

Options: queue, random restart, no recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	462.90	462.90	462.62	462.62	11.25	11.19	18.95	19.06	20.51	20.51	20.44	20.44
SJC2	328.03	389.15	389.15	402.64	413.67	73.83	73.17	147.46	143.42	18.63	18.63	22.74	26.11
SJC3a	315.87	387.41	387.41	381.78	403.97	267.26	265.12	577.06	552.97	22.65	22.65	20.87	27.89
SJC3b	278.96	353.67	353.67	353.75	353.75	241.71	239.64	600.65	618.56	26.78	26.78	26.81	26.81
SJC4a	317.65	427.07	429.47	427.07	427.07	706.49	808.15	1022.15	1025.62	34.44	35.20	34.44	34.44
SJC4b	277.03	366.08	366.08	355.65	355.65	685.20	684.97	1008.06	1032.83	32.15	32.15	28.38	28.38
Avg.						330.62	347.38	562.73	565.41	25.86	26.32	25.95	27.35

Options: queue, random restart, approximate recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	462.62	462.62	462.90	462.62	8.83	11.77	19.07	19.04	20.44	20.44	20.51	20.44
SJC2	328.03	362.06	362.06	389.15	386.05	39.25	57.11	95.34	135.33	10.37	10.37	18.63	17.69
SJC3a	315.87	390.49	390.49	395.55	362.80	114.03	170.71	326.49	458.01	23.62	23.62	25.23	14.86
SJC3b	278.96	336.33	336.33	351.42	347.33	106.17	152.92	297.68	405.81	20.57	20.57	25.97	24.51
SJC4a	317.65	392.56	392.56	446.32	413.67	372.39	612.71	1008.04	1001.35	23.58	23.58	40.50	30.23
SJC4b	277.03	336.33	336.33	352.47	353.96	284.76	429.95	1011.57	1012.12	21.41	21.41	27.23	27.77
Avg.						153.91	239.53	460.04	505.28	20.00	20.34	26.68	22.58

Options: queue, random restart, exact recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	462.62	468.16	462.62	462.62	25.92	31.91	39.70	50.98	20.44	21.88	20.44	20.44
SJC2	328.03	362.31	362.08	372.39	375.94	172.58	238.64	338.79	455.00	10.45	10.38	13.52	14.60
SJC3a	315.87	379.68	399.89	373.70	391.00	815.95	1010.40	1014.70	1026.69	20.20	26.60	18.31	23.79
SJC3b	278.96	331.11	346.45	355.65	340.70	873.74	1008.83	1003.25	1010.76	18.70	24.19	27.49	22.13
SJC4a	317.65	406.77	403.53	419.61	490.95	1017.57	1007.31	1038.79	1003.13	28.05	27.03	32.10	54.56
SJC4b	277.03	333.79	333.79	351.96	362.80	1002.31	1021.64	1034.40	1004.45	20.49	20.49	27.05	30.96
Avg.						651.01	720.12	745.28	758.50	19.72	22.10	23.49	27.75

Options: queue, perturbation restart, no recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	462.62	451.69	462.62	462.62	9.54	10.24	16.44	16.77	20.44	17.59	20.44	20.44
SJC2	328.03	362.31	362.31	355.04	355.04	59.39	58.46	95.42	96.57	10.45	10.45	8.23	8.23
SJC3a	315.87	353.67	353.67	341.74	341.74	213.54	212.98	334.03	336.24	11.97	11.97	8.19	8.19
SJC3b	278.96	316.11	316.11	313.23	313.23	167.83	165.09	377.97	381.78	13.32	13.32	12.29	12.29
SJC4a	317.65	359.36	363.45	362.31	362.31	542.82	539.18	1014.26	1005.88	13.13	14.42	14.06	14.06
SJC4b	277.03	305.08	305.08	309.92	309.92	476.12	474.70	973.03	975.89	10.13	10.13	11.87	11.87
Avg.						244.54	243.78	468.86	468.85	13.24	13.32	12.85	12.51

Options: queue, perturbation restart, approximate recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	462.62	462.62	457.85	457.85	8.73	11.33	14.90	14.66	20.44	20.44	19.20	19.20
SJC2	328.03	342.19	343.93	328.03	362.31	24.70	35.58	38.80	57.42	7.79	7.79	0.00	10.45
SJC3a	315.87	347.33	347.33	337.20	346.60	72.19	97.90	162.26	259.19	9.96	9.96	6.75	9.73
SJC3b	278.96	305.01	305.01	313.23	299.85	66.30	99.26	144.15	194.89	9.34	9.34	12.29	7.49
SJC4a	317.65	345.01	350.01	354.54	354.54	171.89	226.29	538.96	832.95	8.61	10.19	11.61	11.61
SJC4b	277.03	288.25	288.25	304.63	304.87	155.62	198.85	394.78	668.71	4.05	4.05	9.96	10.05
Avg.						82.91	111.87	215.98	337.97	10.03	10.63	10.31	11.42

