Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob1_050_040_060_005_015_01	7009296	0.00	101	0	0.00	101	239	0	21.58	0	0.36	0	0.00	0	0	0.41	0	0.58	0
prob1_050_040_060_005_015_02	8940572	0.00	101	0	0.00	101	257	0	26.13	0	0.16	0	0.00	0	0	0.24	0	0.30	0
prob1_050_040_060_005_015_03	8560415	0.00	101	0	0.00	101	232	0	24.60	0	0.19	0	0.00	0	0	0.16	0	0.28	0
prob1_050_040_060_005_015_04	6861494	0.00	101	0	0.00	101	208	0	22.13	0	0.35	0	0.00	0	0	0.34	0	0.45	0
prob1_050_040_060_005_015_05	7349535	0.00	101	0	0.00	101	238	0	24.24	0	0.17	0	0.00	0	0	0.19	0	0.36	0
prob1_050_040_060_005_015_06	8416761	0.00	101	0	0.00	101	199	0	26.14	0	0.17	0	0.00	0	0	0.34	0	0.34	0
prob1_050_040_060_005_015_07	7723697	0.00	101	0	0.00	101	221	0	26.03	0	0.24	0	0.00	0	0	0.18	0	0.36	0
prob1_050_040_060_005_015_08	6697850	0.00	101	0	0.00	101	231	0	19.50	0	0.25	0	0.00	0	0	0.26	0	0.54	0
prob1_050_040_060_005_015_09	6631876	0.00	105	0	0.00	101	231	0	18.82	0	0.23	0	0.00	0	0	0.26	0	0.49	0
prob1_050_040_060_005_015_10	6049640	0.00	101	0	0.00	101	234	0	19.58	0	0.26	0	0.00	0	0	0.28	0	0.51	0
prob1_050_040_060_015_025_01	5752178	0.00	125	0	0.00	101	282	0	25.69	0	0.21	0	0.00	0	0	0.23	0	0.42	0
prob1_050_040_060_015_025_02	5370970	0.00	101	0	0.00	101	285	0	22.05	0	0.17	0	0.00	0	0	0.19	0	0.34	0
prob1_050_040_060_015_025_03	5026821	0.00	133	0	0.00	101	278	0	22.92	0	0.22	0	0.00	0	0	0.23	0	0.45	0
prob1_050_040_060_015_025_04	6034049	0.00	101	0	0.00	101	312	0	24.77	0	0.24	0	0.00	0	0	0.48	0	0.48	0
prob1_050_040_060_015_025_05	6972636	0.00	101	0	0.00	101	228	0	26.77	0	0.31	0	0.00	0	0	0.33	0	0.47	0
prob1_050_040_060_015_025_06	5115975	0.00	101	0	0.00	101	301	0	21.03	0	0.28	0	0.00	0	0	0.20	0	0.37	0
prob1_050_040_060_015_025_07	4623181	0.00	141	0	0.00	101	251	0	20.69	0	0.22	0	0.00	0	0	0.23	0	0.44	0
prob1_050_040_060_015_025_08	5322296	0.00	101	0	0.00	101	276	0	20.33	0	0.21	0	0.00	0	0	0.45	0	0.45	0
prob1_050_040_060_015_025_09	6482173	0.00	111	0	0.00	101	192	0	23.20	0	0.23	0	0.00	0	0	0.27	0	0.43	0
prob1_050_040_060_015_025_10	5832383	0.00	117	0	0.00	101	269	0	22.66	0	0.24	0	0.00	0	0	0.26	0	0.49	0
prob1_050_040_060_025_035_01	4129750	0.00	219	0	0.01	105	266	0	24.43	0	0.22	0	0.00	0	0	0.23	0	0.45	0
prob1_050_040_060_025_035_02	4152935	0.00	105	0	0.00	105	284	0	19.75	0	0.23	0	0.00	0	0	0.25	0	0.49	0
prob1_050_040_060_025_035_03	4771628	0.00	101	0	0.00	101	299	0	24.61	0	0.29	0	0.00	0	0	0.28	0	0.50	0
prob1_050_040_060_025_035_04	4725627	0.00	105	0	0.00	107	276	0	25.27	0	0.25	0	0.00	0	0	0.29	0	0.53	0
prob1_050_040_060_025_035_05	3873796	0.00	203	0	0.00	107	268	0	26.80	0	0.23	0	0.00	0	0	0.30	0	0.44	0
prob1_050_040_060_025_035_06	3948088	0.00	195	0	0.01	149	285	0	19.04	0	0.25	0	0.00	0	0	0.37	0	0.56	0
prob1_050_040_060_025_035_07	4978034	0.00	101	0	0.00	101	274	0	27.59	0	0.23	0	0.00	0	0	0.44	0	0.41	0
prob1_050_040_060_025_035_08	3960253	0.00	101	0	0.00	103	266	0	23.97	0	0.32	0	0.00	0	0	0.39	0	0.45	0
prob1_050_040_060_025_035_09	4656286	0.00	175	0	0.00	101	276	0	27.03	0	0.24	0	0.00	0	0	0.25	0	0.45	0
prob1_050_040_060_025_035_10	4694577	0.00	175	0	0.01	139	298	0	26.80	0	0.28	0	0.00	0	0	0.30	0	0.53	0
prob1_050_040_060_035_045_01	2945473	0.00	221	0	0.01	165	285	0	19.94	0	0.21	0	0.00	0	0	0.24	0	0.44	0
prob1_050_040_060_035_045_02	3095667	0.00	155	0	0.00	103	256	0	23.69	0	0.20	0	0.00	0	0	0.22	0	0.41	0
prob1_050_040_060_035_045_03	3211082	0.00	169	0	0.01	169	319	0	20.67	0	0.24	0	0.00	0	0	0.26	0	0.50	0
prob1_050_040_060_035_045_04	2695283	0.00	233	0	0.01	177	266	0	19.43	0	0.24	0	0.00	0	0	0.28	0	0.50	0
prob1_050_040_060_035_045_05	2915232	0.00	101	0	0.00	101	251	0	21.96	0	0.17	0	0.00	0	0	0.17	0	0.31	0
prob1_050_040_060_035_045_06	2753196	0.00	335	0	0.01	163	285	0	19.72	0	0.18	0	0.00	0	0	0.19	0	0.36	0
prob1_050_040_060_035_045_07	2790482	0.00	159	0	0.00	101	248	0	19.69	0	0.19	0	0.00	0	0	0.20	0	0.37	0
prob1_050_040_060_035_045_08	2902174	0.00	211	0	0.00	157	259	0	20.98	0	0.25	0	0.00	0	0	0.28	0	0.49	0
prob1_050_040_060_035_045_09	3671723	0.00	233	0	0.01	147	265	0	26.77	0	0.20	0	0.00	0	0	0.25	0	0.47	0
prob1_050_040_035_045_10	2663638	0.00	101	0	0.00	103	232	0	19.90	0	0.18	0	0.00	0	0	0.20	0	0.37	0
prob1_050_090_110_005_015_01	14789986	0.00	101	0	0.00	101	288	0	94.17	0	0.34	0	0.00	0	0	0.40	0	0.74	0
prob1_050_090_110_005_015_02	13504223	0.00	101	0	0.00	101	293	0	86.29	0	0.43	0	0.00	0	0	0.25	0	0.47	0
prob1_050_090_110_005_015_03	14840944	0.00	101	0	0.00	101	293	0	94.99	0	0.46	0	0.00	0	0	0.47	0	0.90	0
prob1_050_090_110_005_015_04	16609975	0.00	101	0	0.00	101	289	0	98.83	0	0.31	0	0.00	0	0	0.34	0	0.66	0
prob1_050_090_110_005_015_05	11565046	0.00	101	0	0.00	101	358	0	80.15	0	0.48	0	0.00	0	0	0.56	0	1.00	0
prob1_050_090_110_005_015_06	15718659	0.00	101	0	0.00	101	298	0	101.85	0	0.31	0	0.00	0	0	0.35	0	0.65	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob1_050_090_110_005_015_07	18499760	0.00	101	0	0.00	101	331	0	110.32	0	0.35	0	0.00	0	0	0.38	0	0.72	0
prob1_050_090_110_005_015_08	17465693	0.00	101	0	0.00	101	325	0	99.95	0	0.33	0	0.00	0	0	0.38	0	0.71	0
prob1_050_090_110_005_015_09	13150951	0.00	101	0	0.00	101	250	0	91.08	0	0.51	0	0.00	0	0	0.62	0	1.07	0
prob1_050_090_110_005_015_10	16516160	0.00	101	0	0.00	101	321	0	105.04	0	0.34	0	0.00	0	0	0.40	0	0.70	0
prob1_050_090_110_015_025_01	13440353	0.00	107	0	0.00	101	361	0	110.04	0	0.69	0	0.00	0	0	0.70	0	1.29	0
prob1_050_090_110_015_025_02	9608532	0.00	131	0	0.00	101	314	0	84.97	0	0.41	0	0.00	0	0	0.49	0	0.86	0
prob1_050_090_110_015_025_03	12902825	0.00	111	0	0.00	101	373	0	114.68	0	0.68	0	0.00	0	0	0.71	0	1.41	0
prob1_050_090_110_015_025_04	10854934	0.00	101	0	0.00	101	350	0	92.27	0	0.54	0	0.00	0	0	0.58	0	1.15	0
prob1_050_090_110_015_025_05	11775499	0.00	117	0	0.00	101	345	0	90.22	0	0.53	0	0.00	0	0	0.56	0	1.11	0
prob1_050_090_110_015_025_06	13055044	0.00	101	0	0.00	101	376	0	111.24	0	0.67	0	0.00	0	0	0.66	0	1.43	0
prob1_050_090_110_015_025_07	11831069	0.00	101	0	0.00	101	370	0	92.68	0	0.70	0	0.00	0	0	0.75	0	1.43	0
prob1_050_090_110_015_025_08	10329151	0.00	101	0	0.00	101	321	0	83.43	0	0.45	0	0.00	0	0	0.52	0	0.96	0
prob1_050_090_110_015_025_09	10753496	0.00	101	0	0.00	101	338	0	89.29	0	0.56	0	0.00	0	0	0.64	0	1.17	0
prob1_050_090_110_015_025_10	12411979	0.00	135	0	0.00	101	359	0	111.02	0	0.71	0	0.00	0	0	0.70	0	1.47	0
prob1_050_090_110_025_035_01	9681248	0.00	149	0	0.00	157	385	0	104.31	0	0.80	0	0.00	0	0	0.81	0	1.62	0
prob1_050_090_110_025_035_02	8542538	0.00	179	0	0.00	101	330	0	92.01	0	0.58	0	0.00	0	0	0.61	0	1.08	0
prob1_050_090_110_025_035_03	10679582	0.00	101	0	0.00	101	334	0	110.82	0	0.64	0	0.00	0	0	0.65	0	1.32	0
prob1_050_090_110_025_035_04	8145007	0.00	145	0	0.00	101	342	0	87.49	0	0.47	0	0.00	0	0	0.54	0	0.99	0
prob1_050_090_110_025_035_05	7859707	0.00	209	0	0.00	211	390	0	88.71	0	0.69	0	0.00	0	0	0.75	0	1.45	0
prob1_050_090_110_025_035_06	7898663	0.00	151	0	0.00	151	293	0	88.17	0	0.52	0	0.00	0	0	0.64	0	1.08	0
prob1_050_090_110_025_035_07	10929791	0.00	101	0	0.00	101	354	0	115.84	0	0.62	0	0.00	0	0	0.58	0	1.30	0
prob1_050_090_110_025_035_08	8670609	0.00	221	0	0.01	143	372	0	104.02	0	0.50	0	0.00	0	0	0.59	0	1.05	0
prob1_050_090_110_025_035_09	7591896	0.00	169	0	0.01	171	371	0	87.68	0	0.54	0	0.00	0	0	0.72	0	1.12	0
prob1_050_090_110_025_035_10	9447002	0.00	169	0	0.00	101	346	0	93.10	0	0.62	0	0.00	0	0	0.72	0	1.28	0
prob1_050_090_110_035_045_01	5862006	0.00	215	0	0.01	215	352	0	75.88	0	0.52	0	0.00	0	0	0.65	0	1.09	0
prob1_050_090_110_035_045_02	7113345	0.00	151	0	0.01	153	376	0	102.04	0	0.46	0	0.00	0	0	0.53	0	0.99	0
prob1_050_090_110_035_045_03	7051395	0.00	215	0	0.01	215	387	0	112.94	0	0.72	0	0.00	0	0	0.81	0	1.40	0
prob1_050_090_110_035_045_04	7019208	0.00	143	0	0.01	101	338	0	110.85	0	0.55	0	0.00	0	0	0.61	0	1.06	0
prob1_050_090_110_035_045_05	5823171	0.00	323	0	0.01	167	351	0	91.74	0	0.44	0	0.01	0	0	0.50	0	0.90	0
prob1_050_090_110_035_045_06	5544429	0.00	101	0	0.00	101	327	0	84.40	0	0.37	0	0.00	0	0	0.48	0	0.76	0
prob1_050_090_110_035_045_07	5659525	0.00	157	0	0.00	101	313	0	82.71	0	0.36	0	0.00	0	0	0.47	0	0.78	0
prob1_050_090_110_035_045_08	5227306	0.01	335	0	0.01	283	383	0	79.06	0	0.46	0	0.01	0	0	0.55	0	0.97	0
prob1_050_090_110_035_045_09	7481748	0.00	101	0	0.00	101	305	0	111.44	0	0.46	0	0.00	0	0	0.55	0	0.97	0
prob1_050_090_110_035_045_10	6141230	0.00	107	0	0.00	107	316	0	90.43	0	0.46	0	0.00	0	0	0.52	0	0.94	0
prob1_100_040_060_005_015_01	14918885	0.00	201	0	0.01	201	477	0	79.35	0	0.42	0	0.00	0	0	0.48	0	0.83	0
prob1_100_040_060_005_015_02	16796574	0.00	201	0	0.01	201	459	0	109.81	0	0.49	0	0.00	0	0	0.58	0	1.03	0
prob1_100_040_060_005_015_03	13022459	0.00	201	0	0.01	201	455	0	77.47	0	0.39	0	0.00	0	0	0.50	0	0.84	0
prob1_100_040_060_005_015_04	14138637	0.00	201	0	0.01	201	444	0	88.69	0	0.36	0	0.00	0	0	0.42	0	0.77	0
prob1_100_040_060_005_015_05	17989654	0.00	201	0	0.01	201	505	0	99.18	0	0.25	0	0.00	0	0	0.30	0	0.54	0
prob1_100_040_060_005_015_06	17387042	0.00	201	0	0.01	201	440	0	104.46	0	0.32	0	0.00	0	0	0.35	0	0.67	0
prob1_100_040_060_005_015_07	17179617	0.00	201	0	0.01	201	505	0	114.94	0	0.27	0	0.00	0	0	0.32	0	0.57	0
prob1_100_040_060_005_015_08	15485417	0.00	201	0	0.01	201	438	0	100.78	0	0.47	0	0.00	0	0	0.55	0	0.99	0
prob1_100_040_060_005_015_09	15088022	0.00	201	0	0.01	201	457	0	82.69	0	0.30	0	0.00	0	0	0.36	0	0.65	0
prob1_100_040_060_005_015_10	17473888	0.00	201	0	0.01	201	423	0	113.44	0	0.49	0	0.00	0	0	0.46	0	0.88	0
prob1_100_040_060_015_025_01	11746062	0.00	215	0	0.01	215	526	0	96.38	0	0.58	0	0.00	0	0	0.61	0	1.07	0
prob1_100_040_060_015_025_02	10395083	0.00	201	0	0.01	201	530	0	91.37	0	0.36	0	0.00	0	0	0.42	0	0.82	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob1_100_040_060_015_025_03	11721692	0.00	201	0	0.01	201	375	0	86.44	0	0.41	0	0.00	0	0	0.61	0	0.87	0
prob1_100_040_060_015_025_04	12638109	0.00	201	0	0.01	201	546	0	111.37	0	0.68	0	0.00	0	0	1.20	0	1.13	0
prob1_100_040_060_015_025_05	12277036	0.00	275	0	0.01	201	513	0	113.61	0	0.49	0	0.01	0	0	0.58	0	1.01	0
prob1_100_040_060_015_025_06	14212888	0.00	213	0	0.01	201	393	0	105.24	0	0.52	0	0.00	0	0	0.59	0	1.09	0
prob1_100_040_060_015_025_07	12943973	0.00	201	0	0.01	201	543	0	104.66	0	0.41	0	0.01	0	0	0.49	0	0.87	0
prob1_100_040_060_015_025_08	12359613	0.00	201	0	0.01	201	507	0	112.57	0	0.56	0	0.01	0	0	0.57	0	1.07	0
prob1_100_040_060_015_025_09	9707636	0.00	269	0	0.01	269	507	0	78.10	0	0.33	0	0.00	0	0	0.41	0	0.70	0
prob1_100_040_060_015_025_10	10434348	0.00	201	0	0.01	201	523	0	89.31	0	0.41	0	0.00	0	0	0.50	0	0.87	0
prob1_100_040_060_015_035_01	10874231	0.00	203	0	0.01	203	538	0	112.86	0	0.57	0	0.00	0	0	0.57	0	1.01	0
prob1_100_040_060_015_035_02	7761855	0.00	297	0	0.01	297	509	0	77.46	0	0.34	0	0.01	0	0	0.43	0	0.73	0
prob1_100_040_060_015_035_03	11038983	0.00	253	0	0.01	201	519	0	113.49	0	0.41	0	0.00	0	0	0.49	0	0.85	0
prob1_100_040_060_025_035_04	8704570	0.00	201	0	0.01	201	483	0	103.80	0	0.40	0	0.00	0	0	0.47	0	0.78	0
prob1_100_040_060_025_035_05	7703518	0.01	465	0	0.01	291	509	0	91.83	0	0.65	0	0.01	0	0	0.83	0	1.12	0
prob1_100_040_060_025_035_06	8602986	0.00	377	0	0.01	291	500	0	96.58	0	0.41	0	0.00	0	0	0.67	0	0.86	0
prob1_100_040_060_025_035_07	8003828	0.00	291	0	0.01	291	511	0	90.45	0	0.41	0	0.00	0	0	0.49	0	0.81	0
prob1_100_040_060_025_035_08	9170654	0.00	285	0	0.01	285	488	0	91.79	0	0.55	0	0.01	0	0	0.63	0	1.12	0
prob1_100_040_060_025_035_09	7038100	0.01	499	0	0.01	201	467	0	83.03	0	0.32	0	0.01	0	0	0.38	0	0.68	0
prob1_100_040_060_025_035_10	9364346	0.00	269	0	0.01	201	519	0	102.73	0	0.40	0	0.00	0	0	0.46	0	0.82	0
prob1_100_040_060_035_045_01	5909773	0.01	691	0	0.01	337	465	0	82.44	0	0.36	0	0.01	0	0	0.45	0	0.76	0
prob1_100_040_060_035_045_02	7645609	0.00	201	0	0.01	201	488	0	114.02	0	0.40	0	0.00	0	0	0.47	0	0.85	0
prob1_100_040_060_035_045_03	5653035	0.00	229	0	0.01	233	455	0	79.51	0	0.44	0	0.00	0	0	0.49	0	0.84	0
prob1_100_040_060_035_045_04	6063077	0.00	203	0	0.01	203	445	0	95.96	0	0.38	0	0.00	0	0	0.44	0	0.76	0
prob1_100_040_060_035_045_05	7987908	0.00	209	0	0.01	213	485	0	113.07	0	0.53	0	0.01	0	0	0.67	0	1.12	0
prob1_100_040_060_035_045_06	6146637	0.00	313	0	0.01	201	451	0	84.47	0	0.42	0	0.01	0	0	0.54	0	0.89	0
prob1_100_040_060_035_045_07	6503856	0.00	201	0	0.01	201	433	0	88.46	0	0.40	0	0.00	0	0	0.48	0	0.85	0
prob1_100_040_060_035_045_08	5478890	0.01	669	0	0.02	439	448	0	80.29	0	0.47	0	0.00	0	0	0.88	0	0.88	0
prob1_100_040_060_035_045_09	7414701	0.00	201	0	0.01	201	493	0	112.56	0	0.42	0	0.00	0	0	0.51	0	0.88	0
prob1_100_040_060_035_045_10	6496080	0.00	309	0	0.01	201	455	0	82.32	0	0.38	0	0.01	0	0	0.49	0	0.80	0
prob1_100_090_110_005_015_01	29270210	0.00	201	0	0.01	201	576	0	335.26	0	0.96	0	0.00	0	0	0.86	0	1.99	0
prob1_100_090_110_005_015_02	32016960	0.00	201	0	0.01	201	570	0	382.98	0	0.68	0	0.00	0	0	0.77	0	1.45	0
prob1_100_090_110_005_015_03	29971986	0.00	201	0	0.01	201	618	0	409.56	0	1.19	0	0.00	0	0	1.00	0	2.46	0
prob1_100_090_110_005_015_04	36959876	0.00	201	0	0.01	201	642	0	429.41	0	1.08	0	0.01	0	0	0.86	0	2.23	0
prob1_100_090_110_005_015_05	28056280	0.00	201	0	0.01	201	590	0	314.65	0	1.20	0	0.01	0	0	1.16	0	2.44	0
prob1_100_090_110_005_015_06	32548931	0.00	201	0	0.01	201	544	0	433.39	0	0.96	0	0.00	0	0	0.89	0	2.02	0
prob1_100_090_110_005_015_07	27770754	0.00	201	0	0.01	201	553	0	335.64	0	1.02	0	0.01	0	0	0.83	0	2.12	0
prob1_100_090_110_005_015_08	34915619	0.00	201	0	0.01	201	589	0	391.18	0	0.61	0	0.01	0	0	0.75	0	1.30	0
prob1_100_090_110_005_015_09	33763313	0.00	201	0	0.01	201	557	0	383.10	0	0.65	0	0.00	0	0	0.76	0	1.39	0
prob1_100_090_110_005_015_10	34003210	0.00	201	0	0.01	201	558	0	432.66	0	1.12	0	0.01	0	0	0.98	0	2.39	0
prob1_100_090_110_015_025_01	25168881	0.00	205	0	0.01	205	734	0	416.29	0	1.75	0	0.00	0	0	1.49	0	3.70	0
prob1_100_090_110_015_025_02	24901483	0.00	201	0	0.01	201	616	0	402.20	0	1.68	0	0.00	0	0	1.34	0	3.51	0
prob1_100_090_110_015_025_03	19631042	0.00	203	0	0.01	203	636	0	333.86	0	1.15	0	0.00	0	0	1.18	0	2.47	0
prob1_100_090_110_015_025_04	21742675	0.01	201	0	0.01	261	613	0	349.84	0	1.36	0	0.00	0	0	1.14	0	2.86	0
prob1_100_090_110_015_025_05	20756295	0.00	201	0	0.01	201	629	0	362.64	0	1.38	0	0.01	0	0	1.52	0	2.94	0
prob1_100_090_110_015_025_06	21053118	0.00	261	0	0.01	261	568	0	355.46	0	1.19	0	0.00	0	0	1.25	0	2.53	0
prob1_100_090_110_015_025_07	29127882	0.01	327	0	0.01	201	546	0	427.85	0	1.52	0	0.00	0	0	1.12	0	3.24	0
prob1_100_090_110_015_025_08	22494029	0.00	201	0	0.01	201	703	0	371.04	0	1.40	0	0.01	0	0	1.44	0	2.96	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob1_100_090_110_015_025_09	26982698	0.00	223	0	0.01	201	681	0	444.61	0	1.75	0	0.01	0	0	1.25	0	3.72	0
prob1_100_090_110_015_025_10	19177398	0.00	207	0	0.01	207	647	0	326.49	0	1.19	0	0.00	0	0	1.31	0	2.51	0
prob1_100_090_110_025_035_01	21300396	0.00	201	0	0.01	201	640	0	452.69	0	1.50	0	0.00	0	0	1.35	0	3.15	0
prob1_100_090_110_025_035_02	13877675	0.01	325	0	0.02	327	638	0	314.03	0	1.00	0	0.01	0	0	1.09	0	2.13	0
prob1_100_090_110_025_035_03	19724288	0.01	263	0	0.01	201	627	0	417.30	0	1.06	0	0.01	0	0	1.00	0	2.21	0
prob1_100_090_110_025_035_04	17794230	0.01	359	0	0.02	281	630	0	384.97	0	0.91	0	0.01	0	0	1.00	0	1.95	0
prob1_100_090_110_025_035_05	16022979	0.00	201	0	0.01	201	560	0	328.93	0	0.98	0	0.00	0	0	1.20	0	2.03	0
prob1_100_090_110_025_035_06	16375734	0.01	485	0	0.02	391	583	0	372.64	0	1.10	0	0.01	0	0	1.21	0	2.36	0
prob1_100_090_110_025_035_07	17934871	0.01	281	0	0.01	201	597	0	356.50	0	0.89	0	0.01	0	0	1.06	0	1.90	0
prob1_100_090_110_025_035_08	21584669	0.00	201	0	0.01	201	638	0	419.32	0	1.40	0	0.00	0	0	1.29	0	2.96	0
prob1_100_090_110_025_035_09	21309974	0.01	263	0	0.01	201	625	0	429.45	0	1.19	0	0.01	0	0	1.34	0	2.52	0
prob1_100_090_110_025_035_10	14037512	0.01	309	0	0.01	201	568	0	312.72	0	0.93	0	0.01	0	0	0.97	0	2.00	0
prob1_100_090_110_035_045_01	12552502	0.02	553	0	0.02	255	572	0	398.15	0	1.03	0	0.02	0	0	1.06	0	2.21	0
prob1_100_090_110_035_045_02	10972971	0.01	315	0	0.01	315	567	0	339.10	0	0.93	0	0.01	0	0	1.16	0	2.00	0
prob1_100_090_110_035_045_03	10618915	0.01	441	0	0.01	201	552	0	317.55	0	0.88	0	0.01	0	0	0.87	0	1.92	0
prob1_100_090_110_035_045_04	13073034	0.01	315	0	0.02	223	577	0	428.00	0	0.94	0	0.01	0	0	0.97	0	2.03	0
prob1_100_090_110_035_045_05	12207324	0.01	525	0	0.02	311	555	0	363.00	0	1.08	0	0.02	0	0	1.12	0	2.34	0
prob1_100_090_110_035_045_06	14231038	0.01	299	0	0.01	207	580	0	436.29	0	0.95	0	0.01	0	0	1.01	0	2.04	0
prob1_100_090_110_035_045_07	13761634	0.01	201	0	0.01	201	588	0	421.45	0	1.01	0	0.01	0	0	1.08	0	2.21	0
prob1_100_090_110_035_045_08	14781025	0.02	559	0	0.04	473	672	0	430.09	0	1.13	0	0.02	0	0	1.17	0	2.40	0
prob1_100_090_110_035_045_09	12979244	0.01	297	0	0.01	201	538	0	413.84	0	0.93	0	0.01	0	0	0.95	0	1.99	0
prob1_100_090_110_035_045_10	11294615	0.02	571	0	0.02	571	624	0	346.20	0	1.49	0	0.02	0	0	1.69	0	3.18	0
prob2_050_040_060_005_015_04	5494371	0.00	341	0	0.01	191	301	0	25.29	0	0.28	0	0.00	0	0	0.34	0	0.58	0
prob2_050_040_060_005_015_05	4454693	0.01	403	0	0.01	307	324	0	21.24	0	0.32	0	0.01	0	0	0.40	0	0.63	0
prob2_050_040_060_005_015_06	4495439	0.01	575	0	0.02	595	406	0	21.79	0	0.27	0	0.01	0	0	0.24	0	0.45	0
