

1 SAT Lecture - Exercise 1.5 Graph Coloring

57 instances, 300s timeout, running 24 threads in parallel on EPYC 9684X 96-Core

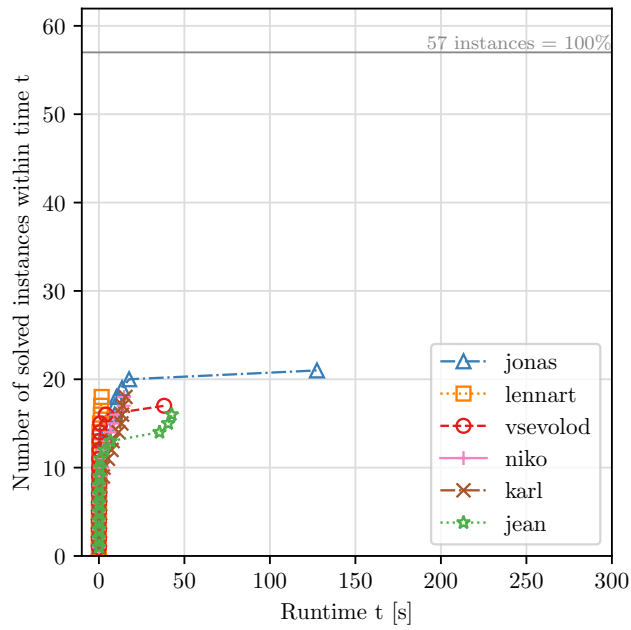
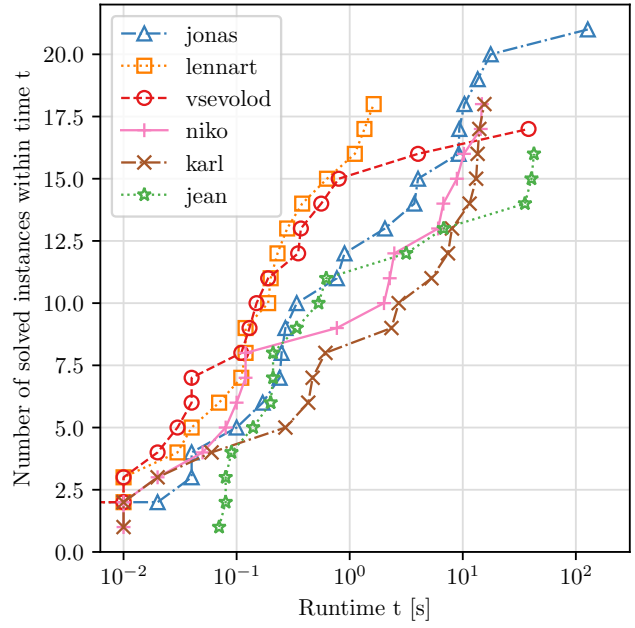
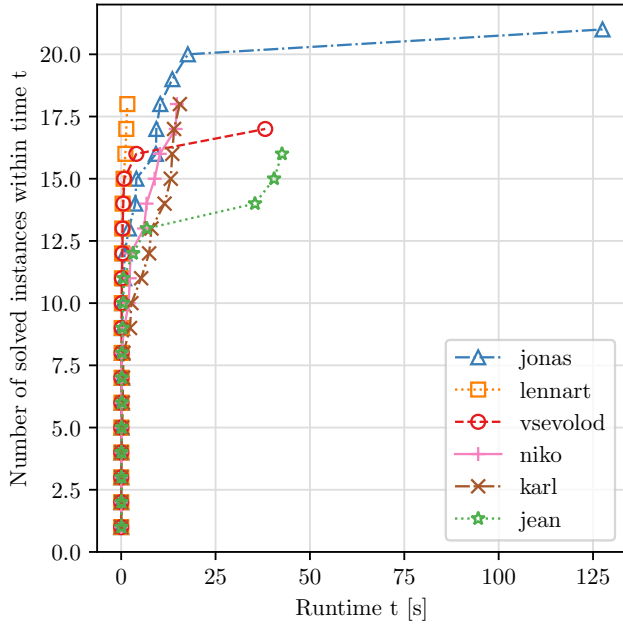


