Coulumn 1	Total amount of cores
Coulumn 2	Cores used on data generation
Coulumn 3	Cores used on data analyzing
iter time	Time spent on genereating data and doing nothing
iter idle t.	Time Data generating threads are spent doing nothing
analyze t	Time doing data transfer, analyzing and doing nothing
ana. Idle t.	Time analyze threads are spent doing nothing
transfer t.	Time analyze threads spent on transfering data
analyze	Time analyze threads spent on analyzing data
total time	Total time from the program split in two until it ended.

1 Data generation per analysing

			iter time	iter idle t.	analyze t	ana. Idle t.	transfer t.	analyze	total time
2	1	1	116.396185	0.004854	116.397688	41.499761	26.497764	48.379193	116.397813
3	1	2	116.922518	0.006193	116.923277	78.371021	13.764918	24.754522	116.923401
4	1	3	114.91691	0.007744	114.917434	88.794084	9.424704	16.668951	114.917558
5	1	4	116.470571	0.00739	116.470965	96.711552	7.079555	12.640825	116.471089
6	1	5	115.349987	0.006077	115.350326	99.45405	5.695771	10.151822	115.350452
7	1	6	115.854535	0.007405	115.854802	102.335166	4.832039	8.630814	115.854937
8	1	7	120.128664	0.007002	120.128895	107.984593	4.296886	7.779127	120.129018
9	1	8	123.802124	0.007914	123.802351	112.460629	3.968765	7.293041	123.802476
10	1	9	124.214656	0.006158	124.21486	114.149126	3.478973	6.496364	124.21499
11	1	10	123.896671	0.008089	123.896857	114.628229	3.174195	5.992203	123.896983
12	1	11	127.875745	0.006811	127.876016	118.911061	3.030391	5.820207	127.876139
13	1	12	133.83685	0.007388	133.837028	124.975237	2.950787	5.785265	133.837153
14	1	13	133.567308	0.007725	133.56754	125.140704	2.772934	5.518076	133.567671
15	1	14	133.379725	0.006509	133.379883	125.381071	2.594697	5.254948	133.380008
16	1	15	131.57351	0.006868	131.573665	123.885896	2.489659	5.038154	131.573797
3	2	1	76.651306	12.486378	76.652284	0.007666	27.053842	49.566153	76.652408
4	2	2	62.194545	0.007284	62.195303	23.380413	13.775159	25.005303	62.195425
5	2	3	62.587628	0.009598	62.588134	36.439605	9.342922	16.775642	62.588255
6	2	4	61.772967	0.007687	61.773344	41.902854	7.15967	12.671068	61.77347
7	2	5	62.07521	0.008083	62.075504	45.9295	5.774251	10.323194	62.075582
8	2	6	64.120954	0.007792	64.121226	49.837313	5.065237	9.160495	64.121349
9	2	7	65.495357	0.008285	65.495587	52.882245	4.452367	8.089251	65.49573
10	2	8	65.475955	0.008593	65.476154	54.284398	3.916129	7.198142	65.476279
11	2	9	65.889035	0.008315	65.889234	55.621183	3.549618	6.629613	65.889358
12	2	10	67.584628	0.008145	67.584806	57.828236	3.324653	6.333403	67.584992
13	2	11	70.219596	0.009153	70.219844	60.797407	3.17317	6.135412	70.219976
14	2	12	70.434581	0.008857	70.434732	61.524709	2.96858	5.817199	70.434864
15	2	13	70.215514	0.009691	70.215654	61.777672	2.779986	5.521479	70.215783
16	2	14	68.850481	0.009762	68.850578	60.843414	2.619163	5.239156	68.850742
4	3	1	77.080065	32.353312	77.081037	0.003793	27.070281	49.984434	77.081155
5	3	2	44.786734	0.006896	44.787501	5.629962	13.883723	25.233346	44.787625
6	3	3	43.193004	0.009618	43.193508	17.073498	9.315679	16.77361	43.193628