prob2_050_040_060_005_015_07	6023731	0.01	151	0	0.01	153	302	0	26.14	0	0.45	0	0.00	0	0	0.44	0	0.95	0
prob2_050_040_060_005_015_08	5703050	0.01	285	0	0.01	295	354	0	28.09	0	0.26	0	0.00	0	0	0.53	0	0.53	0
prob2_050_040_060_005_015_09	5705932	0.00	151	0	0.01	151	295	0	27.10	0	0.24	0	0.00	0	0	0.26	0	0.49	0
prob2_050_040_060_005_015_10	4889092	0.00	155	0	0.00	155	260	0	22.64	0	0.21	0	0.00	0	0	0.44	0	0.44	0
prob2_050_040_060_015_025_01	4970388	0.01	897	0	0.04	973	306	0	23.13	0	0.43	0	0.01	0	0	0.53	0	0.89	0
prob2_050_040_060_015_025_02	5000745	0.01	827	0	0.03	861	432	0	26.95	0	0.25	0	0.01	0	0	0.29	0	0.51	0
prob2_050_040_060_015_025_03	4946559	0.01	717	0	0.03	739	461	0	27.39	0	0.33	0	0.01	0	0	0.37	0	0.68	0
prob2_050_040_060_015_025_04	3738124	0.01	973	0	0.03	1041	413	0	23.01	0	0.39	0	0.01	0	0	0.49	0	0.82	0
prob2_050_040_060_015_025_05	4885998	0.00	299	0	0.01	307	355	0	27.13	0	0.29	0	0.01	0	0	0.33	0	0.60	0
prob2_050_040_060_015_025_06	4928644	0.00	101	0	0.00	101	252	0	27.21	0	0.18	0	0.00	0	0	0.20	0	0.38	0
prob2_050_040_060_015_025_07	3837284	0.01	317	0	0.01	321	354	0	20.79	0	0.25	0	0.00	0	0	0.28	0	0.54	0
prob2_050_040_060_015_025_08	4304523	0.02	1489	0	0.05	1463	500	0	25.44	0	0.22	0	0.02	0	0	0.24	0	0.45	0
prob2_050_040_060_015_025_09	4596061	0.00	229	0	0.01	101	284	0	27.84	0	0.31	0	0.00	0	0	0.25	0	0.47	0
prob2_050_040_060_015_025_10	3071622	0.00	163	0	0.00	163	266	0	23.20	0	0.28	0	0.03	0	0	0.19	0	0.36	0
prob2_050_040_060_025_035_01	4765302	0.03	1773	0	0.06	1849	517	0	28.64	0	0.28	0	0.00	0	0	0.29	0	0.57	0
prob2_050_040_060_025_035_02	3009079	0.02	1411	0	0.04	1459	529	0	21.03	0	0.22	0	0.02	0	0	0.25	0	0.46	0
prob2_050_040_060_025_035_03	2911373	0.00	403	0	0.01	183	325	0	20.53	0	0.22	0	0.01	0	0	0.25	0	0.45	0
prob2_050_040_060_025_035_04	3332806	0.01	597	0	0.02	607	414	0	25.00	0	0.35	0	0.01	0	0	0.41	0	0.70	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob2_050_040_060_025_035_05	3639814	0.01	603	0	0.02	421	336	0	24.57	0	0.35	0	0.01	0	0	0.41	0	0.73	0
prob2_050_040_060_025_035_06	4195755	0.01	565	0	0.02	607	443	0	27.47	0	0.37	0	0.01	0	0	0.33	0	0.79	0
prob2_050_040_060_025_035_07	2620699	0.02	1191	0	0.04	1095	425	0	18.24	0	0.25	0	0.02	0	0	0.29	0	0.51	0
prob2_050_040_060_025_035_08	3369342	0.01	467	0	0.01	481	346	0	25.11	0	0.24	0	0.01	0	0	0.24	0	0.47	0
prob2_050_040_060_025_035_09	3485082	0.04	2885	0	0.07	3021	563	0	27.50	0	0.32	0	0.04	0	0	0.34	0	0.65	0
prob2_050_040_060_025_035_10	3789648	0.01	651	0	0.02	693	462	0	29.45	0	0.38	0	0.01	0	0	0.47	0	0.79	0
prob2_050_040_060_035_045_01	2424303	0.01	741	0	0.02	781	397	0	23.63	0	0.22	0	0.01	0	0	0.24	0	0.44	0
prob2_050_040_060_035_045_02	2321179	0.02	1585	0	0.04	1429	384	0	19.91	0	0.35	0	0.02	0	0	0.36	0	0.66	0
prob2_050_040_060_035_045_03	2785118	0.01	1001	0	0.03	1051	511	0	24.64	0	0.33	0	0.01	0	0	0.35	0	0.72	0
prob2_050_040_060_035_045_04	2976206	0.08	4889	0	0.11	5083	571	0	27.70	0	0.47	0	0.07	0	0	0.52	0	0.89	0
prob2_050_040_060_035_045_05	2964223	0.07	4795	0	0.11	5185	484	0	27.02	0	0.43	0	0.07	0	0	0.46	0	0.89	0
prob2_050_040_060_035_045_06	2407998	0.02	1507	0	0.04	1315	381	0	21.41	0	0.40	0	0.02	0	0	0.46	0	0.82	0
prob2_050_040_060_035_045_07	2499829	0.01	939	0	0.03	977	459	0	24.65	0	0.36	0	0.01	0	0	0.37	0	0.73	0
prob2_050_040_060_035_045_08	2915020	0.00	333	0	0.01	337	374	0	25.56	0	0.19	0	0.00	0	0	0.25	0	0.40	0
prob2_050_040_060_035_045_09	2055848	0.01	627	0	0.02	633	392	0	19.56	0	0.23	0	0.01	0	0	0.28	0	0.50	0
prob2_050_040_060_035_045_10	3058279	0.01	431	0	0.01	265	364	0	25.86	0	0.31	0	0.01	0	0	0.31	0	0.67	0
prob2_050_040_060_045_015_01	9080083	0.05	2025	0	0.11	2189	583	0	87.90	0	0.87	0	0.05	0	0	0.93	0	1.82	0
prob2_050_040_060_045_015_02	8921715	0.01	331	0	0.01	337	421	0	79.95	0	0.71	0	0.01	0	0	0.80	0	1.49	0
prob2_050_040_060_045_015_03	9952548	0.00	101	0	0.00	101	292	0	95.79	0	0.38	0	0.00	0	0	0.44	0	0.80	0
prob2_050_040_060_045_015_04	10100331	0.00	161	0	0.01	163	366	0	87.80	0	0.60	0	0.00	0	0	0.67	0	1.26	0
prob2_050_040_060_045_015_05	10966761	0.00	101	0	0.00	105	309	0	95.02	0	0.49	0	0.00	0	0	0.55	0	1.01	0
prob2_050_040_060_045_015_06	9827410	0.00	101	0	0.00	101	307	0	91.94	0	0.51	0	0.00	0	0	0.60	0	1.07	0
prob2_050_040_060_045_015_07	13315860	0.01	377	0	0.02	395	395	0	94.77	0	0.71	0	0.01	0	0	0.80	0	1.49	0
prob2_050_040_060_045_015_08	10765148	0.01	101	0	0.00	101	333	0	113.08	0	0.45	0	0.00	0	0	0.51	0	0.92	0
prob2_050_040_060_045_015_09	11190739	0.00	113	0	0.00	117	331	0	108.01	0	0.71	0	0.00	0	0	0.86	0	1.42	0
prob2_050_040_060_045_015_10	9674505	0.01	239	0	0.01	193	350	0	89.33	0	0.55	0	0.01	0	0	0.64	0	1.15	0
prob2_050_090_110_005_015_01	9476074	0.03	1479	0	0.04	1657	592	0	109.10	0	0.90	0	0.03	0	0	1.07	0	1.84	0
prob2_050_090_110_005_015_02	9035608	0.11	4187	0	0.17	4513	884	0	104.67	0	0.96	0	0.11	0	0	1.09	0	1.97	0
prob2_050_090_110_005_015_03	9166972	0.17	6333	0	0.31	6783	889	0	106.71	0	0.84	0	0.17	0	0	0.94	0	1.73	0
prob2_050_090_110_005_015_04	8636601	0.00	101	0	0.00	101	286	0	92.47	0	0.43	0	0.00	0	0	0.58	0	0.91	0
prob2_050_090_110_005_015_05	9531849	0.23	8717	0	0.55	9195	950	0	102.72	0	1.02	0	0.24	0	0	1.09	0	2.08	0
prob2_050_090_110_005_015_06	7715590	0.01	311	0	0.01	137	354	0	88.79	0	0.53	0	0.01	0	0	0.64	0	1.12	0
prob2_050_090_110_005_015_07	8045646	0.01	639	0	0.02	655	528	0	94.25	0	0.69	0	0.01	0	0	0.78	0	1.43	0
prob2_050_090_110_005_015_08	9035608	0.11	4513	0	0.17	4513	884	0	104.67	0	0.96	0	0.11	0	0	1.09	0	1.97	0
prob2_050_090_110_005_015_09	9476074	0.03	1657	0	0.04	1657	592	0	89.33	0	0.64	0	0.03	0	0	0.78	0	1.15	0
prob2_050_090_110_005_015_10	10582239	0.01	541	0	0.04	567	654	0	115.87	0	0.68	0	0.01	0	0	0.74	0	1.43	0
prob2_050_090_110_015_025_01	7069229	0.07	3111	0	0.08	3419	644	0	76.94	0	0.92	0	0.08	0	0	0.99	0	1.91	0
prob2_050_090_110_015_025_02	6599716	0.01	657	0	0.02	725	543	0	78.79	0	0.69	0	0.01	0	0	0.73	0	1.43	0
prob2_050_090_110_015_025_03	8045646	0.01	639	0	0.02	655	528	0	94.25	0	0.69	0	0.01	1	0	0.78	0	1.43	0
prob2_050_090_110_015_025_04	9035608	0.11	4187	0	0.17	4513	884	0	104.67	0	0.96	0	0.11	0	0	1.09	0	1.97	0
prob2_050_090_110_015_025_05	9166972	0.17	6333	0	0.31	6783	889	0	106.71	0	0.84	0	0.17	0	0	0.94	0	1.73	0
prob2_050_090_110_015_025_06	8636601	0.00	101	0	0.00	101	286	0	92.47	0	0.43	0	0.00	0	0	0.58	0	0.91	0
prob2_050_090_110_015_025_07	9531849	0.23	8717	0	0.55	9195	950	0	102.72	0	1.02	0	0.24	0	0	1.09	0	2.08	0
prob2_050_090_110_015_025_08	7715590	0.01	541	0	0.04	567	654	0	115.87	0	0.68	0	0.01	0	0	0.74	0	1.43	0
prob2_050_090_110_015_025_09	6599716	0.01	657	0	0.02	725	543	0	78.79	0	0.69	0	0.01	0	0	0.73	0	1.43	0
prob2_050_090_110_015_025_10	7069229	0.07	3111	0	0.08	3419	644	0	76.94	0	0.92	0	0.08	0	0	0.99	0	1.91	0
prob2_050_090_110_025_035_01	6197305	4.02	146783	0	4.59	154709	1004	0	90.97	0	0.90	0	4.16	0	0	0.95	0	1.87	0
prob2_050_090_110_025_035_02	5955928	0.00	257	0	0.01	265	429	0	82.47	0	0.59	0	0.01	0	0	0.69	0	1.20	0
prob2_050_090_110_025_035_03	7253904	0.09	3861	0	0.11	4231	746	0	96.27	0	0.83	0	0.10	0	0	0.91	0	1.76	0
prob2_050_090_110_025_035_04	6711203	0.04	1565	0	0.05	1219	611	0	91.44	0	0.67	0	0.04	0	0	0.67	0	1.38	0
prob2_050_090_110_025_035_05	7126025	0.02	759	0	0.03	669	486	0	99.97	0	0.71	0	0.02	0	0	0.75	0	1.51	0
prob2_050_090_110_025_035_06	6446450	0.12	4207	0	0.11	4479	734	0	92.13	0	0.77	0	0.11	0	0	0.80	0	1.61	0
prob2_050_090_110_025_035_07	8000206	0.02	621	0	0.03	479	509	0	110.88	0	0.63	0	0.02	0	0	0.67	0	1.32	0
prob2_050_090_110_025_035_08	7474913	0.20	7187	0	0.27	7447	825	0	102.97	0	0.87	0	0.21	0	0	0.96	0	1.81	0
prob2_050_090_110_025_035_09	6322561	0.01	261	0	0.01	271	432	0	88.14	0	0.57	0	0.01	0	0	0.63	0	1.18	0
prob2_050_090_110_025_035_10	7474370	0.14	5225	0	0.16	5593	840	0	102.79	0	0.76	0	0.14	0	0	0.88	0	1.56	0

Instance	opt	Model M1 time	Model M1 #nodes	Model M1 TL	Model M3 time	Model M3 #nodes	Model M3 #cols	Model M3 TL	DP time	DP TL	DSS-1TH time	DSS-1TH TL	FMT time	FMT best	FMT TL	DSS-4TH time	DSS-4TH TL	DSS+DP time	DSS+DP TL
prob2_050_090_110_035_045_01	5446753	0.01	493	0	0.01	539	479	0	93.05	0	0.70	0	0.01	0	0	0.72	0	1.46	0
prob2_050_090_110_035_045_02	5673672	9.87	343025	0	8.82	361643	1003	0	101.89	0	1.12	0	9.23	1	0	1.13	0	2.32	0
prob2_050_090_110_035_045_03	4661808	0.13	5059	0	0.13	5049	624	0	78.02	0	0.89	0	0.13	0	0	0.91	0	1.84	0
prob2_050_090_110_035_045_04	4405311	0.03	1217	0	0.04	1315	587	0	81.75	0	0.65	0	0.03	0	0	0.77	0	1.38	0
prob2_050_090_110_035_045_05	5757187	0.00	101	0	0.00	101	304	0	97.45	0	0.44	0	0.00	0	0	0.51	0	0.93	0
prob2_050_090_110_035_045_06	5657308	0.02	905	0	0.03	763	409	0	104.70	0	0.79	0	0.02	0	0	0.78	0	1.67	0
prob2_050_090_110_035_045_07	4515421	0.05	2223	0	0.06	2447	685	0	84.08	0	0.89	0	0.05	0	0	1.03	0	1.84	0
prob2_050_090_110_035_045_08	4532717	13.27	484675	0	11.12	502899	1100	0	82.80	0	1.16	0	11.71	1	0	1.32	0	2.42	0
prob2_050_090_110_035_045_09	5391675	0.00	247	0	0.01	251	442	0	102.74	0	0.59	0	0.01	0	0	0.69	0	1.24	0
prob2_050_090_110_035_045_10	4512175	1.81	67839	0	1.81	75221	955	0	86.74	0	1.01	0	1.87	0	0	1.13	0	2.10	0
prob2_100_040_060_005_015_01	9002581	0.00	201	0	0.01	201	458	0	78.60	0	0.41	0	0.00	0	0	0.47	0	0.86	0
prob2_100_040_060_005_015_02	7606458	0.01	443	0	0.01	392	392	0	73.62	0	0.37	0	0.01	0	0	0.42	0	0.75	0
prob2_100_040_060_005_015_03	8323726	0.01	523	0	0.01	217	432	0	76.94	0	0.44	0	0.01	0	0	0.51	0	0.92	0
prob2_100_040_060_005_015_04	8935165	0.01	201	0	0.01	201	408	0	87.49	0	0.37	0	0.01	0	0	0.46	0	0.79	0
prob2_100_040_060_005_015_05	10568922	0.00	313	0	0.01	315	485	0	96.36	0	0.50	0	0.00	0	0	0.61	0	1.09	0
prob2_100_040_060_005_015_06	10125878	0.01	593	0	0.02	307	509	0	98.20	0	0.47	0	0.02	0	0	0.55	0	1.01	0
prob2_100_040_060_005_015_07	8855858	0.01	575	0	0.02	577	475	0	80.77	0	0.43	0	0.01	0	0	0.51	0	0.91	0
prob2_100_040_060_005_015_08	8183123	0.01	559	0	0.01	201	409	0	80.32	0	0.42	0	0.01	0	0	0.49	0	0.86	0
prob2_100_040_060_005_015_09	9572458	0.02	517	0	0.02	533	507	0	93.51	0	0.53	0	0.01	0	0	0.63	0	1.12	0
prob2_100_040_060_005_015_10	12443206	0.01	373	0	0.01	375	494	0	116.84	0	0.57	0	0.01	0	0	0.71	0	1.21	0
prob2_100_040_060_015_025_01	10225754	0.06	2503	0	0.18	2295	668	0	111.75	0	0.45	0	0.06	0	0	0.56	0	0.94	0
prob2_100_040_060_015_025_02	7105775	0.01	571	0	0.01	205	467	0	77.39	0	0.55	0	0.01	0	0	0.63	0	1.11	0
prob2_100_040_060_015_025_03	7639612	0.02	897	0	0.04	901	758	0	94.20	0	0.44	0	0.02	0	0	0.61	0	0.92	0
prob2_100_040_060_015_025_04	6971511	0.04	2569	0	0.08	2655	727	0	82.21	0	0.71	0	0.05	0	0	0.84	0	1.46	0
prob2_100_040_060_015_025_05	7267781	0.03	1487	0	0.06	1539	610	0	81.88	0	0.55	0	0.03	0	0	0.69	0	1.15	0
prob2_100_040_060_015_025_06	7996330	0.02	1243	0	0.04	1259	649	0	88.57	0	0.60	0	0.02	0	0	0.63	0	1.14	0
prob2_100_040_060_015_025_07	6789535	0.03	1199	0	0.04	781	642	0	98.77	0	0.58	0	0.03	0	0	0.68	0	1.24	0
prob2_100_040_060_015_025_08	6017995	0.02	1121	0	0.06	1167	646	0	83.89	0	0.67	0	0.02	0	0	0.74	0	1.42	0
prob2_100_040_060_015_025_09	6926571	0.01	695	0	0.02	701	606	0	100.27	0	0.57	0	0.01	0	0	0.71	0	1.19	0
prob2_100_040_060_015_025_10	7378893	0.02	805	0	0.03	493	602	0	105.04	0	0.74	0	0.02	0	0	0.59	0	1.46	0
prob2_100_040_060_025_035_01	6947876	0.01	751	0	0.02	313	506	0	93.70	0	0.53	0	0.01	0	0	0.58	0	0.99	0
prob2_100_040_060_025_035_02	7725160	0.03	1405	0	0.05	1421	701	0	116.26	0	0.67	0	0.03	0	0	0.83	0	1.38	0
prob2_100_040_060_025_035_03	7827643	0.01	701	0	0.01	201	474	0	105.43	0	0.38	0	0.01	0	0	0.46	0	0.79	0
prob2_100_040_060_025_035_04	5688486	0.01	785	0	0.03	807	611	0	76.50	0	0.76	0	0.01	0	0	0.90	0	1.60	0
prob2_100_040_060_025_035_05	6888870	0.04	705	0	0.04	713	601	0	103.20	0	0.70	0	0.02	0	0	0.82	0	1.48	0
prob2_100_040_060_025_035_06	7249250	0.05	2163	0	0.09	1943	856	0	99.45	0	0.55	0	0.05	0	0	0.64	0	1.16	0
prob2_100_040_060_025_035_07	5239694	0.19	8547	0	0.37	9325	816	0	91.33	0	1.01	0	0.19	0	0	0.96	0	1.97	0
prob2_100_040_060_025_035_08	4892815	0.06	2891	0	0.12	2327	677	0	83.43	0	0.68	0	0.07	0	0	0.75	0	1.44	0
prob2_100_040_060_025_035_09	6903780	0.11	4263	0	0.23	3925	715	0	112.53	0	0.79	0	0.11	0	0	0.87	0	1.66	0
prob2_100_040_060_025_035_10	4305444	0.06	3289	0	0.11	2855	665	0	78.19	0	1.65	0	0.07	0	0	1.09	0	3.48	0
prob2_100_040_060_035_045_05	4793753	0.01	443	0	0.02	447	501	0	83.97	0	0.48	0	0.01	0	0	0.58	0	0.99	0
prob2_100_040_060_035_045_06	6342967	0.03	1383	0	0.07	1405	687	0	115.49	0	0.70	0	0.03	0	0	0.85	0	1.47	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob2_100_040_060_035_045_07	5108960	0.02	1049	0	0.01	343	528	0	88.08	0	0.35	0	0.02	1	0	0.43	0	0.72	0
prob2_100_040_060_035_045_08	5244278	0.08	3415	0	0.17	3641	711	0	86.97	0	0.66	0	0.09	0	0	0.81	0	1.39	0
prob2_100_040_060_035_045_09	47188856	0.04	1489	0	0.07	1355	584	0	82.15	0	0.58	0	0.04	0	0	0.66	0	1.21	0
prob2_100_040_060_035_045_10	6006896	0.40	15071	0	0.70	15557	1020	0	109.87	0	0.84	0	0.42	0	0	0.81	0	1.74	0
prob2_100_090_110_005_015_01	21786202	0.01	201	0	0.01	201	542	0	426.71	0	1.22	0	0.01	0	0	1.27	0	2.61	0
prob2_100_090_110_005_015_02	19021696	0.17	3717	0	0.50	3687	829	0	343.82	0	1.31	0	0.17	0	0	1.41	0	2.76	0
prob2_100_090_110_005_015_03	19183516	0.01	325	0	0.02	325	574	0	333.72	0	1.10	0	0.01	0	0	1.14	0	2.31	0
prob2_100_090_110_005_015_04	17642587	0.03	993	0	0.05	641	640	0	327.59	0	1.57	0	0.04	0	0	1.83	0	3.37	0
prob2_100_090_110_005_015_05	25126497	0.01	349	0	0.02	201	596	0	431.72	0	1.15	0	0.01	0	0	1.09	0	2.44	0
prob2_100_090_110_005_015_06	22416964	0.23	4417	0	0.65	4491	940	0	438.28	0	1.62	0	0.24	0	0	1.72	0	3.29	0
prob2_100_090_110_005_015_07	19307546	0.06	1295	0	0.13	1399	644	0	369.47	0	1.79	0	0.06	0	0	2.08	0	3.74	0
prob2_100_090_110_005_015_08	16639295	0.01	201	0	0.01	201	498	0	318.22	0	0.92	0	0.01	0	0	0.97	0	1.97	0
prob2_100_090_110_005_015_09	19179158	1.51	27825	0	3.87	29395	958	0	377.08	0	1.93	0	1.58	0	0	1.93	0	4.42	0
prob2_100_090_110_005_015_10	26505908	0.01	203	0	0.01	203	584	0	448.55	0	1.31	0	0.01	0	0	1.31	0	2.81	0
prob2_100_090_110_015_025_01	19042433	0.01	203	0	0.01	203	572	0	424.59	0	0.99	0	0.01	0	0	0.86	0	2.11	0
prob2_100_090_110_015_025_02	19332675	1.22	21735	0	2.91	22677	1231	0	431.79	0	1.77	0	1.27	0	0	1.85	0	3.80	0
prob2_100_090_110_015_025_03	16957540	0.88	15513	0	1.92	15973	984	0	362.54	0	1.42	0	0.92	0	0	1.49	0	3.01	0
prob2_100_090_110_015_025_04	18061115	5.30	91857	0	10.52	96195	1144	0	384.75	0	1.89	0	5.53	0	0	1.79	0	4.04	0
prob2_100_090_110_015_025_05	19090896	1.57	27611	0	3.36	27939	1014	0	410.96	0	1.40	0	1.64	0	0	1.28	0	3.00	0
prob2_100_090_110_015_025_06	15012791	0.04	1139	0	0.05	1163	756	0	327.13	0	1.24	0	0.04	0	0	1.32	0	2.59	0
prob2_100_090_110_015_025_07	17755727	0.07	1343	0	0.13	1201	698	0	376.80	0	1.27	0	0.07	0	0	1.30	0	2.72	0
prob2_100_090_110_015_025_08	15113753	0.09	1841	0	0.14	1301	797	0	336.20	0	1.27	0	0.09	0	0	1.30	0	2.72	0
prob2_100_090_110_015_025_09	18878187	2.04	35439	0	4.67	36811	1548	0	439.37	0	1.93	0	2.12	0	0	1.70	0	4.10	0
prob2_100_090_110_015_025_10	18741171	5.84	102763	0	13.41	109011	1386	0	428.54	0	2.25	0	6.07	0	0	1.77	0	4.75	0
prob2_100_090_110_025_035_01	16441961	0.02	569	0	0.03	583	695	0	426.57	0	1.50	0	0.02	0	0	1.51	0	3.19	0
prob2_100_090_110_025_035_02	13076912	0.04	941	0	0.06	757	854	0	380.99	0	1.74	0	0.04	0	0	1.59	0	3.73	0
prob2_100_090_110_025_035_03	11533841	39.42	748167	0	41.84	820123	1185	0	331.89	0	3.86	0	40.65	0	0	3.10	0	8.17	0
prob2_100_090_110_025_035_04	11595542	3.12	54449	0	2.81	56631	1291	0	343.64	0	1.37	0	2.93	1	0	1.35	0	2.90	0
prob2_100_090_110_025_035_05	13574049	0.17	3561	0	0.23	3917	1047	0	417.89	0	1.96	0	0.17	0	0	1.80	0	4.22	0
prob2_100_090_110_025_035_06	11657513	0.56	9835	0	0.94	9585	1264	0	335.81	0	1.40	0	0.59	0	0	1.40	0	3.01	0
prob2_100_090_110_025_035_07	11556641	0.05	1173	0	0.08	1185	754	0	335.13	0	1.28	0	0.05	0	0	1.50	0	2.73	0
prob2_100_090_110_025_035_08	12163539	0.17	3905	0	0.23	4101	1061	0	323.75	0	1.65	0	0.18	0	0	1.80	0	3.47	0
prob2_100_090_110_025_035_09	14857980	0.09	1761	0	0.16	1795	890	0	454.71	0	2.25	0	0.09	0	0	1.58	0	4.83	0
prob2_100_090_110_025_035_10	11813607	0.28	5309	0	0.45	4607	981	0	357.67	0	1.04	0	0.30	0	0	1.05	0	2.23	0
prob2_100_090_110_035_045_01	11609596	0.01	201	0	0.01	201	527	0	429.83	0	1.08	0	0.01	0	0	1.07	0	2.30	0
prob2_100_090_110_035_045_02	8984540	7.41	133561	0	8.17	139559	1456	0	334.86	0	2.14	0	7.68	0	0	2.10	0	4.53	0
prob2_100_090_110_035_045_03	8178729	1.19	22283	0	1.49	23005	1459	0	323.82	0	3.34	0	1.24	0	0	2.49	0	7.08	0
prob2_100_090_110_035_045_04	9544555	22.99	383569	0	22.75	395355	1735	0	320.00	0	1.93	0	23.77	0	0	1.69	0	4.10	0
prob2_100_090_110_035_045_05	12893140	2.33	37155	0	2.71	37905	1358	0	481.33	0	1.32	0	2.43	0	0	1.11	0	2.85	0
prob2_100_090_110_035_045_06	8977521	4.42	75013	0	5.69	75531	1334	0	345.88	0	1.23	0	4.60	0	0	1.26	0	2.63	0
prob2_100_090_110_035_045_07	9955370	0.33	6083	0	0.52	5807	1059	0	366.86	0	1.48	0	0.35	0	0	1.53	0	3.17	0
prob2_100_090_110_035_045_08	11183535	8.09	139015	0	12.05	142691	1411	0	377.46	0	2.08	0	8.43	0	0	1.93	0	4.43	0
prob2_100_090_110_035_045_09	12578011	0.04	899	0	0.06	901	899	0	406.78	0	1.52	0	0.04	0	0	1.22	0	3.23	0
