On Mining Disjunctive Closed Itemsets in Microarray Gene Expression Data Supplementary Material - Summary of data sets

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Figures for the experiments assessing the performance of Disclosed

Good data sets

Figure A-1: Performance measures for the GDS963 data set. Disclosed M1 refers to Disclosed's performance under model1 experiment restrictions, while Disclosed M2 refers to model2

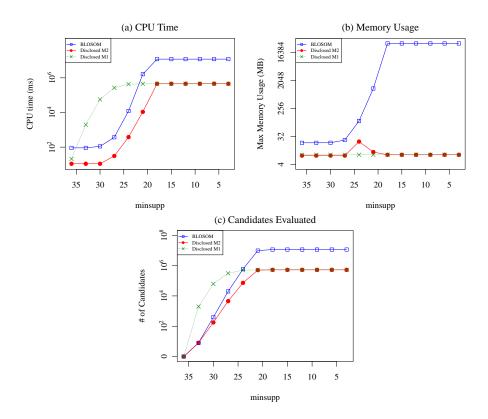


Figure A-2: Performance measures for the GDS2200 data set. Disclosed M1 refers to Disclosed's performance under model1 experiment restrictions, while Disclosed M2 refers to model2

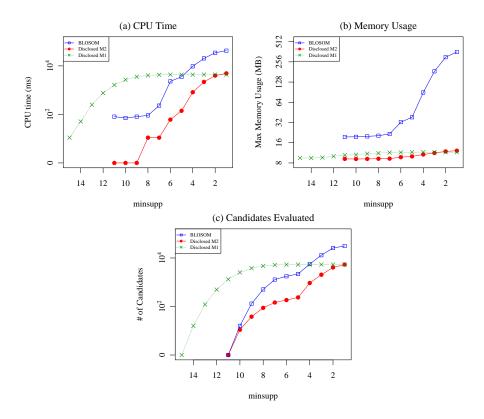


Figure A-3: Performance measures for the GDS2545 data set. Disclosed M1 refers to Disclosed's performance under model1 experiment restrictions, while Disclosed M2 refers to model2

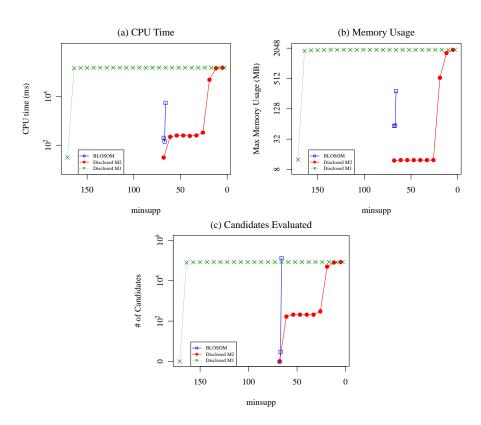
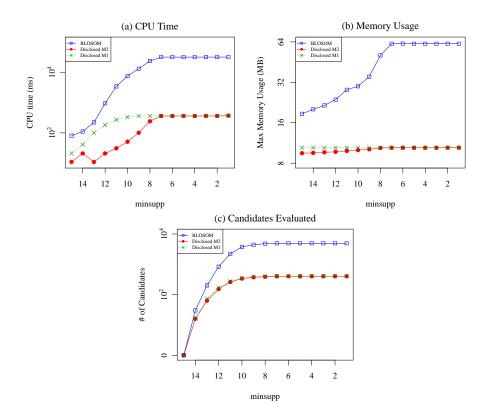


Figure A-4: Performance measures for the GDS2941 data set. Disclosed M1 refers to Disclosed's performance under model1 experiment restrictions, while Disclosed M2 refers to model2



Bad data sets

Figure A-5: Performance measures for the Embryo data set. Disclosed M1 refers to Disclosed's performance under model1 experiment restrictions, while Disclosed M2 refers to model2

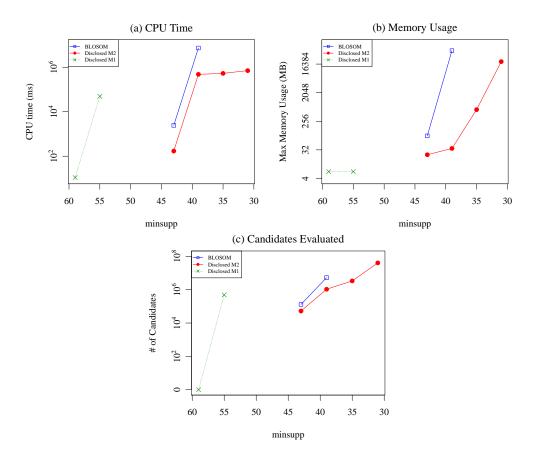


Figure A-6: Performance measures for the Promoters data set. Disclosed M1 refers to Disclosed's performance under model1 experiment restrictions, while Disclosed M2 refers to model2

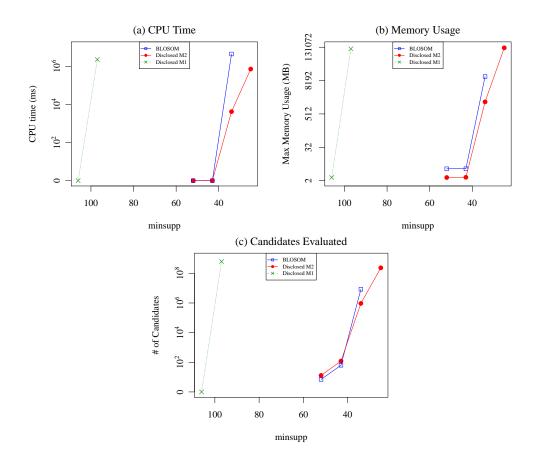
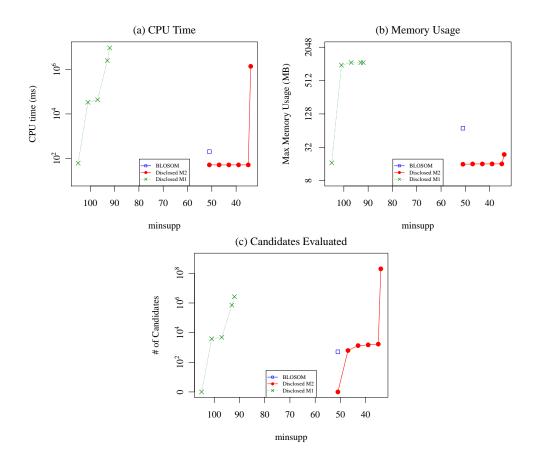


Figure A-7: Performance measures for the GDS2519 data set. Disclosed M1 refers to Disclosed's performance under model1 experiment restrictions, while Disclosed M2 refers to model2



Average data sets

Figure A-8: Performance measures for the GDS2250 data set. Disclosed M1 refers to Disclosed's performance under model1 experiment restrictions, while Disclosed M2 refers to model2

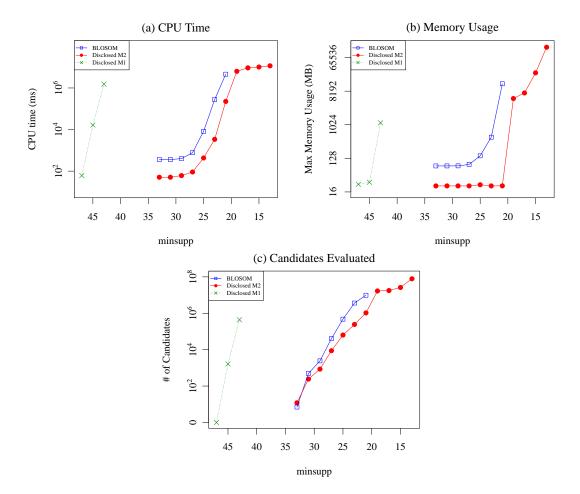


Figure A-9: Performance measures for the Colon data set. Disclosed M1 refers to Disclosed's performance under model1 experiment restrictions, while Disclosed M2 refers to model2