7	3	4	43.138911	0.008214	43.139291	23.321543	7.086761	12.690404	43.139417
8	3	5	44.723091	0.007758	44.723394	28.068418	5.921924	10.682991	44.723516
9	3	6	46.068064	0.008928	46.068344	31.37006	5.212916	9.426107	46.068411
10	3	7	44.900328	0.008243	44.900566	32.206599	4.462913	8.162119	44.900688
11	3	8	46.998831	0.008481	46.999037	35.490846	4.017438	7.410086	46.999162
12	3	9	46.171049	0.008703	46.171245	35.629777	3.646107	6.80457	46.171375

13	3	10	48.403922	0.009392	48.404108	38.101559	3.520986	6.678256	48.404237
14	3	11	48.612745	0.008868	48.612914	39.08713	3.207216	6.202229	48.613033
15	3	12	48.738141	0.009499	48.738301	39.922262	2.934326	5.756401	48.738425
16	3	13	48.073901	0.01177	48.074049	39.651472	2.833054	5.451626	48.074172
5	4	1	77.53177	41.819499	77.53275	0.002724	27.265918	50.24126	77.532872
6	4	2	39.243945	3.403935	39.244429	0.009838	13.844938	25.351718	39.244554
7	4	3	34.596546	0.012142	34.597093	8.248755	9.381146	16.929193	34.597221
8	4	4	35.821963	0.009475	35.822342	14.466538	7.605404	13.708201	35.822417
9	4	5	35.692544	0.008317	35.692879	18.330509	6.180363	11.130841	35.693007
10	4	6	35.462728	0.008981	35.463004	20.877994	5.151504	9.37232	35.463122
11	4	7	35.596679	0.009079	35.596921	22.44501	4.596952	8.484585	35.596997
12	4	8	36.946064	0.008742	36.946296	25.201798	4.085672	7.572803	36.946421
13	4	9	38.21472	0.010129	38.214924	26.989418	3.877956	7.252692	38.215053
14	4	10	37.643143	0.009721	37.643325	27.388808	3.501545	6.64714	37.643449
15	4	11	37.764547	0.00926	37.764715	28.320384	3.190111	6.136328	37.764844
16	4	12	37.781099	0.01226	37.781256	28.827962	3.03588	5.79299	37.781383
6	5	1	77.566345	48.412228	77.567329	0.002662	27.289567	50.251835	77.567459
7	5	2	39.937581	10.220837	39.938069	0.0076	14.063804	25.826364	39.938196
8	5	3	30.61526	0.01092	30.615792	2.56447	9.971235	18.043836	30.615916
9	5	4	29.913604	0.009859	29.914021	8.297822	7.675069	13.898326	29.91415
10	5	5	30.171718	0.009192	30.172054	12.651389	6.216737	11.250605	30.17218
11	5	6	30.653996	0.009247	30.654274	15.699196	5.28377	9.61037	30.654396
12	5	7	30.293304	0.00905	30.293542	16.625362	4.771469	8.822222	30.293666
13	5	8	31.359893	0.009536	31.360127	18.889877	4.321434	8.065621	31.360255
14	5	9	31.976711	0.010826	31.976917	20.86387	3.82954	7.187169	31.977038
15	5	10	31.420351	0.010622	31.420538	21.222821	3.470252	6.620654	31.42067
16	5	11	31.18758	0.022638	31.187752	21.6772	3.233418	6.157804	31.18788
7	6	1	78.817805	53.275486	78.818778	0.002624	27.748616	51.044298	78.8189
8	6	2	40.998994	14.582504	40.999534	0.008005	14.412223	26.545899	40.999662
9	6	3	28.644368	2.855523	28.64472	0.008335	10.07783	18.519569	28.644848
10	6	4	26.41622	0.009317	26.416641	4.740062	7.692703	13.941055	26.416761
11	6	5	25.309823	0.009434	25.310161	7.741998	6.20592	11.309054	25.310283
12	6	6	25.915118	0.010175	25.915423	10.573319	5.402569	9.876021	25.915549
13	6	7	27.755704	0.009873	27.755971	13.321507	5.020693	9.339253	27.756093
14	6	8	27.215994	0.009548	27.216229	14.529798	4.386465	8.215983	27.216356
15	6	9	26.970657	0.011494	26.970866	15.486833	3.947782	7.441098	26.970993
16	6	10	26.576348	0.028726	26.576537	16.314388	3.516037	6.634978	26.576666
