

Table 1: Detailed results of problems 4.1-4.2

Pnum	Nvars	Iguess	NHZIS			MHZM2			CGDESCENT			PCG		
			Inum	Fvalue	Ptime	Norm	Inum	Fvalue	Ptime	Norm	Inum	Fvalue	Ptime	Norm
4.1	1000	x1	11	19	0.0437	1.59E-09	77	79	0.0702	8.97E-09	89	181	0.1357	9.33E-09
	1000	x2	13	26	0.0395	6.38E-09	66	68	0.0554	8.78E-09	80	163	0.0870	8.99E-09
	1000	x3	25	49	0.0238	1.06E-09	76	78	0.0582	7.80E-09	88	179	0.0800	8.98E-09
	1000	x4	8	12	0.0098	8.73E-09	78	80	0.0578	7.65E-09	89	181	0.0782	9.71E-09
	1000	x5	22	45	0.0212	4.24E-09	76	78	0.0627	7.81E-09	88	179	0.0844	8.98E-09
	1000	x6	8	12	0.0102	4.86E-09	64	66	0.0462	8.27E-09	78	159	0.0843	8.69E-09
	1000	x7	8	11	0.0090	1.07E-09	62	64	0.0421	9.49E-09	76	155	0.0746	9.58E-09
	1000	x8	7	10	0.0102	7.01E-09	61	63	0.0391	9.55E-09	75	153	0.0627	9.46E-09
	10000	x1	11	19	0.0577	5.03E-09	81	83	0.3072	9.40E-09	92	187	0.4449	9.94E-09
	10000	x2	16	32	0.0746	5.18E-09	66	68	0.2330	8.78E-09	80	163	0.3354	9.00E-09
	10000	x3	14	25	0.0682	5.19E-09	80	82	0.2522	8.18E-09	91	185	0.3381	9.55E-09
	10000	x4	9	13	0.0400	2.76E-09	82	84	0.3026	8.01E-09	93	189	0.3619	8.24E-09
	10000	x5	25	50	0.1080	2.23E-09	80	82	0.3108	8.18E-09	91	185	0.3466	9.55E-09
	10000	x6	8	12	0.0608	4.86E-09	64	66	0.2057	8.27E-09	78	159	0.2595	8.69E-09
	10000	x7	8	11	0.0357	1.07E-09	62	64	0.1856	9.49E-09	76	155	0.3081	9.58E-09
	10000	x8	7	10	0.0501	7.01E-09	61	63	0.2185	9.55E-09	75	153	0.2783	9.46E-09
	50000	x1	12	20	0.1607	1.12E-09	84	86	1.1027	9.17E-09	95	193	1.5887	8.45E-09
	50000	x2	18	36	0.2674	1.59E-09	66	68	0.9565	8.78E-09	80	163	1.3172	9.00E-09
	50000	x3	20	36	0.2595	1.43E-09	83	85	1.1818	7.98E-09	94	191	1.5762	8.11E-09
	50000	x4	9	13	0.1519	6.17E-09	85	87	1.1934	7.82E-09	95	193	1.5961	8.74E-09
	50000	x5	20	38	0.3012	1.53E-09	83	85	1.1148	7.98E-09	94	191	1.5714	8.11E-09
	50000	x6	8	12	0.1102	4.86E-09	64	66	0.8121	8.27E-09	78	159	1.0910	8.69E-09
	50000	x7	8	11	0.1195	1.07E-09	62	64	0.7561	9.49E-09	76	155	1.0564	9.58E-09
	50000	x8	7	10	0.0985	7.01E-09	61	63	0.7125	9.55E-09	75	153	1.0219	9.46E-09
4.2	1000	x1	2	14	0.0084	0	2	14	0.0070	0	-	-	-	0
	1000	x2	3	26	0.0099	0	3	26	0.0104	0	-	-	-	0
	1000	x3	2	25	0.0088	0	2	14	0.0075	0	-	-	-	0
	1000	x4	2	14	0.0062	0	2	14	0.0068	0	-	-	-	0
	1000	x5	2	14	0.0080	0	2	14	0.0075	0	-	-	-	0
	1000	x6	4	38	0.0112	0	4	38	0.0106	0	-	-	-	0
	1000	x7	4	38	0.0123	0	3	26	0.0106	0	-	-	-	0
	1000	x8	4	38	0.0123	0	4	38	0.0119	0	-	-	-	0