prob2_100_090_110_035_045_10	9804896	0.03	853	0	0.03	861	670	0	332.65	0	1.39	0	0.03	0	0	1.17	0	2.95	0
prob3_050_040_060_005_015_01	53334	0.01	753	0	0.01	785	236	0	0.24	0	0.44	0	0.01	0	0	0.45	0	0.52	0
prob3_050_040_060_005_015_02	66478	0.28	20443	0	0.24	21451	233	0	0.28	0	1.04	0	0.24	1	0	0.82	0	0.59	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob3_050_040_060_005_015_03	81773	0.06	4133	0	0.07	4649	211	0	0.30	0	0.47	0	0.06	0	0	0.47	0	0.64	0
prob3_050_040_060_005_015_04	53373	0.10	6481	0	0.08	6869	195	0	0.24	0	0.51	0	0.08	2	0	0.54	0	0.52	0
prob3_050_040_060_005_015_05	50498	0.08	5249	0	0.07	5439	221	0	0.22	0	1.10	0	0.07	1	0	0.79	0	0.47	0
prob3_050_040_060_005_015_06	71183	0.08	5119	0	0.07	5469	173	0	0.30	0	1.41	0	0.06	1	0	0.94	0	0.63	0
prob3_050_040_060_005_015_07	70106	0.05	3029	0	0.04	3239	194	0	0.27	0	0.44	0	0.05	1	0	0.41	0	0.58	0
prob3_050_040_060_005_015_08	49607	0.49	37177	0	0.38	39487	244	0	0.21	0	3.43	0	0.20	2	0	1.49	0	0.46	0
prob3_050_040_060_005_015_09	75933	0.03	1729	0	0.03	1803	217	0	0.32	0	0.93	0	0.03	0	0	0.72	0	0.68	0
prob3_050_040_060_005_015_10	68110	0.53	39487	0	0.46	43109	232	0	0.29	0	4.71	0	0.30	2	0	2.76	0	0.63	0
prob3_050_040_060_015_025_01	43232	0.12	7729	0	0.10	8173	246	0	0.23	0	0.52	0	0.09	1	0	0.47	0	0.50	0
prob3_050_040_060_015_025_02	54045	0.39	28520	0	0.31	30108	235	0	0.28	0	0.72	0	0.28	2	0	0.57	0	0.60	0
prob3_050_040_060_015_025_03	66922	0.02	1299	0	0.03	1359	223	0	0.30	0	0.40	0	0.02	0	0	0.37	0	0.65	0
prob3_050_040_060_015_025_04	43252	0.03	1784	0	0.02	1850	200	0	0.24	0	0.51	0	0.02	1	0	0.48	0	0.52	0
prob3_050_040_060_015_025_05	41222	0.34	26575	0	0.26	28527	243	0	0.21	0	1.01	0	0.21	2	0	0.92	0	0.46	0
prob3_050_040_060_015_025_06	57570	0.06	3845	0	0.05	4145	182	0	0.30	0	0.88	0	0.05	1	0	0.65	0	0.63	0
prob3_050_040_060_015_025_07	57100	0.54	40419	0	0.43	43041	205	0	0.27	0	4.05	0	0.27	2	0	1.96	0	0.60	0
prob3_050_040_060_015_025_08	40196	0.22	17179	0	0.20	18809	236	0	0.21	0	1.94	0	0.20	1	0	1.30	0	0.46	0
prob3_050_040_060_015_025_09	62348	0.76	51973	0	0.53	53463	230	0	0.31	0	0.48	0	0.32	2	0	0.39	0	0.68	0
prob3_050_040_060_015_025_10	55225	0.34	23850	0	0.28	25206	256	0	0.30	0	0.87	0	0.29	1	0	0.78	0	0.62	0
prob3_050_040_060_025_035_01	34658	0.22	16075	0	0.17	16919	251	0	0.23	0	1.85	0	0.17	1	0	0.98	0	0.50	0
prob3_050_040_060_025_035_02	43520	0.07	4299	0	0.05	4663	180	0	0.27	0	0.67	0	0.05	1	0	0.47	0	0.59	0
prob3_050_040_060_025_035_03	54380	0.11	6981	0	0.10	7297	242	0	0.30	0	0.98	0	0.10	1	0	0.67	0	0.64	0
prob3_050_040_060_025_035_04	34669	0.11	6799	0	0.08	7399	255	0	0.24	0	0.70	0	0.08	1	0	0.51	0	0.44	0
prob3_050_040_060_025_035_05	33331	0.67	52991	0	0.48	54783	269	0	0.22	0	0.78	0	0.21	2	0	0.72	0	0.47	0
prob3_050_040_060_025_035_06	46049	0.30	21706	0	0.25	23076	238	0	0.30	0	2.26	0	0.26	1	0	1.30	0	0.64	0
prob3_050_040_060_025_035_07	46156	0.06	4021	0	0.05	4317	186	0	0.27	0	0.59	0	0.05	1	0	0.53	0	0.58	0
prob3_050_040_060_025_035_08	32230	0.19	13885	0	0.15	14471	266	0	0.21	0	0.59	0	0.15	1	0	0.47	0	0.46	0
prob3_050_040_060_025_035_09	43655	0.51	38805	0	0.43	41637	247	0	0.30	0	1.47	0	0.30	2	0	0.99	0	0.64	0
prob3_050_040_060_025_035_10	27316	0.17	11201	0	0.12	11753	275	0	0.24	0	0.50	0	0.12	1	0	0.54	0	0.52	0
prob3_050_040_060_035_045_01	26532	0.11	7563	0	0.08	7745	263	0	0.22	0	0.46	0	0.09	1	0	0.40	0	0.48	0
prob3_050_040_060_035_045_02	44286	0.93	68031	0	0.75	73087	266	0	0.29	0	0.80	0	0.29	2	0	0.63	0	0.63	0
prob3_050_040_060_035_045_03	50766	0.64	46016	0	0.46	50204	212	0	0.32	0	1.08	0	0.32	2	0	0.78	0	0.67	0
prob3_050_040_060_035_045_04	34480	1.11	83313	0	0.87	88199	292	0	0.28	0	0.99	0	0.28	2	0	0.71	0	0.59	0
prob3_050_040_060_035_045_05	27297	0.04	2543	0	0.04	2733	265	0	0.23	0	0.39	0	0.04	1	0	0.45	0	0.52	0
prob3_050_040_060_035_045_06	36187	0.41	29975	0	0.29	31263	227	0	0.30	0	0.52	0	0.30	2	0	0.63	0	0.58	0
prob3_050_040_060_035_045_07	36799	0.31	22057	0	0.23	22745	247	0	0.27	0	0.51	0	0.24	1	0	0.58	0	0.43	0
prob3_050_040_060_035_045_08	25399	0.01	491	0	0.01	491	255	0	0.21	0	0.21	0	0.01	0	0	0.22	0	0.38	0
prob3_050_040_060_035_045_09	40806	0.32	21739	0	0.24	22065	282	0	0.31	0	0.49	0	0.25	1	0	0.38	0	0.66	0
prob3_050_040_060_035_045_10	34895	0.03	1977	0	0.03	2017	208	0	0.29	0	0.42	0	0.03	1	0	0.37	0	0.62	0
prob3_050_090_110_005_015_01	149542	124.56	4969797	0	67.68	5117025	314	0	1.15	0	1.29	0	1.19	2	0	1.21	0	2.41	0
prob3_050_090_110_005_015_02	159325	17.04	657369	0	9.79	720615	259	0	1.20	0	1.95	0	1.23	2	0	1.81	0	2.48	0
prob3_050_090_110_005_015_03	119307	210.19	7601911	0	102.45	8476021	273	0	0.93	0	1.01	0	0.96	2	0	0.92	0	1.93	0
prob3_050_090_110_005_015_04	160436	0.36	13467	0	0.22	13813	270	0	1.25	0	1.03	0	0.23	1	0	0.88	0	2.07	0
prob3_050_090_110_005_015_05	142054	0.01	464	0	0.01	466	213	0	1.12	0	0.52	0	0.01	0	0	0.61	0	1.06	0
prob3_050_090_110_005_015_06	146470	1.02	36493	0	0.61	38195	268	0	1.22	0	1.71	0	0.64	1	0	1.10	0	2.52	0
prob3_050_090_110_005_015_07	160632	3.56	135197	0	2.13	149705	262	0	1.22	0	0.86	0	1.26	2	0	0.79	0	1.73	0
prob3_050_090_110_005_015_08	158249	1.97	74189	0	1.12	77851	257	0	1.14	0	1.35	0	1.16	1	0	1.01	0	2.37	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob3_050_090_110_005_015_09	159034	27.68	1072857	0	15.55	1139651	293	0	1.23	0	2.50	0	1.26	2	0	1.75	0	2.52	0
prob3_050_090_110_005_015_10	159881	10.92	410097	0	6.59	451799	279	0	1.16	0	1.61	0	1.20	2	0	0.95	0	2.41	0
prob3_050_090_110_015_025_01	86269	0.13	5045	0	0.07	5137	287	0	0.84	0	0.49	0	0.08	1	0	0.56	0	0.95	0
prob3_050_090_110_015_025_02	98542	0.10	4103	0	0.06	4247	279	0	0.94	0	0.99	0	0.06	1	0	1.01	0	1.94	0
prob3_050_090_110_015_025_03	98874	0.23	8675	0	0.13	8901	299	0	1.01	0	6.76	0	0.14	1	0	3.29	0	2.08	0
prob3_050_090_110_015_025_04	106776	34.47	1295605	0	18.03	1368449	309	0	1.09	0	1.22	0	1.12	2	0	0.98	0	2.26	0
prob3_050_090_110_015_025_05	124249	140.18	5260661	0	79.26	5790459	277	0	1.19	0	2.26	0	1.23	2	0	1.47	0	2.44	0
prob3_050_090_110_015_025_06	101871	0.05	1799	0	0.03	1853	276	0	0.94	0	0.74	0	0.03	1	0	0.75	0	1.50	0
prob3_050_090_110_015_025_07	110309	9.54	360257	0	4.95	385941	277	0	0.98	0	1.52	0	1.01	2	0	1.17	0	2.03	0
prob3_050_090_110_015_025_08	124830	2.55	94559	0	1.50	98811	293	0	1.24	0	1.56	0	1.28	2	0	1.46	0	2.55	0
prob3_050_090_110_015_025_09	80819	0.49	18348	0	0.22	18694	214	0	0.84	0	0.78	0	0.23	1	0	0.66	0	1.57	0
prob3_050_090_110_015_025_10	104194	0.08	2899	0	0.05	3007	287	0	1.00	0	1.09	0	0.05	1	0	0.91	0	2.07	0
prob3_050_090_110_025_035_01	78542	0.94	36039	0	0.49	37419	334	0	0.96	0	1.22	0	0.51	1	0	0.77	0	1.99	0
prob3_050_090_110_025_035_02	105092	1200.00	477733915	1	738.76	64296835	282	0	1.19	0	2.73	0	1.23	2	0	2.56	0	2.47	0
prob3_050_090_110_025_035_03	82813	646.50	25465783	0	283.36	267344517	287	0	1.02	0	1.92	0	1.05	2	0	1.70	0	2.11	0
prob3_050_090_110_025_035_04	73284	401.60	15921971	0	156.10	16441033	299	0	0.84	0	2.38	0	0.87	2	0	2.20	0	1.75	0
prob3_050_090_110_025_035_05	68826	0.13	5221	0	0.07	5477	258	0	0.87	0	0.69	0	0.08	1	0	0.68	0	1.36	0
prob3_050_090_110_025_035_06	84243	0.31	13239	0	0.21	15289	290	0	1.02	0	0.98	0	0.22	1	0	0.80	0	1.95	0
prob3_050_090_110_025_035_07	87521	0.02	941	0	0.02	987	223	0	1.07	0	0.72	0	0.02	1	0	0.62	0	1.44	0
prob3_050_090_110_025_035_08	84310	32.96	1300328	0	16.05	1355986	318	0	1.07	0	1.06	0	1.10	2	0	0.80	0	2.13	0
prob3_050_090_110_025_035_09	96062	0.13	4857	0	0.07	4955	234	0	1.08	0	0.96	0	0.07	1	0	0.73	0	1.84	0
prob3_050_090_110_025_035_10	79575	0.01	429	0	0.01	441	283	0	1.02	0	0.54	0	0.01	1	0	0.60	0	1.10	0
prob3_050_090_110_035_045_01	64952	0.14	5303	0	0.08	5473	311	0	1.08	0	0.43	0	0.03	1	0	0.48	0	0.87	0
prob3_050_090_110_035_045_02	64338	27.81	1102949	0	12.59	1135719	350	0	0.93	0	1.89	0	0.09	1	0	0.80	0	1.93	0
prob3_050_090_110_035_045_03	67448	0.25	9963	0	0.14	10829	260	0	1.07	0	1.15	0	0.96	2	0	0.81	0	2.18	0
prob3_050_090_110_035_045_04	61654	9.17	359867	0	4.29	373187	346	0	0.93	0	0.99	0	0.15	1	0	0.81	0	1.94	0
prob3_050_090_110_035_045_05	64131	0.08	3307	0	0.04	3355	253	0	0.95	0	0.62	0	0.05	1	0	0.62	0	1.26	0
prob3_050_090_110_035_045_06	75034	0.20	7743	0	0.10	8123	258	0	1.07	0	1.12	0	0.11	1	0	1.05	0	2.22	0
prob3_050_090_110_035_045_07	71922	104.27	3982765	0	47.84	4157601	326	0	1.11	0	0.98	0	1.14	2	0	0.85	0	1.96	0
prob3_050_090_110_035_045_08	84435	1.34	51463	0	0.76	54441	320	0	1.18	0	0.85	0	0.79	1	0	0.69	0	1.71	0
prob3_050_090_110_035_045_09	58091	0.09	4053	0	0.06	4295	273	0	0.81	0	0.87	0	0.06	1	0	0.81	0	1.70	0
prob3_050_090_110_035_045_10	141557	3.59	127035	0	3.00	135003	321	0	1.07	0	1.91	0	1.11	2	0	1.60	0	2.23	0
prob3_100_040_060_005_015_01	105576	0.80	27770	0	0.56	28600	335	0	0.84	0	4.83	0	0.59	1	0	2.98	0	1.76	0
prob3_100_040_060_005_015_02	121527	0.01	416	0	0.01	416	303	0	0.90	0	0.52	0	0.01	0	0	0.57	0	0.95	0
prob3_100_040_060_005_015_03	112463	0.92	33277	0	0.72	34927	345	0	0.89	0	3.49	0	0.76	1	0	2.65	0	1.92	0
prob3_100_040_060_005_015_04	119047	0.37	13202	0	0.28	13750	327	0	0.94	0	1.42	0	0.29	1	0	1.09	0	1.87	0
prob3_100_040_060_005_015_05	110440	0.46	16783	0	0.33	17287	332	0	0.81	0	1.89	0	0.35	1	0	1.03	0	1.70	0
prob3_100_040_060_005_015_06	150224	0.46	15505	0	0.40	16101	371	0	1.22	0	2.99	0	0.41	1	0	1.89	0	2.52	0
prob3_100_040_060_005_015_07	114299	0.92	30937	0	0.62	31901	324	0	0.85	0	1.88	0	0.67	1	0	1.49	0	1.76	0
prob3_100_040_060_005_015_08	147092	3.72	130107	0	3.18	136681	375	0	1.19	0	61.66	0	1.22	2	0	26.66	0	2.44	0
prob3_100_040_060_005_015_09	120182	0.86	29229	0	0.65	30223	367	0	0.95	0	7.42	0	0.69	1	0	3.97	0	1.96	0
prob3_100_040_060_005_015_10	101318	0.48	16793	0	0.37	17557	368	0	1.01	0	2.75	0	0.39	1	0	1.37	0	2.08	0
prob3_100_040_060_015_025_01	98557	0.17	5776	0	0.11	5864	292	0	0.90	0	0.83	0	0.11	1	0	0.61	0	1.68	0
prob3_100_040_060_015_025_02	133474	0.99	34634	0	0.86	37430	349	0	1.18	0	14.18	0	0.90	1	0	7.65	0	2.44	0
prob3_100_040_060_015_025_03	104111	0.85	28694	0	0.61	29188	398	0	1.06	0	1.13	0	0.64	1	0	1.08	0	2.18	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob3_100_040_060_015_025_05	103822	0.08	2841	0	0.06	2913	294	0	1.00	0	0.58	0	0.06	1	0	0.58	0	1.18	0
prob3_100_040_060_015_025_06	126907	3.62	120094	0	2.53	124936	306	0	1.21	0	0.95	0	1.24	2	0	1.08	0	1.92	0
prob3_100_040_060_015_025_07	89239	15.68	524675	0	10.42	546599	361	0	0.87	0	0.79	0	0.90	2	0	3.32	0	1.83	0
prob3_100_040_060_015_025_08	94065	0.30	10943	0	0.24	11281	361	0	0.92	0	2.81	0	0.25	1	0	1.79	0	1.92	0
prob3_100_040_060_015_025_09	133449	0.44	15979	0	0.40	17067	369	0	1.21	0	1.39	0	0.42	1	0	1.19	0	2.50	0
prob3_100_040_060_025_015_10	103946	0.73	24461	0	0.53	25013	363	0	1.01	0	5.41	0	0.55	1	0	2.27	0	2.11	0
prob3_100_040_060_025_035_01	81569	12.45	437237	0	9.43	459325	386	0	1.01	0	3.92	0	1.04	2	0	2.23	0	2.07	0
prob3_100_040_060_025_035_02	79586	5.24	177041	0	3.07	179175	384	0	0.90	0	0.85	0	0.93	2	0	0.70	0	1.71	0
prob3_100_040_060_025_035_03	108400	0.86	27947	0	0.56	28375	334	0	1.18	0	1.39	0	0.59	1	0	0.87	0	2.43	0
prob3_100_040_060_025_035_04	83829	0.29	10275	0	0.22	10555	386	0	1.06	0	1.98	0	0.24	1	0	1.01	0	2.20	0
prob3_100_040_060_025_035_05	84166	2.49	85286	0	1.52	87296	309	0	1.01	0	7.12	0	1.04	2	0	3.16	0	2.08	0
prob3_100_040_060_025_035_06	102964	1.19	39485	0	0.90	40707	391	0	1.21	0	1.91	0	0.94	1	0	1.43	0	2.48	0
prob3_100_040_060_025_035_07	72297	0.06	2315	0	0.05	2383	302	0	0.87	0	1.27	0	0.05	1	0	0.90	0	1.81	0
prob3_100_040_060_025_035_08	76077	1.19	41607	0	0.80	42513	365	0	0.92	0	0.50	0	0.84	1	0	0.57	0	1.02	0
prob3_100_040_060_025_035_09	108300	0.26	9174	0	0.21	9545	338	0	1.21	0	1.50	0	0.23	1	0	0.80	0	2.49	0
prob3_100_040_060_025_035_10	83587	0.05	2007	0	0.05	2077	364	0	1.01	0	0.70	0	0.05	2	0	0.67	0	1.41	0
prob3_100_040_060_035_045_01	59944	2.68	97173	0	1.86	100831	383	0	0.86	0	1.40	0	0.89	2	0	1.14	0	1.79	0
prob3_100_040_060_035_045_02	74150	0.96	33153	0	0.64	33969	301	0	1.03	0	1.33	0	0.66	1	0	1.17	0	2.13	0
prob3_100_040_060_035_045_03	66201	1.26	41979	0	0.84	43017	368	0	1.04	0	2.20	0	0.87	1	0	1.69	0	2.16	0
prob3_100_040_060_035_045_09	86262	0.48	16038	0	0.34	16614	338	0	1.22	0	2.03	0	0.36	1	0	1.20	0	2.50	0
prob3_100_040_060_035_045_10	56615	3.15	113940	0	2.05	117266	378	0	0.83	0	0.99	0	0.85	2	0	0.88	0	1.72	0
prob3_100_040_060_035_045_04	63904	3.68	136304	0	2.94	147104	402	0	0.92	0	2.49	0	0.94	2	0	1.72	0	1.90	0
prob3_100_040_060_035_045_05	86391	0.57	20257	0	0.48	21091	430	0	1.20	0	3.17	0	0.50	1	0	1.52	0	2.47	0
prob3_100_040_060_035_045_06	73480	1.62	54676	0	1.03	56012	324	0	1.03	0	1.65	0	1.06	2	0	1.01	0	2.14	0
prob3_100_040_060_035_045_07	79962	1.70	55117	0	1.14	56945	384	0	1.17	0	0.61	0	1.21	1	0	0.61	0	1.23	0
prob3_100_040_060_035_045_08	82189	1.20	41497	0	0.91	43281	335	0	1.24	0	7.27	0	0.96	1	0	3.50	0	2.56	0
prob3_100_040_060_005_015_06	227858	69.89	1247435	0	39.63	1350351	400	0	3.38	0	2.22	0	3.49	2	0	1.99	0	4.50	0
prob3_100_040_060_005_015_07	243938	497.15	9023862	0	247.82	9277586	428	0	3.99	0	1.82	0	4.11	2	0	1.72	0	3.69	0
prob3_100_040_060_005_015_05	269487	135.97	2415681	0	77.35	2562911	427	0	4.14	0	1.92	0	4.26	2	0	1.58	0	3.86	0
prob3_100_040_060_005_015_04	247507	649.02	11268353	0	354.18	11932149	401	0	3.98	0	7.71	0	4.10	2	0	5.66	0	8.02	0
prob3_100_040_060_005_015_03	330931	0.26	4753	0	0.17	4981	351	0	4.96	0	1.80	0	0.18	1	0	1.24	0	3.72	0
prob3_100_040_060_005_015_02	250228	0.50	9509	0	0.31	9723	402	0	3.91	0	2.43	0	0.33	1	0	2.11	0	4.92	0
prob3_100_040_060_005_015_01	283965	7.13	123803	0	3.90	125357	451	0	4.52	0	5.94	0	4.07	1	0	3.27	0	9.21	0
prob3_100_040_060_005_015_08	306957	0.87	15909	0	0.59	16789	361	0	4.77	0	1.71	0	0.62	1	0	1.47	0	3.46	0
prob3_100_040_060_005_015_09	308677	4.56	82899	0	2.67	84721	426	0	4.51	0	10.29	0	2.81	1	0	4.84	0	9.16	0
prob3_100_090_110_005_015_10	233362	51.40	892503	0	25.25	918717	398	0	3.41	0	4.08	0	3.51	2	0	3.35	0	6.91	0
prob3_100_090_110_015_025_01	186899	1.75	31722	0	0.96	33284	355	0	3.74	0	8.14	0	1.00	1	0	4.42	0	7.54	0
prob3_100_090_110_015_025_02	239246	10.06	182174	0	6.22	195810	430	0	4.50	0	3.47	0	4.63	2	0	1.72	0	7.09	0
prob3_100_090_110_015_025_03	205587	13.48	250538	0	8.46	273324	402	0	4.03	0	3.70	0	4.16	2	0	1.98	0	7.63	0
prob3_100_090_110_015_025_04	172729	1.00	18523	0	0.58	19559	402	0	3.53	0	5.31	0	0.60	1	0	3.29	0	7.15	0
prob3_100_090_110_015_025_05	260486	1.18	20553	0	0.65	21289	372	0	4.98	0	2.75	0	0.69	1	0	2.70	0	5.66	0
prob3_100_090_110_015_025_06	209724	440.35	7882461	0	190.93	8026689	426	0	4.15	0	3.69	0	4.27	2	0	2.19	0	7.52	0
prob3_100_090_110_015_025_07	182198	0.37	7530	0	0.20	7698	322	0	3.52	0	1.67	0	0.21	1	0	1.51	0	3.37	0
prob3_100_090_110_015_025_08	234006	32.55	580029	0	20.12	626153	432	0	4.75	0	3.05	0	4.89	2	0	2.36	0	6.18	0
prob3_100_090_110_015_025_09	237548	163.34	2819953	0	95.03	3031971	428	0	4.47	0	5.00	0	4.61	2	0	3.39	0	9.02	0
prob3_100_090_110_015_025_10	245852	3.74	66965	0	2.41	70581	447	0	4.65	0	2.87	0	2.50	1	0	1.82	0	5.97	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob3_100_090_110_025_035_01	151351	229.34	4304951	0	111.52	4401153	405	0	3.67	0	2.99	0	3.78	2	0	2.00	0	6.11	0
prob3_100_090_110_025_035_02	190270	1.01	18923	0	0.58	20073	373	0	4.27	0	3.47	0	0.61	1	0	2.31	0	7.04	0
prob3_100_090_110_025_035_03	152838	1200.00	21934779	1	1200.28	53061984	455	1	3.94	0	5.60	0	4.05	2	0	3.10	0	7.93	0
prob3_100_090_110_025_035_04	193571	0.19	3517	0	0.13	3633	386	0	4.67	0	2.22	0	0.14	1	0	1.50	0	4.56	0
prob3_100_090_110_025_035_05	134240	3.56	67580	0	1.74	68692	454	0	3.25	0	1.57	0	1.82	1	0	1.46	0	3.17	0
prob3_100_090_110_025_035_06	155664	23.87	425049	0	12.28	434573	470	0	3.87	0	12.34	0	3.99	2	0	7.24	0	7.85	0
prob3_100_090_110_025_035_07	179889	22.17	401146	0	12.72	419150	468	0	4.20	0	3.17	0	4.32	2	0	1.97	0	6.44	0
prob3_100_090_110_025_035_08	177276	2.73	48469	0	1.53	49307	515	0	4.09	0	1.53	0	1.59	1	0	1.19	0	3.11	0
prob3_100_090_110_025_035_09	184082	1200.00	21641539	1	803.52	35076144	424	0	4.15	0	6.03	0	4.27	2	0	4.32	0	8.41	0
prob3_100_090_110_025_035_10	211718	45.80	787199	0	24.04	829361	418	0	4.48	0	1.54	0	4.61	2	0	1.28	0	3.11	0
prob3_100_090_110_035_045_01	136458	12.75	225416	0	6.19	228844	434	0	4.26	0	3.58	0	4.38	2	0	2.13	0	7.23	0
prob3_100_090_110_035_045_02	148690	0.39	7031	0	0.21	7333	375	0	4.64	0	1.79	0	0.23	1	0	1.45	0	3.50	0
prob3_100_090_110_035_045_03	127193	1.13	20823	0	0.57	21209	365	0	3.68	0	4.49	0	0.60	1	0	2.74	0	7.44	0
prob3_100_090_110_035_045_04	151766	64.88	1151625	0	32.30	1191475	450	0	4.31	0	3.06	0	4.43	2	0	2.36	0	6.19	0
prob3_100_090_110_035_045_05	152051	2.15	39082	0	1.15	40086	404	0	4.34	0	2.55	0	1.21	1	0	1.94	0	5.24	0
prob3_100_090_110_035_045_06	143578	1.33	24809	0	0.73	25423	390	0	4.15	0	4.95	0	0.76	1	0	2.64	0	8.38	0
prob3_100_090_110_035_045_07	123346	0.98	17927	0	0.48	18285	369	0	3.53	0	3.11	0	0.50	1	0	1.81	0	6.33	0
prob3_100_090_110_035_045_08	134029	893.93	15676685	0	420.72	16244027	443	0	4.01	0	7.68	0	4.13	2	0	4.58	0	8.10	0
prob3_100_090_110_035_045_09	143578	63.11	1157787	0	32.20	1182673	505	0	3.97	0	2.89	0	4.08	2	0	1.45	0	5.86	0
prob3_100_090_110_035_045_10	133582	1.99	363325	0	1.00	36725	495	0	3.64	0	2.03	0	1.04	1	0	1.41	0	4.14	0