Figure 1

Table 1: k

Instance	jean	jonas	karl	lennart	niko	vsevolod
anna	11	11	11	11	11	11
david	11	11	11	11	11	11
fpsol2.i.1	–	–	–	–	–	–
fpsol2.i.2	–	–	–	–	–	–
fpsol2.i.3	–	–	–	–	–	–
games120	9	9	9	9	9	9
homer	–	13	562	13	561	–
huck	11	11	11	11	11	11
inithx.i.1	–	–	–	–	–	–
inithx.i.2	–	–	–	–	–	–
inithx.i.3	–	–	–	–	–	–
jean	10	10	10	10	10	10
latin_square.10	–	–	–	–	–	–
le450_15b	–	15	–	–	–	–
le450_15c	–	–	–	–	–	–
le450_15d	–	–	–	–	–	–
le450_25a	–	–	–	–	–	–
le450_25b	–	–	–	–	–	–
le450_25c	–	–	–	–	–	–
le450_25d	–	–	–	–	–	–
le450_5a	5	5	5	5	5	5
le450_5b	5	5	5	5	5	5
le450_5c	5	5	5	5	5	5
le450_5d	5	5	5	5	5	5
miles1000	–	–	–	–	–	–
miles1500	–	–	–	–	–	–
miles250	8	8	8	8	8	8
miles500	–	–	–	–	–	–
miles750	–	–	–	–	–	–
mulsol.i.1	–	–	–	–	–	–
mulsol.i.2	–	–	–	–	–	–
mulsol.i.3	–	–	–	–	–	–
mulsol.i.4	–	–	–	–	–	–
mulsol.i.5	–	–	–	–	–	–
myciel3	4	4	4	4	4	4
myciel4	5	5	5	5	5	5
myciel5	6	6	6	6	6	6
myciel6	–	–	–	–	–	–
myciel7	–	–	–	–	–	–
queen10_10	–	–	–	–	–	–
queen11_11	–	–	–	–	–	–
queen12_12	–	–	–	–	–	–
queen13_13	–	–	–	–	–	–
queen14_14	–	–	–	–	–	–
queen15_15	–	–	–	–	–	–
queen16_16	–	–	–	–	–	–
queen5_5	5	5	5	5	5	5
queen6_6	7	7	7	7	7	7
queen7_7	7	7	7	7	7	7
queen8_12	–	12	12	12	12	12
queen8_8	–	–	–	–	–	–
queen9_9	–	–	–	–	–	–
school1	–	14	–	–	–	–
school1_nsh	–	14	–	–	–	–
zeroin.i.1	–	–	–	–	–	–
zeroin.i.2	–	–	–	–	–	–
zeroin.i.3	–	–	–	–	–	–

Table 2: runtime

Instance	jean	jonas	karl	lennart	niko	vsevolod
anna	40.51	0.24	14.01	0.63	10.24	0.37
david	35.44	0.34	5.29	1.63	14.75	0.80
fpsol2.i.1	–	–	–	–	–	–
fpsol2.i.2	–	–	–	–	–	–
fpsol2.i.3	–	–	–	–	–	–
games120	0.53	0.10	0.47	0.11	0.08	0.56
homer	–	2.05	0.43	1.11	2.26	–
huck	42.60	0.27	2.34	0.12	0.12	0.35
inithx.i.1	–	–	–	–	–	–
inithx.i.2	–	–	–	–	–	–
inithx.i.3	–	–	–	–	–	–
jean	3.16	0.17	2.71	0.12	0.12	4.02
latin_square_10	–	–	–	–	–	–
le450_15b	–	17.66	–	–	–	–
le450_15c	–	–	–	–	–	–
le450_15d	–	–	–	–	–	–
le450_25a	–	–	–	–	–	–
le450_25b	–	–	–	–	–	–
le450_25c	–	–	–	–	–	–
le450_25d	–	–	–	–	–	–
le450_5a	0.20	9.31	13.53	0.23	6.05	0.15
le450_5b	0.34	10.35	15.54	0.38	6.73	0.13
le450_5c	0.21	3.73	11.49	0.20	2.01	0.04
le450_5d	0.21	4.02	13.13	0.19	2.48	0.04
miles1000	–	–	–	–	–	–
miles1500	–	–	–	–	–	–
miles250	0.14	0.04	0.27	0.07	0.10	0.11
miles500	–	–	–	–	–	–
miles750	–	–	–	–	–	–
multsol.i.1	–	–	–	–	–	–
multsol.i.2	–	–	–	–	–	–
multsol.i.3	–	–	–	–	–	–
multsol.i.4	–	–	–	–	–	–
multsol.i.5	–	–	–	–	–	–
myciel3	0.08	0.00	0.01	0.00	0.01	0.00
myciel4	0.08	0.04	0.02	0.01	0.02	0.01
myciel5	6.78	9.20	8.03	0.28	14.42	0.19
myciel6	–	–	–	–	–	–
myciel7	–	–	–	–	–	–
queen10_10	–	–	–	–	–	–
queen11_11	–	–	–	–	–	–
queen12_12	–	–	–	–	–	–
queen13_13	–	–	–	–	–	–
queen14_14	–	–	–	–	–	–
queen15_15	–	–	–	–	–	–
queen16_16	–	–	–	–	–	–
queen5_5	0.07	0.02	0.01	0.01	0.01	0.01
queen6_6	0.62	0.77	0.61	0.04	0.77	0.03
queen7_7	0.09	0.25	0.06	0.03	0.05	0.02
queen8_12	–	0.90	7.40	1.35	8.87	38.16
queen8_8	–	–	–	–	–	–
queen9_9	–	–	–	–	–	–
school1	–	13.55	–	–	–	–
school1_nsh	–	127.51	–	–	–	–
zeroin.i.1	–	–	–	–	–	–
zeroin.i.2	–	–	–	–	–	–
zeroin.i.3	–	–	–	–	–	–