Options: queue, perturbation restart, exact recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	462.62	462.62	457.85	462.62	22.94	27.55	39.58	47.15	20.44	20.44	19.20	20.44
SJC2	328.03	342.19	343.93	362.31	353.67	141.26	203.09	281.01	288.71	4.32	4.85	10.45	7.82
SJC3a	315.87	345.63	340.70	337.56	341.74	617.44	776.02	1009.43	1019.84	9.42	7.86	6.87	8.19
SJC3b	278.96	289.76	299.67	286.68	317.71	530.57	773.26	1018.75	1018.26	3.87	7.42	2.77	13.89
SJC4a	317.65	353.60	353.60	343.17	345.93	1035.39	1017.82	1011.84	1072.74	11.32	11.32	8.03	8.90
SJC4b	277.03	289.71	289.71	299.05	298.33	1013.53	1008.39	1017.68	1048.70	4.58	4.58	7.95	7.69
Avg.						559.86	634.69	730.05	749.23	8.99	9.75	9.55	11.15

Options: stack, random restart, no recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	462.62	462.62	477.14	477.14	11.22	11.14	25.24	25.36	20.44	20.44	24.22	24.22
SJC2	328.03	375.90	375.90	379.89	379.89	80.28	76.42	213.70	215.01	14.59	14.59	15.81	15.81
SJC3a	315.87	383.71	383.71	409.54	393.41	258.58	256.91	816.14	815.61	21.48	21.48	29.65	24.55
SJC3b	278.96	338.79	370.95	367.70	350.62	281.03	275.02	880.14	913.02	21.45	32.98	31.81	25.69
SJC4a	317.65	413.68	413.68	446.76	446.76	837.15	834.41	1141.88	1000.86	30.23	30.23	40.64	40.64
SJC4b	277.03	357.21	357.21	383.02	362.67	799.77	800.63	1002.56	1018.55	28.94	28.94	38.26	30.91
Avg.						377.67	376.09	680.28	664.73	22.86	25.11	30.40	26.97

Options: stack, random restart, approximate recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	477.13	477.13	462.62	462.62	9.38	12.28	21.28	24.79	24.22	24.22	20.44	20.44
SJC2	328.03	394.89	394.89	384.11	362.31	43.06	62.56	133.18	171.40	20.38	20.38	17.10	10.45
SJC3a	315.87	403.97	387.90	379.68	389.15	141.65	210.60	466.95	667.78	27.89	22.65	20.20	23.20
SJC3b	278.96	353.75	353.75	329.26	341.74	138.15	200.51	463.21	657.56	26.81	26.81	18.03	22.50
SJC4a	317.65	400.09	434.44	418.13	416.79	452.13	762.45	1034.20	1014.43	25.95	36.77	31.63	31.21
SJC4b	277.03	336.25	336.25	340.81	348.57	381.00	629.65	1002.07	1023.07	21.38	21.38	23.02	25.83
Avg.						193.90	313.34	520.49	593.17	24.44	25.70	22.07	22.27

Options: stack, random restart, exact recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	462.62	462.62	462.62	462.90	25.36	31.60	55.35	67.67	20.44	20.44	20.44	20.51
SJC2	328.03	387.22	375.94	372.26	362.67	203.03	310.69	473.32	655.20	18.04	14.60	13.48	10.56
SJC3a	315.87	396.55	396.55	379.67	390.49	1015.13	1008.43	1017.84	1020.57	25.54	25.54	20.20	23.62
SJC3b	278.96	317.65	336.33	333.11	344.30	1009.98	1008.48	1018.65	1002.70	13.87	20.57	19.41	23.42
SJC4a	317.65	424.06	462.51	453.88	490.95	1020.41	1028.30	1085.83	1030.92	33.50	45.60	42.88	54.56
SJC4b	277.03	353.67	310.27	330.92	377.62	1025.77	1003.38	1025.07	1076.68	27.66	12.00	19.45	36.31
Avg.						716.28	732.15	779.68	808.96	23.18	23.46	22.98	28.16