prob4_005_000500_01	10965	0.00	43	0	0.00	43	83	0	0.01	0	0.09	0	0.00	0	0	0.09	0	0.04	0
prob4_005_000500_02	10964	0.00	39	0	0.00	39	53	0	0.02	0	0.07	0	0.00	0	0	0.08	0	0.03	0
prob4_005_000500_03	11155	0.00	49	0	0.00	49	71	0	0.02	0	0.08	0	0.00	0	0	0.09	0	0.04	0
prob4_005_000500_04	11061	0.00	53	0	0.00	53	81	0	0.02	0	0.10	0	0.00	0	0	0.12	0	0.04	0
prob4_005_000500_05	11478	0.00	35	0	0.00	35	68	0	0.02	0	0.07	0	0.00	0	0	0.08	0	0.04	0
prob4_005_000500_06	11244	0.01	45	0	0.01	45	71	0	0.02	0	0.07	0	0.00	0	0	0.09	0	0.04	0
prob4_005_000500_07	10881	0.00	43	0	0.00	43	85	0	0.02	0	0.07	0	0.00	0	0	0.08	0	0.04	0
prob4_005_000500_08	11049	0.00	29	0	0.00	29	62	0	0.02	0	0.07	0	0.00	0	0	0.08	0	0.04	0
prob4_005_000500_09	10971	0.00	33	0	0.00	33	50	0	0.01	0	0.07	0	0.00	0	0	0.09	0	0.04	0
prob4_005_000500_10	10970	0.00	41	0	0.00	41	69	0	0.01	0	0.09	0	0.00	0	0	0.10	0	0.04	0
prob4_005_001000_01	19351	0.00	47	0	0.00	47	94	0	0.05	0	0.14	0	0.00	0	0	0.15	0	0.11	0
prob4_005_001000_02	19815	0.00	45	0	0.00	45	71	0	0.06	0	0.12	0	0.00	0	0	0.13	0	0.12	0
prob4_005_001000_03	20091	0.00	39	0	0.00	39	78	0	0.06	0	0.13	0	0.00	0	0	0.13	0	0.12	0
prob4_005_001000_04	20239	0.00	39	0	0.00	39	92	0	0.05	0	0.12	0	0.00	0	0	0.14	0	0.12	0
prob4_005_001000_05	20181	0.00	49	0	0.01	49	86	0	0.05	0	0.17	0	0.00	0	0	0.16	0	0.12	0
prob4_005_001000_06	19753	0.00	35	0	0.00	35	70	0	0.05	0	0.14	0	0.00	0	0	0.15	0	0.12	0
prob4_005_001000_07	19951	0.00	39	0	0.00	39	100	0	0.05	0	0.14	0	0.00	0	0	0.14	0	0.12	0
prob4_005_001000_08	19793	0.00	43	0	0.00	43	90	0	0.05	0	0.12	0	0.00	0	0	0.14	0	0.11	0
prob4_005_001000_09	19715	0.00	49	0	0.00	49	94	0	0.06	0	0.14	0	0.00	0	0	0.14	0	0.12	0
prob4_005_001000_10	20889	0.00	45	0	0.01	45	89	0	0.06	0	0.12	0	0.00	0	0	0.21	0	0.12	0
prob4_005_002500_01	55207	0.00	47	0	0.01	47	88	0	0.25	0	0.35	0	0.01	0	0	0.36	0	0.53	0
prob4_005_002500_02	55719	0.00	43	0	0.00	43	79	0	0.25	0	0.35	0	0.00	0	0	0.35	0	0.53	0
prob4_005_002500_03	55811	0.01	39	0	0.01	39	94	0	0.25	0	0.35	0	0.01	0	0	0.40	0	0.53	0
prob4_005_002500_04	55593	0.00	43	0	0.00	43	60	0	0.25	0	0.35	0	0.00	0	0	0.36	0	0.54	0
prob4_005_002500_05	56653	0.00	43	0	0.01	43	94	0	0.25	0	0.32	0	0.00	0	0	0.34	0	0.54	0
prob4_005_002500_06	54612	0.01	47	0	0.01	47	89	0	0.24	0	0.35	0	0.01	0	0	0.36	0	0.52	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob4_005_002500_07	54739	0.00	45	0	0.00	45	101	0	0.24	0	0.33	0	0.00	0	0	0.35	0	0.53	0
prob4_005_002500_08	55407	0.00	47	0	0.00	47	98	0	0.24	0	0.32	0	0.00	0	0	0.34	0	0.53	0
prob4_005_002500_09	55746	0.00	45	0	0.00	45	97	0	0.25	0	0.34	0	0.00	0	0	0.36	0	0.54	0
prob4_005_002500_10	55703	0.01	47	0	0.01	47	90	0	0.25	0	0.33	0	0.00	0	0	0.33	0	0.54	0
prob4_005_005000_01	99661	0.00	45	0	0.00	45	86	0	0.89	0	0.92	0	0.00	0	0	0.48	0	1.85	0
prob4_005_005000_02	100371	0.00	21	0	0.00	21	60	0	0.90	0	1.07	0	0.00	0	0	0.43	0	1.87	0
prob4_005_005000_03	99253	0.01	43	0	0.01	43	80	0	0.90	0	0.97	0	0.01	0	0	0.48	0	1.85	0
prob4_005_005000_04	100709	0.00	29	0	0.00	29	64	0	0.90	0	0.93	0	0.00	0	0	0.48	0	1.85	0
prob4_005_005000_05	101143	0.00	53	0	0.01	53	86	0	0.91	0	0.91	0	0.01	0	0	0.47	0	1.84	0
prob4_005_005000_06	100315	0.00	53	0	0.00	53	100	0	0.90	0	0.91	0	0.00	0	0	0.48	0	1.82	0
prob4_005_005000_07	100189	0.01	45	0	0.01	45	105	0	0.91	0	0.89	0	0.01	0	0	0.49	0	1.81	0
prob4_005_005000_08	100499	0.00	43	0	0.00	43	82	0	0.90	0	1.02	0	0.01	0	0	0.50	0	1.88	0
prob4_005_005000_09	100867	0.01	35	0	0.01	35	65	0	0.91	0	0.90	0	0.00	0	0	0.50	0	1.82	0
prob4_005_005000_10	100561	0.00	47	0	0.00	47	103	0	0.90	0	0.81	0	0.01	0	0	0.50	0	1.64	0
prob4_005_010000_01	222561	0.01	39	0	0.01	39	68	0	3.66	0	3.49	0	0.01	0	0	0.83	0	7.43	0
prob4_005_010000_02	223710	0.00	45	0	0.00	45	93	0	3.67	0	3.32	0	0.01	0	0	0.85	0	7.24	0
prob4_005_010000_03	223263	0.01	43	0	0.01	43	105	0	3.66	0	3.35	0	0.01	0	0	0.90	0	7.04	0
prob4_005_010000_04	224012	0.00	43	0	0.01	43	79	0	3.67	0	3.26	0	0.01	0	0	0.90	0	6.67	0
prob4_005_010000_05	223212	0.01	47	0	0.02	47	82	0	3.67	0	3.75	0	0.01	0	0	0.88	0	6.07	0
prob4_005_010000_06	224425	0.01	43	0	0.01	43	89	0	3.66	0	3.42	0	0.01	0	0	0.98	0	6.56	0
prob4_005_010000_07	223404	0.00	43	0	0.00	43	98	0	3.65	0	4.17	0	0.01	0	0	0.78	0	7.38	0
prob4_005_010000_08	221362	0.00	43	0	0.00	43	87	0	3.66	0	3.57	0	0.00	0	0	0.79	0	6.85	0
prob4_005_010000_09	222511	0.01	45	0	0.01	45	99	0	3.68	0	3.03	0	0.00	0	0	0.78	0	7.40	0
prob4_005_010000_10	222838	0.01	47	0	0.02	47	90	0	3.63	0	3.66	0	0.01	0	0	0.76	0	6.76	0
prob4_010_000500_01	11202	0.00	47	0	0.00	47	95	0	0.02	0	0.07	0	0.01	1	0	0.08	0	0.04	0
prob4_010_000500_02	10929	0.00	43	0	0.00	43	112	0	0.01	0	0.07	0	0.00	1	0	0.08	0	0.04	0
prob4_010_000500_03	11385	0.00	47	0	0.00	47	98	0	0.02	0	0.18	0	0.01	1	0	0.13	0	0.04	0
prob4_010_000500_04	11027	0.00	43	0	0.00	43	89	0	0.02	0	0.12	0	0.01	1	0	0.12	0	0.04	0
prob4_010_000500_05	10873	0.00	43	0	0.00	43	102	0	0.02	0	0.19	0	0.00	1	0	0.14	0	0.04	0
prob4_010_000500_06	11182	0.00	45	0	0.00	45	96	0	0.02	0	0.16	0	0.01	1	0	0.13	0	0.04	0
prob4_010_000500_07	11214	0.01	99	0	0.01	113	87	0	0.02	0	0.24	0	0.01	1	0	0.20	0	0.04	0
prob4_010_000500_08	10742	0.00	513	0	0.00	539	104	0	0.01	0	0.13	0	0.00	1	0	0.13	0	0.04	0
prob4_010_000500_09	11041	0.00	599	0	0.00	609	119	0	0.02	0	0.18	0	0.00	1	0	0.19	0	0.04	0
prob4_010_000500_10	11851	0.01	555	0	0.01	563	105	0	0.02	0	0.11	0	0.01	1	0	0.13	0	0.04	0
prob4_010_001000_01	21568	0.01	257	0	0.01	275	125	0	0.06	0	0.13	0	0.01	1	0	0.13	0	0.12	0
prob4_010_001000_02	22107	0.00	241	0	0.00	257	101	0	0.05	0	0.21	0	0.01	1	0	0.20	0	0.12	0
prob4_010_001000_03	22078	0.01	665	0	0.01	679	109	0	0.06	0	0.13	0	0.01	1	0	0.14	0	0.12	0
prob4_010_001000_04	22106	0.01	955	0	0.01	955	118	0	0.06	0	0.14	0	0.01	1	0	0.19	0	0.13	0
prob4_010_001000_05	21481	0.01	99	0	0.01	113	87	0	0.05	0	0.13	0	0.01	1	0	0.13	0	0.12	0
prob4_010_001000_06	22388	0.01	113	0	0.01	99	124	0	0.06	0	0.17	0	0.01	1	0	0.17	0	0.12	0
prob4_010_001000_07	22305	0.01	539	0	0.01	539	108	0	0.06	0	0.16	0	0.01	1	0	0.16	0	0.11	0
prob4_010_001000_08	21373	0.00	549	0	0.00	579	119	0	0.06	0	0.15	0	0.01	1	0	0.15	0	0.12	0
prob4_010_001000_09	22290	0.01	911	0	0.01	911	105	0	0.06	0	0.14	0	0.01	1	0	0.15	0	0.12	0
prob4_010_001000_10	21737	0.01	933	0	0.01	933	108	0	0.06	0	0.13	0	0.01	1	0	0.13	0	0.12	0
prob4_010_002500_01	55021	0.02	941	0	0.02	941	141	0	0.25	0	0.36	0	0.02	1	0	0.37	0	0.54	0
prob4_010_002500_02	54143	0.01	947	0	0.01	947	150	0	0.25	0	0.34	0	0.01	1	0	0.34	0	0.53	0

Instance		Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
	opt	time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob4_010_002500_03	54359	0.01	937	0	0.01	937	133	0	0.26	0	0.32	0	0.01	1	0	0.31	0	0.54	0
prob4_010_002500_04	55262	0.01	949	0	0.01	949	139	0	0.25	0	0.32	0	0.01	1	0	0.32	0	0.54	0
prob4_010_002500_05	55044	0.01	933	0	0.01	933	136	0	0.25	0	0.32	0	0.01	1	0	0.32	0	0.53	0
prob4_010_002500_06	54566	0.01	933	0	0.01	933	154	0	0.25	0	0.33	0	0.01	1	0	0.38	0	0.53	0
prob4_010_002500_07	55212	0.02	953	0	0.01	953	131	0	0.25	0	0.33	0	0.01	1	0	0.32	0	0.54	0
prob4_010_002500_08	55033	0.02	949	0	0.01	949	161	0	0.26	0	0.33	0	0.01	1	0	0.33	0	0.54	0
prob4_010_002500_09	54712	0.01	937	0	0.01	937	151	0	0.25	0	0.34	0	0.01	1	0	0.33	0	0.54	0
prob4_010_002500_10	55148	0.01	911	0	0.01	911	170	0	0.25	0	0.37	0	0.01	1	0	0.34	0	0.53	0
prob4_010_005000_01	100447	0.02	913	0	0.02	913	183	0	0.93	0	0.44	0	0.02	1	0	0.37	0	1.86	0
prob4_010_005000_02	101343	0.01	503	0	0.01	515	187	0	0.93	0	0.86	0	0.01	1	0	0.55	0	1.74	0
prob4_010_005000_03	99553	0.02	909	0	0.02	909	188	0	0.92	0	0.87	0	0.02	1	0	0.54	0	1.74	0
prob4_010_005000_04	100389	0.01	643	0	0.02	657	202	0	0.92	0	0.84	0	0.02	0	0	0.53	0	1.68	0
prob4_010_005000_05	99615	0.01	543	0	0.01	547	185	0	0.92	0	0.81	0	0.01	1	0	0.52	0	1.61	0
prob4_010_005000_06	100905	0.01	511	0	0.01	513	179	0	0.93	0	0.89	0	0.01	1	0	0.54	0	1.78	0
prob4_010_005000_07	101507	0.01	373	0	0.01	385	200	0	0.93	0	0.79	0	0.01	1	0	0.50	0	1.62	0
prob4_010_005000_08	100989	0.01	297	0	0.01	301	164	0	0.92	0	0.92	0	0.01	1	0	0.56	0	1.82	0
prob4_010_005000_09	101421	0.01	563	0	0.01	571	179	0	0.94	0	0.83	0	0.01	0	0	0.53	0	1.69	0
prob4_010_005000_10	100325	0.01	775	0	0.01	775	141	0	0.92	0	0.88	0	0.01	1	0	0.58	0	1.78	0
prob4_010_010000_01	203813	0.02	747	0	0.02	749	176	0	3.76	0	2.69	0	0.02	1	0	0.92	0	5.50	0
prob4_010_010000_02	201393	0.03	785	0	0.03	793	154	0	3.71	0	2.81	0	0.03	1	0	0.86	0	5.64	0
prob4_010_010000_03	200229	0.02	381	0	0.02	395	155	0	3.68	0	3.02	0	0.02	0	0	0.89	0	6.09	0
prob4_010_010000_04	198905	0.02	859	0	0.02	859	187	0	3.65	0	2.92	0	0.02	1	0	0.96	0	5.90	0
prob4_010_010000_05	201261	0.03	681	0	0.03	689	177	0	3.70	0	2.73	0	0.03	1	0	0.85	0	5.56	0
prob4_010_010000_06	200848	0.02	915	0	0.02	915	176	0	3.70	0	2.72	0	0.02	1	0	0.93	0	5.55	0
prob4_010_010000_07	201297	0.02	679	0	0.01	679	176	0	3.71	0	2.40	0	0.02	1	0	0.95	0	4.85	0
prob4_010_010000_08	201046	0.02	657	0	0.02	657	192	0	3.71	0	2.80	0	0.02	1	0	0.83	0	5.64	0
prob4_010_010000_09	202163	0.03	613	0	0.03	617	203	0	3.73	0	2.93	0	0.03	1	0	0.84	0	5.97	0
prob4_010_010000_10	201324	0.02	643	0	0.01	643	190	0	3.70	0	2.59	0	0.01	1	0	0.96	0	5.22	0
prob4_020_000500_01	14004	0.00	283	0	0.00	301	98	0	0.02	0	0.10	0	0.00	0	0	0.11	0	0.04	0
prob4_020_000500_02	14018	0.00	179	0	0.00	183	94	0	0.02	0	0.13	0	0.00	0	0	0.14	0	0.04	0
prob4_020_000500_03	13872	0.00	71	0	0.00	77	74	0	0.02	0	0.08	0	0.00	0	0	0.09	0	0.04	0
prob4_020_000500_04	13809	0.00	309	0	0.00	339	93	0	0.02	0	0.15	0	0.00	0	0	0.21	0	0.04	0
prob4_020_000500_05	14211	0.00	231	0	0.00	243	93	0	0.02	0	0.18	0	0.00	0	0	0.19	0	0.04	0
prob4_020_000500_06	13952	0.00	163	0	0.00	169	85	0	0.02	0	0.13	0	0.00	0	0	0.14	0	0.04	0
prob4_020_000500_07	13372	0.00	145	0	0.00	157	81	0	0.02	0	0.09	0	0.00	0	0	0.11	0	0.04	0
prob4_020_000500_08	13589	0.00	141	0	0.00	157	82	0	0.02	0	0.10	0	0.00	0	0	0.11	0	0.04	0
prob4_020_000500_09	14824	0.00	125	0	0.00	153	88	0	0.02	0	0.07	0	0.00	0	0	0.08	0	0.04	0
prob4_020_000500_10	13527	0.00	143	0	0.00	151	73	0	0.02	0	0.16	0	0.00	0	0	0.19	0	0.04	0
prob4_020_001000_01	22590	0.19	31417	0	0.16	32661	138	0	0.06	0	0.44	0	0.06	2	0	0.43	0	0.12	0
prob4_020_001000_02	22488	0.06	7847	0	0.05	8499	133	0	0.06	0	0.21	0	0.05	1	0	0.21	0	0.13	0
prob4_020_001000_03	22760	0.06	7043	0	0.05	8141	120	0	0.06	0	0.18	0	0.05	2	0	0.19	0	0.12	0
prob4_020_001000_04	22464	0.19	29633	0	0.14	31321	136	0	0.05	0	0.20	0	0.06	2	0	0.20	0	0.12	0
prob4_020_001000_05	22787	0.09	11793	0	0.07	12247	130	0	0.06	0	0.44	0	0.06	2	0	0.30	0	0.13	0
prob4_020_001000_06	23157	0.52	92570	0	0.37	93927	145	0	0.06	0	0.41	0	0.06	2	0	0.38	0	0.12	0
prob4_020_001000_07	22138	0.36	61277	0	0.27	63525	146	0	0.06	0	0.26	0	0.05	2	0	0.25	0	0.12	0
prob4_020_001000_08	22527	0.17	26805	0	0.13	28267	126	0	0.06	0	0.19	0	0.06	2	0	0.19	0	0.12	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob4_020_001000_09	22888	0.11	14389	0	0.08	15443	136	0	0.06	0	0.19	0	0.06	2	0	0.19	0	0.13	0
prob4_020_001000_10	22681	0.20	33719	0	0.16	34677	150	0	0.05	0	0.21	0	0.06	2	0	0.22	0	0.13	0
prob4_020_002500_01	50567	1.68	142037	0	0.77	145389	196	0	0.25	0	0.78	0	0.25	2	0	0.74	0	0.55	0
prob4_020_002500_02	50051	4.05	367349	0	1.75	368259	195	0	0.25	0	0.63	0	0.25	2	0	0.54	0	0.54	0
prob4_020_002500_03	49913	3.71	332171	0	1.62	334163	205	0	0.25	0	0.54	0	0.25	2	0	0.43	0	0.53	0
prob4_020_002500_04	49830	5.05	471375	0	2.20	472379	196	0	0.25	0	0.43	0	0.25	2	0	0.45	0	0.53	0
prob4_020_002500_05	49735	2.07	176155	0	0.91	180369	190	0	0.25	0	0.27	0	0.25	2	0	0.27	0	0.53	0
prob4_020_002500_06	49695	3.32	291167	0	1.50	301823	201	0	0.25	0	0.43	0	0.25	2	0	0.41	0	0.53	0
prob4_020_002500_07	49446	5.98	563429	0	2.74	563505	228	0	0.25	0	0.38	0	0.25	2	0	0.37	0	0.53	0
prob4_020_002500_08	50167	2.38	201045	0	1.06	204491	189	0	0.25	0	0.46	0	0.25	2	0	0.48	0	0.54	0
prob4_020_002500_09	51067	3.56	318761	0	1.59	323805	201	0	0.26	0	0.38	0	0.25	2	0	0.39	0	0.55	0
prob4_020_002500_10	52063	0.06	3421	0	0.03	3755	185	0	0.26	0	0.36	0	0.03	1	0	0.31	0	0.56	0
prob4_020_005000_01	101585	3.38	175507	0	1.41	177611	253	0	0.95	0	0.79	0	0.98	2	0	0.64	0	1.59	0
prob4_020_005000_02	99785	0.95	48921	0	0.39	50627	219	0	0.93	0	0.81	0	0.41	1	0	0.65	0	1.64	0
prob4_020_005000_03	99889	1.78	90783	0	0.77	92875	243	0	0.93	0	0.84	0	0.81	1	0	0.63	0	1.70	0
prob4_020_005000_04	100847	6.56	365833	0	2.57	366865	266	0	0.94	0	1.17	0	0.97	2	0	0.74	0	1.96	0
prob4_020_005000_05	100661	0.79	41419	0	0.33	41717	256	0	0.93	0	0.92	0	0.35	1	0	0.72	0	1.84	0
prob4_020_005000_06	101023	0.59	28331	0	0.29	30645	253	0	0.94	0	0.74	0	0.31	1	0	0.54	0	1.47	0
prob4_020_005000_07	100811	0.02	805	0	0.01	933	227	0	0.93	0	0.78	0	0.02	1	0	0.60	0	1.58	0
prob4_020_005000_08	100133	8.46	472721	0	3.24	473797	236	0	0.93	0	0.88	0	0.96	2	0	0.64	0	1.76	0
prob4_020_005000_09	101283	3.47	183683	0	1.46	188597	253	0	0.94	0	0.85	0	0.97	2	0	0.67	0	1.72	0
prob4_020_005000_10	101773	4.54	244713	0	1.82	252555	234	0	0.95	0	0.90	0	0.98	2	0	0.68	0	1.81	0
prob4_020_010000_05	203934	8.88	296643	0	3.41	300987	266	0	3.81	0	2.58	0	3.57	1	0	1.00	0	5.27	0
prob4_020_010000_06	201679	4.75	158003	0	1.82	161061	238	0	3.76	0	2.34	0	1.92	1	0	0.97	0	4.78	0
prob4_020_010000_07	202286	2.27	71497	0	0.90	72353	257	0	3.77	0	2.42	0	0.94	1	0	1.06	0	4.93	0
prob4_020_010000_08	202291	5.58	179689	0	2.26	181541	304	0	3.77	0	2.68	0	2.36	1	0	1.02	0	5.44	0
prob4_020_010000_09	201818	14.63	512177	0	5.18	513807	246	0	3.77	0	2.66	0	3.88	2	0	0.96	0	5.38	0
prob4_020_010000_10	201285	13.81	485215	0	4.91	486035	239	0	3.75	0	2.75	0	3.86	2	0	0.95	0	5.56	0
prob4_020_010000_04	200500	1.62	51683	0	0.67	53267	253	0	3.73	0	2.68	0	0.70	1	0	1.04	0	5.41	0
prob4_020_010000_03	200920	6.07	202797	0	2.26	204779	231	0	3.74	0	2.59	0	2.37	1	0	0.97	0	5.30	0
prob4_020_010000_02	202400	1.51	49479	0	0.63	50447	274	0	3.77	0	2.88	0	0.66	1	0	1.12	0	5.80	0
prob4_020_010000_01	200715	11.62	396715	0	4.11	397651	229	0	3.74	0	2.78	0	3.86	2	0	0.98	0	5.61	0
prob4_030_000500_01	14284	0.00	1033	0	0.01	1655	108	0	0.02	0	0.38	0	0.00	0	0	0.43	0	0.04	0
prob4_030_000500_02	14101	0.00	157	0	0.00	167	86	0	0.02	0	0.13	0	0.00	0	0	0.14	0	0.04	0
prob4_030_000500_03	13673	0.00	311	0	0.01	343	107	0	0.02	0	0.20	0	0.00	0	0	0.26	0	0.04	0
prob4_030_000500_04	13781	0.00	407	0	0.01	431	96	0	0.02	0	0.13	0	0.00	0	0	0.15	0	0.04	0
prob4_030_000500_05	14034	0.00	763	0	0.01	889	117	0	0.02	0	0.33	0	0.00	0	0	0.38	0	0.04	0
prob4_030_000500_06	14019	0.00	691	0	0.01	743	110	0	0.02	0	0.21	0	0.00	0	0	0.22	0	0.04	0
prob4_030_000500_07	14384	0.02	5263	0	0.03	5839	86	0	0.02	0	1.20	0	0.02	0	0	1.29	0	0.04	0
prob4_030_000500_08	13746	0.00	901	0	0.01	973	121	0	0.02	0	0.50	0	0.01	0	0	0.61	0	0.04	0
prob4_030_000500_09	13683	0.00	295	0	0.01	309	101	0	0.02	0	0.24	0	0.00	0	0	0.29	0	0.04	0
prob4_030_000500_10	13819	0.00	475	0	0.01	523	120	0	0.01	0	0.22	0	0.00	0	0	0.24	0	0.04	0
prob4_030_001000_01	22141	2.84	547317	0	2.42	564661	138	0	0.05	0	2.77	0	0.05	0	0	1.37	0	0.12	0
prob4_030_001000_02	22116	1.23	231580	0	1.08	241984	142	0	0.05	0	0.42	0	0.06	0	0	0.26	0	0.12	0
prob4_030_001000_03	22641	2.07	389135	0	1.95	410677	166	0	0.06	0	0.41	0	0.06	0	0	0.32	0	0.12	0
prob4_030_001000_04	22723	1.16	222313	0	1.02	233833	133	0	0.05	0	0.26	0	0.06	0	0	0.25	0	0.12	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob4_030_001000_05	22635	0.70	134299	0	0.62	144659	123	0	0.06	0	0.17	0	0.06	2	0	0.18	0	0.12	0
prob4_030_001000_06	23167	5.78	1112499	0	5.60	1204641	170	0	0.06	0	0.33	0	0.06	2	0	0.25	0	0.12	0
prob4_030_001000_07	22489	2.67	515841	0	2.41	539509	153	0	0.06	0	0.47	0	0.05	2	0	0.37	0	0.12	0
prob4_030_001000_08	22588	1.63	313925	0	1.38	340775	132	0	0.05	0	0.91	0	0.06	2	0	0.44	0	0.13	0
prob4_030_001000_09	22770	5.64	1107563	0	5.02	1171219	155	0	0.05	0	2.28	0	0.06	2	0	1.32	0	0.13	0
prob4_030_001000_10	23278	6.45	1263443	0	5.58	1312995	147	0	0.06	0	0.74	0	0.06	2	0	0.56	0	0.13	0
prob4_030_002500_01	49891	6.69	506155	0	3.98	560747	222	0	0.26	0	0.63	0	0.25	2	0	0.59	0	0.54	0
prob4_030_002500_02	56128	24.85	1994697	0	12.50	2076741	194	0	0.25	0	0.60	0	0.25	2	0	0.55	0	0.54	0
prob4_030_002500_03	55701	21.50	1606963	0	11.05	1702157	194	0	0.25	0	0.57	0	0.25	2	0	0.52	0	0.55	0
prob4_030_002500_04	56200	4.87	373595	0	2.56	394545	187	0	0.25	0	0.67	0	0.25	2	0	0.58	0	0.54	0
prob4_030_002500_05	56211	13.85	1041553	0	7.02	1088473	184	0	0.25	0	0.31	0	0.25	2	0	0.30	0	0.55	0
prob4_030_002500_06	56894	10.44	786877	0	5.53	859287	182	0	0.26	0	0.46	0	0.26	2	0	0.44	0	0.54	0
prob4_030_002500_07	55702	20.47	1556349	0	10.53	1677291	178	0	0.25	0	0.41	0	0.25	2	0	0.36	0	0.54	0
prob4_030_002500_08	55670	0.06	3517	0	0.04	3875	163	0	0.25	0	0.49	0	0.04	1	0	0.46	0	0.54	0
prob4_030_002500_09	56933	70.47	5437763	0	37.77	5919961	199	0	0.25	0	0.47	0	0.26	1	0	0.53	0	0.55	0
prob4_030_002500_10	55913	16.30	1218357	0	8.99	1366529	191	0	0.25	0	0.61	0	0.25	2	0	0.54	0	0.54	0
prob4_030_005000_01	101929	0.04	1513	0	0.02	1643	211	0	0.95	0	0.93	0	0.03	1	0	0.71	0	1.86	0
prob4_030_005000_02	101839	0.04	1807	0	0.03	1981	221	0	0.95	0	0.82	0	0.04	1	0	0.70	0	1.66	0
prob4_030_005000_03	100244	0.86	35079	0	0.38	37489	221	0	0.93	0	0.93	0	0.40	1	0	0.74	0	1.83	0