8	7	1	83.562802	59.901938	83.563888	0.002747	29.391573	54.145051	83.564012
9	7	2	42.769564	19.352582	42.770097	0.004825	15.041669	27.687597	42.770227
10	7	3	28.7481	6.368105	28.748456	0.007897	10.112544	18.58957	28.748583
11	7	4	22.696296	0.009866	22.696721	0.95715	7.735329	13.963723	22.6968
12	7	5	23.345762	0.223724	23.346099	4.548658	6.618967	12.125795	23.346225
13	7	6	23.821831	0.009312	23.822138	7.742355	5.650944	10.366025	23.822261
14	7	7	23.995727	0.021859	23.99599	9.720022	4.965674	9.234935	23.996119
15	7	8	23.754297	0.00987	23.754528	11.373898	4.299119	7.995401	23.754647
16	7	9	23.528323	0.041049	23.528531	12.322256	3.893169	7.218392	23.528654
9	8	1	85.201794	64.567426	85.202872	0.002691	29.941955	55.233631	85.202949
10	8	2	42.723492	22.121147	42.724025	0.004469	15.010933	27.673898	42.724153
11	8	3	28.822504	9.09798	28.822855	0.007145	10.133362	18.645487	28.822989
12	8	4	22.694361	1.79336	22.694624	0.0079	7.999042	14.642005	22.694748
13	8	5	21.38758	0.009778	21.387951	2.191631	6.789071	12.354837	21.388079
14	8	6	21.201025	0.010098	21.20135	5.040366	5.683552	10.41168	21.201485
15	8	7	20.919309	0.026913	20.919576	6.651544	4.972572	9.219506	20.919695

16	8	8	20.766268	0.049073	20.766504	8.066965	4.387791	8.224783	20.766582
10	9	1	85.290921	67.07842	85.291997	0.002477	29.993425	55.269403	85.292121
11	9	2	44.056664	25.172038	44.057196	0.004791	15.486403	28.535331	44.057273
12	9	3	30.056058	11.216641	30.056451	0.006386	10.57455	19.437253	30.056581
13	9	4	23.821254	5.030233	23.821544	0.013123	8.41226	15.352806	23.821619
14	9	5	19.953275	0.046999	19.953399	0.705682	6.81829	12.374004	19.953521
15	9	6	18.904318	0.072453	18.904626	2.675684	5.695702	10.471034	18.904752
16	9	7	18.917967	0.01272	18.91822	4.914276	4.887633	9.03888	18.918345
11	10	1	86.284044	68.849243	86.285116	0.002474	30.48379	55.773966	86.285242
12	10	2	45.751793	27.977309	45.752388	0.004632	16.087015	29.626651	45.75246
13	10	3	31.607138	13.900993	31.607532	0.006361	11.104045	20.461122	31.607658
14	10	4	23.911897	6.58867	23.912187	0.013489	8.435795	15.419873	23.912257
15	10	5	19.314131	1.591538	19.314362	0.011036	6.777559	12.466712	19.314484
16	10	6	18.04917	0.428675	18.049481	1.354919	5.821284	10.805554	18.049606
12	11	1	89.505815	73.060182	89.507058	0.00279	31.52257	57.956899	89.507175
13	11	2	47.158102	30.4879	47.158698	0.006654	16.589095	30.530515	47.158823
14	11	3	31.578488	15.201041	31.578876	0.005611	11.086622	20.45219	31.579005
15	11	4	23.802756	7.603274	23.803054	0.008564	8.35712	15.394834	23.803181
16	11	5	19.820286	2.418324	19.820506	0.515889	6.766446	12.485022	19.820639
13	12	1	93.936121	78.606933	93.937331	0.002575	33.129266	60.779088	93.937459
14	12	2	47.192965	31.776694	47.193563	0.004528	16.593567	30.562658	47.193635
15	12	3	31.57643	16.657369	31.576821	0.010247	11.08584	20.44626	31.576951
16	12	4	23.829878	8.931399	23.830169	0.041401	8.326684	15.419666	23.830295
14	13	1	93.961692	79.816125	93.962893	0.002904	33.083009	60.850372	93.963019
15	13	2	47.179087	33.302605	47.17968	0.006301	16.573079	30.567224	47.179803
