.0152	4.34E-09	17	19	0.0155	8.47E-09	22	47	0.0208	9.64E-09	18	48	0.0125	5.05E-09	22	47	0.0148	6.45E-09
	10000	x1	17	87	0.1317	1.98E-09	28	149	0.1855	3.34E-09	163	477	0.7659	4.65E-09	36	77	0.1523	6.35E-09	30	111	0.1699	3.54E-09	42	89	0.1872	5.97E-09
	10000	x2	12	56	0.0810	5.63E-09	19	114	0.1411	3.01E-09	61	185	0.3222	9.64E-09	37	93	0.1594	7.25E-09	30	124	0.1659	8.20E-09	34	72	0.1619	6.72E-09
	10000	x3	16	72	0.1098	5.89E-09	30	144	0.1739	4.59E-09	53	197	0.3068	2.34E-09	40	116	0.1755	9.28E-09	33	148	0.1862	2.96E-09	42	87	0.1695	5.60E-09
	10000	x4	41	179	0.2562	2.47E-09	25	141	0.1786	8.27E-09	93	288	0.4451	3.84E-09	44	124	0.1987	9.03E-09	38	135	0.1926	9.10E-09	40	83	0.1853	7.07E-09
	10000	x5	7	41	0.0567	1.23E-09	14	90	0.0985	3.48E-09	20	22	0.1057	4.24E-09	32	68	0.1497	8.13E-09	24	101	0.1360	6.72E-09	23	49	0.1048	8.31E-09
	10000	x6	6	36	0.0522	6.88E-09	12	78	0.0953	3.82E-09	19	21	0.0834	4.95E-09	31	66	0.1308	6.26E-09	20	64	0.1085	4.22E-09	23	49	0.1034	5.23E-09
	10000	x7	6	36	0.0559	1.74E-09	14	91	0.1293	3.00E-09	18	20	0.0855	8.11E-09	24	51	0.1015	7.62E-09	14	43	0.0759	9.13E-09	22	47	0.0980	9.13E-09
	100000	x1	17	87	0.9320	6.25E-09	29	155	1.4905	2.31E-09	187	470	7.7661	9.84E-09	38	81	1.3554	5.02E-09	67	424	4.1440	8.45E-09	44	93	1.4692	4.94E-09
	100000	x2	13	61	0.6503	6.55E-10	19	114	1.0030	9.53E-09	97	334	4.2772	5.73E-09	39	97	1.4854	5.74E-09	29	139	1.4796	6.04E-09	35	73	1.1895	5.78E-09
	100000	x3	17	77	0.8319	6.86E-10	31	150	1.4577	3.17E-09	90	347	4.1039	9.58E-09	42	120	1.5774	7.35E-09	29	139	1.4796	6.04E-09	35	73	1.1895	5.78E-09
	100000	x4	41	179	1.8418	7.80E-09	26	147	1.3961	5.71E-09	92	249	3.7451	8.85E-09	46	128	1.7530	7.14E-09	29	139	1.4796	6.04E-09	35	73	1.1895	5.78E-09
	100000	x5	7	41	0.4065	3.88E-09	15	96	0.8724	2.41E-09	21	23	0.6795	4.06E-09	34	72	1.1626	6.43E-09	24	100	1.1511	5.40E-09	24	51	0.8139	5.64E-09
	100000	x6	7	41	0.4016	8.01E-10	13	84	0.7435	2.64E-09	20	22	0.6600	4.74E-09	32	68	1.1793	9.91E-09	24	107	1.2099	6.82E-09	23	49	0.8131	8.25E-09
	100000	x7	6	36	0.3477	5.50E-09	14	91	0.8079	9.47E-09	19	21	0.6017	7.77E-09	26	55	0.8888	6.03E-09	23	90	1.0258	7.48E-09	23	49	0.7799	5.93E-09

Table 4: Reported results for problems 5.7-5.8

PN	VAR	SP	NHZ1			NHZ2			MHZ2			DPM			PCG			CGD				
			NIT	FE	PT	Norm	NIT	FE	PT	Norm	NIT	FE	PT	Norm	NIT	FE	PT	Norm	NIT	FE	PT	Norm
5.7	1000	x1	9	31	0.0490	5.27E-09	8	28	0.5698	5.34E-09	46	48	0.0381	9.79E-09	30	63	0.0453	5.37E-09	54	111	0.0739	9.72E-09