prob4_030_005000_04	100247	0.18	7451	0	0.09	8013	232	0	0.93	0	1.14	0	0.09	1	0	0.84	0	1.93	0
prob4_030_005000_05	100613	0.04	1749	0	0.02	1953	207	0	0.94	0	0.84	0	0.03	1	0	0.69	0	1.70	0
prob4_030_005000_06	101429	7.86	330221	0	3.65	371905	249	0	0.95	0	0.92	0	0.97	2	0	0.78	0	1.85	0
prob4_030_005000_07	101963	1.23	52367	0	0.61	58603	229	0	0.95	0	0.87	0	0.65	1	0	0.71	0	1.62	0
prob4_030_005000_08	101525	2.76	118035	0	1.42	126767	287	0	0.95	0	1.59	0	0.98	2	0	1.05	0	1.96	0
prob4_030_005000_09	101406	0.03	1251	0	0.02	1329	218	0	0.94	0	1.02	0	0.02	1	0	0.78	0	1.96	0
prob4_030_005000_10	100871	0.80	32475	0	0.37	35171	253	0	0.94	0	1.17	0	0.39	1	0	0.86	0	1.94	0
prob4_030_010000_01	201438	0.10	2819	0	0.06	3263	235	0	3.75	0	3.22	0	0.07	1	0	1.53	0	6.57	0
prob4_030_010000_02	201466	3.93	103569	0	1.72	110115	279	0	3.76	0	2.48	0	1.80	1	0	1.22	0	5.03	0
prob4_030_010000_03	202037	17.07	457793	0	8.57	482869	378	0	3.77	0	2.84	0	3.88	2	0	1.84	0	5.79	0
prob4_030_010000_04	200886	0.33	8015	0	0.20	9355	298	0	3.74	0	2.30	0	0.20	1	0	1.21	0	4.66	0
prob4_030_010000_05	202139	78.98	2136953	0	30.83	2209423	326	0	3.77	0	2.72	0	3.89	2	0	1.29	0	5.58	0
prob4_030_010000_06	201864	0.63	15257	0	0.32	15845	350	0	3.76	0	4.44	0	0.33	1	0	2.32	0	7.61	0
prob4_030_010000_07	202001	2.23	57429	0	1.08	63339	315	0	3.77	0	2.74	0	1.12	1	0	1.37	0	5.55	0
prob4_030_010000_08	202196	12.53	332355	0	4.63	342419	263	0	3.77	0	2.29	0	3.88	2	0	1.21	0	4.65	0
prob4_030_010000_09	201980	2.75	75447	0	1.06	76561	282	0	3.77	0	3.61	0	1.11	1	0	1.85	0	7.35	0
prob4_030_010000_10	199853	0.46	11409	0	0.24	12943	269	0	3.72	0	2.51	0	0.25	1	0	1.18	0	5.11	0
prob5_005_020000_01	422024	0.01	43	0	0.01	43	73	0	15.82	0	11.50	0	0.01	0	0	1.87	0	24.04	0
prob5_005_020000_02	435581	0.00	43	0	0.01	43	68	0	15.97	0	12.79	0	0.00	0	0	1.58	0	26.68	0
prob5_005_020000_03	463233	0.01	45	0	0.01	45	79	0	15.97	0	12.45	0	0.01	0	0	1.40	0	26.26	0
prob5_005_020000_04	394850	0.00	47	0	0.01	47	97	0	15.64	0	10.68	0	0.00	0	0	1.94	0	22.35	0
prob5_005_020000_05	389661	0.01	45	0	0.02	45	70	0	15.64	0	11.66	0	0.01	0	0	1.83	0	24.50	0
prob5_005_020000_06	458575	0.00	45	0	0.01	45	70	0	15.72	0	11.27	0	0.00	0	0	1.40	0	28.04	0
prob5_005_020000_07	427640	0.00	45	0	0.01	45	85	0	16.00	0	13.40	0	0.00	0	0	1.37	0	23.72	0
prob5_005_020000_08	400375	0.00	55	0	0.01	55	92	0	15.69	0	12.37	0	0.01	0	0	1.95	0	26.06	0
prob5_005_020000_09	394464	0.00	21	0	0.01	21	72	0	15.60	0	14.50	0	0.01	0	0	1.81	0	30.30	0
prob5_005_020000_10	442123	0.00	11	0	0.00	11	45	0	15.86	0	8.82	0	0.00	0	0	0.85	0	18.27	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob5_005_050000_01	977514	0.03	53	0	0.04	53	75	0	98.31	0	77.85	0	0.04	0	0	5.86	0	173.52	0
prob5_005_050000_02	1010656	0.01	41	0	0.02	41	68	0	99.09	0	79.39	0	0.01	0	0	5.94	0	178.01	0
prob5_005_050000_03	1061123	0.01	33	0	0.02	33	57	0	99.11	0	91.95	0	0.01	0	0	6.66	0	202.84	0
prob5_005_050000_04	1087340	0.01	47	0	0.02	47	81	0	99.57	0	84.09	0	0.01	0	0	6.08	0	192.11	0
prob5_005_050000_05	1001602	0.02	45	0	0.03	45	78	0	98.50	0	72.21	0	0.02	0	0	6.30	0	159.73	0
prob5_005_050000_06	978658	0.03	45	0	0.04	45	80	0	98.48	0	82.64	0	0.03	0	0	9.33	0	183.69	0
prob5_005_050000_07	1090982	0.02	45	0	0.04	45	76	0	99.75	0	86.03	0	0.02	0	0	5.58	0	193.61	0
prob5_005_050000_08	1071769	0.01	45	0	0.02	45	61	0	100.03	0	78.14	0	0.01	0	0	5.52	0	174.97	0
prob5_005_050000_09	1145564	0.01	43	0	0.01	43	82	0	100.28	0	85.28	0	0.01	0	0	5.22	0	189.60	0
prob5_005_050000_10	1129598	0.01	43	0	0.02	43	78	0	100.85	0	81.88	0	0.01	0	0	7.75	0	184.18	0
prob5_005_100000_01	2022274	0.04	43	0	0.07	43	94	0	395.73	0	425.84	0	0.04	0	0	47.02	0	826.23	0
prob5_005_100000_02	2210555	0.05	45	0	0.10	45	92	0	400.07	0	603.13	0	0.06	0	0	46.17	0	832.96	0
prob5_005_100000_03	2264107	0.11	45	0	0.17	45	77	0	403.87	0	421.89	0	0.11	0	0	42.02	0	831.80	0
prob5_005_100000_04	1977496	0.01	43	0	0.02	43	65	0	393.72	0	407.48	0	0.01	0	0	36.19	0	821.91	0
prob5_005_100000_05	1989604	0.02	45	0	0.04	45	81	0	395.02	0	452.93	0	0.03	0	0	48.08	0	819.84	0
prob5_005_100000_06	2119415	0.02	43	0	0.04	43	68	0	399.84	0	414.48	0	0.02	0	0	44.11	0	838.50	0
prob5_005_100000_07	2085649	0.01	47	0	0.02	47	90	0	398.15	0	414.60	0	0.01	0	0	38.61	0	833.36	0
prob5_005_100000_08	1997019	0.04	53	0	0.07	53	84	0	394.27	0	488.45	0	0.05	0	0	45.11	0	820.54	0
prob5_005_100000_09	2148811	0.02	45	0	0.04	45	82	0	399.00	0	406.31	0	0.03	0	0	43.92	0	819.19	0
prob5_005_100000_10	2178242	0.01	43	0	0.02	43	75	0	404.34	0	410.20	0	0.01	0	0	38.01	0	835.85	0
prob5_010_020000_01	470617	0.04	941	0	0.02	941	149	0	16.38	0	10.28	0	0.02	1	0	1.40	0	21.84	0
prob5_010_020000_02	419065	0.04	939	0	0.02	939	107	0	16.28	0	9.85	0	0.02	1	0	1.35	0	20.44	0
prob5_010_020000_03	458976	0.04	941	0	0.03	941	130	0	16.38	0	9.84	0	0.03	1	0	1.47	0	20.63	0
prob5_010_020000_04	403191	0.03	685	0	0.02	687	124	0	16.20	0	9.70	0	0.03	1	0	1.50	0	20.42	0
prob5_010_020000_05	406762	0.04	931	0	0.02	931	135	0	16.12	0	10.77	0	0.02	1	0	1.22	0	22.60	0
prob5_010_020000_06	437758	0.05	959	0	0.04	959	148	0	16.19	0	9.44	0	0.04	1	0	1.36	0	19.80	0
prob5_010_020000_07	424769	0.04	823	0	0.03	833	129	0	16.29	0	10.47	0	0.03	1	0	1.29	0	21.90	0
prob5_010_020000_08	456159	0.04	951	0	0.03	951	146	0	16.30	0	10.52	0	0.03	1	0	1.42	0	22.07	0
prob5_010_020000_09	399665	0.04	609	0	0.05	625	160	0	16.12	0	10.26	0	0.05	0	0	1.65	0	21.53	0
prob5_010_020000_10	453172	0.04	953	0	0.03	953	145	0	16.33	0	11.30	0	0.03	0	0	1.31	0	23.54	0
prob5_010_050000_01	1103870	0.09	933	0	0.05	933	153	0	102.11	0	58.80	0	0.05	1	0	3.66	0	131.48	0
prob5_010_050000_02	1089537	0.10	943	0	0.06	943	159	0	102.28	0	55.52	0	0.06	1	0	4.11	0	124.09	0
prob5_010_050000_03	1007222	0.09	595	0	0.10	595	171	0	101.76	0	58.28	0	0.09	0	0	5.51	0	131.46	0
prob5_010_050000_04	1138628	0.10	933	0	0.08	933	143	0	103.11	0	53.74	0	0.08	1	0	2.95	0	119.93	0
prob5_010_050000_05	1140612	0.09	923	0	0.04	923	112	0	102.96	0	55.85	0	0.04	1	0	3.27	0	125.62	0
prob5_010_050000_06	1031614	0.09	511	0	0.11	513	153	0	102.04	0	52.75	0	0.09	0	0	5.94	0	118.01	0
prob5_010_050000_07	984636	0.09	775	0	0.06	779	149	0	101.71	0	51.98	0	0.06	1	0	5.28	0	115.88	0
prob5_010_050000_08	1106401	0.11	941	0	0.08	941	141	0	102.70	0	55.72	0	0.09	1	0	3.49	0	123.59	0
prob5_010_050000_09	1140648	0.10	947	0	0.06	947	147	0	102.69	0	59.47	0	0.07	0	0	3.02	0	134.94	0
prob5_010_050000_10	1145731	0.11	975	0	0.08	975	118	0	102.75	0	56.00	0	0.09	1	0	3.54	0	124.26	0
prob5_010_100000_01	2236117	0.17	933	0	0.09	933	103	0	411.59	0	257.34	0	0.09	1	0	9.53	0	591.04	0
prob5_010_100000_02	2045612	0.17	939	0	0.10	939	117	0	409.55	0	257.82	0	0.11	1	0	14.69	0	595.59	0
prob5_010_100000_03	2214376	0.18	937	0	0.11	937	152	0	408.90	0	261.53	0	0.12	1	0	16.01	0	606.80	0
prob5_010_100000_04	2274059	0.20	935	0	0.14	935	118	0	409.48	0	260.75	0	0.16	1	0	8.19	0	607.70	0
prob5_010_100000_05	2277309	0.19	947	0	0.13	947	144	0	411.22	0	244.04	0	0.14	1	0	15.76	0	567.04	0
prob5_010_100000_06	2049191	0.17	839	0	0.11	839	179	0	408.13	0	297.61	0	0.12	1	0	16.84	0	700.61	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob5_010_100000_07	1952291	0.06	203	0	0.06	213	148	0	406.63	0	293.23	0	0.06	0	0	23.84	0	685.28	0
prob5_010_100000_08	2281380	0.20	955	0	0.15	955	143	0	412.70	0	262.98	0	0.16	1	0	7.05	0	607.26	0
prob5_010_100000_09	1990233	0.08	257	0	0.10	261	111	0	408.79	0	276.66	0	0.09	0	0	8.98	0	639.39	0
prob5_010_100000_10	2250741	0.20	933	0	0.13	933	121	0	411.25	0	254.31	0	0.14	1	0	8.17	0	587.68	0
prob5_020_020000_01	428066	26.64	587925	0	9.72	587925	228	0	16.48	0	10.31	0	10.18	1	0	1.44	0	21.64	0
prob5_020_020000_02	438511	27.04	587929	0	9.88	587929	252	0	16.48	0	10.37	0	10.33	1	0	1.53	0	21.75	0
prob5_020_020000_03	417449	1.04	19593	0	0.46	20035	262	0	16.38	0	10.67	0	0.48	1	0	2.04	0	22.49	0
prob5_020_020000_04	464807	15.14	304551	0	5.59	308039	218	0	16.57	0	11.27	0	5.83	1	0	1.54	0	24.05	0
prob5_020_020000_05	427108	5.64	109431	0	2.45	116373	252	0	16.43	0	9.32	0	2.56	1	0	1.87	0	19.75	0
prob5_020_020000_06	424216	7.66	151205	0	3.11	157181	270	0	16.43	0	10.75	0	3.25	1	0	1.85	0	22.76	0
prob5_020_020000_07	425377	7.31	147959	0	2.85	148471	285	0	16.38	0	10.81	0	2.98	1	0	2.05	0	22.99	0
prob5_020_020000_08	467465	0.47	8255	0	0.24	8441	212	0	16.36	0	11.87	0	0.25	1	0	1.74	0	24.93	0
prob5_020_020000_09	439527	14.04	290747	0	5.43	292677	275	0	16.48	0	10.49	0	5.67	1	0	1.81	0	22.15	0
prob5_020_020000_10	406329	3.13	58301	0	1.30	59855	237	0	16.37	0	11.05	0	1.35	1	0	2.04	0	23.32	0
prob5_020_050000_01	1165699	5.62	49389	0	2.64	51915	229	0	104.19	0	58.68	0	2.76	1	0	4.79	0	133.25	0
prob5_020_050000_02	1017536	0.71	5767	0	0.36	6195	170	0	103.14	0	57.90	0	0.38	1	0	5.91	0	131.60	0
prob5_020_050000_03	1062835	2.97	25391	0	1.37	26303	267	0	103.53	0	58.63	0	1.43	1	0	5.87	0	134.06	0
prob5_020_050000_04	1054328	3.56	31099	0	1.65	32805	260	0	103.33	0	62.74	0	1.72	1	0	5.62	0	143.40	0
prob5_020_050000_05	1022690	3.01	25537	0	1.42	26505	254	0	103.05	0	54.20	0	1.48	1	0	5.48	0	122.85	0
prob5_020_050000_06	1140141	58.53	587967	0	21.79	587967	232	0	103.66	0	53.66	0	22.76	1	0	4.38	0	120.56	0
prob5_020_050000_07	1064190	45.08	438417	0	17.72	439121	271	0	103.55	0	53.12	0	18.49	1	0	5.40	0	119.85	0
prob5_020_050000_08	1125739	58.22	587927	0	21.90	587927	242	0	103.81	0	51.44	0	22.85	1	0	4.36	0	114.91	0
prob5_020_050000_09	1025292	36.34	348763	0	14.20	351101	233	0	103.55	0	50.06	0	14.82	1	0	5.39	0	111.93	0
prob5_020_050000_10	1063866	17.54	158537	0	7.33	163091	255	0	103.65	0	53.72	0	7.65	1	0	4.94	0	121.11	0
prob5_020_100000_01	2005936	3.66	16477	0	1.75	17003	218	0	414.67	0	240.68	0	1.85	1	0	23.22	0	563.66	0
prob5_020_100000_02	2053969	2.88	13777	0	1.23	13801	220	0	413.49	0	291.87	0	1.30	1	0	17.99	0	673.18	0
prob5_020_100000_03	2302913	109.91	587953	0	41.68	587953	231	0	416.30	0	231.48	0	43.58	1	0	7.67	0	522.71	0
prob5_020_100000_04	2353252	0.51	2291	0	0.35	2727	185	0	416.45	0	246.38	0	0.37	1	0	21.76	0	565.76	0
prob5_020_100000_05	2380257	110.35	588025	0	41.70	588025	214	0	415.24	0	225.51	0	43.81	1	0	7.96	0	513.26	0
prob5_020_100000_06	2125925	109.79	587965	0	41.94	587965	242	0	413.98	0	229.66	0	44.03	1	0	9.89	0	523.90	0
prob5_020_100000_07	2160642	71.52	366822	0	28.61	373083	253	0	415.48	0	251.97	0	30.02	1	0	13.36	0	584.69	0
prob5_020_100000_08	1994490	0.53	2195	0	0.32	2225	216	0	413.93	0	230.49	0	0.34	1	0	12.19	0	529.17	0
prob5_020_100000_09	2099854	17.92	85461	0	7.66	86285	246	0	415.70	0	255.99	0	8.05	1	0	20.37	0	597.59	0
prob5_020_100000_10	2068359	4.91	22253	0	2.33	23647	235	0	413.75	0	271.84	0	2.46	1	0	21.76	0	626.84	0
prob5_030_020000_01	405739	499.72	8739283	0	204.59	9459341	328	0	16.42	0	8.01	0	16.91	2	0	2.33	0	17.10	0
prob5_030_020000_02	397982	2.17	35189	0	0.95	36215	303	0	16.53	0	9.32	0	0.99	1	0	2.09	0	19.82	0
prob5_030_020000_03	460347	1.95	30469	0	0.96	32583	267	0	16.51	0	8.66	0	1.00	1	0	2.35	0	18.34	0
prob5_030_020000_04	431900	0.03	467	0	0.02	521	190	0	16.56	0	8.69	0	0.02	1	0	1.74	0	18.61	0
prob5_030_020000_05	446907	0.11	1609	0	0.06	1727	215	0	16.46	0	9.05	0	0.07	1	0	2.33	0	19.32	0
prob5_030_020000_06	454698	0.42	6195	0	0.21	6539	256	0	16.57	0	9.32	0	0.21	1	0	2.18	0	19.77	0
prob5_030_020000_07	438897	0.05	777	0	0.04	851	197	0	16.52	0	9.65	0	0.04	1	0	1.71	0	20.67	0
prob5_030_020000_08	481787	0.28	4609	0	0.15	4861	210	0	16.56	0	9.00	0	0.16	1	0	1.62	0	19.01	0
prob5_030_020000_09	395340	20.43	322353	0	8.36	347103	302	0	16.42	0	9.11	0	8.70	1	0	2.70	0	19.34	0
prob5_030_020000_10	399316	29.32	478323	0	12.34	499797	294	0	16.43	0	9.07	0	12.88	1	0	2.30	0	19.23	0
prob5_030_050000_01	9939944	1.73	13441	0	0.77	13875	278	0	103.86	0	44.00	0	0.81	1	0	4.97	0	99.21	0
prob5_030_050000_02	998765	66.93	544079	0	28.77	557977	337	0	103.68	0	48.24	0	30.15	1	0	5.92	0	109.81	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob5_030_050000_03	1199349	1.18	8677	0	0.55	8929	266	0	104.45	0	54.32	0	0.58	1	0	4.28	0	124.34	0
prob5_030_050000_04	1009213	24.51	181977	0	11.56	195467	297	0	103.41	0	52.51	0	12.08	1	0	5.40	0	117.64	0
prob5_030_050000_05	1118597	0.23	1389	0	0.21	1429	232	0	104.28	0	50.93	0	0.23	1	0	3.86	0	115.65	0
prob5_030_050000_06	1130076	0.11	841	0	0.06	879	190	0	103.99	0	52.10	0	0.07	1	0	3.43	0	118.76	0
prob5_030_050000_07	991129	50.53	397177	0	21.52	413621	272	0	104.15	0	47.07	0	22.56	1	0	5.54	0	106.23	0
prob5_030_050000_08	1059798	654.76	5557469	0	259.04	5751645	323	0	103.67	0	51.08	0	106.62	2	0	6.15	0	116.61	0
prob5_030_050000_09	1053940	120.77	956423	0	55.23	1038003	301	0	103.94	0	55.75	0	57.54	1	0	5.69	0	126.87	0
prob5_030_050000_10	1115636	0.53	3947	0	0.38	4523	243	0	104.04	0	57.79	0	0.40	1	0	4.43	0	130.04	0
prob5_030_100000_01	2307625	0.83	3317	0	0.54	3595	237	0	417.09	0	182.69	0	0.57	1	0	12.98	0	426.36	0
prob5_030_100000_02	2285364	6.87	27973	0	4.07	31839	248	0	416.94	0	186.27	0	4.28	1	0	17.84	0	427.60	0
prob5_030_100000_03	2186271	1200.00	5688511	1	718.09	8442853	295	0	416.49	0	217.47	0	429.79	2	0	15.83	0	499.88	0
prob5_030_100000_04	2362815	2.21	8523	0	1.11	8793	245	0	417.61	0	196.44	0	1.18	1	0	13.27	0	451.30	0
prob5_030_100000_05	2382536	2.58	9857	0	1.36	9989	256	0	416.61	0	160.30	0	1.44	1	0	11.20	0	376.42	0
prob5_030_100000_06	2281791	7.59	31125	0	4.00	33979	250	0	417.17	0	206.52	0	4.20	1	0	23.38	0	482.14	0
prob5_030_100000_07	2020308	1.23	4705	0	0.74	4889	279	0	417.09	0	220.66	0	0.79	1	0	10.27	0	515.32	0
prob5_030_100000_08	2018858	75.97	316091	0	34.28	329449	301	0	416.01	0	159.91	0	36.00	1	0	16.16	0	367.16	0
prob5_030_100000_09	2122188	1200.00	5705887	1	1200.27	15784947	317	1	416.10	0	200.62	0	428.78	2	0	17.89	0	459.10	0
prob5_030_100000_10	2119588	615.05	2618855	0	280.90	2833677	322	0	416.79	0	185.83	0	295.49	1	0	14.76	0	428.70	0
prob5_050_020000_01	417544	0.15	2027	0	0.09	2093	339	0	16.46	0	2.93	0	0.09	1	0	1.27	0	6.06	0
prob5_050_020000_07	399643	0.09	1225	0	0.06	1283	291	0	16.53	0	2.66	0	0.06	1	0	1.51	0	5.57	0
prob5_050_020000_08	445098	288.80	3835031	0	116.15	4053129	361	0	16.42	0	7.10	0	16.91	2	0	2.30	0	15.27	0
prob5_050_020000_02	408220	41.08	563743	0	17.35	593171	361	0	16.66	0	7.89	0	17.16	2	0	2.37	0	17.01	0
prob5_050_020000_05	460819	0.65	8701	0	0.34	9323	282	0	16.53	0	4.61	0	0.35	1	0	1.82	0	9.60	0
prob5_050_020000_04	448914	1200.00	15953971	1	945.89	31665909	357	0	16.56	0	9.27	0	17.05	2	0	3.09	0	19.93	0
prob5_050_020000_03	452173	1200.00	16590423	1	1200.27	43076571	365	1	16.59	0	6.72	0	17.10	2	0	2.40	0	14.51	0
prob5_050_020000_10	431259	0.36	4815	0	0.20	4951	346	0	16.57	0	4.63	0	0.20	1	0	1.49	0	9.68	0
prob5_050_020000_09	405236	10.02	132911	0	5.16	147415	386	0	16.62	0	7.42	0	5.40	1	0	2.24	0	15.83	0
prob5_050_020000_06	482365	0.56	6963	0	0.26	7183	360	0	16.67	0	6.54	0	0.28	1	0	1.97	0	13.85	0
prob5_050_050000_07	1132833	1200.00	7907929	1	1200.28	18658518	347	1	104.39	0	40.61	0	107.58	2	0	7.00	0	92.83	0
prob5_050_050000_06	1051531	1.17	7755	0	0.62	8167	275	0	104.42	0	39.30	0	0.66	1	0	4.84	0	89.27	0
prob5_050_050000_05	995415	1200.00	8816619	1	1200.28	25402416	325	1	103.93	0	37.61	0	107.03	2	0	5.19	0	85.76	0
prob5_050_050000_04	1127941	1200.00	8330931	1	1150.68	18329039	353	0	104.53	0	42.69	0	107.70	2	0	5.80	0	97.35	0
prob5_050_050000_03	997119	688.68	4466119	0	328.67	4868405	362	0	104.22	0	40.58	0	107.31	2	0	6.42	0	92.30	0
prob5_050_050000_02	1064788	135.98	912475	0	67.90	996969	328	0	104.52	0	44.35	0	70.87	1	0	7.53	0	100.50	0
prob5_050_050000_01	1017578	17.77	124499	0	7.86	128351	327	0	104.39	0	37.94	0	14.27	1	0	6.70	0	86.59	0
prob5_050_050000_10	991878	12.76	81429	0	5.99	85137	347	0	104.14	0	39.04	0	6.24	1	0	5.85	0	88.39	0
prob5_050_050000_09	1046749	4.61	29217	0	2.22	30371	374	0	104.62	0	49.07	0	2.32	1	0	7.91	0	111.33	0
prob5_050_050000_08	1013441	30.62	209665	0	13.70	222843	343	0	104.65	0	40.55	0	8.22	1	0	6.72	0	92.35	0
prob5_050_100000_01	2051814	62.94	238007	0	27.37	244347	352	0	417.15	0	156.55	0	28.72	1	0	16.26	0	359.82	0
prob5_050_100000_02	2172414	183.71	677619	0	80.80	696745	373	0	418.17	0	169.86	0	85.09	1	0	19.02	0	387.12	0
prob5_050_100000_03	2283609	1200.00	4700525	1	1200.29	12907836	343	1	418.71	0	169.44	0	432.17	2	0	16.53	0	381.99	0
prob5_050_100000_04	2408412	435.38	1649947	0	187.80	1720959	338	0	419.11	0	160.62	0	197.91	1	0	19.65	0	367.71	0
prob5_050_100000_05	2170260	3.73	13109	0	1.94	12738	343	0	419.01	0	162.51	0	2.06	1	0	13.90	0	376.44	0
prob5_050_100000_06	2309974	3.23	12091	0	1.48	12305	316	0	419.43	0	151.69	0	1.57	1	0	9.88	0	358.11	0
prob5_050_100000_07	2396726	3.35	12009	0	1.77	12311	324	0	418.80	0	161.82	0	1.88	1	0	15.27	0	368.40	0
prob5_050_100000_08	1972232	152.26	558219	0	71.79	583559	379	0	416.38	0	141.91	0	75.59	1	0	17.46	0	325.83	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob5_050_100000_09	2083227	9.26	338845	0	4.68	35173	364	0	418.01	0	175.79	0	4.95	1	0	13.44	0	404.30	0
prob5_050_100000_10	2252938	39.17	137887	0	19.13	146145	374	0	418.35	0	137.70	0	20.23	1	0	17.67	0	312.01	0
prob5_100_020000_01	428945	0.93	9589	0	0.47	9781	510	0	16.56	0	4.19	0	0.49	1	0	3.47	0	8.83	0