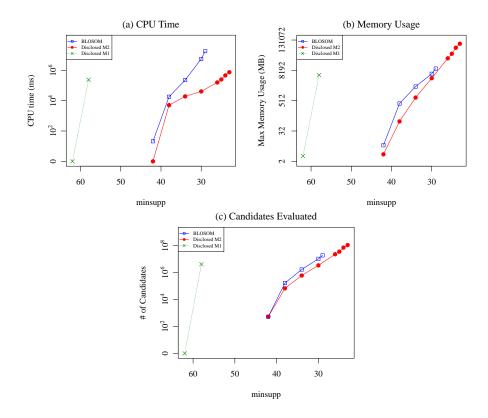
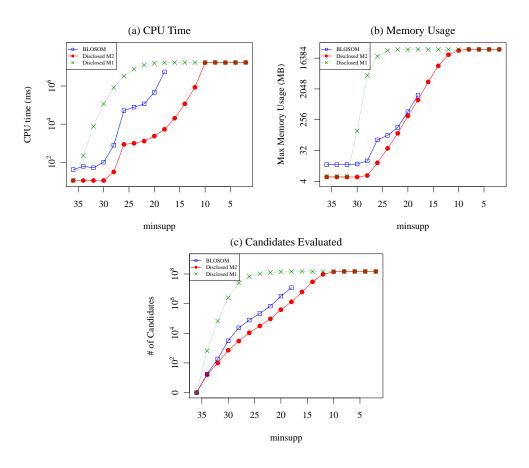


Figure A-10: Performance measures for the Leukemia data set. Disclosed M1 refers to Disclosed's performance under model1 experiment restrictions, while Disclosed M2 refers to model2



Tables with the results of the experiments to assess the performance of Disclosed Good data sets

Table A-15: This table contains raw performance results for the GDS963 data set. Number of patterns refers to the number of disjunctive closed itemsets found with the given minimum support threshold (MinSupp). Number of candidates refers to the number of candidates evaluated by the algorithm. The algorithms are BLOSOM, DisclosedM2 and DisclosedM1, for Disclosed with model2 and model1 respectively. Ellapsed time is the wall-clock time measured for the algorithm. CPU time is the algorithm's time (in seconds) on CPU. System time is the CPU time (in seconds) spent by the system on behalf of the algorithm. Max. Memory is the maximum amount of main memory used by the algorithm. Both time and memory were measured with GNU time program. Finally, Status refers to the algorithm's exit status; 0 if the algorithm terminates with no problem; 124 if the algorithm times out (experiments were limited to six hours); 137 if the algorithm was terminated (killed) by the system.

Number of Patterns	Number of Candidates	Algorithm	MinSupp	Elapsed time	CPU time	System time	Max. Memory (KB)	Status
1	1	DisclosedM2	36	00:02.20	0.01	0	7904	0
6	8	${\it DisclosedM2}$	33	00:00.02	0.01	0	7904	0
144	178	DisclosedM2	30	00:00.02	0.01	0	7920	0
4173	4536	${\it DisclosedM2}$	27	00:00.04	0.03	0	7904	0
70765	72747	${\it DisclosedM2}$	24	00:00.39	0.38	0	22416	0
500873	501082	${\it DisclosedM2}$	21	00:10.90	10.88	0.01	10336	0
524287	524287	DisclosedM2	18	07:35.76	455.19	0.49	8416	0
524287	524287	DisclosedM2	15	07:35.57	455.06	0.43	8416	0
524287	524287	${\it DisclosedM2}$	12	07:35.67	453.97	0.42	8416	0
524287	524287	DisclosedM2	9	07:34.29	453.81	0.4	8416	0
524287	524287	DisclosedM2	6	07:40.08	459.51	0.48	8416	0
524287	524287	DisclosedM2	3	07:34.57	454.07	0.42	8416	0
1	1	BLOSOM	36	00:00.44	0.09	0.03	20496	0
6	8	BLOSOM	33	00:00.26	0.09	0.03	20496	0
144	393	BLOSOM	30	00:00.31	0.11	0.02	20576	0
4173	19849	BLOSOM	27	00:00.54	0.37	0.04	25104	0
70765	578627	BLOSOM	24	00:12.37	12.19	0.08	103888	0
500873	9740327	BLOSOM	21	27:06.88	1625.24	1.08	1157904	0
524287	11424319	BLOSOM	18	03:20:53	12006.44	28.18	32844048	0
524287	11424319	BLOSOM	15	03:20:53	12010.09	28.83	32844032	0
524287	11424319	BLOSOM	12	03:21:03	12012.51	28.28	32844064	0
524287	11424319	BLOSOM	9	03:20:49	12013.99	28.75	32844048	0
524287	11424319	BLOSOM	6	03:20:52	12016.89	28.5	32844064	0
524287	11424319	BLOSOM	3	03:21:03	12027.99	28.77	32844064	0
1	1	DisclosedM1	36	00:00.06	0.02	0	8416	0
1975	1975	DisclosedM1	33	00:01.98	1.97	0	8416	0
62359	62359	DisclosedM1	30	00:56.56	56.48	0.06	8432	0
310763	310763	${\it DisclosedM1}$	27	04:28.70	268.4	0.25	8416	0
499055	499055	DisclosedM1	24	07:11.26	430.81	0.38	8432	0
523943	523943	DisclosedM1	21	07:34.25	453.74	0.43	8416	0
524287	524287	DisclosedM1	18	07:35.38	454.86	0.44	8416	0
524287	524287	${\it DisclosedM1}$	15	07:38.02	457.48	0.46	8416	0
524287	524287	DisclosedM1	12	07:40.81	460.27	0.47	8416	0
524287	524287	${\it DisclosedM1}$	9	07:38.93	458.37	0.48	8416	0
524287	524287	${\it DisclosedM1}$	6	07:34.85	454.32	0.46	8416	0
524287	524287	DisclosedM1	3	07:33.53	453.01	0.45	8416	0

Table A-16: This table contains raw performance results for the GDS2200 data set. Number of patterns refers to the number of disjunctive closed itemsets found with the given minimum support threshold (MinSupp). Number of candidates refers to the number of candidates evaluated by the algorithm. The algorithms are BLOSOM, DisclosedM2 and DisclosedM1, for Disclosed with model2 and model1 respectively. Ellapsed time is the wall-clock time measured for the algorithm. CPU time is the algorithm's time (in seconds) on CPU. System time is the CPU time (in seconds) spent by the system on behalf of the algorithm. Max. Memory is the maximum amount of main memory used by the algorithm. Both time and memory were measured with GNU time program. Finally, Status refers to the algorithm's exit status; 0 if the algorithm terminates with no problem; 124 if the algorithm times out (experiments were limited to six hours); 137 if the algorithm was terminated (killed) by the system.