	10000	x1	2	14	0.0349	0	2	14	0.0337	0	-	-	-	0
	10000	x2	3	26	0.0407	0	3	26	0.0498	0	-	-	-	0
	10000	x3	2	14	0.0441	0	2	14	0.0292	0	-	-	-	0
	10000	x4	2	14	0.0260	0	2	14	0.0288	0	-	-	-	0
	10000	x5	2	14	0.0326	0	2	14	0.0608	0	-	-	-	0
	10000	x6	4	38	0.0667	0	2	25	0.0651	0	-	-	-	0
	10000	x7	4	38	0.0625	0	2	25	0.0489	0	-	-	-	0
	10000	x8	4	38	0.0598	0	2	25	0.0526	0	-	-	-	0
	50000	x1	2	14	0.1110	0	2	14	0.1635	0	-	-	-	0
	50000	x2	2	25	0.1649	0	2	14	0.1100	0	-	-	-	0
	50000	x3	2	14	0.1121	0	2	14	0.1417	0	37	366	2.2160	0
	50000	x4	2	14	0.0918	0	2	14	0.0940	0	-	-	-	0
	50000	x5	2	14	0.1136	0	2	14	0.0985	0	-	-	-	0
	50000	x6	2	25	0.1479	0	2	25	0.1491	0	84	840	4.8101	0
	50000	x7	2	25	0.1401	0	2	25	0.1919	0	15	146	0.8798	0
	50000	x8	2	25	0.1465	0	2	25	0.1513	0	95	961	5.5266	0

Table 2: Detailed results of problems 4.3-4.4

Pnum	Nvars	Iguess	NHZIS			MHZM2			CGDESCENT			PCG		
			Inum	Fvalue	Ptime	Norm	Inum	Fvalue	Ptime	Norm	Inum	Fvalue	Ptime	Norm
4.3	1000	x1	23	77	0.0296	8.28E-09	57	130	0.0604	5.52E-09	45	93	0.0595	7.44E-09
	1000	x2	17	55	0.0236	6.93E-09	37	39	0.0357	5.72E-09	43	89	0.0640	8.33E-09
	1000	x3	17	55	0.0223	3.17E-09	36	38	0.0340	5.49E-09	42	87	0.0608	9.09E-09
	1000	x4	17	53	0.0220	3.41E-09	37	39	0.0343	5.95E-09	43	89	0.0828	8.13E-09
	1000	x5	17	55	0.0266	3.16E-09	36	38	0.0392	5.49E-09	42	87	0.0662	9.09E-09
	1000	x6	17	55	0.0217	7.03E-09	37	39	0.0367	5.79E-09	43	89	0.0700	8.39E-09
	1000	x7	17	55	0.0221	7.03E-09	37	39	0.0399	5.80E-09	43	89	0.0609	8.40E-09
	1000	x8	17	55	0.0230	7.03E-09	37	39	0.0369	5.80E-09	43	89	0.0780	8.40E-09
	10000	x1	24	80	0.1513	7.55E-09	58	131	0.3156	9.56E-09	46	95	0.2743	9.08E-09
	10000	x2	18	58	0.1260	6.40E-09	39	41	0.1967	5.50E-09	45	93	0.2941	6.31E-09
	10000	x3	18	58	0.1674	2.88E-09	37	39	0.1677	9.51E-09	44	91	0.2972	6.86E-09
	10000	x4	18	56	0.1173	3.10E-09	39	41	0.1921	5.65E-09	44	91	0.3021	9.89E-09
	10000	x5	18	58	0.1284	2.88E-09	37	39	0.1688	9.51E-09	44	91	0.2884	6.86E-09
	10000	x6	18	58	0.1140	6.41E-09	39	41	0.1636	5.51E-09	45	93	0.2703	6.32E-09
	10000	x7	18	58	0.1235	6.41E-09	39	41	0.1923	5.51E-09	45	93	0.2662	6.32E-09
	10000	x8	18	58	0.1023	6.41E-09	39	41	0.2092	5.51E-09	45	93	0.3025	6.32E-09
	50000	x1	25	83	0.6126	4.86E-09	60	133	1.2978	6.42E-09	47	97	1.2084	9.00E-09
	50000	x2	19	61	0.4737	4.13E-09	40	42	0.7400	6.75E-09	45	93	1.1176	9.98E-09
	50000	x3	18	58	0.4377	6.45E-09	39	41	0.7351	6.39E-09	45	93	1.0997	6.78E-09