	1000	x2	9	31	0.0171	5.04E-09	8	28	0.0167	5.40E-09	47	49	0.0470	8.95E-09	27	56	0.0343	5.85E-09	55	113	0.0508	8.40E-09
	1000	x3	15	45	0.0155	3.89E-09	16	44	0.0167	9.44E-10	-	-	-	-	-	-	-	-	62	127	0.0550	8.59E-09
	1000	x4	10	32	0.0124	8.99E-09	10	31	0.0127	4.64E-09	45	54	0.0320	7.53E-09	-	-	-	-	54	110	0.0481	9.57E-09
	1000	x5	10	35	0.0122	2.62E-09	9	32	0.0158	2.18E-09	48	50	0.0436	9.36E-09	28	58	0.0195	6.98E-09	56	115	0.0521	7.84E-09
	1000	x6	9	31	0.0146	6.60E-09	8	28	0.0109	5.34E-09	48	50	0.0432	7.92E-09	27	56	0.0223	8.24E-09	56	115	0.0567	7.13E-09
	1000	x7	9	31	0.0120	7.74E-09	8	28	0.0143	7.61E-09	47	49	0.0588	9.77E-09	24	50	0.0206	7.45E-09	55	113	0.0594	8.86E-09
	10000	x1	10	34	0.0801	1.79E-09	9	31	0.1513	1.41E-09	49	51	0.2249	7.62E-09	31	65	0.1757	8.50E-09	56	115	0.3040	9.21E-09
	10000	x2	10	34	0.0731	1.71E-09	9	31	0.0692	1.43E-09	50	52	0.2373	6.97E-09	28	58	0.1549	9.25E-09	57	117	0.3071	7.95E-09
	10000	x3	16	48	0.1100	1.32E-09	16	44	0.1148	2.98E-09	-	-	-	-	-	-	-	-	64	131	0.3207	8.20E-09
	10000	x4	11	35	0.0790	3.05E-09	11	34	0.0861	1.23E-09	47	56	0.2003	9.35E-09	-	-	-	-	56	114	0.2793	9.19E-09
	10000	x5	10	35	0.0700	8.28E-09	9	32	0.0757	6.88E-09	51	53	0.2653	7.29E-09	30	62	0.1342	5.53E-09	58	119	0.2829	7.41E-09
	10000	x6	10	34	0.0719	2.24E-09	9	31	0.0676	1.41E-09	50	52	0.2323	9.85E-09	29	60	0.1490	6.52E-09	57	117	0.2738	9.76E-09
	10000	x7	10	34	0.0724	2.63E-09	9	31	0.0648	2.01E-09	50	52	0.2547	7.61E-09	26	54	0.1554	5.89E-09	57	117	0.2864	8.39E-09
	100000	x1	10	34	0.5908	5.66E-09	9	31	0.5861	4.47E-09	51	53	2.0308	9.47E-09	33	69	1.4326	6.73E-09	58	119	2.5988	8.72E-09
	100000	x2	10	34	0.5663	5.40E-09	9	31	0.5284	4.51E-09	52	54	2.1133	8.66E-09	30	62	1.4178	7.33E-09	59	121	2.6349	7.52E-09
	100000	x3	16	48	0.8960	4.17E-09	16	44	0.8371	9.44E-09	-	-	-	-	-	-	-	-	66	135	2.9536	7.77E-09
5.8	10000	x4	11	35	0.5884	9.64E-09	11	34	0.5591	3.88E-09	50	59	2.0386	7.29E-09	-	-	-	-	58	118	2.5620	8.73E-09
	10000	x5	11	38	0.6421	2.81E-09	10	35	0.5731	1.82E-09	53	55	2.1656	9.06E-09	31	64	1.3348	8.74E-09	60	123	2.6753	7.00E-09
	100000	x6	10	34	0.5770	7.08E-09	9	31	0.5067	4.47E-09	53	55	2.1136	7.67E-09	31	64	1.3607	5.16E-09	59	121	2.6988	9.23E-09
	100000	x7	10	34	0.5639	8.31E-09	9	31	0.5199	6.37E-09	52	54	2.1387	9.45E-09	27	56	1.1986	9.32E-09	59	121	2.6542	7.94E-09
	1000	x1	15	34	0.0104	5.20E-09	15	34	0.0202	2.73E-09	80	82	0.0612	8.34E-09	25	50	0.0151	7.63E-09	91	185	0.0512	9.80E-09