16	13	3	31.558061	17.856574	31.558456	0.01001	11.083654	20.432853	31.558584
15	14	1	94.183735	80.962768	94.184934	0.003607	33.284024	60.86735	94.185051
16	14	2	47.071869	34.130018	47.072459	0.006422	16.541646	30.491531	47.072579
16	15	1	93.850337	81.49449	93.851558	0.00274	33.034395	60.787709	93.851677

2 Data generation per analysing

			iter time	iter idle t.	analyze t	ana. Idle t.	transfer t.	analyze	total time
2	1	1	119.058659	0.003427	119.060146	81.619052	13.269446	24.15957	119.060275
3	1	2	119.878183	0.005573	119.878979	100.420907	6.967736	12.471855	119.879099
4	1	3	117.690922	0.005413	117.691444	104.552316	4.739044	8.382983	117.691565
5	1	4	117.006116	0.006573	117.006511	107.120148	3.558845	6.306387	117.006663
6	1	5	117.141842	0.006253	117.142161	109.127918	2.880947	5.109428	117.142283
7	1	6	118.79389	0.006466	118.794157	111.956088	2.447599	4.361308	118.794277
8	1	7	123.54071	0.005405	123.540964	117.321143	2.212453	3.973297	123.541087
9	1	8	124.588774	0.007191	124.588999	118.979449	1.972341	3.596364	124.589126
10	1	9	125.001041	0.008365	125.001245	119.940935	1.773043	3.242388	125.001373
11	1	10	127.949224	0.005949	127.94941	123.136624	1.654691	3.106315	127.949534
12	1	11	131.961236	0.007186	131.961425	127.285668	1.586142	3.032211	131.961552
13	1	12	134.694978	0.007163	134.695154	130.186676	1.517799	2.928087	134.695282
14	1	13	134.845132	0.007477	134.845299	130.642276	1.398564	2.734956	134.845422
15	1	14	134.42642	0.008294	134.426636	130.397383	1.32515	2.630966	134.42671
16	1	15	132.970973	0.028533	132.971124	129.109836	1.266145	2.515073	132.971249
3	2	1	63.859845	0.008725	63.861343	25.445584	13.604484	24.795979	63.861462
4	2	2	63.791092	0.008264	63.791871	43.997672	7.047322	12.726644	63.791948
5	2	3	63.15034	0.009007	63.150844	50.011397	4.715406	8.406366	63.150967
6	2	4	62.997787	0.007757	62.998163	52.81395	3.646574	6.517072	62.998234
7	2	5	63.180568	0.008928	63.180867	54.991332	2.950292	5.213716	63.180988
8	2	6	65.069438	0.009145	65.069685	57.898819	2.559302	4.58164	65.069761

9	2	7	65.855652	0.009468	65.855883	59.52529	2.244667	4.051083	65.856004
10	2	8	66.247495	0.008589	66.247696	60.610499	1.983229	3.613816	66.247819
11	2	9	67.331294	0.009718	67.331474	62.159948	1.798671	3.328138	67.331599
12	2	10	68.625672	0.008245	68.625834	63.741587	1.692888	3.141592	68.625965
13	2	11	71.049694	0.00983	71.049858	66.340494	1.604518	3.047145	71.049983
14	2	12	70.656362	0.01006	70.656514	66.22974	1.484282	2.880269	70.656638
15	2	13	71.154507	0.009524	71.154652	66.870129	1.424943	2.788843	71.154777
16	2	14	69.993488	0.009519	69.993618	65.946136	1.338285	2.634579	69.993747
4	3	1	46.030033	0.007505	46.031574	7.186042	13.802861	25.025756	46.031692
5	3	2	45.465016	0.00723	45.465784	25.79058	6.996943	12.658653	45.465905
6	3	3	44.586847	0.008779	44.587352	31.427184	4.712605	8.429968	44.587425
7	3	4	45.587417	0.008223	45.587799	35.321892	3.678171	6.564773	45.58792
8	3	5	45.55886	0.008052	45.559194	37.160145	3.000436	5.373479	45.559322
9	3	6	46.582682	0.008309	46.582959	39.130478	2.638154	4.783551	46.583085
10	3	7	46.439489	0.008341	46.439724	39.992171	2.27219	4.138484	46.43985