	50000	x4	18	56	0.4322	6.94E-09	40	42	0.7015	6.92E-09	45	93	1.1187	9.80E-09
	50000	x5	18	58	0.4570	6.45E-09	39	41	0.6967	6.39E-09	45	93	1.0927	6.78E-09
4.4	50000	x6	19	61	0.4808	4.13E-09	40	42	0.7626	6.75E-09	45	93	1.1226	9.98E-09
	50000	x7	19	61	0.4685	4.13E-09	40	42	0.7543	6.75E-09	45	93	1.2419	9.98E-09
	50000	x8	19	61	0.4615	4.13E-09	40	42	0.7240	6.75E-09	45	93	1.1485	9.98E-09
	1000	x1	25	99	0.0320	6.18E-09	74	178	0.0764	3.43E-09	43	127	0.0393	5.76E-09
	1000	x2	22	90	0.0221	3.93E-09	50	136	0.0564	9.95E-09	36	112	0.0306	8.05E-09
	1000	x3	17	73	0.0229	6.31E-09	—	—	—	—	35	109	0.0348	6.97E-09
	1000	x4	18	74	0.0253	5.50E-09	22	24	0.0112	3.12E-09	35	107	0.0312	9.76E-09
	1000	x5	17	73	0.0223	6.29E-09	389	852	0.2847	8.27E-09	35	109	0.0352	6.95E-09
	1000	x6	16	68	0.0244	8.30E-09	307	713	0.2826	6.23E-09	36	112	0.0362	8.13E-09
	1000	x7	16	68	0.0221	7.31E-09	237	608	0.1821	3.83E-09	36	112	0.0333	8.14E-09
	1000	x8	16	68	0.0224	6.81E-09	49	128	0.0532	5.91E-09	36	112	0.0252	8.14E-09
	10000	x1	26	103	0.1721	5.60E-09	90	205	0.4107	5.97E-09	44	130	0.2411	9.80E-09
	10000	x2	26	100	0.1725	4.20E-09	537	1323	2.3917	5.13E-09	38	118	0.1935	7.44E-09
	10000	x3	18	77	0.1240	5.71E-09	—	—	—	—	37	115	0.2002	6.37E-09
	10000	x4	19	78	0.1421	4.98E-09	22	24	0.0726	9.85E-09	37	113	0.1766	8.93E-09
	10000	x5	18	77	0.1127	5.70E-09	518	1150	2.4209	4.72E-09	37	115	0.2118	6.37E-09
	10000	x6	17	72	0.1468	4.40E-09	53	142	0.2457	7.10E-09	38	118	0.1897	7.46E-09
	10000	x7	17	72	0.1188	4.23E-09	67	117	0.2395	4.96E-09	38	118	0.1824	7.46E-09
	10000	x8	17	72	0.1307	4.15E-09	40	120	0.3041	5.34E-09	38	118	0.2269	7.46E-09
	50000	x1	27	107	0.6477	3.59E-09	94	231	1.8354	6.62E-09	46	136	0.8992	6.35E-09
	50000	x2	22	91	0.5649	3.52E-09	58	134	1.1106	4.85E-09	39	121	0.7286	8.97E-09
	50000	x3	19	81	0.4780	3.65E-09	376	904	8.3981	5.68E-09	38	118	0.8026	7.67E-09
	50000	x4	20	82	0.4799	3.19E-09	23	25	0.4307	6.68E-09	39	119	0.7810	5.78E-09
	50000	x5	19	81	0.4917	3.65E-09	453	973	9.1964	7.34E-09	38	118	0.7089	7.67E-09
	50000	x6	17	72	0.4896	8.86E-09	402	850	7.2700	4.10E-09	39	121	0.8192	8.97E-09
	50000	x7	17	72	0.5008	8.78E-09	121	226	2.1876	3.24E-09	39	121	0.7479	8.97E-09
	50000	x8	17	72	0.4042	8.74E-09	67	146	1.2304	5.10E-09	39	121	0.7309	8.97E-09

Table 4: Detailed results of problems 4.7-4.8

Phum	Nvars	Iguess	NHZIS			MHZM2			CGDESCENT			PCG		