Options: stack, perturbation restart, no recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	462.62	462.62	448.51	448.51	10.12	10.12	23.39	23.11	20.44	20.44	16.77	16.77
SJC2	328.03	347.97	347.97	377.04	377.04	59.94	59.06	147.26	148.93	6.08	6.08	14.94	14.94
SJC3a	315.87	340.88	340.88	353.67	362.31	211.15	210.24	597.11	585.28	7.92	7.92	11.97	14.70
SJC3b	278.96	299.67	299.67	328.72	322.62	195.06	193.39	550.99	496.17	7.42	7.42	17.84	15.65
SJC4a	317.65	344.57	371.23	360.87	360.87	620.55	582.61	1012.82	1019.40	8.47	16.87	13.60	13.60
SJC4b	277.03	297.71	303.03	317.65	293.90	522.03	504.20	1055.57	1012.08	7.47	9.39	14.66	6.09
Avg.						269.48	260.27	564.86	547.50	9.63	11.69	15.30	13.63

Options: stack, perturbation restart, approximate recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	425.71	425.71	462.62	462.62	8.41	10.51	18.65	23.36	10.83	10.83	20.44	20.44
SJC2	328.03	346.45	353.60	330.90	365.13	162.37	250.15	385.90	521.03	5.61	7.79	4.32	5.42
SJC3a	315.87	362.31	362.31	352.01	354.46	90.04	125.01	240.68	302.35	14.70	14.70	11.44	12.22
SJC3b	278.96	313.50	313.50	317.65	336.33	88.95	123.36	221.35	370.29	12.38	12.38	13.87	20.57
SJC4a	317.65	353.60	353.60	364.62	351.42	243.92	322.75	745.19	1014.18	11.32	11.32	14.79	10.63
SJC4b	277.03	297.70	297.70	288.59	306.20	245.59	295.46	667.13	1007.77	7.46	7.46	4.17	10.53
Avg.						118.13	153.88	329.40	469.64	11.32	11.65	11.84	13.30

Options: stack, perturbation restart, exact recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	462.62	462.62	462.62	462.62	23.74	28.87	51.44	63.57	20.44	20.44	20.44	20.44
SJC2	328.03	346.45	353.60	330.90	365.13	162.37	250.15	385.90	521.03	5.61	7.79	0.88	11.31
SJC3a	315.87	342.19	341.55	343.94	353.96	773.09	1006.67	1012.85	1026.22	8.33	8.13	8.89	12.06
SJC3b	278.96	285.95	285.95	314.01	299.67	663.07	1007.56	1004.74	1023.05	2.51	2.51	12.56	7.42
SJC4a	317.65	356.91	356.91	383.35	383.35	1001.49	1008.19	1018.62	1132.08	12.36	12.36	20.68	20.68
SJC4b	277.03	304.11	296.42	305.08	299.20	1007.97	1017.32	1006.89	1009.31	9.78	7.00	10.13	8.00
Avg.						604.96	720.13	747.08	795.88	9.84	10.04	12.60	13.32

Options: priority queue, random restart, no recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	462.62	462.62	462.62	462.62	14.29	14.22	21.21	21.39	20.44	20.44	20.44	20.44
SJC2	328.03	403.53	403.53	387.22	387.22	100.74	98.96	169.95	171.35	23.02	23.02	18.04	18.04
SJC3a	315.87	404.82	404.82	406.08	406.08	328.27	326.19	642.71	650.44	28.16	28.16	28.56	28.56
SJC3b	278.96	379.68	379.68	364.62	364.62	350.52	350.33	567.75	595.84	36.11	36.11	30.71	30.71
SJC4a	317.65	427.07	427.07	484.00	475.38	982.81	980.55	1022.73	1037.80	34.44	34.44	52.37	49.65
SJC4b	277.03	348.57	348.57	371.23	371.23	886.43	886.15	1008.79	1013.21	25.83	25.83	34.00	34.00
Avg.						443.51	443.07	572.53	581.67	28.00	28.34	31.02	30.23

Options: priority queue, random restart, approximate recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	462.62	462.62	468.16	448.83	12.51	15.16	19.90	23.97	20.44	20.44	21.88	16.85
SJC2	328.03	395.92	395.92	379.52	389.15	62.01	85.72	106.64	123.01	20.70	20.70	15.70	18.63
SJC3a	315.87	395.94	375.94	388.50	396.17	176.40	263.40	418.44	543.37	19.02	19.02	22.99	25.42
SJC3b	278.96	352.01	352.01	341.76	353.67	185.77	236.19	324.07	470.55	26.19	26.19	22.51	26.78
SJC4a	317.65	375.83	375.83	401.40	443.03	625.29	867.28	1009.80	1006.03	18.31	18.31	26.37	39.47
SJC4b	277.03	335.77	336.33	335.81	344.19	509.33	606.67	1003.93	1013.47	21.21	21.41	21.22	24.24
Avg.						261.55	346.07	480.80	530.07	20.98	21.35	22.11	25.23