Number of Patterns	Number of Candidates	Algorithm	MinSupp	Elapsed time	CPU time	System time	Max. Memory (KB)	Status
0	0	DisclosedM2	15	00:00.19	0	0	9376	0
0	0	DisclosedM2	14	00:00.01	0	0	9376	0
0	0	DisclosedM2	13	00:00.01	0	0	9360	0
0	0	DisclosedM2	12	00:00.01	0	0	9344	0
1	1	DisclosedM2	11	00:00.01	0	0	9408	0
9	11	DisclosedM2	10	00:00.01	0	0	9376	0
36	38	DisclosedM2	9	00:00.01	0	0	9408	0
86	88	${\it DisclosedM2}$	8	00:00.01	0.01	0	9456	0
143	146	${\it DisclosedM2}$	7	00:00.02	0.01	0	9488	0
180	184	${\it DisclosedM2}$	6	00:00.07	0.06	0	9984	0
231	237	${\it DisclosedM2}$	5	00:00.15	0.14	0	10240	0
905	931	${\it DisclosedM2}$	4	00:00.84	0.82	0.01	10944	0
1942	2044	DisclosedM2	3	00:02.20	2.19	0	11520	0
3734	4050	${\it DisclosedM2}$	2	00:04.00	3.98	0.01	12160	0
4882	5346	${\it DisclosedM2}$	1	00:04.93	4.92	0	12464	0
0	0	BLOSOM	15	00:00.27	0.06	0.04	19984	0
0	0	BLOSOM	14	00:00.18	0.08	0.03	19984	0
0	0	BLOSOM	13	00:00.16	0.06	0.03	19984	0
0	0	BLOSOM	12	00:00.16	0.07	0.03	19984	0
1	1	BLOSOM	11	00:00.18	0.08	0.03	19984	0
9	16	BLOSOM	10	00:00.22	0.07	0.03	20048	0
36	131	BLOSOM	9	00:00.18	0.08	0.03	20352	0
86	505	BLOSOM	8	00:00.21	0.09	0.04	20848	0
143	1290	BLOSOM	7	00:00.32	0.23	0.03	22128	0
180	1762	BLOSOM	6	00:02.40	2.3	0.03	33168	0
231	2193	BLOSOM	5	00:03.70	3.57	0.04	39152	0
905	5602	BLOSOM	4	00:09.75	9.58	0.07	91680	0
1942	12979	BLOSOM	3	00:20.53	20.34	0.09	189328	0
3734	25834	BLOSOM	2	00:35.13	34.85	0.13	307616	0
4882	31128	BLOSOM	1	00:42.72	42.39	0.21	368288	0
1	1	${\it DisclosedM1}$	15	00:00.06	0.01	0	9728	0
16	16	${\bf DisclosedM1}$	14	00:00.06	0.05	0	9712	0
121	121	${\it DisclosedM1}$	13	00:00.25	0.25	0	9840	0
496	496	${\bf DisclosedM1}$	12	00:00.77	0.76	0	10288	0
1305	1325	${\it DisclosedM1}$	11	00:01.65	1.64	0	10704	0
2454	2544	${\bf DisclosedM1}$	10	00:02.69	2.68	0	10848	0
3583	3793	${\it DisclosedM1}$	9	00:03.57	3.57	0	11248	0
4363	4698	${\bf DisclosedM1}$	8	00:04.08	4.07	0	11456	0
4738	5157	${\bf DisclosedM1}$	7	00:04.28	4.28	0	11696	0
4858	5313	${\bf DisclosedM1}$	6	00:04.36	4.36	0	11744	0
4881	5345	${\bf DisclosedM1}$	5	00:04.36	4.35	0	11840	0
4883	5348	${\bf DisclosedM1}$	4	00:04.36	4.35	0	11856	0
4883	5348	${\bf DisclosedM1}$	3	00:04.39	4.38	0	11840	0
4883	5348	${\bf DisclosedM1}$	2	00:04.37	4.36	0	11840	0
4883	5348	${\it DisclosedM1}$	1	00:04.37	4.36	0	11840	0

Table A-17: This table contains raw performance results for the GDS2545 data set. Number of patterns refers to the number of disjunctive closed itemsets found with the given minimum support threshold (MinSupp). Number of candidates refers to the number of candidates evaluated by the algorithm. The algorithms are BLOSOM, DisclosedM2 and DisclosedM1, for Disclosed with model2 and model1 respectively. Ellapsed time is the wall-clock time measured for the algorithm. CPU time is the algorithm's time (in seconds) on CPU. System time is the CPU time (in seconds) spent by the system on behalf of the algorithm. Max. Memory is the maximum amount of main memory used by the algorithm. Both time and memory were measured with GNU time program. Finally, Status refers to the algorithm's exit status; 0 if the algorithm terminates with no problem; 124 if the algorithm times out (experiments were limited to six hours); 137 if the algorithm was terminated (killed) by the system.

Number of Patterns	Number of Candidates	Algorithm	MinSupp	Elapsed time	CPU time	System	Max. Memory (KB)	Status
1	1	${\it DisclosedM2}$	68	00:00.24	0.03	0.01	12320	0
28	168	${\it DisclosedM2}$	61	00:00.23	0.22	0	12560	0
32	208	${\it DisclosedM2}$	54	00:00.25	0.25	0	12544	0
32	208	${\it DisclosedM2}$	47	00:00.25	0.25	0	12544	0
32	208	${\it DisclosedM2}$	40	00:00.25	0.24	0.01	12544	0
32	208	${\bf DisclosedM2}$	33	00:00.25	0.25	0	12544	0
41	304	${\it DisclosedM2}$	26	00:00.34	0.33	0	12576	0
33098	49151	${\bf DisclosedM2}$	19	00:50.15	50	0.14	542256	0
53041	78787	${\it DisclosedM2}$	12	02:28.74	148.31	0.4	1675552	0
55899	83027	${\bf DisclosedM2}$	5	02:36.91	156.45	0.41	1941952	0
1	1	BLOSOM	68	00:00.58	0.2	0.04	59872	0
3	3	BLOSOM	67	00:00.33	0.14	0.05	61104	0
131071	131071	BLOSOM	66	00:06.08	5.59	0.18	294192	0
NA	NA	BLOSOM	65	06:00:06	6702.3	106.5	127295376	124
1	1	${\it DisclosedM1}$	171	00:00.19	0.03	0.01	12816	0
53840	79761	${\bf DisclosedM1}$	164	02:27.13	146.67	0.4	1845920	0
55050	81796	${\it DisclosedM1}$	157	02:34.04	153.5	0.44	1895280	0
55335	82201	${\it DisclosedM1}$	150	02:35.17	154.68	0.43	1909664	0
55887	83010	${\it DisclosedM1}$	143	02:37.37	156.87	0.43	1931744	0
55897	83025	${\bf DisclosedM1}$	136	02:36.91	156.38	0.43	1941984	0
55899	83027	${\it DisclosedM1}$	129	02:37.30	156.85	0.4	1941984	0
55899	83027	${\bf DisclosedM1}$	122	02:37.00	156.48	0.41	1941952	0
55899	83027	${\it DisclosedM1}$	115	02:37.04	156.57	0.39	1941968	0
55899	83027	${\bf DisclosedM1}$	108	02:36.44	155.92	0.48	1941952	0
55899	83027	${\it DisclosedM1}$	101	02:37.87	157.35	0.44	1941968	0
55899	83027	${\it DisclosedM1}$	94	02:37.39	156.89	0.43	1941952	0
55899	83027	${\it DisclosedM1}$	87	02:36.86	156.39	0.43	1941968	0
55899	83027	${\bf DisclosedM1}$	80	02:37.21	156.73	0.43	1941952	0
55899	83027	${\it DisclosedM1}$	73	02:36.49	155.96	0.43	1941968	0
55899	83027	${\bf DisclosedM1}$	66	02:36.88	156.37	0.45	1941952	0
55899	83027	${\it DisclosedM1}$	59	02:37.59	157.08	0.47	1941952	0
55899	83027	${\bf DisclosedM1}$	52	02:36.93	156.42	0.45	1941968	0
55899	83027	${\it DisclosedM1}$	45	02:37.15	156.65	0.41	1941952	0
55899	83027	${\it DisclosedM1}$	38	02:36.54	156.04	0.45	1941968	0
55899	83027	${\it DisclosedM1}$	31	02:36.56	156.06	0.43	1941968	0
55899	83027	${\it DisclosedM1}$	24	02:36.80	156.31	0.45	1941952	0
55899	83027	${\it DisclosedM1}$	17	02:36.95	156.48	0.43	1941952	0
55899	83027	${\bf DisclosedM1}$	10	02:36.73	156.26	0.43	1941952	0
55899	83027	DisclosedM1	3	02:36.90	156.39	0.47	1941952	0