			Inum	Fvalue	Ptime	Norm	Inum	Fvalue	Ptime	Norm	Inum	Fvalue	Ptime	Norm
4.7	1000	x1	87	441	0.1514	8.21E-09	11	90	0.0325	0	255	844	0.3549	3.61E-09
	1000	x2	39	199	0.0669	8.52E-09	5	39	0.0173	0	235	953	0.3679	3.71E-09
	1000	x3	126	832	0.2160	8.79E-09	20	82	0.0343	0	231	883	0.3468	5.96E-09
	1000	x4	4	34	0.0140	0.00E+00	16	28	0.0181	0	305	1166	0.4449	6.79E-09
	1000	x5	119	548	0.1656	9.88E-09	20	77	0.0295	0	115	304	0.1817	8.14E-09
	1000	x6	25	119	0.0416	9.19E-09	3	15	0.0093	0	113	461	0.2143	9.54E-09
	1000	x7	22	103	0.0365	5.37E-09	6	18	0.0119	0	453	1706	0.5561	9.78E-09
	1000	x8	24	113	0.0406	5.20E-09	10	26	0.0181	0	213	861	0.2916	5.17E-09
	10000	x1	94	479	0.7508	9.32E-09	9	80	0.1419	0	314	1079	2.7157	8.65E-09
	10000	x2	36	189	0.3581	2.60E-09	5	39	0.0859	0	393	1458	3.3117	3.47E-09
	10000	x3	5	27	0.0760	0	21	55	0.1604	0	—	—	—	—
	10000	x4	4	33	0.1088	0	26	67	0.2260	0	368	1361	3.0579	6.43E-09
	10000	x5	4	19	0.0591	0	23	72	0.2229	0	162	470	1.3090	9.75E-09
	10000	x6	25	119	0.2481	9.19E-09	3	15	0.0623	0	140	554	1.1333	9.84E-09
	10000	x7	22	103	0.2100	5.37E-09	6	18	0.0546	0	334	1271	2.6037	8.60E-09
	10000	x8	24	113	0.1947	5.20E-09	10	26	0.1043	0	—	—	—	—
	50000	x1	119	602	4.2610	8.18E-09	12	83	0.7555	0	415	1382	16.8871	9.64E-09
	50000	x2	59	299	2.1593	9.10E-09	5	39	0.3283	0	230	987	10.2286	5.15E-09
	50000	x3	4	19	0.2026	0	23	35	0.7827	0	318	1279	13.7600	8.61E-09
	50000	x4	6	30	0.3112	0	30	76	0.9848	0	223	842	9.4006	6.60E-09
	50000	x5	4	19	0.1774	0	25	59	0.7794	0	172	596	7.0977	8.61E-09
	50000	x6	25	119	0.8913	9.19E-09	3	15	0.1735	0	140	554	5.5291	9.84E-09
	50000	x7	22	103	0.7852	5.37E-09	6	18	0.1983	0	334	1271	12.7385	8.60E-09
	50000	x8	24	113	0.8855	5.20E-09	10	26	0.3821	0	—	—	—	—
4.8	1000	x1	20	170	0.0895	4.36E-09	—	—	—	—	146	442	0.2897	9.26E-09
	1000	x2	25	209	0.0948	3.34E-09	—	—	—	—	125	378	0.3076	9.60E-09
	1000	x3	30	248	0.1271	5.95E-09	—	—	—	—	148	447	0.3350	9.07E-09
	1000	x4	29	245	0.1201	3.53E-09	—	—	—	—	163	493	0.3696	9.25E-09
	1000	x5	22	182	0.0940	9.53E-09	—	—	—	—	73	222	0.1708	9.07E-09
	1000	x6	41	350	0.1629	9.70E-09	—	—	—	—	130	393	0.2785	9.85E-09
	1000	x7	24	199	0.0956	3.95E-09	—	—	—	—	131	396	0.2991	9.04E-09
	1000	x8	29	240	0.1237	5.72E-09	—	—	—	—	131	396	0.2680	9.21E-09
	10000	x1	21	178	0.5454	3.69E-09	—	—	—	—	141	427	2.0766	9.83E-09
	10000	x2	28	218	0.6600	6.35E-09	—	—	—	—	126	381	1.8704	9.65E-09
	10000	x3	34	278	0.7939	3.42E-09	—	—	—	—	143	432	2.1556	9.19E-09