11	3	8	47.523876	0.008031	47.524081	41.579999	2.07746	3.826591	47.524209
12	3	9	48.300596	0.008142	48.30078	42.948533	1.861871	3.443978	48.3009
13	3	10	49.887412	0.008795	49.887598	44.589388	1.825056	3.419765	49.887726
14	3	11	49.965057	0.008554	49.965226	45.258793	1.593674	3.055982	49.965349
15	3	12	49.96844	0.008654	49.968595	45.582697	1.471734	2.851362	49.968717
16	3	13	49.654272	0.008537	49.654417	45.431284	1.433683	2.720768	49.65454
5	4	1	39.038914	2.405141	39.039893	0.006091	13.815622	25.202411	39.040012
6	4	2	36.245326	0.007837	36.246094	16.171692	7.182342	12.874538	36.246169
7	4	3	35.367851	0.009381	35.368362	21.900387	4.812629	8.636648	35.368486
8	4	4	35.58651	0.008362	35.58688	25.209618	3.720358	6.635783	35.587007
9	4	5	36.345594	0.008721	36.345923	27.64803	3.106081	5.565533	36.346047
10	4	6	36.558073	0.008867	36.558352	29.242571	2.595016	4.68915	36.558478
11	4	7	37.239168	0.008917	37.239402	30.722688	2.304308	4.176277	37.239478
12	4	8	38.973098	0.008452	38.973304	33.031026	2.081393	3.82062	38.973376
13	4	9	38.716542	0.008834	38.716751	32.93052	2.002937	3.733323	38.716874
14	4	10	38.96472	0.009482	38.964907	33.896647	1.741268	3.274509	38.965029
15	4	11	38.966293	0.008272	38.966466	34.098721	1.650316	3.160023	38.966597
16	4	12	38.444821	0.008864	38.444977	33.98911	1.518397	2.873302	38.445096
6	5	1	39.193202	8.964264	39.194183	0.004448	13.761654	25.412356	39.194309
7	5	2	30.474539	0.008803	30.47538	10.289687	7.188588	12.977608	30.475505
8	5	3	30.114241	0.010013	30.114802	16.332646	4.920377	8.843495	30.114925
9	5	4	30.329169	0.008648	30.329589	19.500449	3.860467	6.946985	30.32967
10	5	5	30.488632	0.008918	30.488968	21.663209	3.147592	5.651121	30.489097
11	5	6	30.454279	0.0093	30.454557	22.965062	2.653332	4.804628	30.454681
12	5	7	30.936485	0.009808	30.936726	24.062426	2.404519	4.432803	30.936854
13	5	8	32.336953	0.008757	32.337185	26.140382	2.165775	3.986247	32.337312
14	5	9	32.051907	0.010578	32.052108	26.320025	1.97799	3.705675	32.052231
15	5	10	31.981747	0.010022	31.981934	26.867482	1.755939	3.305414	31.982061
16	5	11	32.06664	0.010201	32.066813	27.287821	1.635102	3.083435	32.06694
7	6	1	40.307596	14.15987	40.308583	0.00405	14.10038	26.188123	40.308724
8	6	2	26.572307	0.008787	26.573159	5.835533	7.399153	13.316178	26.573282
9	6	3	26.402942	0.01094	26.403564	11.91658	5.207852	9.260375	26.403688
10	6	4	26.376253	0.009792	26.376672	15.502456	3.883652	6.969501	26.376797
11	6	5	26.969616	0.008888	26.969951	17.938174	3.206215	5.798906	26.9701
12	6	6	26.621208	0.009677	26.621514	18.886048	2.745854	4.958293	26.62164
13	6	7	27.452132	0.009721	27.4524	20.459691	2.461763	4.492998	27.452536
14	6	8	27.814879	0.009984	27.815112	21.566434	2.174582	4.031604	27.815236
15	6	9	27.630213	0.009693	27.630427	22.062877	1.931764	3.587534	27.630549

16	6	10	27.565712	0.029325	27.565901	22.46338	1.760614	3.287684	27.566026
8	7	1	41.481648	17.990165	41.48273	0.003442	14.480445	26.98264	41.482855
9	7	2	23.999612	0.007983	24.000444	2.101199	7.796209	14.08073	24.000579
10	7	3	23.21665	0.011787	23.217208	8.780601	5.141907	9.275701	23.217331