Table A-18: This table contains raw performance results for the GDS2821 data set. Number of patterns refers to the number of disjunctive closed itemsets found with the given minimum support threshold (MinSupp). Number of candidates refers to the number of candidates evaluated by the algorithm. The algorithms are BLOSOM, DisclosedM2 and DisclosedM1, for Disclosed with model2 and model1 respectively. Ellapsed time is the wall-clock time measured for the algorithm. CPU time is the algorithm's time (in seconds) on CPU. System time is the CPU time (in seconds) spent by the system on behalf of the algorithm. Max. Memory is the maximum amount of main memory used by the algorithm. Both time and memory were measured with GNU time program. Finally, Status refers to the algorithm's exit status; 0 if the algorithm terminates with no problem; 124 if the algorithm times out (experiments were limited to six hours); 137 if the algorithm was terminated (killed) by the system.

Number of Patterns	Number of Candidates	Algorithm	MinSupp	Elapsed time	CPU time	System	Max. Memory (KB)	Status
0	0	${\bf DisclosedM2}$	26	00:02.97	0.05	0.01	24064	0
9	9	${\bf DisclosedM2}$	24	00:00.07	0.06	0	24080	0
126	130	${\it DisclosedM2}$	22	00:00.07	0.06	0	24080	0
751	785	${\it DisclosedM2}$	20	00:00.07	0.06	0.01	24112	0
3116	3299	${\it DisclosedM2}$	18	00:00.20	0.19	0	24368	0
17427	17892	${\it DisclosedM2}$	16	00:02.60	2.57	0.02	25712	0
50181	50639	${\it DisclosedM2}$	14	00:03.25	3.22	0.02	25760	0
65953	65973	${\bf DisclosedM2}$	12	00:09.43	9.38	0.03	25952	0
66154	66174	${\it DisclosedM2}$	10	00:57.47	57.35	0.1	26288	0
66277	66297	${\it DisclosedM2}$	8	02:44.17	163.73	0.39	96368	0
66277	66297	${\it DisclosedM2}$	6	02:42.86	162.37	0.4	96384	0
66277	66297	${\it DisclosedM2}$	4	02:43.03	162.64	0.35	96368	0
66277	66297	${\it DisclosedM2}$	2	02:43.33	162.9	0.38	96384	0
0	0	BLOSOM	26	00:00.87	0.35	0.15	52096	0
9	15	BLOSOM	24	00:00.72	0.35	0.13	52096	0
126	500	BLOSOM	22	00:00.63	0.36	0.16	52240	0
751	6650	BLOSOM	20	00:01.55	1.22	0.16	54016	0
3116	30632	BLOSOM	18	00:22.05	21.69	0.15	69360	0
17427	287152	BLOSOM	16	06:57.33	416.6	0.36	309088	0
50181	1361604	BLOSOM	14	09:20.95	560.26	0.4	344336	0
65953	2357798	BLOSOM	12	18:34.43	1113.19	0.83	690400	0
66154	2380316	BLOSOM	10	01:23:04	4979.41	3.9	3777136	0
66277	2381837	BLOSOM	8	04:17:18	15420.52	11.27	10935888	0
66277	2381837	BLOSOM	6	04:17:11	15415.01	11.08	10934176	0
66277	2381837	BLOSOM	4	04:17:12	15416.98	11.04	10934192	0
66277	2381837	BLOSOM	2	04:17:11	15416.12	11.21	10935808	0
0	0	${\it DisclosedM1}$	26	00:00.09	0.06	0.01	26576	0
26	26	${\it DisclosedM1}$	24	00:00.20	0.19	0	26592	0
1015	1035	${\it DisclosedM1}$	22	00:02.88	2.86	0.01	26592	0
7455	7475	${\it DisclosedM1}$	20	00:20.79	20.74	0.03	26592	0
27023	27043	${\it DisclosedM1}$	18	01:09.43	69.3	0.11	43056	0
51343	51363	${\it DisclosedM1}$	16	02:07.31	127.07	0.21	72160	0
63719	63739	${\it DisclosedM1}$	14	02:36.42	156.14	0.25	91232	0
66105	66125	${\it DisclosedM1}$	12	02:42.27	161.93	0.31	96400	0
66263	66283	${\it DisclosedM1}$	10	02:41.60	161.26	0.3	96368	0
66277	66297	${\it DisclosedM1}$	8	02:41.91	161.59	0.29	96352	0
66277	66297	${\it DisclosedM1}$	6	02:42.42	162.07	0.31	96368	0
66277	66297	${\it DisclosedM1}$	4	02:43.31	162.94	0.33	96368	0
66277	66297	DisclosedM1	2	02:42.61	162.27	0.3	96368	0

Table A-19: This table contains raw performance results for the GDS2941 data set. Number of patterns refers to the number of disjunctive closed itemsets found with the given minimum support threshold (MinSupp). Number of candidates refers to the number of candidates evaluated by the algorithm. The algorithms are BLOSOM, DisclosedM2 and DisclosedM1, for Disclosed with model2 and model1 respectively. Ellapsed time is the wall-clock time measured for the algorithm. CPU time is the algorithm's time (in seconds) on CPU. System time is the CPU time (in seconds) spent by the system on behalf of the algorithm. Max. Memory is the maximum amount of main memory used by the algorithm. Both time and memory were measured with GNU time program. Finally, Status refers to the algorithm's exit status; 0 if the algorithm terminates with no problem; 124 if the algorithm times out (experiments were limited to six hours); 137 if the algorithm was terminated (killed) by the system.