	10000	x4	29	242	0.6756	9.70E-09	—	—	—	—	159	481	2.3330	9.16E-09
	10000	x5	35	292	0.8568	7.48E-09	—	—	—	—	72	219	1.1251	7.30E-09
	10000	x6	28	226	0.6560	7.55E-09	—	—	—	—	127	384	1.8708	9.28E-09
	10000	x7	33	266	0.7093	8.21E-09	—	—	—	—	127	384	1.9210	9.30E-09
	10000	x8	27	224	0.6036	9.00E-09	—	—	—	—	127	384	1.9438	9.31E-09
	50000	x1	21	178	2.2351	8.08E-09	—	—	—	—	138	418	10.2030	9.85E-09
	50000	x2	27	211	2.6728	4.68E-09	—	—	—	—	124	375	8.9295	9.61E-09
	50000	x3	36	296	3.5900	5.88E-09	—	—	—	—	140	423	10.1424	9.35E-09
	50000	x4	34	287	3.3311	7.07E-09	—	—	—	—	156	472	11.2268	9.31E-09
	50000	x5	38	317	3.7876	7.53E-09	—	—	—	—	73	222	5.3837	8.50E-09
	50000	x6	32	253	3.0237	5.22E-09	—	—	—	—	124	375	8.9426	9.78E-09
	50000	x7	31	248	2.9911	6.28E-09	—	—	—	—	124	375	8.9103	9.78E-09
	50000	x8	38	321	3.7862	4.29E-09	—	—	—	—	124	375	8.9495	9.78E-09

Table 5: Detailed results of problems 4.9-4.10

Phum	Nvars	Iguess	NHZIS			MHZM2			CGDESCENT			PCG		
			Inum	Fvalue	Ptime	Norm	Inum	Fvalue	Ptime	Norm	Inum	Fvalue	Ptime	Norm
4.9	1000	x1	13	21	0.0140	1.49E-09	80	82	0.0621	8.39E-09	91	185	0.0949	9.80E-09
	1000	x2	31	69	0.0279	1.94E-09	67	69	0.0540	9.74E-09	81	165	0.0943	9.70E-09
	1000	x3	29	62	0.0274	7.36E-09	77	79	0.0632	8.82E-09	89	181	0.1073	9.50E-09
	1000	x4	9	12	0.0102	8.71E-09	80	82	0.0654	8.62E-09	91	185	0.1174	9.99E-09
	1000	x5	27	56	0.0255	4.31E-09	77	79	0.0783	8.83E-09	89	181	0.1154	9.51E-09
	1000	x6	11	18	0.0140	4.64E-09	65	67	0.0568	8.04E-09	79	161	0.0816	8.54E-09
	1000	x7	9	13	0.0113	1.45E-09	63	65	0.0510	8.66E-09	77	157	0.0986	8.98E-09
	1000	x8	7	9	0.0091	2.30E-09	62	64	0.0482	8.38E-09	76	155	0.0802	8.60E-09
	10000	x1	13	21	0.0598	4.72E-09	84	86	0.3594	8.79E-09	95	193	0.4860	8.27E-09
	10000	x2	13	22	0.0750	1.04E-09	67	69	0.3826	9.74E-09	81	165	0.4193	9.70E-09
	10000	x3	19	35	0.0938	8.87E-09	81	83	0.3685	9.24E-09	93	189	0.4776	8.04E-09
	10000	x4	10	13	0.0503	2.75E-09	84	86	0.2699	9.03E-09	95	193	0.4927	8.43E-09
	10000	x5	17	31	0.0845	4.79E-09	81	83	0.3561	9.24E-09	93	189	0.4943	8.04E-09
	10000	x6	11	18	0.0674	4.64E-09	65	67	0.2610	8.04E-09	79	161	0.3925	8.54E-09
	10000	x7	9	13	0.0403	1.45E-09	63	65	0.2935	8.66E-09	77	157	0.3356	8.98E-09
	10000	x8	7	9	0.0658	2.30E-09	62	64	0.2564	8.38E-09	76	155	0.3308	8.60E-09
4.10	50000	x1	14	22	0.2315	1.06E-09	87	89	1.3498	8.58E-09	97	197	1.9527	8.76E-09