prob5_100_020000_02	418489	5.98	61198	0	2.82	62700	526	0	16.58	0	4.15	0	2.93	1	0	2.85	0	8.84	0
prob5_100_020000_03	395910	1200.00	12483023	1	621.54	16255891	502	0	16.62	0	6.22	0	17.13	2	0	3.33	0	13.20	0
prob5_100_020000_04	426035	1200.29	13192991	1	1200.29	33147365	518	1	16.64	0	17.14	0	17.14	2	0	7.51	0	25.16	0
prob5_100_020000_05	396612	5.43	56441	0	2.68	59815	502	0	16.59	0	2.76	0	0.65	1	0	2.44	0	9.86	0
prob5_100_020000_06	420174	134.86	1373823	0	61.19	1406417	540	0	16.64	0	8.01	0	0.91	2	0	4.22	0	17.15	0
prob5_100_020000_07	401159	1.66	18226	0	0.87	19140	415	0	16.60	0	5.93	0	17.16	1	0	3.64	0	12.49	0
prob5_100_020000_08	481558	1200.00	12516704	1	1200.28	31602106	563	1	16.55	0	16.51	0	17.05	2	0	10.30	0	33.70	0
prob5_100_020000_09	442708	499.95	5191665	0	247.28	5417325	522	0	16.51	0	9.37	0	17.28	2	0	5.17	0	20.06	0
prob5_100_020000_10	394575	0.81	9027	0	0.42	9223	383	0	16.59	0	2.81	0	0.44	1	0	1.69	0	5.89	0
prob5_100_050000_01	1084506	80.65	430263	0	37.54	450781	492	0	104.04	0	26.49	0	39.38	1	0	5.90	0	60.54	0
prob5_100_050000_02	1195937	1200.00	6529735	1	1200.28	16661558	578	1	104.83	0	75.74	0	108.02	2	0	26.89	0	169.42	0
prob5_100_050000_03	1185978	76.10	410149	0	38.07	426855	566	0	104.90	0	22.64	0	39.94	1	0	6.38	0	51.55	0
prob5_100_050000_04	988464	9.00	49261	0	4.60	51609	482	0	104.50	0	20.40	0	4.82	1	0	7.11	0	44.75	0
prob5_100_050000_05	1051719	16.94	87931	0	8.92	94273	478	0	104.51	0	25.52	0	9.29	1	0	5.06	0	58.64	0
prob5_100_050000_06	996581	1200.00	67563363	1	1200.28	19070083	560	1	104.73	0	25.99	0	107.71	2	0	6.92	0	59.07	0
prob5_100_050000_07	1182257	52.73	275051	0	22.93	280621	569	0	104.87	0	28.42	0	23.91	1	0	6.49	0	63.75	0
prob5_100_050000_08	1032213	4.18	21990	0	2.01	22476	612	0	104.86	0	19.35	0	2.12	1	0	8.83	0	42.54	0
prob5_100_050000_09	1060660	67.22	363763	0	33.42	388317	536	0	104.72	0	27.22	0	35.06	1	0	5.81	0	61.79	0
prob5_100_050000_10	1094646	1200.00	6555083	1	1200.29	17539934	564	1	104.88	0	15.84	0	107.95	2	0	4.70	0	34.77	0
prob5_100_100000_01	2030175	5.49	16529	0	2.68	16979	405	0	417.74	0	95.99	0	2.86	1	0	13.79	0	219.11	0
prob5_100_100000_02	2295478	7.05	20527	0	3.32	20987	429	0	419.37	0	48.09	0	3.52	1	0	11.74	0	110.17	0
prob5_100_100000_03	2000431	6.03	17321	0	2.62	17639	416	0	418.51	0	94.26	0	2.76	1	0	9.48	0	222.66	0
prob5_100_100000_04	2293465	1200.00	3645877	1	1200.29	10104377	573	1	419.52	0	83.77	0	432.80	2	0	13.27	0	193.31	0
prob5_100_100000_05	2195801	1200.00	3704003	1	1200.28	10559151	534	1	419.32	0	104.20	0	432.76	2	0	9.67	0	239.12	0
prob5_100_100000_06	2303104	211.59	624645	0	105.95	656367	569	0	419.57	0	81.25	0	111.26	1	0	10.08	0	187.27	0
prob5_100_100000_07	2118517	458.48	1471053	0	185.98	1501311	562	0	418.31	0	103.51	0	195.06	1	0	12.91	0	237.59	0
prob5_100_100000_08	2249881	0.49	1621	0	0.29	1703	415	0	418.69	0	96.87	0	0.32	1	0	6.52	0	225.73	0
prob5_100_100000_09	2157177	1200.00	3813543	1	1200.28	10591725	569	1	418.49	0	114.84	0	432.11	2	0	15.88	0	275.19	0
prob5_100_100000_10	2315957	3.11	9485	0	1.73	10081	420	0	419.11	0	38.24	0	1.84	1	0	7.42	0	84.33	0
prob5_200_020000_01	421353	1200.00	10466019	1	1200.28	22328067	693	1	16.82	0	8.83	0	17.33	2	0	4.28	0	18.91	0
prob5_200_020000_02	429341	115.55	975543	0	63.87	988471	721	0	16.62	0	6.79	0	17.16	2	0	4.74	0	14.53	0
prob5_200_020000_03	452035	21.03	176389	0	13.56	181331	726	0	16.81	0	11.52	0	14.18	1	0	7.02	0	24.43	0
prob5_200_020000_04	455774	1200.00	10255021	1	1200.28	21360986	679	1	16.76	0	18.03	0	17.28	2	0	16.42	0	33.76	0
prob5_200_020000_05	413443	1.01	9157	0	0.62	9497	510	0	16.64	0	3.83	0	0.65	1	0	3.08	0	8.21	0
prob5_200_020000_06	453689	7.12	60079	0	3.93	61045	515	0	16.78	0	4.72	0	4.12	1	0	3.72	0	10.25	0
prob5_200_020000_07	445700	19.11	158894	0	11.08	162400	629	0	16.75	0	10.81	0	11.64	1	0	7.86	0	23.15	0
prob5_200_020000_08	416889	1200.00	10185445	1	1200.27	20605316	693	1	16.60	0	5.03	0	17.11	2	0	3.06	0	10.73	0
prob5_200_020000_09	402623	13.25	115301	0	8.06	119889	683	0	16.67	0	11.65	0	8.40	1	0	8.30	0	24.79	0
prob5_200_020000_10	403516	46.97	388908	0	26.65	394146	754	0	16.64	0	6.44	0	17.13	2	0	4.72	0	13.87	0
prob5_200_050000_01	1043434	20.21	86789	0	9.91	89185	618	0	105.12	0	42.76	0	10.57	1	0	33.58	0	95.55	0
prob5_200_050000_02	1173582	1200.00	5008329	1	1200.28	12727540	906	1	105.32	0	23.14	0	108.36	2	0	17.08	0	51.58	0
prob5_200_050000_03	1011027	1200.00	4756997	1	1200.29	11540459	796	1	104.95	0	11.84	0	108.12	2	0	4.95	0	26.26	0
prob5_200_050000_04	1074850	20.40	84919	0	9.69	87617	823	0	104.79	0	19.73	0	10.15	1	0	8.21	0	44.07	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob5_200_050000_05	1044234	22.02	89973	0	10.57	91763	810	0	104.44	0	27.93	0	11.12	1	0	8.46	0	61.61	0
prob5_200_050000_06	1048194	52.00	212621	0	24.03	215219	809	0	105.34	0	13.72	0	25.32	1	0	7.62	0	30.57	0
prob5_200_050000_07	1024966	2.96	13251	0	1.55	13729	665	0	104.85	0	13.04	0	1.62	1	0	9.14	0	29.31	0
prob5_200_050000_08	1072564	1200.00	5142713	1	1200.36	12148615	810	1	105.58	0	11.15	0	108.75	2	0	4.81	0	24.71	0
prob5_200_050000_09	1156161	192.65	811017	0	87.82	834243	839	0	104.91	0	26.35	0	92.11	1	0	19.20	0	58.18	0
prob5_200_050000_10	1132731	1200.00	5034071	1	1200.35	12783949	816	1	105.17	0	41.94	0	108.26	2	0	33.14	0	93.16	0
prob5_200_100000_01	1993435	41.99	106108	0	20.43	109912	813	0	418.82	0	70.10	0	21.54	1	0	14.01	0	164.95	0
prob5_200_100000_02	2204128	1200.00	2991173	1	1200.28	8224138	876	1	419.09	0	46.40	0	433.24	2	0	13.42	0	107.08	0
prob5_200_100000_03	2161366	1200.00	3043217	1	1200.29	8329564	915	1	420.41	0	76.21	0	433.29	2	0	12.84	0	176.66	0
prob5_200_100000_04	2036629	1200.00	3061285	1	870.48	5326069	818	0	419.22	0	30.11	0	433.86	2	0	15.10	0	66.06	0
prob5_200_100000_05	2178235	1200.00	3053291	1	1200.28	8271750	913	1	420.94	0	91.44	0	435.15	2	0	17.92	0	214.92	0
prob5_200_100000_06	2245002	18.89	47535	0	8.76	48009	834	0	421.12	0	19.66	0	9.36	1	0	9.10	0	43.39	0
prob5_200_100000_07	2095422	24.62	60509	0	10.93	61333	620	0	419.96	0	21.30	0	11.64	1	0	6.50	0	46.72	0
prob5_200_100000_08	2064083	23.18	58379	0	11.44	59943	698	0	419.60	0	50.50	0	12.11	1	0	13.17	0	114.26	0
prob5_200_100000_09	2275872	1200.00	2991575	1	1200.28	8191070	726	1	419.21	0	96.66	0	433.00	2	0	27.29	0	223.20	0
prob5_200_100000_10	2396790	37.61	90355	0	17.62	92403	644	0	421.36	0	36.27	0	18.51	1	0	26.03	0	81.14	0
prob6_05_005000_c45_T1	1698027	0.00	1	0	0.00	1	44	0	8.48	0	0.46	0	0.00	0	0	0.49	0	0.80	0
prob6_05_005000_c45_T2	1039413	0.00	13	0	0.00	13	95	0	8.45	0	2.10	0	0.00	0	0	0.99	0	4.31	0
prob6_05_005000_c45_T3	1204653	0.00	43	0	0.00	43	120	0	8.34	0	1.49	0	0.00	0	0	0.77	0	2.99	0
prob6_05_005000_c45_T4	1027675	0.01	43	0	0.01	43	148	0	10.06	0	1.32	0	0.00	0	0	0.94	0	2.75	0
prob6_05_005000_c45_T5	1210656	0.00	43	0	0.00	43	125	0	8.47	0	2.02	0	0.00	0	0	0.90	0	4.11	0
prob6_05_005000_c45_T6	965553	0.00	39	0	0.00	39	5	0	8.35	0	0.68	0	0.00	0	0	0.52	0	1.40	0
prob6_05_005000_c45_T7	966531	0.00	39	0	0.00	39	5	0	8.41	0	0.53	0	0.00	0	0	0.44	0	1.09	0
prob6_05_005000_c45_T8	1205631	0.00	43	0	0.00	43	113	0	8.43	0	1.36	0	0.00	0	0	0.66	0	2.74	0
prob6_05_005000_c50_T1	1805973	0.00	11	0	0.00	11	111	0	9.43	0	0.39	0	0.00	0	0	0.42	0	0.85	0
prob6_05_005000_c50_T2	1154761	0.00	15	0	0.00	15	113	0	9.40	0	1.81	0	0.00	0	0	0.91	0	3.73	0
prob6_05_005000_c50_T3	1342463	0.00	43	0	0.00	43	132	0	9.29	0	1.81	0	0.00	0	0	0.80	0	3.51	0
prob6_05_005000_c50_T4	1149985	0.00	25	0	0.00	25	118	0	11.20	0	1.36	0	0.00	0	0	0.83	0	2.81	0
prob6_05_005000_c50_T5	1349524	0.00	37	0	0.00	37	112	0	9.41	0	1200.00	1	0.00	0	0	1200.00	1	18.76	0
prob6_05_005000_c50_T6	1089063	0.00	39	0	0.00	39	5	0	9.30	0	0.70	0	0.00	0	0	0.55	0	1.26	0
prob6_05_005000_c50_T7	1090165	0.00	43	0	0.00	43	5	0	9.38	0	0.63	0	0.00	0	0	0.52	0	1.32	0
prob6_05_005000_c50_T8	1343565	0.00	43	0	0.00	43	113	0	9.37	0	1.52	0	0.00	0	0	0.70	0	3.12	0
prob6_05_005000_c55_T1	1904847	0.00	11	0	0.00	11	94	0	10.42	0	0.36	0	0.00	0	0	0.41	0	0.75	0
prob6_05_005000_c55_T2	1266985	0.00	17	0	0.00	17	131	0	10.38	0	2.60	0	0.00	0	0	1.07	0	5.25	0
prob6_05_005000_c55_T3	1479472	0.00	15	0	0.00	15	92	0	10.25	0	1.90	0	0.00	0	0	0.78	0	3.83	0
prob6_05_005000_c55_T4	1266034	0.00	17	0	0.01	17	114	0	12.33	0	1.47	0	0.00	0	0	0.86	0	2.95	0
prob6_05_005000_c55_T5	1487682	0.00	21	0	0.00	21	106	0	10.40	0	1200.00	1	0.00	0	0	1200.00	1	20.67	0
prob6_05_005000_c55_T6	1212572	0.00	39	0	0.00	39	5	0	10.24	0	0.80	0	0.00	0	0	0.69	0	1.51	0
prob6_05_005000_c55_T7	1213799	0.00	43	0	0.00	43	5	0	10.34	0	0.65	0	0.00	0	0	0.47	0	1.30	0
prob6_05_005000_c55_T8	1480699	0.00	15	0	0.00	15	87	0	10.33	0	1.61	0	0.00	0	0	0.68	0	3.25	0
prob6_05_010000_c45_T1	3399221	0.00	1	0	0.00	1	53	0	34.10	0	1.04	0	0.00	0	0	0.66	0	2.14	0
prob6_05_010000_c45_T2	2096915	0.00	7	0	0.00	7	50	0	34.11	0	5.22	0	0.00	0	0	1.86	0	10.69	0
prob6_05_010000_c45_T3	2425380	0.00	43	0	0.00	43	149	0	33.81	0	3.67	0	0.00	0	0	1.08	0	7.53	0
prob6_05_010000_c45_T4	2072180	0.00	43	0	0.01	43	206	0	40.69	0	3.53	0	0.01	0	0	1.64	0	7.20	0
prob6_05_010000_c45_T5	2437752	0.00	47	0	0.00	47	134	0	34.12	0	6.26	0	0.00	0	0	1.60	0	12.84	0
prob6_05_010000_c45_T6	1949280	0.00	39	0	0.00	39	5	0	33.81	0	1.64	0	0.00	0	0	0.93	0	3.38	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob6_05_010000_c45_T7	1951211	0.00	43	0	0.00	43	5	0	34.19	0	1.57	0	0.00	0	0	0.78	0	3.28	0
prob6_05_010000_c45_T8	2427311	0.00	43	0	0.00	43	125	0	34.17	0	3.25	0	0.00	0	0	0.89	0	6.59	0
prob6_05_010000_c50_T1	3615433	0.00	1	0	0.00	1	55	0	38.05	0	1.09	0	0.00	0	0	0.75	0	2.25	0
prob6_05_010000_c50_T2	2329193	0.00	11	0	0.00	11	103	0	37.95	0	6.25	0	0.00	0	0	2.10	0	12.77	0
prob6_05_010000_c50_T3	2703660	0.00	43	0	0.00	43	131	0	37.63	0	4.09	0	0.00	0	0	1.16	0	8.37	0
prob6_05_010000_c50_T4	2319058	0.00	37	0	0.00	37	166	0	45.32	0	3.64	0	0.00	0	0	1.49	0	7.45	0
prob6_05_010000_c50_T5	2718008	0.00	43	0	0.00	43	121	0	37.99	0	6.55	0	0.00	0	0	1.69	0	13.39	0
prob6_05_010000_c50_T6	2198760	0.00	39	0	0.00	39	5	0	37.62	0	1.58	0	0.00	0	0	0.78	0	3.28	0
prob6_05_010000_c50_T7	2200941	0.00	43	0	0.00	43	5	0	37.98	0	1.46	0	0.00	0	0	0.74	0	3.03	0
prob6_05_010000_c50_T8	2705841	0.00	43	0	0.00	43	112	0	37.97	0	3.52	0	0.00	0	0	1.05	0	7.18	0
prob6_05_010000_c55_T1	3813666	0.00	1	0	0.00	1	54	0	41.80	0	1.01	0	0.00	0	0	0.63	0	2.03	0
prob6_05_010000_c55_T2	2555532	0.00	29	0	0.00	29	205	0	41.80	0	7.05	0	0.00	0	0	2.38	0	14.48	0
prob6_05_010000_c55_T3	2980539	0.00	25	0	0.00	31	110	0	41.42	0	4.48	0	0.01	0	0	1.22	0	9.19	0
prob6_05_010000_c55_T4	2556337	0.00	13	0	0.00	11	91	0	49.87	0	3.71	0	0.00	0	0	1.10	0	7.62	0
prob6_05_010000_c55_T5	2996888	0.00	33	0	0.00	33	126	0	41.82	0	1200.00	1	0.00	0	0	3.56	0	83.57	0
prob6_05_010000_c55_T6	2448239	0.00	39	0	0.00	39	5	0	41.44	0	1.87	0	0.00	0	0	0.79	0	3.70	0
prob6_05_010000_c55_T7	2450669	0.00	43	0	0.00	43	5	0	41.89	0	1.53	0	0.00	0	0	0.72	0	3.17	0
prob6_05_010000_c55_T8	2982969	0.00	25	0	0.00	31	95	0	41.80	0	3.70	0	0.00	0	0	1.23	0	7.61	0
prob6_05_020000_c45_T1	6806681	0.00	1	0	0.00	1	57	0	136.37	0	2.55	0	0.00	0	0	1.70	0	5.26	0
prob6_05_020000_c45_T2	4177909	0.00	13	0	0.00	13	82	0	136.05	0	15.91	0	0.00	0	0	4.79	0	32.76	0
prob6_05_020000_c45_T3	4868001	0.00	43	0	0.01	43	126	0	136.00	0	12.15	0	0.01	0	0	2.24	0	25.30	0
prob6_05_020000_c45_T4	4167747	0.01	45	0	0.02	45	149	0	163.63	0	10.62	0	0.01	0	0	2.93	0	22.01	0
prob6_05_020000_c45_T5	4858113	0.01	43	0	0.01	43	165	0	136.08	0	18.06	0	0.01	0	0	3.79	0	37.25	0
prob6_05_020000_c45_T6	3920701	0.00	39	0	0.00	39	5	0	136.14	0	5.30	0	0.00	0	0	2.28	0	10.98	0
prob6_05_020000_c45_T7	3924594	0.00	39	0	0.00	39	5	0	138.34	0	5.17	0	0.00	0	0	1.61	0	10.63	0
prob6_05_020000_c45_T8	4871794	0.00	43	0	0.00	43	106	0	138.21	0	11.53	0	0.00	0	0	2.00	0	24.06	0
prob6_05_020000_c50_T1	7237551	0.00	11	0	0.00	11	122	0	151.35	0	2.62	0	0.00	0	0	1.78	0	5.48	0
prob6_05_020000_c50_T2	4641866	0.00	15	0	0.01	15	142	0	151.29	0	13.54	0	0.00	0	0	4.25	0	28.14	0
prob6_05_020000_c50_T3	5428238	0.00	43	0	0.01	43	130	0	151.44	0	12.98	0	0.00	0	0	2.20	0	27.14	0
prob6_05_020000_c50_T4	4663064	0.00	43	0	0.01	43	167	0	181.83	0	12.03	0	0.01	0	0	2.43	0	24.97	0
prob6_05_020000_c50_T5	5416658	0.01	43	0	0.01	43	145	0	151.35	0	1200.00	1	0.01	0	0	1200.00	1	301.86	0
prob6_05_020000_c50_T6	4422938	0.00	39	0	0.00	39	5	0	151.44	0	7.96	0	0.00	0	0	1.64	0	16.77	0
prob6_05_020000_c50_T7	4427330	0.00	45	0	0.00	45	5	0	153.58	0	6.32	0	0.00	0	0	1.69	0	13.21	0
prob6_05_020000_c50_T8	5432530	0.00	43	0	0.01	43	111	0	153.73	0	12.02	0	0.01	0	0	2.00	0	24.99	0
prob6_05_020000_c55_T1	7631351	0.00	1	0	0.00	1	59	0	166.64	0	2.46	0	0.00	0	0	1.78	0	5.15	0
prob6_05_020000_c55_T2	5093438	0.00	29	0	0.01	29	193	0	166.74	0	26.99	0	0.01	0	0	4.57	0	55.72	0
prob6_05_020000_c55_T3	5985575	0.00	43	0	0.01	43	120	0	166.75	0	13.95	0	0.00	0	0	2.33	0	28.81	0
prob6_05_020000_c55_T4	5138901	0.01	17	0	0.01	15	115	0	200.28	0	12.71	0	0.01	0	0	2.35	0	26.33	0
prob6_05_020000_c55_T5	5972391	0.01	43	0	0.01	43	161	0	167.26	0	1200.00	1	0.01	0	0	1.53	0	331.72	0
prob6_05_020000_c55_T6	4925175	0.00	39	0	0.00	39	5	0	169.29	0	7.03	0	0.00	0	0	1.73	0	14.38	0
prob6_05_020000_c55_T7	4930066	0.00	45	0	0.00	45	5	0	169.12	0	5.46	0	0.00	0	0	2.20	0	11.28	0
prob6_05_020000_c55_T8	5990366	0.00	43	0	0.00	43	106	0	166.77	0	12.76	0	0.00	0	0	2.20	0	26.51	0
prob6_05_100000_c45_T1	34035545	0.00	1	0	0.00	1	67	0	1200.00	1	39.26	0	0.00	0	0	17.00	0	95.50	0
prob6_05_100000_c45_T2	20849642	0.00	9	0	0.01	9	88	0	1200.00	1	489.61	0	0.01	0	0	45.01	0	1159.21	0
prob6_05_100000_c45_T3	24227812	0.02	43	0	0.03	43	135	0	1200.00	1	348.48	0	0.02	0	0	13.48	0	809.30	0
prob6_05_100000_c45_T4	20748512	0.05	47	0	0.08	47	131	0	1200.00	1	276.38	0	0.05	0	0	18.75	0	644.38	0

Instance	opt	Model M1 time	Model M1 #nodes	Model M1 TL	Model M3 time	Model M3 #nodes	Model M3 #cols	Model M3 TL	DP time	DP TL	DSS-1TH time	DSS-1TH TL	FMT time	FMT best	FMT TL	DSS-4TH time	DSS-4TH TL	DSS+DP time	DSS+DP TL
prob6_05_100000_c45_T5	24235561	0.01	39	0	0.01	39	92	0	1200.00	1	349.47	0	0.01	0	0	16.12	0	823.30	0
prob6_05_100000_c45_T6	19501212	0.01	39	0	0.01	39	5	0	1200.00	1	188.68	0	0.01	1	0	10.45	0	427.93	0
prob6_05_100000_c45_T7	19520701	0.01	43	0	0.01	43	5	0	1200.00	1	169.23	0	0.01	0	0	9.90	0	382.97	0
prob6_05_100000_c45_T8	24246801	0.02	43	0	0.03	43	107	0	1200.00	1	345.69	0	0.02	0	0	13.24	0	801.90	0
prob6_05_100000_c50_T1	36195681	0.00	1	0	0.01	1	66	0	1200.00	1	28.77	0	0.00	0	0	14.74	0	68.47	0
prob6_05_100000_c50_T2	23170257	0.01	11	0	0.02	11	136	0	1200.00	1	532.75	0	0.01	0	0	44.00	0	1200.00	1
prob6_05_100000_c50_T3	27017190	0.02	43	0	0.03	43	116	0	1200.00	1	366.03	0	0.02	0	0	13.97	0	852.31	0
prob6_05_100000_c50_T4	23217770	0.01	43	0	0.03	43	142	0	1200.00	1	341.35	0	0.02	0	0	18.98	0	805.01	0
prob6_05_100000_c50_T5	27027970	0.01	39	0	0.01	39	94	0	1200.00	1	356.44	0	0.01	0	0	15.14	0	850.80	0
prob6_05_100000_c50_T6	22000690	0.01	39	0	0.01	39	5	0	1200.00	1	214.77	0	0.01	1	0	11.22	0	486.67	0
prob6_05_100000_c50_T7	22022675	0.01	41	0	0.01	41	5	0	1200.00	1	204.03	0	0.01	0	0	11.33	0	461.23	0
prob6_05_100000_c50_T8	27038875	0.02	43	0	0.03	43	88	0	1200.00	1	359.63	0	0.02	0	0	13.90	0	839.34	0
prob6_05_100000_c55_T1	38169768	0.00	1	0	0.01	1	71	0	1200.00	1	29.22	0	0.00	0	0	14.71	0	69.09	0
prob6_05_100000_c55_T2	25427449	0.02	29	0	0.04	29	290	0	1200.00	1	673.68	0	0.02	0	0	60.18	0	1200.00	1
prob6_05_100000_c55_T3	29791767	0.02	43	0	0.03	43	117	0	1200.00	1	383.86	0	0.02	0	0	14.82	0	894.44	0
prob6_05_100000_c55_T4	25575605	0.03	31	0	0.06	29	116	0	1200.00	1	348.66	0	0.04	0	0	22.16	0	820.04	0
prob6_05_100000_c55_T5	29804919	0.05	43	0	0.08	43	147	0	1200.00	1	395.66	0	0.05	0	0	16.48	0	914.18	0
prob6_05_100000_c55_T6	24500167	0.01	39	0	0.01	39	5	0	1200.00	1	184.65	0	0.03	1	0	11.71	0	414.92	0
prob6_05_100000_c55_T7	24524651	0.01	43	0	0.01	43	5	0	1200.00	1	188.29	0	0.01	0	0	15.30	0	423.56	0
prob6_05_100000_c55_T8	29816051	0.02	43	0	0.03	43	104	0	1200.00	1	395.00	0	0.02	0	0	14.59	0	910.05	0
prob6_05_200000_c45_T1	68061246	0.01	1	0	0.02	1	72	0	1200.00	1	158.50	0	0.01	0	0	51.40	0	393.62	0
prob6_05_200000_c45_T2	41685687	0.03	33	0	0.04	33	177	0	1200.00	1	1200.00	1	0.03	1	0	197.00	0	1200.00	1
prob6_05_200000_c45_T3	48486870	0.03	43	0	0.06	43	118	0	1200.00	1	1200.00	1	0.02	0	0	34.39	0	1200.00	1
prob6_05_200000_c45_T4	41538770	0.05	43	0	0.07	43	61	0	1200.00	1	1200.00	1	0.06	0	0	52.58	0	1200.00	1
prob6_05_200000_c45_T5	48473792	0.02	43	0	0.05	43	153	0	1200.00	1	1200.00	1	0.03	0	0	287.79	0	1200.00	1
prob6_05_200000_c45_T6	39043470	0.02	39	0	0.05	39	5	0	1200.00	1	1030.64	0	0.03	0	0	39.82	0	1200.00	1
prob6_05_200000_c45_T7	39082481	0.02	39	0	0.01	39	5	0	1200.00	1	1200.00	1	0.02	0	0	39.63	0	1200.00	1
prob6_05_200000_c45_T8	48524881	0.03	43	0	0.06	43	102	0	1200.00	1	1139.89	0	0.03	0	0	34.11	0	1200.00	1
prob6_05_200000_c50_T1	72387771	0.01	1	0	0.02	1	74	0	1200.00	1	157.26	0	0.01	0	0	43.88	0	1200.00	1
prob6_05_200000_c50_T2	46326647	0.02	21	0	0.06	21	236	0	1200.00	1	1200.00	1	0.06	0	0	180.23	0	1200.00	1
prob6_05_200000_c50_T3	54073025	0.03	43	0	0.05	43	103	0	1200.00	1	1200.00	1	0.05	0	0	35.75	0	1200.00	1
prob6_05_200000_c50_T4	46479725	0.03	43	0	0.06	43	118	0	1200.00	1	1200.00	1	0.06	0	0	61.56	0	1200.00	1