Number of Patterns	Number of Candidates	Algorithm	MinSupp	Elapsed time	CPU time	System time	Max. Memory (KB)	Status
1	1	DisclosedM2	15	00:00.23	0.01	0	9728	0
16	16	${\it DisclosedM2}$	14	00:00.02	0.02	0	9776	0
63	63	DisclosedM2	13	00:00.02	0.01	0	9872	0
153	153	${\it DisclosedM2}$	12	00:00.02	0.02	0	9952	0
260	260	DisclosedM2	11	00:00.04	0.03	0	10112	0
338	338	DisclosedM2	10	00:00.06	0.05	0	10256	0
373	373	DisclosedM2	9	00:00.11	0.1	0	10400	0
388	388	${\it DisclosedM2}$	8	00:00.25	0.24	0	10640	0
400	403	DisclosedM2	7	00:00.37	0.36	0	10672	0
400	403	${\it DisclosedM2}$	6	00:00.37	0.36	0	10672	0
400	403	DisclosedM2	5	00:00.37	0.36	0	10672	0
400	403	DisclosedM2	4	00:00.37	0.36	0	10672	0
400	403	DisclosedM2	3	00:00.37	0.36	0	10672	0
400	403	DisclosedM2	2	00:00.37	0.36	0	10688	0
400	403	DisclosedM2	1	00:00.37	0.37	0	10688	0
1	1	BLOSOM	15	00:00.33	0.08	0.05	19104	0
16	30	BLOSOM	14	00:00.37	0.11	0.06	20624	0
63	201	BLOSOM	13	00:00.35	0.22	0.06	22048	0
153	835	BLOSOM	12	00:01.09	0.94	0.06	24384	0
260	2215	BLOSOM	11	00:03.54	3.41	0.05	28832	0
338	3746	BLOSOM	10	00:07.61	7.45	0.07	30624	0
373	4416	BLOSOM	9	00:13.20	13.05	0.06	36128	0
388	4801	BLOSOM	8	00:23.70	23.5	0.07	52016	0
400	4938	BLOSOM	7	00:31.77	31.57	0.1	63520	0
400	4938	BLOSOM	6	00:31.71	31.52	0.08	63664	0
400	4938	BLOSOM	5	00:31.74	31.53	0.09	63520	0
400	4938	BLOSOM	4	00:31.81	31.54	0.08	63520	0
400	4938	BLOSOM	3	00:31.81	31.54	0.08	63504	0
400	4938	BLOSOM	2	00:31.73	31.53	0.09	63520	0
400	4938	BLOSOM	1	00:31.72	31.55	0.09	63520	0
1	1	DisclosedM1	15	00:00.08	0.02	0	10688	0
16	16	DisclosedM1	14	00:00.05	0.04	0	10688	0
73	73	DisclosedM1	13	00:00.10	0.1	0	10672	0
167	170	DisclosedM1	12	00:00.19	0.18	0	10656	0
272	275	DisclosedM1	11	00:00.28	0.27	0	10688	0
349	352	DisclosedM1	10	00:00.34	0.33	0	10672	0
385	388	DisclosedM1	9	00:00.36	0.36	0	10672	0
399	402	DisclosedM1	8	00:00.37	0.36	0	10672	0
400	403	DisclosedM1	7	00:00.37	0.36	0	10672	0
400	403	DisclosedM1	6	00:00.37	0.36	0	10672	0
400	403	DisclosedM1	5	00:00.37	0.36	0	10672	0
400	403	DisclosedM1	4	00:00.37	0.36	0	10672	0
400	403	DisclosedM1	3	00:00.37	0.36	0	10688	0
400	403	DisclosedM1	2	00:00.37	0.36	0	10672	0
400	403	DisclosedM1	1	00:00.37	0.36	0	10688	0

Table A-20: This table contains raw performance results for the Leukemia data set. Number of patterns refers to the number of disjunctive closed itemsets found with the given minimum support threshold (MinSupp). Number of candidates refers to the number of candidates evaluated by the algorithm. The algorithms are BLOSOM, DisclosedM2 and DisclosedM1, for Disclosed with model2 and model1 respectively. Ellapsed time is the wall-clock time measured for the algorithm. CPU time is the algorithm's time (in seconds) on CPU. System time is the CPU time (in seconds) spent by the system on behalf of the algorithm. Max. Memory is the maximum amount of main memory used by the algorithm. Both time and memory were measured with GNU time program. Finally, Status refers to the algorithm's exit status; 0 if the algorithm terminates with no problem; 124 if the algorithm times out (experiments were limited to six hours); 137 if the algorithm was terminated (killed) by the system.

Number of	Number of Candidates	Algorithm	MinSupp	Elapsed time	CPU time	System	Max. Memory	Status
Patterns		D: 1 11/0		00.00.05	0.01		(KB)	
1	1	DisclosedM2	36	00:00.27	0.01	0	5472	0
10	16	DisclosedM2	34	00:00.01	0.01	0	5472	0
76	98	DisclosedM2	32	00:00.01	0.01	0	5472	0
628	713	DisclosedM2	30	00:00.01	0.01	0	5472	0
2784	2993	DisclosedM2	28	00:00.03	0.03	0	6048	0
10062	10823	DisclosedM2	26	00:00.87	0.86	0	14272	0
29335	31243	DisclosedM2	24	00:01.00	0.99	0	37744	0
88512	94131	DisclosedM2	22	00:01.32	1.29	0.02	104288	0
362098	387599	DisclosedM2	20	00:02.42	2.35	0.07	337376	0
1237178	1322328	DisclosedM2	18	00:05.56	5.34	0.22	989152	0
5726741	6135148	DisclosedM2	16	00:21.05	20.37	0.67	3368288	0
28005300	29459000	DisclosedM2	14	01:58.56	116.45	2.08	9968128	0
92829621	95432271	DisclosedM2	12	14:15.50	850.05	5.18	21183952	0
135608761	139976931	DisclosedM2	10	04:40:30	16802.5	25.38	28175008	0
143217133	147745342	DisclosedM2	8	04:46:33	17163.41	25.86	30205440	0
143217133	147745342	DisclosedM2	6	04:43:41	16991.45	24.9	30205440	0
143217133	147745342	DisclosedM2	4	04:44:01	17011.65	25.22	30205440	0
143217133	147745342	DisclosedM2	2	04:47:11	17201.15	25	30205456	0
1	1	BLOSOM	36	00:00.23	0.04	0.02	12608	0
10	18	BLOSOM	34	00:00.15	0.06	0.01	12608	0
76	186	BLOSOM	32	00:00.20	0.05	0.02	12624	0
628	3128	BLOSOM	30	00:00.21	0.1	0.01	13200	0
2784	23429	BLOSOM	28	00:00.88	0.78	0.01	16272	0
10062	78016	BLOSOM	26	00:51.51	51.35	0.05	67296	0
29335	215039	BLOSOM	24	01:17.48	77.25	0.06	90640	0
88512	682875	BLOSOM	22	01:55.46	115.24	0.08	156544	0
362098	3182844	BLOSOM	20	07:42.85	462.33	0.28	449776	0
1237178	11983647	BLOSOM	18	01:30:57	5455.73	0.75	1378256	0
NA	NA	BLOSOM	16	06:00:00	21595.35	0.93	1473296	124
1	1	DisclosedM1	36	00:00.03	0.01	0	5760	0
667	667	DisclosedM1	34	00:00.22	0.22	0	5744	0
66712	66712	DisclosedM1	32	00:07.56	7.54	0.01	5744	0
2467143	2501200	DisclosedM1	30	01:54.72	114.54	0.16	123840	0
24360790	25391450	DisclosedM1	28	13:47.17	825.03	1.91	5228848	0
64872572	67870810	DisclosedM1	26	53:28.02	3200.35	7.09	19191200	0
99506956	103660802	DisclosedM1	24	02:07:44	7649.05	13.75	27859216	0
123885168	128364873	DisclosedM1	22	03:30:08	12586.21	19.56	29954048	0
137508766	142033517	DisclosedM1	20	04:21:33	15667.74	23.35	30191408	0
142243064	146771163	DisclosedM1	18	04:39:49	16761.83	24.87	30205088	0
143133411	147661619	DisclosedM1	16	04:44:37	17048.55	25.67	30205440	0
143214181	147742390	DisclosedM1	14	04:42:47	16939.01	25.16	30205440	0
143217106	147745315	DisclosedM1	12	04:43:51	17002.97	25.8	30205456	0
143217133	147745342	DisclosedM1	10	04:43:52	17004.64	24.95	30205440	0
143217133	147745342	DisclosedM1	8	04:42:42	16934.54	24.4	30205456	0
143217133	147745342	DisclosedM1	6	04:43:04	16956.85	24.55	30205440	0
143217133	147745342	DisclosedM1	4	04:43:06	16958.55	25.21	30205456	0
143217133	147745342	DisclosedM1	2	04:43:47	16998.61	25.91	30205440	0

Bad data sets

Table A-21: This table contains raw performance results for the Embryo data set. Number of patterns refers to the number of disjunctive closed itemsets found with the given minimum support threshold (MinSupp). Number of candidates refers to the number of candidates evaluated by the algorithm. The algorithms are BLOSOM, DisclosedM2 and DisclosedM1, for Disclosed with model2 and model1 respectively. Ellapsed time is the wall-clock time measured for the algorithm. CPU time is the algorithm's time (in seconds) on CPU. System time is the CPU time (in seconds) spent by the system on behalf of the algorithm. Max. Memory is the maximum amount of main memory used by the algorithm. Both time and memory were measured with GNU time program. Finally, Status refers to the algorithm's exit status; 0 if the algorithm terminates with no problem; 124 if the algorithm times out (experiments were limited to six hours); 137 if the algorithm was terminated (killed) by the system.