	50000	x2	24	52	0.3761	6.26E-09	67	69	1.0582	9.74E-09	81	165	1.6124	9.70E-09
	50000	x3	20	36	0.3646	1.76E-09	84	86	1.3215	9.02E-09	95	193	1.8766	8.52E-09
	50000	x4	10	13	0.1794	6.16E-09	87	89	1.4059	8.81E-09	97	197	1.9082	8.93E-09
	50000	x5	25	49	0.3738	1.95E-09	84	86	1.3558	9.02E-09	95	193	1.8480	8.52E-09
	50000	x6	11	18	0.1961	4.64E-09	65	67	0.8741	8.04E-09	79	161	1.3785	8.54E-09
	50000	x7	9	13	0.1653	1.45E-09	63	65	0.8055	8.66E-09	77	157	1.3413	8.98E-09
	50000	x8	7	9	0.1304	2.30E-09	62	64	0.8852	8.38E-09	76	155	1.3495	8.60E-09
	1000	x1	11	13	0.0132	2.22E-09	85	87	0.0772	7.69E-09	92	186	0.1186	8.40E-09
	1000	x2	11	14	0.0141	1.08E-09	69	71	0.0635	9.22E-09	80	162	0.0926	8.19E-09
	1000	x3	17	28	0.0209	1.20E-09	79	81	0.0805	8.65E-09	87	176	0.1248	8.97E-09
	1000	x4	11	13	0.0166	1.61E-09	84	86	0.0712	8.60E-09	91	184	0.1278	8.98E-09
	1000	x5	16	27	0.0189	7.11E-09	79	81	0.0572	8.66E-09	87	176	0.1291	8.98E-09
	1000	x6	16	29	0.0193	1.07E-09	66	68	0.0656	8.26E-09	75	152	0.0884	9.17E-09
	1000	x7	17	30	0.0198	5.80E-09	64	66	0.0582	8.20E-09	72	146	0.1032	9.56E-09
	1000	x8	18	35	0.0203	2.04E-09	62	64	0.0551	9.98E-09	70	142	0.1055	9.30E-09
4.10	10000	x1	11	13	0.0734	6.45E-09	89	91	0.4078	7.86E-09	95	192	0.5705	8.65E-09
	10000	x2	16	28	0.0909	7.76E-09	69	71	0.3386	9.04E-09	80	162	0.4342	8.07E-09
	10000	x3	26	49	0.1446	9.62E-09	83	85	0.4028	8.86E-09	90	182	0.5010	9.45E-09
	10000	x4	11	13	0.0581	4.67E-09	88	90	0.4804	8.80E-09	94	190	0.5528	9.26E-09
	10000	x5	24	45	0.1464	2.41E-09	83	85	0.3980	8.86E-09	90	182	0.5481	9.45E-09
	10000	x6	10	15	0.0721	3.79E-09	66	68	0.2884	8.11E-09	75	152	0.3701	9.05E-09
	10000	x7	11	17	0.0579	1.32E-09	64	66	0.1993	8.06E-09	72	146	0.3780	9.45E-09
	10000	x8	18	35	0.0983	8.14E-09	62	64	0.2717	9.81E-09	70	142	0.3451	9.21E-09
	50000	x1	12	14	0.2481	1.43E-09	92	94	1.6103	7.65E-09	97	196	2.3656	9.14E-09
	50000	x2	17	30	0.3221	3.70E-09	69	71	1.1508	9.03E-09	80	162	1.8310	8.06E-09
	50000	x3	23	41	0.4715	7.13E-10	86	88	1.5249	8.63E-09	93	188	2.2503	8.03E-09
	50000	x4	12	14	0.2513	1.04E-09	91	93	1.5784	8.57E-09	96	194	2.3540	9.79E-09
	50000	x5	17	28	0.3314	9.17E-09	86	88	1.4917	8.63E-09	93	188	2.2688	8.03E-09
	50000	x6	10	15	0.1953	3.80E-09	66	68	0.9394	8.09E-09	75	152	1.4898	9.04E-09
	50000	x7	14	23	0.2584	4.04E-09	64	66	0.8862	8.04E-09	72	146	1.4080	9.44E-09
	50000	x8	18	36	0.3405	8.72E-09	62	64	0.8574	9.80E-09	70	142	1.3635	9.20E-09