	1000	x2	15	34	0.0143	5.04E-09	15	34	0.0156	2.68E-09	79	81	0.0622	8.59E-09	27	55	0.0166	7.71E-09	91	185	0.0719	8.42E-09
	1000	x3	16	38	0.0155	3.68E-09	15	36	0.0123	7.07E-09	81	83	0.0641	8.25E-09	29	58	0.0216	8.96E-09	92	187	0.0657	9.09E-09
	1000	x4	16	38	0.0110	4.63E-09	15	35	0.0106	3.36E-09	80	82	0.0499	9.79E-09	25	49	0.0184	8.70E-09	92	187	0.0643	8.60E-09
	1000	x5	14	31	0.0152	3.85E-09	13	29	0.0106	8.83E-09	74	76	0.0417	9.31E-09	24	50	0.0138	7.75E-09	87	177	0.0713	9.06E-09
	1000	x6	14	31	0.0098	6.90E-09	14	31	0.0316	3.61E-09	77	79	0.0554	7.95E-09	21	43	0.0135	9.32E-09	89	181	0.0553	8.90E-09
	1000	x7	14	31	0.0110	8.44E-09	14	31	0.0111	4.36E-09	78	80	0.0491	8.75E-09	24	49	0.0199	6.65E-09	90	183	0.0557	8.99E-09
	10000	x1	16	36	0.0811	3.95E-09	15	34	0.0792	8.63E-09	84	86	0.2910	8.73E-09	27	54	0.1357	6.04E-09	95	193	0.3470	8.27E-09
	10000	x2	16	36	0.0768	3.82E-09	15	34	0.0666	8.48E-09	83	85	0.2961	8.99E-09	29	59	0.1309	6.11E-09	94	191	0.3606	8.88E-09
	10000	x3	17	40	0.0870	2.79E-09	16	38	0.0738	5.14E-09	85	87	0.3215	8.64E-09	31	62	0.1306	7.10E-09	95	193	0.3719	9.57E-09
	10000	x4	17	40	0.1038	3.51E-09	16	37	0.0768	2.44E-09	85	87	0.2930	7.77E-09	27	53	0.1091	6.89E-09	95	193	0.3435	9.06E-09
	10000	x5	15	33	0.0679	2.92E-09	14	31	0.0726	6.42E-09	78	80	0.2801	9.75E-09	26	54	0.1297	7.14E-09	92	183	0.3322	9.65E-09
	10000	x6	15	33	0.0636	5.24E-09	15	33	0.0674	2.63E-09	81	83	0.3029	8.33E-09	23	47	0.1027	7.38E-09	90	183	0.3418	9.42E-09
10000	x7	15	33	0.0828	6.41E-09	15	33	0.0681	3.17E-09	82	84	0.2871	9.16E-09	26	53	0.1075	5.27E-09	93	189	0.3439	9.49E-09	
100000	x1	17	38	0.5652	3.00E-09	16	36	0.5210	6.27E-09	88	90	2.5876	9.14E-09	28	56	0.8851	9.56E-09	98	199	3.0174	8.70E-09	
100000	x2	17	38	0.5629	2.90E-09	16	36	0.5065	6.17E-09	87	89	2.5978	9.42E-09	30	61	0.9160	9.67E-09	97	197	3.0166	9.35E-09	
100000	x3	17	40	0.5713	8.83E-09	17	40	0.5570	3.74E-09	89	91	2.6505	9.04E-09	33	66	1.0151	5.62E-09	99	201	3.0412	8.06E-09	
100000	x4	18	42	0.6181	2.66E-09	16	37	0.5403	7.72E-09	89	91	2.6046	8.14E-09	29	57	0.8537	5.46E-09	98	199	3.0162	9.54E-09	
100000	x5	15	33	0.4924	9.25E-09	15	33	0.5362	4.67E-09	83	85	2.4266	7.74E-09	27	56	0.8521	9.72E-09	94	191	2.9568	8.16E-09	
100000	x6	16	35	0.5234	3.97E-09	15	33	0.5149	8.31E-09	85	87	2.4986	8.72E-09	25	51	0.8002	5.85E-09	95	193	2.8967	9.93E-09	
100000	x7	16	35	0.5944	4.86E-09	16	35	0.4909	2.30E-09	86	88	2.4944	9.59E-09	27	55	0.8290	8.34E-09	96	195	2.9992	1.00E-08	