Number of Patterns	Number of Candidates	Algorithm	MinSupp	Elapsed time	CPU time	System time	Max. Memory (KB)	Status
0	0	DisclosedM2	59	00:00.31	0.01	0	6464	0
0	0	${\it DisclosedM2}$	55	00:00.01	0.01	0	6480	0
0	0	${\it DisclosedM2}$	51	00:00.01	0.01	0	6464	0
0	0	${\bf DisclosedM2}$	47	00:00.01	0.01	0	6464	0
49705	52545	${\it DisclosedM2}$	43	00:00.18	0.17	0	23008	0
1007877	1060559	${\bf DisclosedM2}$	39	08:00.13	479.56	0.49	36288	0
2814817	3341202	${\it DisclosedM2}$	35	08:51.47	530.7	0.68	610752	0
34909328	40386670	${\it DisclosedM2}$	31	11:50.99	706.3	4.52	20088064	0
NA	NA	${\it DisclosedM2}$	27	21:54.44	824.36	67.77	127715344	137
0	0	BLOSOM	59	00:00.39	0.08	0.02	17648	0
0	0	BLOSOM	55	00:00.20	0.08	0.02	17648	0
0	0	BLOSOM	51	00:00.17	0.08	0.02	17648	0
0	0	BLOSOM	47	00:00.21	0.07	0.02	17632	0
49705	130528	BLOSOM	43	00:02.58	2.44	0.06	90688	0
1007877	5271219	BLOSOM	39	02:03:38	7350.12	39.9	44506592	0
NA	NA	BLOSOM	35	06:00:00	21579.72	12.49	47792656	124
1	1	${\it DisclosedM1}$	59	00:00.04	0.01	0	6752	0
489405	489405	${\it DisclosedM1}$	55	00:49.37	49.31	0.05	6736	0
NA	NA	${\bf DisclosedM1}$	51	06:00:02	21532.95	56.45	127551824	124

Table A-22: This table contains raw performance results for the GDS2519 data set. Number of patterns refers to the number of disjunctive closed itemsets found with the given minimum support threshold (MinSupp). Number of candidates refers to the number of candidates evaluated by the algorithm. The algorithms are BLOSOM, DisclosedM2 and DisclosedM1, for Disclosed with model2 and model1 respectively. Ellapsed time is the wall-clock time measured for the algorithm. CPU time is the algorithm's time (in seconds) on CPU. System time is the CPU time (in seconds) spent by the system on behalf of the algorithm. Max. Memory is the maximum amount of main memory used by the algorithm. Both time and memory were measured with GNU time program. Finally, Status refers to the algorithm's exit status; 0 if the algorithm terminates with no problem; 124 if the algorithm times out (experiments were limited to six hours); 137 if the algorithm was terminated (killed) by the system.

Number of Patterns	Number of Candidates	Algorithm	MinSupp	Elapsed time	CPU time	System time	Max. Memory (KB)	Status
1	1	DisclosedM2	51	00:02.43	0.05	0	16192	0
49	622	${\bf DisclosedM2}$	47	00:00.06	0.05	0	16384	0
177	1336	${\it DisclosedM2}$	43	00:00.06	0.05	0	16400	0
202	1485	${\it DisclosedM2}$	39	00:00.06	0.05	0	16416	0
265	1678	${\it DisclosedM2}$	35	00:00.07	0.05	0.01	16432	0
201327209	201362587	${\it DisclosedM2}$	34	23:05.17	1381.15	1.34	24288	0
NA	NA	${\it DisclosedM2}$	33	06:00:00	21561.6	33.06	16704	124
511	511	BLOSOM	51	00:00.52	0.2	0.06	72384	0
NA	NA	BLOSOM	50	06:00:03	16210.3	78.24	127561616	124
1	1	${\it DisclosedM1}$	105	00:00.10	0.06	0.01	17152	0
3351	3843	${\it DisclosedM1}$	101	00:33.61	33.38	0.21	996320	0
4170	4787	${\it DisclosedM1}$	97	00:43.54	43.24	0.28	1107360	0
713917	714535	${\it DisclosedM1}$	93	41:46.36	2503.2	2.76	1107360	0
2663268	2663886	${\it DisclosedM1}$	92	02:35:28	9318.46	8.87	1107360	0
NA	NA	${\bf DisclosedM1}$	91	06:00:00	21574.72	21.91	269664	124

Table A-23: This table contains raw performance results for the Lymphoma data set. Number of patterns refers to the number of disjunctive closed itemsets found with the given minimum support threshold (MinSupp). Number of candidates refers to the number of candidates evaluated by the algorithm. The algorithms are BLOSOM, DisclosedM2 and DisclosedM1, for Disclosed with model2 and model1 respectively. Ellapsed time is the wall-clock time measured for the algorithm. CPU time is the algorithm's time (in seconds) on CPU. System time is the CPU time (in seconds) spent by the system on behalf of the algorithm. Max. Memory is the maximum amount of main memory used by the algorithm. Both time and memory were measured with GNU time program. Finally, Status refers to the algorithm's exit status; 0 if the algorithm terminates with no problem; 124 if the algorithm times out (experiments were limited to six hours); 137 if the algorithm was terminated (killed) by the system.

Number of Patterns	Number of Candidates	Algorithm	MinSupp	Elapsed time	CPU time	System time	Max. Memory (KB)	Status
0	0	DisclosedM2	46	00:02.36	0	0	3536	0
0	0	${\it DisclosedM2}$	44	00:00.01	0	0	3520	0
0	0	${\it DisclosedM2}$	42	00:00.00	0	0	3520	0
0	0	${\it DisclosedM2}$	40	00:00.00	0	0	3520	0
0	0	${\it DisclosedM2}$	38	00:00.00	0	0	3520	0
0	0	${\it DisclosedM2}$	36	00:00.01	0	0	3520	0
0	0	${\it DisclosedM2}$	34	00:00.00	0	0	3504	0
0	0	${\it DisclosedM2}$	32	00:00.00	0	0	3536	0
0	0	${\it DisclosedM2}$	30	00:00.00	0	0	3520	0
0	0	${\it DisclosedM2}$	28	00:00.00	0	0	3520	0
0	0	${\it DisclosedM2}$	26	00:00.00	0	0	3520	0
0	0	${\it DisclosedM2}$	24	00:00.00	0	0	3520	0
3	5	${\it DisclosedM2}$	22	00:00.00	0	0	3520	0
180	309	${\it DisclosedM2}$	20	00:00.01	0	0	3856	0
2613966	2691647	${\it DisclosedM2}$	18	08:29.96	507.64	1.98	5561152	0
30259160	31381334	${\it DisclosedM2}$	16	02:12:53	7936.26	31.47	93252080	0
NA	NA	${\it DisclosedM2}$	14	06:00:03	21488.66	79.26	127653760	124
0	0	BLOSOM	46	00:00.39	0.01	0.01	10352	0
0	0	BLOSOM	44	00:00.08	0.02	0.01	10352	0
0	0	BLOSOM	42	00:00.06	0.02	0	10352	0
0	0	BLOSOM	40	00:00.05	0.01	0.01	10352	0
0	0	BLOSOM	38	00:00.06	0.02	0.01	10352	0
0	0	BLOSOM	36	00:00.06	0.02	0.01	10352	0
0	0	BLOSOM	34	00:00.06	0.01	0.01	10352	0
0	0	BLOSOM	32	00:00.08	0.01	0.01	10352	0
0	0	BLOSOM	30	00:00.08	0.01	0.01	10352	0
0	0	BLOSOM	28	00:00.07	0.01	0.01	10352	0
0	0	BLOSOM	26	00:00.07	0.01	0.01	10352	0
0	0	BLOSOM	24	00:00.05	0.02	0	10352	0
3	3	BLOSOM	22	00:00.07	0.01	0.01	10352	0
180	303	BLOSOM	20	00:00.07	0.01	0.01	10416	0
2613966	3577587	BLOSOM	18	01:10:11	4170.83	30.19	35226352	0
NA	NA	BLOSOM	16	06:00:00	21557.28	34.18	101524192	124
1	1	${\it DisclosedM1}$	46	00:00.43	0	0	3680	0
1082	1082	${\it DisclosedM1}$	44	00:00.54	0.53	0	3824	0
179310	179310	${\it DisclosedM1}$	42	01:06.54	66.42	0.1	4128	0
10840195	10840195	${\it DisclosedM1}$	40	53:51.33	3225.23	5.6	12064	0
NA	NA	DisclosedM1	38	06:00:00	21557.81	38.87	117120	124