prob6_05_200000_c50_T5	54059192	0.02	39	0	0.03	39	90	0	1200.00	1	1200.00	1	0.03	0	0	39.13	0	1200.00	1
prob6_05_200000_c50_T6	44048425	0.02	39	0	0.01	39	5	0	1200.00	1	1067.41	0	0.02	1	0	33.39	0	1200.00	1
prob6_05_200000_c50_T7	44092437	0.02	39	0	0.01	39	5	0	1200.00	1	1076.39	0	0.02	1	0	44.26	0	1200.00	1
prob6_05_200000_c50_T8	54116337	0.03	43	0	0.05	43	92	0	1200.00	1	1200.00	1	0.03	0	0	35.46	0	1200.00	1
prob6_05_200000_c55_T1	76340453	0.01	1	0	0.02	1	74	0	1200.00	1	160.72	0	0.01	0	0	393.85	0	404.41	0
prob6_05_200000_c55_T2	50840679	0.03	29	0	0.07	29	291	0	1200.00	1	1200.00	1	0.03	0	0	270.23	0	1200.00	1
prob6_05_200000_c55_T3	59629279	0.02	43	0	0.04	43	109	0	1200.00	1	1200.00	1	0.02	0	0	37.56	0	1200.00	1
prob6_05_200000_c55_T4	51200879	0.06	31	0	0.11	29	112	0	1200.00	1	1200.00	1	0.07	0	0	48.16	0	1200.00	1
prob6_05_200000_c55_T5	59614163	0.02	39	0	0.03	39	84	0	1200.00	1	1200.00	1	0.03	0	0	43.41	0	1200.00	1
prob6_05_200000_c55_T6	49053379	0.02	39	0	0.01	39	5	0	1200.00	1	1013.13	0	0.02	0	0	34.76	0	1200.00	1
prob6_05_200000_c55_T7	49102391	0.02	43	0	0.03	43	5	0	1200.00	1	1021.32	0	0.03	0	0	48.23	0	1200.00	1
prob6_05_200000_c55_T8	59677791	0.03	43	0	0.05	43	93	0	1200.00	1	1200.00	1	0.03	0	0	36.03	0	1200.00	1
prob6_10_005000_c45_T1	1698029	0.00	21	0	0.00	21	145	0	8.48	0	0.35	0	0.00	0	0	0.38	0	0.68	0
prob6_10_005000_c45_T2	1041067	0.00	23	0	0.00	23	176	0	8.48	0	1.41	0	0.00	0	0	1.06	0	2.87	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob6_10_005000_c45_T3	1211723	0.01	193	0	0.00	219	208	0	8.40	0	1.37	0	0.00	1	0	0.75	0	2.82	0
prob6_10_005000_c45_T4	1037463	0.00	21	0	0.00	21	153	0	10.13	0	0.65	0	0.00	0	0	0.66	0	1.32	0
prob6_10_005000_c45_T5	1219499	0.00	189	0	0.00	207	215	0	8.48	0	0.59	0	0.00	1	0	1.02	0	16.98	0
prob6_10_005000_c45_T6	990623	0.00	923	0	0.00	923	10	0	1200.00	1	0.56	0	0.01	1	0	0.51	0	1.11	0
prob6_10_005000_c45_T7	991624	0.01	941	0	0.01	941	215	0	8.40	0	0.59	0	0.01	1	0	0.55	0	1.17	0
prob6_10_005000_c45_T8	1212624	0.01	217	0	0.00	231	184	0	8.50	0	0.50	0	0.01	0	0	0.69	0	1.16	0
prob6_10_005000_c50_T7	1805976	0.00	21	0	0.00	21	150	0	8.51	0	1.06	0	0.00	1	0	0.70	0	2.19	0
prob6_10_005000_c50_T6	1156210	0.00	21	0	0.00	21	155	0	9.44	0	0.39	0	0.00	0	0	0.46	0	0.81	0
prob6_10_005000_c50_T5	1348033	0.00	27	0	0.00	29	146	0	9.37	0	1.78	0	0.00	1	0	1.09	0	3.64	0
prob6_10_005000_c50_T4	1150019	0.01	465	0	0.13	471	520	0	11.26	0	1.17	0	0.00	0	0	0.71	0	2.35	0
prob6_10_005000_c50_T3	1357039	0.01	21	0	0.01	21	133	0	9.43	0	1.33	0	0.01	0	0	0.95	0	2.73	0
prob6_10_005000_c50_T2	1114133	0.01	923	0	0.00	923	10	0	9.35	0	1.31	0	0.01	0	0	1.00	0	2.57	0
prob6_10_005000_c50_T1	1115260	0.01	925	0	0.00	925	10	0	9.47	0	0.54	0	0.01	0	0	0.49	0	1.11	0
prob6_10_005000_c50_T8	1349160	0.00	27	0	0.00	29	140	0	9.47	0	0.60	0	0.01	0	0	0.55	0	1.27	0
prob6_10_005000_c55_T7	1904850	0.00	21	0	0.00	21	156	0	10.39	0	1.31	0	0.00	1	0	0.69	0	2.72	0
prob6_10_005000_c55_T6	1271494	0.00	15	0	0.00	15	87	0	10.43	0	0.23	0	0.00	0	0	0.28	0	0.48	0
prob6_10_005000_c55_T5	1480220	0.00	251	0	0.00	263	186	0	10.31	0	1.35	0	0.01	1	0	0.81	0	3.29	0
prob6_10_005000_c55_T4	1267218	0.00	31	0	0.00	21	160	0	12.40	0	2.10	0	0.01	0	0	0.91	0	2.77	0
prob6_10_005000_c55_T3	1489754	0.01	223	0	0.00	223	186	0	10.40	0	1.03	0	0.01	0	0	1.05	0	4.29	0
prob6_10_005000_c55_T2	1212920	0.01	923	0	0.00	923	10	0	10.30	0	0.59	0	0.01	0	0	0.57	0	1.21	0
prob6_10_005000_c55_T1	1214146	0.01	923	0	0.00	923	10	0	10.43	0	0.49	0	0.01	1	0	0.53	0	1.03	0
prob6_10_005000_c55_T8	1481446	0.01	251	0	0.00	267	178	0	10.43	0	1.42	0	0.01	1	0	0.74	0	2.91	0
prob6_10_010000_c45_T1	3399224	0.00	1	0	0.00	1	92	0	34.46	0	0.92	0	0.00	1	0	0.68	0	1.91	0
prob6_10_010000_c45_T2	2098233	0.00	37	0	0.00	37	213	0	34.44	0	4.32	0	0.00	0	0	1.81	0	8.84	0
prob6_10_010000_c45_T3	2442212	0.01	211	0	0.01	229	221	0	34.15	0	4.33	0	0.01	1	0	0.97	0	8.95	0
prob6_10_010000_c45_T4	2093617	0.00	21	0	0.00	21	166	0	41.10	0	1.02	0	0.00	0	0	1.34	0	2.13	0
prob6_10_010000_c45_T5	2452397	0.04	621	0	0.01	637	243	0	34.50	0	1200.00	1	0.01	1	0	1200.00	1	68.48	1
prob6_10_010000_c45_T6	2000712	0.02	923	0	0.01	923	10	0	34.07	0	1.32	0	0.01	0	0	1.04	0	2.72	0
prob6_10_010000_c45_T7	2002699	0.02	949	0	0.01	949	10	0	34.50	0	1.25	0	0.01	0	0	1.32	0	2.64	0
prob6_10_010000_c45_T8	2444199	0.01	219	0	0.01	231	188	0	34.39	0	3.31	0	0.01	1	0	1.10	0	6.83	0
prob6_10_010000_c50_T8	2719929	0.00	21	0	0.00	23	136	0	38.26	0	1.05	0	0.00	0	0	0.68	0	2.19	0
prob6_10_010000_c50_T7	2252429	0.02	929	0	0.01	929	10	0	38.39	0	0.88	0	0.01	1	0	1.11	0	1.83	0
prob6_10_010000_c50_T6	2250192	0.02	923	0	0.01	923	10	0	37.89	0	1.20	0	0.01	1	0	0.83	0	2.54	0
prob6_10_010000_c50_T5	2730152	0.00	55	0	0.01	65	201	0	38.32	0	10.97	0	0.00	1	0	7.31	0	22.49	0
prob6_10_010000_c50_T4	2320378	0.02	671	0	0.20	679	725	0	45.71	0	3.79	0	0.02	0	0	1.93	0	7.84	0
prob6_10_010000_c50_T3	2717692	0.00	21	0	0.00	23	145	0	37.89	0	2.38	0	0.00	0	0	1.33	0	4.92	0
prob6_10_010000_c50_T2	2331531	0.00	25	0	0.00	25	185	0	38.36	0	2.32	0	0.00	0	0	1.43	0	4.79	0
prob6_10_010000_c50_T1	3615436	0.00	1	0	0.00	1	92	0	38.32	0	1.05	0	0.00	0	0	0.68	0	2.19	0
prob6_10_010000_c55_T8	2563342	0.00	251	0	0.01	259	125	0	41.80	0	4.55	0	0.01	0	0	3.18	0	14.76	0
prob6_10_010000_c55_T7	3813668	0.00	21	0	0.00	21	185	0	42.18	0	0.88	0	0.00	0	0	0.78	0	1.83	0
prob6_10_010000_c55_T6	2996891	0.04	709	0	0.01	711	225	0	50.29	0	2.28	0	0.01	1	0	1.42	0	4.13	0
prob6_10_010000_c55_T5	2557163	0.00	33	0	0.01	27	194	0	42.18	0	4.55	0	0.01	0	0	3.82	0	83.89	0
prob6_10_010000_c55_T4	2984127	0.01	251	0	0.01	190	190	0	42.17	0	7.17	0	0.01	0	0	1.25	0	9.34	0
prob6_10_010000_c55_T3	2449927	0.02	923	0	0.01	923	10	0	41.72	0	1.36	0	0.01	1	0	1.04	0	4.69	0
prob6_10_010000_c55_T2	2452365	0.02	933	0	0.01	933	10	0	42.13	0	1.21	0	0.01	0	0	0.91	0	2.50	0
prob6_10_010000_c55_T1	2986565	0.01	263	0	0.01	263	168	0	42.19	0	3.40	0	0.01	1	0	1.16	0	7.03	0

		Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
Instance	opt	time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob6_10_020000_c45_T1	6806688	0.00	1	0	0.00	1	101	0	137.02	0	2.93	0	0.00	0	0	1.74	0	6.22	0
prob6_10_020000_c45_T2	41844438	0.00	23	0	0.00	23	186	0	136.93	0	10.74	0	0.00	0	0	4.19	0	22.39	0
prob6_10_020000_c45_T3	4900991	0.06	725	0	0.02	725	236	0	137.07	0	12.67	0	0.02	1	0	2.32	0	26.79	0
prob6_10_020000_c45_T4	4207153	0.01	43	0	0.02	43	228	0	165.29	0	6.83	0	0.01	0	0	4.67	0	14.12	0
prob6_10_020000_c45_T5	4889733	0.09	835	0	0.03	835	351	0	137.03	0	18.46	0	0.03	1	0	3.43	0	38.94	0
prob6_10_020000_c45_T6	4023291	0.03	923	0	0.01	923	10	0	137.27	0	4.22	0	0.02	1	0	1.62	0	8.88	0
prob6_10_020000_c45_T7	4027282	0.03	945	0	0.02	945	10	0	138.26	0	3.96	0	0.02	1	0	1.53	0	8.23	0
prob6_10_020000_c45_T8	4904882	0.05	729	0	0.02	737	199	0	138.35	0	10.26	0	0.02	1	0	1.87	0	21.74	0
prob6_10_020000_c50_T1	7237558	0.00	1	0	0.00	1	101	0	152.39	0	2.83	0	0.00	1	0	1.57	0	5.99	0
prob6_10_020000_c50_T2	4648404	0.00	25	0	0.01	25	237	0	152.25	0	8.54	0	0.01	1	0	3.32	0	18.08	0
prob6_10_020000_c50_T3	5455828	0.01	73	0	0.01	75	203	0	152.49	0	13.85	0	0.01	1	0	2.60	0	29.19	0
prob6_10_020000_c50_T4	4665206	0.05	931	0	0.37	931	854	0	183.50	0	11.21	0	0.06	0	0	2.89	0	23.38	0
prob6_10_020000_c50_T5	5443200	0.01	49	0	0.01	57	229	0	152.91	0	14.87	0	0.01	0	0	3.86	0	30.66	0
prob6_10_020000_c50_T6	4525528	0.03	923	0	0.01	923	10	0	152.37	0	3.97	0	0.02	1	0	1.75	0	8.20	0
prob6_10_020000_c50_T7	4530018	0.04	931	0	0.02	931	10	0	153.87	0	3.46	0	0.02	1	0	1.82	0	7.16	0
prob6_10_020000_c50_T8	5460318	0.01	73	0	0.01	75	171	0	153.72	0	10.95	0	0.01	0	0	2.15	0	22.96	0
prob6_10_020000_c55_T1	7631357	0.00	21	0	0.01	21	215	0	167.67	0	3.06	0	0.00	0	0	1.74	0	6.43	0
prob6_10_020000_c55_T2	5112447	0.00	15	0	0.00	15	116	0	167.68	0	9.80	0	0.02	1	0	5.41	0	20.48	0
prob6_10_020000_c55_T3	5989179	0.06	813	0	0.02	813	224	0	167.91	0	12.85	0	0.02	1	0	2.48	0	26.81	0
prob6_10_020000_c55_T4	5140843	0.01	87	0	0.05	83	264	0	202.35	0	11.70	0	0.01	1	0	2.10	0	24.29	0
prob6_10_020000_c55_T5	5976217	0.09	875	0	0.03	875	303	0	167.61	0	1200.00	1	0.03	1	0	333.85	1	333.85	0
prob6_10_020000_c55_T6	4926879	0.03	923	0	0.01	923	10	0	167.85	0	3.80	0	0.02	1	0	1.88	0	7.86	0
prob6_10_020000_c55_T7	4931770	0.04	929	0	0.02	929	10	0	169.21	0	3.75	0	0.02	1	0	1.65	0	7.85	0
prob6_10_020000_c55_T8	5994070	0.05	813	0	0.02	813	189	0	169.19	0	10.94	0	0.02	1	0	2.16	0	23.29	0
prob6_10_100000_c45_T1	34035549	0.01	1	0	0.01	1	120	0	1200.00	1	51.76	0	0.01	1	0	13.92	0	122.81	0
prob6_10_100000_c45_T2	20849644	0.07	189	0	0.13	189	673	0	1200.00	1	421.27	0	0.08	1	0	37.24	0	1009.52	0
prob6_10_100000_c45_T3	24373926	0.22	933	0	0.10	933	221	0	1200.00	1	277.99	0	0.10	1	0	15.32	0	642.64	0
prob6_10_100000_c45_T4	20935386	0.02	35	0	0.03	21	188	0	1200.00	1	107.54	0	0.03	0	0	7.61	0	242.13	0
prob6_10_100000_c45_T5	24391475	0.30	933	0	0.12	933	382	0	1200.00	1	297.58	0	0.13	1	0	19.79	0	682.17	0
prob6_10_100000_c45_T6	20004426	0.16	923	0	0.07	923	10	0	1200.00	1	155.49	0	0.08	1	0	22.65	0	351.24	0
prob6_10_100000_c45_T7	20024417	0.17	943	0	0.08	943	10	0	1200.00	1	163.57	0	0.09	1	0	20.39	0	368.66	0
prob6_10_100000_c45_T8	24393717	0.20	933	0	0.09	933	170	0	1200.00	1	259.00	0	0.10	1	0	13.44	0	597.34	0
prob6_10_100000_c50_T1	361956684	0.01	1	0	0.01	1	129	0	1200.00	1	52.59	0	0.01	0	0	16.56	0	124.96	0
prob6_10_100000_c50_T2	23170259	0.02	61	0	0.07	61	440	0	1200.00	1	466.70	0	0.03	0	0	32.34	0	1106.12	0
prob6_10_100000_c50_T3	271136604	0.15	563	0	0.08	589	225	0	1200.00	1	307.49	0	0.08	0	0	21.07	0	712.21	0
prob6_10_100000_c50_T4	23218906	0.16	931	0	1.18	931	507	0	1200.00	1	252.36	0	0.17	0	0	14.40	0	594.66	0
prob6_10_100000_c50_T5	27156129	0.11	317	0	0.04	327	186	0	1200.00	1	311.44	0	0.05	1	0	44.48	0	721.68	0
prob6_10_100000_c50_T6	22503904	0.16	923	0	0.07	923	10	0	1200.00	1	233.05	0	0.07	1	0	43.52	0	532.57	0
prob6_10_100000_c50_T7	22526391	0.17	933	0	0.08	933	10	0	1200.00	1	237.07	0	0.09	1	0	10.28	0	538.33	0
prob6_10_100000_c50_T8	27158991	0.13	583	0	0.07	597	194	0	1200.00	1	293.21	0	0.08	1	0	22.53	0	679.24	0
prob6_10_100000_c55_T1	38169772	0.01	1	0	0.01	1	125	0	1200.00	1	51.68	0	0.01	1	0	14.19	0	122.56	0
prob6_10_100000_c55_T2	25489074	0.01	15	0	0.01	15	125	0	1200.00	1	385.65	0	0.01	1	0	38.82	0	907.24	0
prob6_10_100000_c55_T3	29800095	0.23	931	0	0.10	931	206	0	1200.00	1	272.29	0	0.11	1	0	17.54	0	633.05	0
prob6_10_100000_c55_T4	25579583	0.06	301	0	0.53	295	238	0	1200.00	1	273.51	0	0.07	1	0	12.98	0	645.87	0
prob6_10_100000_c55_T5	29817497	0.32	931	0	0.16	931	325	0	1200.00	1	318.55	0	0.17	1	0	21.07	0	730.11	0
prob6_10_100000_c55_T6	24504095	0.17	923	0	0.07	923	10	0	1200.00	1	145.86	0	0.08	1	0	19.17	0	322.04	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob6_10_100000_c55_T7	24528580	0.18	937	0	0.09	937	10	0	1200.00	1	124.88	0	0.10	1	0	11.89	0	270.79	0
prob6_10_100000_c55_T8	29824380	0.20	931	0	0.10	931	171	0	1200.00	1	263.93	0	0.11	1	0	16.88	0	610.20	0
prob6_10_200000_c45_T1	68061252	0.02	1	0	0.03	1	133	0	1200.00	1	165.78	0	0.02	0	0	41.71	0	400.37	0
prob6_10_200000_c45_T2	41699198	0.26	349	0	0.39	349	860	0	1200.00	1	1023.48	0	0.28	1	0	137.21	0	1200.00	1
prob6_10_200000_c45_T3	48794232	0.39	933	0	0.19	933	216	0	1200.00	1	282.09	0	0.21	0	0	45.48	0	1200.00	1
prob6_10_200000_c45_T4	41910744	0.14	47	0	0.14	31	201	0	1200.00	1	1200.00	1	0.09	1	0	54.79	0	637.57	0
prob6_10_200000_c45_T5	48762308	0.19	931	0	0.19	931	282	0	1200.00	1	503.57	0	0.21	1	0	51.82	0	1200.00	1
prob6_10_200000_c45_T6	40056632	0.33	939	0	0.16	939	10	0	1200.00	1	550.81	0	0.17	1	0	68.87	0	1200.00	1
prob6_10_200000_c45_T7	40096654	0.33	939	0	0.15	939	184	0	1200.00	1	1061.70	0	0.17	1	0	37.41	0	1200.00	1
prob6_10_200000_c45_T8	48833854	0.37	933	0	0.18	933	142	0	1200.00	1	159.07	0	0.20	1	0	44.84	0	1200.00	1
prob6_10_200000_c50_T1	72387776	0.02	1	0	0.03	1	1	0	1200.00	1	1200.00	1	0.02	0	0	50.00	0	387.99	0
prob6_10_200000_c50_T2	46340582	0.07	91	0	0.20	91	563	0	1200.00	1	80.15	0	0.08	1	0	108.97	0	1200.00	1
prob6_10_200000_c50_T3	54326387	0.27	571	0	0.15	581	225	0	1200.00	1	1012.56	0	0.16	1	0	80.15	0	1200.00	1
prob6_10_200000_c50_T4	46484184	0.30	937	0	2.40	937	509	0	1200.00	1	1200.00	1	0.32	1	0	57.53	0	1200.00	1
prob6_10_200000_c50_T5	54293461	0.49	923	0	0.16	923	171	0	1200.00	1	663.88	0	0.18	1	0	78.71	0	1200.00	1
prob6_10_200000_c50_T6	45061587	0.34	923	0	0.15	923	10	0	1200.00	1	705.69	0	0.17	1	0	80.21	0	1200.00	1
prob6_10_200000_c50_T7	45106610	0.34	939	0	0.16	939	10	0	1200.00	1	1196.91	0	0.17	1	0	125.85	0	1200.00	1
prob6_10_200000_c50_T8	54371310	0.25	575	0	0.14	585	173	0	1200.00	1	175.19	0	0.16	1	0	80.59	0	1200.00	1
prob6_10_200000_c55_T1	76340458	0.01	1	0	0.02	1	135	0	1200.00	1	1200.00	1	0.01	0	0	42.53	0	427.43	0
prob6_10_200000_c55_T2	50982456	0.01	15	0	0.03	15	136	0	1200.00	1	1200.00	1	0.01	1	0	115.45	0	1200.00	1
prob6_10_200000_c55_T3	59656147	0.40	931	0	0.18	931	191	0	1200.00	1	1200.00	1	0.20	1	0	61.76	0	1200.00	1
prob6_10_200000_c55_T4	51210917	0.15	395	0	1.38	407	245	0	1200.00	1	694.87	0	0.15	1	0	56.70	0	1200.00	1
prob6_10_200000_c55_T5	59621035	0.53	931	0	0.29	931	283	0	1200.00	1	786.63	0	0.32	1	0	33.57	0	1200.00	1
prob6_10_200000_c55_T6	49066147	0.35	923	0	0.16	923	10	0	1200.00	1	1200.00	1	0.18	1	0	36.21	0	1200.00	1
prob6_10_200000_c55_T7	49115167	0.35	941	0	0.18	941	10	0	1200.00	1	1200.00	1	0.20	1	0	62.83	0	1200.00	1
prob6_10_200000_c55_T8	59704667	0.38	931	0	0.20	931	164	0	1200.00	1	1137.47	1	0.22	1	0	62.83	0	1200.00	1
prob7_005_020000_01	419705	0.01	5	0	0.04	5	14	0	14.53	0	25.31	0	0.01	0	0	6.45	0	29.50	0
prob7_005_020000_02	432869	0.00	5	0	0.01	3	6	0	14.94	0	28.11	0	0.00	0	0	2.35	0	29.90	0
prob7_005_020000_03	434631	0.00	5	0	0.00	3	7	0	14.84	0	28.13	0	0.00	0	0	2.61	0	30.21	0
prob7_005_020000_04	391958	0.00	7	0	0.06	1	2	0	14.09	0	33.23	0	0.00	0	0	2.47	0	28.35	0
prob7_005_020000_05	385505	0.00	7	0	0.01	1	2	0	13.99	0	33.57	0	0.00	0	0	2.51	0	28.41	0
prob7_005_020000_06	431174	0.00	5	0	0.01	3	6	0	14.90	0	27.84	0	0.00	0	0	2.39	0	30.19	0
prob7_005_020000_07	423984	0.01	7	0	0.02	1	2	0	14.43	0	24.76	0	0.01	0	0	2.36	0	29.12	0
prob7_005_020000_08	397527	0.00	7	0	0.02	1	2	0	14.20	0	26.89	0	0.00	0	0	2.40	0	28.52	0
prob7_005_020000_09	386706	0.00	7	0	0.01	1	2	0	13.96	0	33.90	0	0.00	0	0	2.49	0	28.19	0
prob7_005_020000_10	421926	0.01	7	0	0.01	5	11	0	14.58	0	25.46	0	0.01	0	0	6.46	0	29.51	0
prob7_005_050000_01	971246	0.01	7	0	0.01	1	2	0	87.79	0	211.86	0	0.01	0	0	14.62	0	179.36	0
prob7_005_050000_02	1005145	0.00	5	0	0.05	1	2	0	89.23	0	240.87	0	0.01	0	0	12.81	0	181.43	0
prob7_005_050000_03	998014	0.03	5	0	0.04	3	7	0	90.27	0	201.06	0	0.03	0	0	10.45	0	183.48	0
prob7_005_050000_04	1087340	0.01	7	0	0.02	1	2	0	91.60	0	267.08	0	0.02	0	0	10.76	0	187.57	0
prob7_005_050000_05	1001602	0.01	7	0	0.04	1	2	0	88.91	0	240.02	0	0.01	0	0	11.16	0	184.12	0
prob7_005_050000_06	973009	0.00	7	0	0.01	1	2	0	88.59	0	252.29	0	0.00	0	0	17.51	0	178.51	0
prob7_005_050000_07	1090982	0.01	7	0	0.04	5	13	0	91.66	0	225.25	0	0.01	0	0	45.40	0	186.74	0
prob7_005_050000_08	1057582	0.01	5	0	0.01	3	6	0	91.97	0	176.68	0	0.01	0	0	10.96	0	188.68	0
prob7_005_050000_09	1055007	0.02	7	0	0.10	5	13	0	92.94	0	171.22	0	0.02	0	0	41.99	0	190.66	0
prob7_005_050000_10	1121358	0.01	7	0	0.03	5	13	0	93.91	0	209.53	0	0.01	0	0	37.77	0	195.16	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob7_005_100000_01	1951694	0.01	7	0	0.07	5	13	0	363.20	0	1047.84	0	0.01	0	0	210.58	0	735.99	0
prob7_005_100000_02	2069231	0.02	7	0	0.14	5	13	0	367.62	0	938.98	0	0.02	0	0	228.25	0	761.75	0
prob7_005_100000_03	2209462	0.00	7	0	0.03	5	13	0	376.01	0	1056.13	0	0.00	0	0	146.11	0	775.07	0
prob7_005_100000_04	1977496	0.01	7	0	0.14	5	13	0	354.10	0	1063.49	0	0.01	0	0	202.99	0	733.47	0
prob7_005_100000_05	1974066	0.01	7	0	0.10	1	2	0	356.00	0	1200.00	1	0.01	0	0	40.97	0	733.48	0
prob7_005_100000_06	2113075	0.01	7	0	0.15	5	13	0	369.26	0	890.54	0	0.02	0	0	229.97	0	759.32	0
prob7_005_100000_07	2055338	0.01	5	0	0.10	3	7	0	361.69	0	982.60	0	0.01	0	0	39.62	0	745.24	0
prob7_005_100000_08	1985161	0.01	7	0	0.06	1	2	0	355.77	0	1200.00	1	0.01	0	0	55.51	0	741.31	0
prob7_005_100000_09	2148811	0.01	7	0	0.04	1	2	0	366.08	0	1029.97	0	0.01	0	0	44.25	0	758.70	0
prob7_005_100000_10	2178242	0.01	5	0	0.23	3	6	0	375.32	0	1153.65	0	0.01	0	0	33.23	0	769.13	0
prob7_010_020000_01	468189	0.00	7	0	0.01	1	2	0	15.17	0	33.15	0	0.00	0	0	2.27	0	30.49	0
prob7_010_020000_02	390019	0.00	7	0	0.01	1	2	0	14.58	0	32.32	0	0.00	0	0	2.05	0	29.38	0
prob7_010_020000_03	455422	0.00	7	0	0.01	1	2	0	15.10	0	31.99	0	0.00	0	0	2.27	0	30.38	0
prob7_010_020000_04	360121	0.01	7	0	0.01	1	2	0	14.22	0	36.97	0	0.01	0	0	2.12	0	28.77	0
prob7_010_020000_05	363318	0.01	7	0	0.02	1	2	0	14.24	0	33.07	0	0.01	0	0	2.73	0	28.72	0
prob7_010_020000_06	420366	0.00	7	0	0.01	1	2	0	14.69	0	31.01	0	0.01	0	0	4.41	0	29.66	0
prob7_010_020000_07	386762	0.00	7	0	0.01	1	2	0	14.51	0	32.07	0	0.00	0	0	3.43	0	29.33	0
prob7_010_020000_08	442530	0.00	7	0	0.03	1	2	0	14.91	0	31.97	0	0.01	0	0	2.10	0	30.23	0
prob7_010_020000_09	352096	0.00	5	0	0.01	1	2	0	14.14	0	33.48	0	0.00	0	0	4.00	0	28.56	0