11	7	4	23.477247	0.009151	23.477666	12.250147	4.007556	7.198363	23.477787
12	7	5	23.534022	0.009186	23.53439	14.300196	3.270695	5.93836	23.534521
13	7	6	24.299037	0.009226	24.29935	16.23752	2.848148	5.181592	24.299473
14	7	7	24.228139	0.009679	24.228408	17.203499	2.484838	4.503163	24.228532
15	7	8	24.312284	0.009566	24.312506	18.117631	2.167847	3.984782	24.312575
16	7	9	24.409499	0.010402	24.409706	18.802542	1.951908	3.606596	24.409829
9	8	1	43.020227	21.897663	43.021315	0.002986	15.022521	27.980435	43.021442
10	8	2	21.621091	0.827719	21.621626	0.008076	7.657246	13.936237	21.621752
11	8	3	20.700025	0.011158	20.700643	5.94994	5.267191	9.463314	20.700721
12	8	4	21.533584	0.010664	21.534	8.999121	4.392546	8.118927	21.53407
13	8	5	21.351989	0.009885	21.352361	11.704182	3.416975	6.205258	21.352468
14	8	6	21.363885	0.011075	21.364193	13.240941	2.864884	5.224856	21.364317
15	8	7	21.180818	0.009119	21.181091	14.206822	2.446059	4.490083	21.181219
16	8	8	21.343817	0.024281	21.344064	15.148898	2.151304	3.984929	21.344238
10	9	1	43.317621	24.299855	43.318702	0.00312	15.101732	28.19843	43.318824
11	9	2	22.24048	3.261622	22.241033	0.005637	7.817052	14.394759	22.241161
12	9	3	18.959887	0.010244	18.960458	3.653705	5.4788	9.804867	18.960531
13	9	4	19.444436	0.010893	19.444897	7.483674	4.237404	7.700006	19.445012
14	9	5	19.95833	0.010514	19.9587	10.334807	3.413038	6.183469	19.958774
15	9	6	19.188683	0.010011	19.188992	11.099096	2.864516	5.194637	19.189114
16	9	7	19.282332	0.009763	19.282597	12.302442	2.452811	4.489702	19.282714
11	10	1	44.003338	26.630281	44.00442	0.003407	15.35752	28.628176	44.004538
12	10	2	22.638389	5.260899	22.638947	0.00571	7.935685	14.677387	22.639021
13	10	3	17.530287	0.011512	17.530897	1.557453	5.677509	10.274132	17.531024
14	10	4	18.443906	0.010206	18.444367	6.471556	4.257174	7.690971	18.444493
15	10	5	17.672557	0.010739	17.672926	8.074928	3.401505	6.169812	17.673006
16	10	6	17.511162	0.009671	17.511472	9.331111	2.88217	5.267851	17.511551
12	11	1	45.253253	28.858836	45.254375	0.003374	15.806462	29.429064	45.254449
13	11	2	23.834451	7.461528	23.835043	0.002704	8.381173	15.429541	23.835166
14	11	3	16.619457	0.035806	16.620073	0.660282	5.686472	10.251512	16.620199
15	11	4	16.243959	0.010735	16.244423	4.268527	4.246635	7.704777	16.244547
16	11	5	16.187907	0.011323	16.188292	6.565961	3.406156	6.188581	16.188412
13	12	1	47.488164	31.940568	47.48937	0.002577	16.608266	30.862676	47.489488
14	12	2	23.827344	8.545647	23.827937	0.004689	8.331923	15.471579	23.828059
15	12	3	16.014827	0.695791	16.015219	0.009245	5.64975	10.333259	16.015342
16	12	4	15.388519	0.011826	15.388976	3.340379	4.276534	7.748116	15.389098
14	13	1	47.35704	33.328939	47.358245	0.002741	16.573332	30.765973	47.358367
15	13	2	23.739677	9.818664	23.74027	0.004231	8.317709	15.39844	23.740395
16	13	3	15.922709	2.112068	15.923101	0.035881	5.592134	10.273854	15.923223
15	14	1	47.263478	34.147431	47.264674	0.002676	16.555578	30.689729	47.264798
16	14	2	23.713549	10.812491	23.714141	0.004581	8.299505	15.39196	23.714263
16	15	1	47.201183	34.925661	47.202401	0.002478	16.538817	30.647259	47.202523