Table A-24: This table contains raw performance results for the Promoters data set. Number of patterns refers to the number of disjunctive closed itemsets found with the given minimum support threshold (MinSupp). Number of candidates refers to the number of candidates evaluated by the algorithm. The algorithms are BLOSOM, DisclosedM2 and DisclosedM1, for Disclosed with model2 and model1 respectively. Ellapsed time is the wall-clock time measured for the algorithm. CPU time is the algorithm's time (in seconds) on CPU. System time is the CPU time (in seconds) spent by the system on behalf of the algorithm. Max. Memory is the maximum amount of main memory used by the algorithm. Both time and memory were measured with GNU time program. Finally, Status refers to the algorithm's exit status; 0 if the algorithm terminates with no problem; 124 if the algorithm times out (experiments were limited to six hours); 137 if the algorithm was terminated (killed) by the system.

Number of Patterns	Number of Candidates	Algorithm	MinSupp	Elapsed time	CPU time	System time	Max. Memory (KB)	Status
0	0	DisclosedM2	106	00:00.37	0	0	2656	0
0	0	${\it DisclosedM2}$	97	00:00.01	0	0	2656	0
0	0	${\it DisclosedM2}$	88	00:00.00	0	0	2640	0
0	0	${\bf DisclosedM2}$	79	00:00.00	0	0	2656	0
0	0	${\it DisclosedM2}$	70	00:00.00	0	0	2656	0
0	0	${\bf DisclosedM2}$	61	00:00.00	0	0	2656	0
7	13	${\it DisclosedM2}$	52	00:00.00	0	0	2656	0
59	120	${\bf DisclosedM2}$	43	00:00.00	0	0	2704	0
363950	933356	${\it DisclosedM2}$	34	00:04.46	4.17	0.28	1432256	0
84474898	235343665	${\bf DisclosedM2}$	25	12:34.99	715.51	31.4	127563360	0
NA	NA	${\it DisclosedM2}$	16	24:48.23	1319.84	56.99	127791744	137
0	0	BLOSOM	106	00:00.14	0	0	5488	0
0	0	BLOSOM	97	00:00.02	0	0	5488	0
0	0	BLOSOM	88	00:00.02	0	0	5472	0
0	0	BLOSOM	79	00:00.02	0	0	5488	0
0	0	BLOSOM	70	00:00.02	0	0	5504	0
0	0	BLOSOM	61	00:00.02	0	0	5488	0
7	7	BLOSOM	52	00:00.02	0	0	5488	0
63	63	BLOSOM	43	00:00.02	0	0	5504	0
5028509	8409459	BLOSOM	34	01:13:35	4404.77	7.14	11705312	0
NA	NA	BLOSOM	25	06:00:00	21592.86	3.28	4253744	124
1	1	${\it DisclosedM1}$	106	00:00.15	0	0	2656	0
390178942	630677318	${\it DisclosedM1}$	97	38:11.48	2262.89	26.03	117798720	0
NA	NA	${\bf DisclosedM1}$	88	25:17.16	1338.24	57.5	127735504	137

Average data sets

Table A-25: This table contains raw performance results for the ALL-AML data set. Number of patterns refers to the number of disjunctive closed itemsets found with the given minimum support threshold (MinSupp). Number of candidates refers to the number of candidates evaluated by the algorithm. The algorithms are BLOSOM, DisclosedM2 and DisclosedM1, for Disclosed with model2 and model1 respectively. Ellapsed time is the wall-clock time measured for the algorithm. CPU time is the algorithm's time (in seconds) on CPU. System time is the CPU time (in seconds) spent by the system on behalf of the algorithm. Max. Memory is the maximum amount of main memory used by the algorithm. Both time and memory were measured with GNU time program. Finally, Status refers to the algorithm's exit status; 0 if the algorithm terminates with no problem; 124 if the algorithm times out (experiments were limited to six hours); 137 if the algorithm was terminated (killed) by the system.

Number of Patterns	Number of Candidates	Algorithm	MinSupp	Elapsed time	CPU time	System time	Max. Memory (KB)	Status
0	0	DisclosedM2	38	00:00.01	0	0	4208	0
0	0	${\it DisclosedM2}$	35	00:00.00	0	0	4224	0
6	10	${\it DisclosedM2}$	32	00:00.00	0	0	4208	0
236	284	${\it DisclosedM2}$	29	00:00.01	0	0	4224	0
16867	17500	${\it DisclosedM2}$	26	00:00.70	0.69	0.01	31392	0
162187	170035	${\it DisclosedM2}$	23	00:01.91	1.88	0.03	209760	0
847186	900005	${\it DisclosedM2}$	20	00:05.00	4.81	0.18	917568	0
4772552	5153644	${\it DisclosedM2}$	17	00:18.93	18.19	0.73	3758880	0
22566556	24260346	${\it DisclosedM2}$	14	01:22.17	79.59	2.46	12406384	0
256377728	264589442	${\it DisclosedM2}$	11	48:54.15	2923.69	9.55	32771792	0
NA	NA	${\it DisclosedM2}$	8	06:00:01	21538.42	56.74	127289504	124
0	0	BLOSOM	38	00:00.25	0.03	0.01	10240	0
0	0	BLOSOM	35	00:00.10	0.03	0.01	10240	0
6	6	BLOSOM	32	00:00.10	0.03	0.01	10240	0
236	570	BLOSOM	29	00:00.13	0.04	0	10416	0
16867	105793	BLOSOM	26	00:08.44	8.35	0.02	59440	0
162187	1548350	BLOSOM	23	02:16.29	136.08	0.09	250480	0
847186	9295971	BLOSOM	20	44:42.67	2681.57	0.46	1035728	0
NA	NA	BLOSOM	17	06:00:00	21595.5	0.93	1445840	124
1	1	DisclosedM1	38	00:00.04	0	0	4368	0
9178	9178	DisclosedM1	35	00:02.00	2	0	4368	0
3349852	3350426	DisclosedM1	32	04:06.47	246.16	0.27	5328	0
215925804	224015049	DisclosedM1	29	01:43:54	6221.27	11.34	20716096	0
NA	NA	${\bf DisclosedM1}$	26	03:14:28	11597.34	65.97	127345392	137

Table A-26: This table contains raw performance results for the Colon data set. Number of patterns refers to the number of disjunctive closed itemsets found with the given minimum support threshold (MinSupp). Number of candidates refers to the number of candidates evaluated by the algorithm. The algorithms are BLOSOM, DisclosedM2 and DisclosedM1, for Disclosed with model2 and model1 respectively. Ellapsed time is the wall-clock time measured for the algorithm. CPU time is the algorithm's time (in seconds) on CPU. System time is the CPU time (in seconds) spent by the system on behalf of the algorithm. Max. Memory is the maximum amount of main memory used by the algorithm. Both time and memory were measured with GNU time program. Finally, Status refers to the algorithm's exit status; 0 if the algorithm terminates with no problem; 124 if the algorithm times out (experiments were limited to six hours); 137 if the algorithm was terminated (killed) by the system.