Options: priority queue, random restart, exact recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	458.47	462.62	462.62	471.01	30.05	35.49	44.28	50.30	19.36	20.44	20.44	22.62
SJC2	328.03	384.11	370.79	389.15	365.06	199.06	262.57	364.55	460.08	17.10	13.03	18.63	11.29
SJC3a	315.87	395.55	369.20	392.77	392.77	859.12	1004.22	1002.50	1009.77	25.23	16.88	24.34	24.34
SJC3b	278.96	328.22	336.33	310.16	330.95	945.33	1001.53	1003.75	1002.08	17.66	20.57	11.19	18.64
SJC4a	317.65	421.34	421.34	413.68	420.02	1019.43	1001.40	1016.11	1009.83	32.64	32.64	30.23	32.23
SJC4b	277.03	336.33	345.93	355.24	323.21	1016.94	1029.46	1005.62	1004.77	21.41	24.87	28.23	16.67
Avg.						677.99	722.78	739.81	756.14	22.23	21.74	22.51	20.96

Options: priority queue, perturbation restart, no recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	419.42	419.42	462.62	462.62	12.61	12.54	18.61	18.73	9.19	9.19	20.44	20.44
SJC2	328.03	342.19	342.19	370.48	362.67	68.16	67.30	126.70	127.02	4.32	4.32	12.94	10.56
SJC3a	315.87	336.33	336.33	362.31	362.31	266.54	264.55	412.67	427.96	6.48	6.48	14.70	14.70
SJC3b	278.96	307.72	307.72	313.23	313.23	215.76	216.69	383.96	385.44	10.31	10.31	12.29	12.29
SJC4a	317.65	369.87	369.20	361.20	361.20	719.64	618.61	1018.08	1008.26	16.44	16.23	13.71	13.71
SJC4b	277.03	307.33	307.33	301.01	318.21	611.32	609.61	894.25	1011.51	10.94	10.94	8.66	14.87
Avg.						315.34	298.55	476.05	496.49	9.61	9.91	14.13	14.43

Options: priority queue, perturbation restart, approximate recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	462.62	462.62	457.85	462.62	11.48	13.71	16.76	20.61	20.44	20.44	19.20	20.44
SJC2	328.03	350.04	351.01	353.60	367.76	39.99	48.66	59.66	80.99	12.40	12.40	11.62	10.45
SJC3a	315.87	355.98	355.98	317.72	320.49	111.51	142.95	219.44	249.20	12.70	12.70	0.59	1.46
SJC3b	278.96	297.15	297.15	309.92	320.66	116.12	128.21	170.73	248.16	6.52	6.52	11.10	14.95
SJC4a	317.65	353.96	353.96	363.45	353.60	326.67	425.45	859.54	871.80	11.43	11.43	14.42	11.32
SJC4b	277.03	294.36	294.36	328.72	335.81	263.34	294.01	583.04	660.35	6.26	6.26	18.66	21.22
Avg.						144.52	175.83	318.53	355.18	11.62	11.96	12.93	13.31

Options: priority queue, perturbation restart, exact recentering

Pr. No.	Objective Value					Time				% Deviation			
	BK	1S	tS	1B	tB	1S	tS	1B	tB	1S	tS	1B	tB
SJC1	384.11	445.41	445.41	462.62	462.62	26.42	31.14	36.41	48.76	15.96	15.96	20.44	20.44
SJC2	328.03	350.04	351.01	353.60	367.76	162.12	213.86	295.27	402.47	6.71	7.01	7.79	12.11
SJC3a	315.87	353.96	346.60	353.60	324.51	637.84	811.49	1001.18	1008.60	12.06	9.73	11.95	2.74
SJC3b	278.96	278.96	278.96	287.55	300.41	508.18	733.20	1006.08	1020.37	0.00	0.00	3.08	7.69
SJC4a	317.65	330.43	364.78	381.04	364.62	1010.94	1012.27	1061.90	1007.45	4.02	14.84	19.96	14.79
SJC4b	277.03	284.18	277.03	305.01	318.20	1008.58	1005.53	1003.55	1074.53	2.58	0.00	10.10	14.86
Avg.						558.68	634.92	734.40	760.36	6.89	8.26	12.56	12.10