prob7_010_020000_10	436820	0.00	7	0	0.02	1	2	0	14.91	0	33.30	0	0.00	0	0	2.05	0	30.06	0
prob7_010_050000_01	1034239	0.01	7	0	0.08	1	2	0	92.45	0	237.74	0	0.01	0	0	8.60	0	188.71	0
prob7_010_050000_02	1012061	0.01	7	0	0.03	1	2	0	93.46	0	255.22	0	0.01	0	0	9.01	0	186.97	0
prob7_010_050000_03	891878	0.00	7	0	0.05	1	2	0	89.25	0	266.07	0	0.01	0	0	8.67	0	184.94	0
prob7_010_050000_04	1108640	0.01	7	0	0.01	1	2	0	94.10	0	287.92	0	0.00	0	0	8.68	0	193.49	0
prob7_010_050000_05	1102360	0.00	7	0	0.03	1	2	0	93.91	0	282.93	0	0.01	0	0	8.42	0	191.59	0
prob7_010_050000_06	1136400	0.00	7	0	0.01	1	2	0	94.30	0	270.43	0	0.00	0	0	8.53	0	194.47	0
prob7_010_050000_07	1024116	0.02	7	0	0.06	7	25	0	92.67	0	143.06	0	0.02	0	0	21.92	0	188.57	0
prob7_010_050000_08	983184	0.01	11	0	0.02	5	12	0	91.25	0	136.02	0	0.01	0	0	10.26	0	186.61	0
prob7_010_050000_09	1055100	0.00	7	0	0.04	1	2	0	93.03	0	239.81	0	0.01	0	0	8.75	0	189.62	0
prob7_010_050000_10	1098171	0.00	7	0	0.03	1	2	0	94.04	0	296.99	0	0.00	0	0	8.57	0	191.10	0
prob7_010_100000_01	2229586	0.01	7	0	0.15	1	2	0	377.49	0	1200.00	1	0.01	0	0	33.44	0	778.01	0
prob7_010_100000_02	1855876	0.01	7	0	0.27	1	2	0	363.29	0	1200.00	1	0.01	0	0	28.47	0	745.98	0
prob7_010_100000_03	2110183	0.02	7	0	0.16	1	2	0	370.63	0	1200.00	1	0.02	0	0	28.96	0	781.62	0
prob7_010_100000_04	2253336	0.01	7	0	0.11	1	2	0	378.64	0	1200.00	1	0.01	0	0	42.83	0	774.91	0
prob7_010_100000_05	2193806	0.01	7	0	0.06	1	2	0	375.41	0	1200.00	1	0.01	0	0	142.88	0	791.54	0
prob7_010_100000_06	2033242	0.02	15	0	0.12	7	23	0	370.56	0	850.97	0	0.02	0	0	81.15	0	761.47	0
prob7_010_100000_07	1936794	0.03	15	0	0.10	7	21	0	365.01	0	905.89	0	0.04	0	0	84.52	0	753.34	0
prob7_010_100000_08	2242901	0.03	7	0	0.09	1	2	0	379.07	0	1200.00	1	0.03	0	0	134.41	0	783.34	0
prob7_010_100000_09	1970978	0.00	5	0	0.15	3	8	0	368.38	0	946.28	0	0.00	0	0	49.20	0	755.86	0
prob7_010_100000_10	2246774	0.01	7	0	0.09	1	2	0	377.82	0	1200.00	1	0.01	0	0	95.26	0	779.76	0
prob7_020_020000_01	421250	0.00	15	0	0.01	3	8	0	14.94	0	24.24	0	0.00	0	0	2.28	0	30.16	0
prob7_020_020000_02	432142	0.00	19	0	0.02	9	17	0	15.07	0	17.42	0	0.00	0	0	2.70	0	30.34	0
prob7_020_020000_03	407299	0.00	19	0	0.04	9	22	0	14.86	0	24.89	0	0.00	0	0	2.85	0	29.84	0
prob7_020_020000_04	457713	0.00	19	0	0.05	15	38	0	15.33	0	21.10	0	0.00	0	0	2.76	0	30.90	0
prob7_020_020000_05	412749	0.00	19	0	0.08	13	41	0	14.82	0	21.34	0	0.00	0	0	2.56	0	29.95	0
prob7_020_020000_06	412370	0.00	5	0	0.01	3	9	0	14.88	0	22.55	0	0.00	0	0	2.40	0	30.00	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob7_020_020000_07	410650	0.01	29	0	0.05	23	57	0	14.80	0	20.41	0	0.01	0	0	3.05	0	30.08	0
prob7_020_020000_08	462858	0.00	15	0	0.02	3	14	0	15.18	0	20.63	0	0.00	0	0	2.27	0	30.61	0
prob7_020_020000_09	429419	0.00	11	0	0.02	9	9	0	14.99	0	16.48	0	0.01	0	0	2.17	0	30.27	0
prob7_020_020000_10	388688	0.00	19	0	0.03	23	54	0	14.70	0	21.63	0	0.00	0	0	3.01	0	29.55	0
prob7_020_050000_01	1158869	0.01	19	0	0.08	11	21	0	96.17	0	194.86	0	0.01	0	0	12.87	0	196.07	0
prob7_020_050000_02	966086	0.01	21	0	0.04	11	21	0	92.10	0	171.89	0	0.01	0	0	13.10	0	188.70	0
prob7_020_050000_03	1024371	0.01	29	0	0.15	24	39	0	92.72	0	177.10	0	0.01	0	0	15.01	0	190.82	0
prob7_020_050000_04	1013162	0.01	15	0	0.03	25	46	0	93.68	0	181.51	0	0.01	0	0	8.26	0	189.40	0
prob7_020_050000_05	975985	0.02	29	0	0.22	19	40	0	95.23	0	176.71	0	0.02	0	0	15.83	0	187.75	0
prob7_020_050000_06	1122735	0.00	9	0	0.02	5	12	0	95.22	0	184.58	0	0.01	0	0	8.44	0	195.18	0
prob7_020_050000_07	1033028	0.01	27	0	0.27	19	40	0	93.33	0	176.70	0	0.01	0	0	15.46	0	190.72	0
prob7_020_050000_08	1103569	0.01	27	0	0.09	21	40	0	93.84	0	139.52	0	0.01	0	0	12.38	0	194.47	0
prob7_020_050000_09	975801	0.01	23	0	0.08	11	21	0	93.58	0	155.04	0	0.01	0	0	16.50	0	189.77	0
prob7_020_050000_10	1023709	0.03	29	0	0.21	23	54	0	94.70	0	170.20	0	0.03	0	0	16.48	0	191.23	0
prob7_020_100000_01	1895297	0.04	19	0	0.18	11	21	0	371.18	0	869.91	0	0.05	0	0	47.91	0	756.59	0
prob7_020_100000_02	1965657	0.01	11	0	0.02	3	9	0	371.84	0	707.92	0	0.01	0	0	26.57	0	762.54	0
prob7_020_100000_03	2270088	0.02	21	0	0.22	11	21	0	383.80	0	973.40	0	0.03	0	0	48.39	0	795.94	0
prob7_020_100000_04	2329562	0.04	27	0	0.15	13	26	0	385.13	0	865.63	0	0.04	0	0	41.97	0	790.94	0
prob7_020_100000_05	2362366	0.03	27	0	0.13	17	30	0	391.17	0	877.05	0	0.03	0	0	30.94	0	793.03	0
prob7_020_100000_06	2058756	0.01	15	0	0.09	7	17	0	374.20	0	699.86	0	0.01	0	0	24.83	0	777.92	0
prob7_020_100000_07	2089108	0.01	15	0	0.10	11	18	0	377.56	0	774.37	0	0.01	0	0	29.27	0	778.02	0
prob7_020_100000_08	1984264	0.01	31	0	0.16	13	33	0	373.06	0	983.25	0	0.01	0	0	51.70	0	769.91	0
prob7_020_100000_09	2012186	0.00	9	0	0.13	9	19	0	374.11	0	782.96	0	0.00	0	0	30.42	0	776.70	0
prob7_020_100000_10	2058046	0.03	21	0	0.15	9	21	0	375.95	0	607.53	0	0.02	0	0	53.20	0	773.85	0
prob7_030_020000_01	392246	0.02	57	0	0.04	27	41	0	14.75	0	21.28	0	0.02	0	0	3.31	0	29.83	0
prob7_030_020000_02	392381	0.01	57	0	0.11	23	36	0	14.94	0	22.50	0	0.01	0	0	3.53	0	30.08	0
prob7_030_020000_03	456030	0.00	23	0	0.03	9	24	0	15.19	0	22.49	0	0.01	0	0	2.73	0	30.72	0
prob7_030_020000_04	430130	0.00	19	0	0.02	3	10	0	15.07	0	18.42	0	0.00	0	0	2.69	0	30.64	0
prob7_030_020000_05	442951	0.01	53	0	0.04	27	57	0	15.15	0	14.93	0	0.01	0	0	3.09	0	30.57	0
prob7_030_020000_06	448030	0.01	29	0	0.04	19	32	0	15.17	0	22.14	0	0.01	0	0	2.81	0	30.73	0
prob7_030_020000_07	433753	0.00	35	0	0.04	13	33	0	15.09	0	16.54	0	0.00	0	0	2.94	0	30.43	0
prob7_030_020000_08	478644	0.00	13	0	0.01	9	20	0	15.37	0	20.48	0	0.00	0	0	2.68	0	31.23	0
prob7_030_020000_09	380039	0.01	53	0	0.13	27	50	0	14.70	0	22.42	0	0.02	0	0	3.56	0	29.66	0
prob7_030_020000_10	384471	0.01	89	0	0.07	57	65	0	14.70	0	21.04	0	0.01	0	0	3.34	0	29.84	0
prob7_030_050000_01	959820	0.01	47	0	0.14	23	35	0	94.10	0	164.81	0	0.02	0	0	16.89	0	189.65	0
prob7_030_050000_02	962910	0.02	67	0	0.54	45	54	0	92.51	0	159.68	0	0.02	0	0	15.93	0	189.85	0
prob7_030_050000_03	1192247	0.01	21	0	0.05	9	18	0	96.62	0	167.35	0	0.01	0	0	14.00	0	197.99	0
prob7_030_050000_04	978670	0.01	43	0	0.52	27	42	0	92.61	0	154.87	0	0.01	0	0	12.44	0	189.19	0
prob7_030_050000_05	1108646	0.01	35	0	0.09	13	30	0	95.54	0	128.85	0	0.01	0	0	13.19	0	196.08	0
prob7_030_050000_06	1113060	0.01	27	0	0.15	11	25	0	95.05	0	187.07	0	0.01	0	0	14.72	0	193.35	0
prob7_030_050000_07	948697	0.03	47	0	0.11	23	33	0	92.51	0	162.29	0	0.03	0	0	17.01	0	189.00	0
prob7_030_050000_08	1039124	0.01	57	0	0.07	39	69	0	93.75	0	163.95	0	0.01	0	0	13.81	0	192.40	0
prob7_030_050000_09	1033244	0.00	19	0	0.07	19	29	0	94.12	0	152.74	0	0.00	0	0	13.66	0	192.77	0
prob7_030_050000_10	1102331	0.01	89	0	0.07	57	64	0	95.31	0	135.82	0	0.00	0	0	9.78	0	194.40	0
prob7_030_100000_01	2297805	0.10	103	0	0.65	91	86	0	386.68	0	688.44	0	0.11	0	0	59.59	0	794.48	0
prob7_030_100000_02	2278947	0.03	27	0	0.18	9	23	0	385.66	0	756.51	0	0.03	0	0	46.46	0	794.97	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob7_030_100000_03	2166161	0.03	61	0	0.18	39	46	0	380.34	0	847.09	0	0.03	0	0	53.18	0	785.94	0
prob7_030_100000_04	2353310	0.03	49	0	0.20	43	62	0	386.60	0	890.50	0	0.04	0	0	40.03	0	800.34	0
prob7_030_100000_05	2375740	0.02	31	0	0.15	11	24	0	386.34	0	989.29	0	0.02	0	0	29.23	0	793.85	0
prob7_030_100000_06	2270263	0.03	39	0	0.37	11	22	0	385.32	0	930.62	0	0.03	0	0	45.83	0	796.20	0
prob7_030_100000_07	2010141	0.07	155	0	1.29	141	102	0	376.90	0	734.11	0	0.08	0	0	58.13	0	776.73	0
prob7_030_100000_08	2016873	0.01	21	0	0.30	19	37	0	377.38	0	978.41	0	0.01	0	0	56.10	0	773.69	0
prob7_030_100000_09	2084666	0.06	73	0	0.47	51	64	0	377.92	0	744.91	0	0.06	0	0	55.85	0	779.62	0
prob7_030_100000_10	2078266	0.01	27	0	0.42	11	21	0	377.81	0	766.63	0	0.02	0	0	47.12	0	782.04	0
prob7_050_020000_01	411813	0.02	247	0	0.58	205	116	0	15.00	0	18.35	0	0.02	0	0	4.18	0	30.42	0
prob7_050_020000_02	401036	0.02	183	0	0.10	123	112	0	15.03	0	21.96	0	0.02	0	0	4.41	0	30.35	0
prob7_050_020000_03	437764	0.03	237	0	0.39	207	136	0	15.21	0	17.28	0	0.01	0	0	3.29	0	30.83	0
prob7_050_020000_04	455095	0.01	125	0	0.19	93	64	0	15.00	0	16.39	0	0.01	0	0	3.67	0	30.30	0
prob7_050_020000_05	479183	0.02	189	0	0.10	153	71	0	15.18	0	20.76	0	0.02	0	0	3.39	0	30.63	0
prob7_050_020000_06	397759	0.02	159	0	0.19	111	102	0	15.49	0	21.49	0	0.02	0	0	4.38	0	30.24	0
prob7_050_020000_07	441932	0.01	101	0	0.02	19	33	0	15.13	0	21.63	0	0.01	0	0	3.47	0	30.51	0
prob7_050_020000_08	446281	0.00	43	0	0.04	13	32	0	15.19	0	16.39	0	0.03	0	0	4.05	0	30.57	0
prob7_050_020000_09	428801	0.02	209	0	0.09	37	69	0	14.86	0	22.36	0	0.01	0	0	4.24	0	30.57	0
prob7_050_020000_10	391658	0.02	101	0	0.02	19	33	0	15.00	0	21.96	0	0.02	0	0	4.41	0	30.35	0
prob7_050_050000_01	1057478	0.11	823	0	0.93	773	200	0	95.49	0	161.14	0	0.11	0	0	17.55	0	194.89	0
prob7_050_050000_02	982857	0.05	127	0	0.77	57	64	0	93.54	0	148.27	0	0.05	0	0	16.34	0	192.41	0
prob7_050_050000_03	1109911	0.01	101	0	0.25	71	55	0	95.26	0	148.02	0	0.02	0	0	14.40	0	195.09	0
prob7_050_050000_04	975593	0.03	307	0	3.68	261	106	0	94.04	0	152.05	0	0.03	0	0	13.22	0	191.81	0
prob7_050_050000_05	1041654	0.01	75	0	0.22	19	36	0	94.03	0	157.69	0	0.02	0	0	16.14	0	192.60	0
prob7_050_050000_06	1118083	0.02	75	0	0.08	31	47	0	95.60	0	136.76	0	0.02	0	0	13.26	0	195.50	0
prob7_050_050000_07	998553	0.07	375	0	0.63	313	124	0	95.07	0	140.90	0	0.08	0	0	14.38	0	193.90	0
prob7_050_050000_08	1002859	0.05	201	0	0.28	113	91	0	93.13	0	152.63	0	0.06	0	0	15.79	0	190.98	0
prob7_050_050000_09	969059	0.03	183	0	0.16	131	111	0	94.67	0	166.44	0	0.03	0	0	18.47	0	195.09	0
prob7_050_050000_10	1034630	0.05	255	0	0.85	179	108	0	93.47	0	154.86	0	0.05	0	0	16.11	0	190.77	0
prob7_050_100000_01	2030765	0.04	107	0	1.03	45	59	0	377.60	0	692.53	0	0.04	0	0	48.28	0	775.85	0
prob7_050_100000_02	2165291	0.09	271	0	6.39	195	118	0	382.12	0	724.40	0	0.09	0	0	56.89	0	789.14	0
prob7_050_100000_03	2276826	0.08	125	0	0.51	47	58	0	386.03	0	889.51	0	0.09	0	0	53.71	0	791.91	0
prob7_050_100000_04	2391988	0.05	119	0	1.55	93	69	0	387.91	0	830.38	0	0.05	0	0	35.84	0	810.56	0
prob7_050_100000_05	2163980	0.05	93	0	0.87	87	72	0	382.66	0	655.18	0	0.07	0	0	53.28	0	799.07	0
prob7_050_100000_06	2284372	0.06	137	0	2.33	93	64	0	385.88	0	881.32	0	0.07	0	0	53.86	0	791.99	0
prob7_050_100000_07	2385433	0.10	155	0	0.41	95	68	0	391.23	0	896.09	0	0.11	0	0	29.98	0	805.25	0
prob7_050_100000_08	1949055	0.08	167	0	0.49	93	69	0	375.24	0	758.61	0	0.09	0	0	51.40	0	769.95	0
prob7_050_100000_09	2058780	0.17	629	0	13.68	577	131	0	379.08	0	704.88	0	0.18	0	0	57.92	0	784.67	0
prob7_050_100000_10	2224005	0.04	101	0	0.32	57	59	0	382.52	0	863.54	0	0.04	0	0	50.72	0	799.62	0
prob7_100_020000_01	426560	0.05	1225	0	0.97	1105	129	0	15.14	0	19.85	0	0.05	0	0	6.46	0	30.39	0
prob7_100_020000_02	415213	0.19	3619	0	5.44	3189	257	0	15.07	0	22.36	0	0.19	0	0	7.30	0	30.40	0
prob7_100_020000_03	392367	0.06	951	0	0.72	659	143	0	14.95	0	24.10	0	0.07	0	0	7.31	0	30.16	0
prob7_100_020000_04	423663	0.34	8987	0	11.63	8745	238	0	15.13	0	21.90	0	0.35	0	0	7.23	0	30.50	0
prob7_100_020000_05	390812	0.63	17647	0	10.52	17445	261	0	14.92	0	26.08	0	0.65	0	0	7.92	0	30.16	0
prob7_100_020000_06	415559	0.09	1835	0	0.66	1615	181	0	15.09	0	25.11	0	0.10	0	0	7.29	0	30.46	0
prob7_100_020000_07	398324	2.30	67993	0	42.92	67671	365	0	15.00	0	22.39	0	2.39	0	0	8.08	0	30.26	0
prob7_100_020000_08	478217	0.04	687	0	0.62	561	94	0	15.44	0	24.24	0	0.04	0	0	4.97	0	31.23	0

Instance	opt	Model M1 time	Model M1 #nodes	Model M1 TL	Model M3 time	Model M3 #nodes	Model M3 #cols	Model M3 TL	DP time	DP TL	DSS-1TH time	DSS-1TH TL	FMT time	FMT best	FMT TL	DSS-4TH time	DSS-4TH TL	DSS+DP time	DSS+DP TL
prob7_100_020000_09	440242	0.45	10567	0	38.51	10307	241	0	15.16	0	20.38	0	0.47	0	0	6.86	0	30.66	0
prob7_100_020000_10	392096	0.42	10525	0	45.34	10343	277	0	14.97	0	25.77	0	0.43	0	0	8.44	0	30.22	0
prob7_100_050000_01	1080007	0.14	967	0	5.69	785	153	0	94.84	0	139.85	0	0.14	0	0	20.26	0	193.94	0
prob7_100_050000_02	992839	0.97	10579	0	46.38	10273	269	0	94.15	0	147.30	0	1.00	0	0	24.86	0	191.98	0
prob7_100_050000_03	1176729	0.62	6263	0	106.63	6149	221	0	97.05	0	147.89	0	0.64	0	0	20.12	0	199.26	0
prob7_100_050000_04	982534	0.03	309	0	1.27	153	84	0	93.86	0	147.45	0	0.03	0	0	21.41	0	192.10	0
prob7_100_050000_05	1182603	0.12	877	0	1.94	791	152	0	97.03	0	137.68	0	0.12	0	0	19.40	0	197.56	0
prob7_100_050000_06	1187270	0.12	875	0	4.09	777	145	0	97.03	0	173.60	0	0.12	0	0	15.15	0	197.11	0
prob7_100_050000_07	1048472	0.92	10585	0	53.13	10295	276	0	94.78	0	161.45	0	0.96	0	0	23.37	0	194.07	0
prob7_100_050000_08	1023375	1.24	12683	0	38.11	12349	305	0	95.11	0	148.51	0	1.29	0	0	23.81	0	193.33	0
prob7_100_050000_09	1051017	0.09	725	0	3.27	513	99	0	95.64	0	147.83	0	0.09	0	0	19.40	0	194.25	0
prob7_100_050000_10	1084050	0.34	2991	0	7.65	2591	182	0	95.64	0	160.16	0	0.36	0	0	19.66	0	195.13	0
prob7_100_100000_03	2015845	2.57	17143	0	14.36	16687	260	0	378.04	0	754.36	0	2.61	0	0	61.95	0	777.01	0
prob7_100_100000_04	2291957	0.79	4831	0	51.40	4593	164	0	386.24	0	660.40	0	0.83	0	0	62.99	0	811.44	0
prob7_100_100000_05	2187775	0.30	1085	0	8.60	803	175	0	383.13	0	704.96	0	0.32	0	0	64.12	0	796.19	0
prob7_100_100000_06	2283814	0.33	1535	0	13.95	1279	125	0	385.87	0	874.29	0	0.35	0	0	60.18	0	797.46	0
prob7_100_100000_07	1983074	2.69	17807	0	34.37	17377	235	0	378.06	0	713.14	0	2.79	0	0	66.85	0	776.15	0
prob7_100_100000_08	2288990	0.24	975	0	5.16	781	147	0	388.75	0	869.15	0	0.26	0	0	60.54	0	793.91	0
prob7_100_100000_09	2148693	1.45	9449	0	19.01	9219	244	0	382.48	0	765.43	0	1.51	0	0	65.53	0	793.68	0
prob7_100_100000_10	2306890	0.10	335	0	3.19	189	85	0	386.22	0	929.15	0	0.11	0	0	54.97	0	794.70	0
prob7_200_020000_01	417950	149.18	4260847	0	1200.29	498984	321	1	15.23	0	25.78	0	15.70	2	0	15.27	0	30.80	0
prob7_200_020000_02	425898	343.75	9438141	0	1200.29	462253	423	1	15.12	0	29.30	0	15.58	2	0	14.32	0	30.56	0
prob7_200_020000_03	449032	9.81	279659	0	113.93	278617	312	0	15.36	0	26.75	0	10.15	0	0	12.36	0	30.97	0
prob7_200_020000_04	451402	6.22	164735	0	171.97	164025	298	0	15.36	0	25.78	0	6.41	0	0	11.54	0	30.88	0
prob7_200_020000_05	409258	260.03	6292799	0	1200.29	741956	433	1	15.04	0	31.69	0	15.53	2	0	14.93	0	30.39	0
prob7_200_020000_06	450464	16.16	394385	0	1200.29	287776	266	1	15.33	0	25.68	0	15.79	2	0	12.39	0	31.00	0
prob7_200_020000_07	441650	2.34	68767	0	139.48	67695	229	0	15.27	0	26.05	0	2.41	0	0	12.48	0	30.77	0
prob7_200_020000_08	413897	104.66	2622687	0	1200.28	1240957	443	1	15.09	0	33.51	0	15.61	2	0	16.51	0	30.37	0
prob7_200_020000_09	398560	43.99	1181371	0	338.01	1179893	368	0	15.01	0	34.93	0	15.57	2	0	17.19	0	30.34	0
prob7_200_020000_10	400661	67.84	1575135	0	939.56	1573186	426	0	15.01	0	37.83	0	15.54	2	0	18.41	0	30.34	0
prob7_200_050000_01	1035865	117.03	1312415	0	1200.28	586969	500	1	94.85	0	180.45	0	98.08	2	0	41.69	0	193.99	0
prob7_200_050000_02	1168262	27.88	328401	0	1200.33	130201	378	1	97.06	0	192.99	0	28.87	2	0	29.70	0	199.03	0
prob7_200_050000_03	1005399	38.47	395009	0	1200.31	193078	399	1	94.51	0	175.62	0	39.79	2	0	44.85	0	194.43	0
prob7_200_050000_04	1068536	149.14	1574155	0	1200.30	393479	360	1	95.19	0	163.84	0	98.31	2	0	40.46	0	194.66	0
prob7_200_050000_05	1035424	37.63	394545	0	886.00	295151	325	0	94.40	0	171.27	0	38.93	2	0	39.11	0	192.41	0
prob7_200_050000_06	1041622	24.23	296401	0	248.78	1075760	404	0	95.20	0	172.49	0	25.28	0	0	39.61	0	193.81	0
prob7_200_050000_07	1019807	945.96	10488147	0	1200.33	267769	631	1	94.61	0	189.65	0	97.92	2	0	44.75	0	194.85	0
prob7_200_050000_08	1065220	190.66	2360757	0	1200.29	123355	425	1	96.07	0	168.82	0	99.19	2	0	38.74	0	194.72	0
prob7_200_050000_09	1151445	43.36	557601	0	1200.30	818622	321	1	96.41	0	189.75	0	44.90	0	0	31.63	0	197.98	0
prob7_200_050000_10	1126485	1200.00	14545199	1	1200.28	71670	451	1	96.95	0	165.33	0	100.31	2	0	35.32	0	196.76	0
prob7_200_100000_01	1976104	673.14	4457917	0	1200.32		451	1	376.28	0	822.47	0	388.27	2	0	94.35	0	781.38	0
prob7_200_100000_02	2192351	27.40	165199	0	330.56	164003	304	0	385.49	0	736.93	0	28.35	0	0	86.94	0	788.09	0
prob7_200_100000_03	2149788	300.74	2114781	0	1166.79	2113731	405	0	382.94	0	822.03	0	312.87	0	0	89.64	0	796.71	0
prob7_200_100000_04	2028666	1200.00	7574835	1	1200.29	412124	533	1	380.98	0	726.82	0	397.02	2	0	94.80	0	782.98	0

Instance	opt	Model M1			Model M3				DP		DSS-1TH		FMT			DSS-4TH		DSS+DP	
		time	#nodes	TL	time	#nodes	#cols	TL	time	TL	time	TL	time	best	TL	time	TL	time	TL
prob7_200_100000_05	2167402	27.42	165451	0	1200.29	144633	338	1	383.57	0	745.69	0	28.39	0	0	86.32	0	793.17	0
prob7_200_100000_06	2237772	26.83	165259	0	957.26	163933	278	0	385.80	0	680.53	0	27.73	0	0	90.69	0	805.23	0
prob7_200_100000_07	2088163	9.04	50393	0	908.92	49377	309	0	380.91	0	724.03	0	9.37	0	0	92.95	0	787.12	0
prob7_200_100000_08	2053461	1200.00	8063513	1	1200.29	1154985	486	1	380.99	0	747.81	0	394.65	2	0	96.52	0	785.58	0
prob7_200_100000_09	2268727	360.73	2360485	0	1200.28	82479	394	1	386.87	0	741.57	0	372.19	0	0	83.62	0	794.42	0
prob7_200_100000_10	2388148	4.59	25295	0	195.92	24571	155	0	389.86	0	890.43	0	4.76	0	0	63.93	0	812.06	0