Number of Patterns	Number of Candidates	Algorithm	MinSupp	Elapsed time	CPU time	System time	Max. Memory (KB)	Status
0	0	${\it DisclosedM2}$	62	00:00.40	0	0	3264	0
0	0	${\bf DisclosedM2}$	58	00:00.01	0	0	3264	0
0	0	${\it DisclosedM2}$	54	00:00.01	0	0	3264	0
0	0	${\it DisclosedM2}$	50	00:00.01	0	0	3248	0
0	0	${\it DisclosedM2}$	46	00:00.01	0	0	3248	0
382	525	${\bf DisclosedM2}$	42	00:00.01	0	0	3888	0
59388	67319	${\it DisclosedM2}$	38	00:05.09	5.06	0.02	78784	0
504221	602511	${\it DisclosedM2}$	34	00:19.34	19.15	0.17	696192	0
2936932	3415750	${\it DisclosedM2}$	30	00:41.76	40.82	0.88	4096640	0
20106537	22805305	${\it DisclosedM2}$	26	02:45.72	160.21	5.26	25219104	0
31636202	35488159	${\it DisclosedM2}$	25	04:20.09	251.75	7.95	38186112	0
63378186	71045118	${\it DisclosedM2}$	24	07:59.73	465.05	13.9	66205920	0
97188623	108816158	${\it DisclosedM2}$	23	12:55.10	753.94	20.13	95649360	0
NA	NA	${\it DisclosedM2}$	22	06:00:01	21506.05	64.23	127496288	124
0	0	BLOSOM	62	00:00.12	0.02	0	8512	0
0	0	BLOSOM	58	00:00.06	0.02	0	8496	0
0	0	BLOSOM	54	00:00.06	0.02	0	8512	0
0	0	BLOSOM	50	00:00.06	0.01	0.01	8512	0
0	0	BLOSOM	46	00:00.06	0.01	0	8512	0
382	532	BLOSOM	42	00:00.08	0.02	0	8896	0
59388	167582	BLOSOM	38	00:18.43	18.06	0.32	404256	0
504221	1678344	BLOSOM	34	03:50.30	228.67	1.36	1908688	0
2936932	10432938	BLOSOM	30	01:34:17	5651.04	4.61	6130864	0
5360948	18792819	BLOSOM	29	05:08:59	18527.93	7.32	9847472	0
NA	NA	BLOSOM	28	06:00:00	21591.99	3.84	5647392	124
1	1	DisclosedM1	62	00:00.02	0	0	3296	0
3676086	4180698	${\it DisclosedM1}$	58	04:02.02	240.51	1.42	5457840	0
NA	NA	${\bf DisclosedM1}$	54	06:00:02	21464.09	57.19	127208992	124

Table A-27: This table contains raw performance results for the GDS2250 data set. Number of patterns refers to the number of disjunctive closed itemsets found with the given minimum support threshold (MinSupp). Number of candidates refers to the number of candidates evaluated by the algorithm. The algorithms are BLOSOM, DisclosedM2 and DisclosedM1, for Disclosed with model2 and model1 respectively. Ellapsed time is the wall-clock time measured for the algorithm. CPU time is the algorithm's time (in seconds) on CPU. System time is the CPU time (in seconds) spent by the system on behalf of the algorithm. Max. Memory is the maximum amount of main memory used by the algorithm. Both time and memory were measured with GNU time program. Finally, Status refers to the algorithm's exit status; 0 if the algorithm terminates with no problem; 124 if the algorithm times out (experiments were limited to six hours); 137 if the algorithm was terminated (killed) by the system.

Number of Patterns	Number of Candidates	Algorithm	MinSupp	Elapsed time	CPU time	System time	Max. Memory (KB)	Status
0	0	DisclosedM2	47	00:00.16	0.06	0.01	23776	0
0	0	${\it DisclosedM2}$	45	00:00.06	0.05	0	23776	0
0	0	DisclosedM2	43	00:00.06	0.05	0	23776	0
0	0	DisclosedM2	41	00:00.06	0.05	0	23776	0
0	0	${\it DisclosedM2}$	39	00:00.06	0.05	0.01	23776	0
0	0	${\it DisclosedM2}$	37	00:00.06	0.05	0	23776	0
0	0	${\it DisclosedM2}$	35	00:00.06	0.05	0	23776	0
7	12	${\it DisclosedM2}$	33	00:00.06	0.05	0	23792	0
201	242	${\it DisclosedM2}$	31	00:00.06	0.05	0	23808	0
730	854	DisclosedM2	29	00:00.06	0.06	0	23792	0
7760	8770	${\it DisclosedM2}$	27	00:00.10	0.09	0	23792	0
60402	63349	${\it DisclosedM2}$	25	00:00.44	0.43	0	25568	0
242793	243157	DisclosedM2	23	00:03.41	3.39	0.01	23808	0
1048938	1049661	${\it DisclosedM2}$	21	03:45.74	225.53	0.16	23872	0
16818665	16847565	${\it DisclosedM2}$	19	01:45:33	6324.08	7.89	5319920	0
17553283	17730121	${\it DisclosedM2}$	17	02:35:09	9296.18	12.25	7514608	0
24484125	26195291	DisclosedM2	15	02:49:52	10172.24	16.36	26093552	0
68853856	78868374	${\it DisclosedM2}$	13	03:15:01	11650.52	41.39	127530848	0
NA	NA	${\it DisclosedM2}$	11	02:27:47	8799.57	61.21	127738272	137
0	0	BLOSOM	47	00:00.89	0.35	0.18	82000	0
0	0	BLOSOM	45	00:00.71	0.35	0.16	82000	0
0	0	BLOSOM	43	00:00.69	0.35	0.17	82000	0
0	0	BLOSOM	41	00:00.69	0.34	0.17	81984	0
0	0	BLOSOM	39	00:00.70	0.34	0.17	82000	0
0	0	BLOSOM	37	00:00.68	0.35	0.16	81984	0
0	0	BLOSOM	35	00:00.66	0.35	0.17	81968	0
7	7	BLOSOM	33	00:00.67	0.36	0.17	81984	0
201	493	BLOSOM	31	00:00.70	0.36	0.16	82016	0
730	2419	BLOSOM	29	00:00.70	0.4	0.16	82336	0
7760	40951	BLOSOM	27	00:01.10	0.77	0.16	89776	0
60402	474565	BLOSOM	25	00:08.58	8.21	0.2	153152	0
242793	3641276	BLOSOM	23	04:38.82	277.73	0.49	485744	0
1048938	9800931	BLOSOM	21	01:17:07	4605.57	15.45	13253296	0
NA	NA	BLOSOM	19	06:00:01	20558.03	50.5	127613664	124
1	1	${\it DisclosedM1}$	47	00:00.11	0.06	0.01	26304	0
1641	1643	${\it DisclosedM1}$	45	00:16.40	16.37	0.02	29888	0
435621	438159	${\it DisclosedM1}$	43	25:29.23	1526.32	2.64	1183904	0
NA	NA	${\bf DisclosedM1}$	41	06:00:00	21572.9	23.55	6958384	124