

Resultados da relaxação linear para as instâncias do Sifarelas para as formulações MC, SP e STD.

- set01: $f r = 200$, $f = 200$

instance	mc	sp	std	mc - std
c52_1.txt	8.595,94	8.595,94	6.331,46	2.264,48
c52_2.txt	8.577,66	8.577,66	6.902,37	1.675,29
c52_3.txt	8.460,21	8.460,21	5.995,21	2.465,00
c52_4.txt	8.783,13	8.783,13	7.343,70	1.439,43
c52_5.txt	9.451,64	9.451,64	7.579,49	1.872,15
c52_6.txt	9.548,03	9.548,03	7.026,66	2.521,37
c52_7.txt	9.403,33	9.403,33	6.202,61	3.200,72
c52_8.txt	9.448,06	9.448,06	6.410,02	3.038,04
c52_9.txt	10.051,04	10.051,04	6.938,16	3.112,88
c52_10.txt	10.122,08	10.122,08	7.031,89	3.090,19
c52_11.txt	10.005,83	10.005,83	6.439,40	3.566,43
c52_12.txt	10.155,69	10.155,69	6.435,23	3.720,46
set01	9.383,55	9.383,55	6.719,68	2.663,87

- set02: $f r = 200$, $f = 500$

instance	mc	sp	std	mc - std
c52_13.txt	13.079,31	13.079,31	14.940,50	-1.861,19
c52_14.txt	11.897,01	11.897,01	10.476,99	1.420,02
c52_15.txt	12.937,65	12.937,65	13.330,43	-392,78
c52_16.txt	11.758,21	11.758,21	12.389,72	-631,51
c52_17.txt	13.889,03	13.889,03	14.884,94	-995,91
c52_18.txt	12.641,02	12.641,02	11.362,17	1.278,85
c52_19.txt	13.611,17	13.611,17	13.167,95	443,22
c52_20.txt	13.121,12	13.121,12	14.384,79	-1.263,67
c52_21.txt	14.482,86	14.482,86	15.191,46	-708,60
c52_22.txt	13.390,57	13.390,57	11.907,74	1.482,83
c52_23.txt	14.064,62	14.064,62	12.311,88	1.752,74
c52_24.txt	13.080,27	13.080,27	11.724,46	1.355,81
set02	13.162,74	13.162,74	13.006,09	156,65

- set03: $f_r = 200$, $f = 2000$

instance	mc	sp	std	mc - std
c52_25.txt	26.069,48	26.069,48	46.112,04	-20.042,56
c52_26.txt	21.230,22	21.230,22	39.603,12	-18.372,90
c52_27.txt	25.165,36	25.165,36	43.474,47	-18.309,12
c52_28.txt	20.575,73	20.575,73	38.166,17	-17.590,44
c52_29.txt	26.403,79	26.403,79	44.934,95	-18.531,16
c52_30.txt	21.455,33	21.455,33	40.116,54	-18.661,21
c52_31.txt	27.686,93	27.686,93	56.846,72	-29.159,79
c52_32.txt	22.209,95	22.209,95	35.694,94	-13.484,99
c52_33.txt	27.178,03	27.178,03	46.212,05	-19.034,02
c52_34.txt	22.177,55	22.177,55	37.538,33	-15.360,78
c52_35.txt	26.992,98	26.992,98	52.084,13	-25.091,15
c52_36.txt	21.921,76	21.921,76	34.435,56	-12.513,80
set03	24.088,93	24.088,93	42.934,92	-18.845,99

- set04: $f_r = 500$, $f = 200$

instance	mc	sp	std	mc - std
c52_37.txt	10.583,08	10.583,08	11.089,27	-506,19
c52_38.txt	11.860,38	11.860,38	12.182,50	-322,13
c52_39.txt	10.629,12	10.629,12	9.345,23	1.283,89
c52_40.txt	11.630,68	11.630,68	10.283,14	1.347,54
c52_41.txt	12.083,48	12.083,48	8.667,11	3.416,37
c52_42.txt	13.554,08	13.554,08	11.879,50	1.674,58
c52_43.txt	12.274,04	12.274,04	9.878,39	2.395,65
c52_44.txt	13.381,20	13.381,20	11.443,38	1.937,82
c52_45.txt	13.158,85	13.158,85	9.368,03	3.790,82
c52_46.txt	14.714,72	14.714,72	12.315,31	2.399,41
c52_47.txt	13.508,47	13.508,47	9.886,99	3.621,48
c52_48.txt	14.730,10	14.730,10	12.812,62	1.917,48
set04	12.675,68	12.675,68	10.762,62	1.913,06

- set05: $f r = 500$, $f = 500$

instance	mc	sp	std	mc - std
c52_49.txt	15.509,55	15.509,55	15.542,79	-33,24
c52_50.txt	15.296,19	15.296,19	18.242,77	-2.946,58
c52_51.txt	15.462,36	15.462,36	19.867,21	-4.404,85
c52_52.txt	15.219,14	15.219,14	17.801,05	-2.581,92
c52_53.txt	16.546,02	16.546,02	15.000,74	1.545,28
c52_54.txt	16.718,07	16.718,07	17.659,95	-941,88
c52_55.txt	16.393,56	16.393,56	15.069,72	1.323,84
c52_56.txt	16.807,15	16.807,15	15.724,89	1.082,26
c52_57.txt	17.783,49	17.783,49	18.980,35	-1.196,86
c52_58.txt	18.066,80	18.066,80	18.626,37	-559,57
c52_59.txt	17.721,25	17.721,25	16.314,30	1.406,95
c52_60.txt	18.098,35	18.098,35	17.002,58	1.095,77
set05	16.635,16	16.635,16	17.152,73	-517,57

- set06: $f r = 500$, $f = 2000$

instance	mc	sp	std	mc - std
c52_61.txt	28.520,45	28.520,45	51.679,74	-23.159,29
c52_62.txt	25.103,97	25.103,97	39.692,39	-14.588,42
c52_63.txt	27.845,66	27.845,66	45.106,39	-17.260,73
c52_64.txt	25.410,88	25.410,88	46.393,10	-20.982,22
c52_65.txt	30.190,29	30.190,29	57.295,48	-27.105,19
c52_66.txt	26.604,55	26.604,55	42.398,80	-15.794,25
c52_67.txt	29.853,59	29.853,59	52.201,04	-22.347,45
c52_68.txt	26.601,38	26.601,38	40.909,20	-14.307,82
c52_69.txt	30.888,45	30.888,45	52.135,97	-21.247,52
c52_70.txt	27.435,34	27.435,34	40.614,74	-13.179,40
c52_71.txt	31.077,57	31.077,57	55.263,46	-24.185,89
c52_72.txt	27.263,83	27.263,83	41.877,26	-14.613,43
set06	28.066,33	28.066,33	47.130,63	-19.064,30

- set07: $f r = 2000$, $f = 200$

instance	mc	sp	std	mc - std
c52_73.txt	14.444,49	14.444,49	13.875,34	569,15
c52_74.txt	18.292,59	18.292,59	19.629,23	-1.336,64
c52_75.txt	15.005,20	15.005,20	15.546,77	-541,57
c52_76.txt	18.049,88	18.049,88	20.437,98	-2.388,10
c52_77.txt	18.482,19	18.482,19	20.302,97	-1.820,78
c52_78.txt	22.850,55	22.850,55	30.487,53	-7.636,98
c52_79.txt	18.610,87	18.610,87	19.523,86	-912,99
c52_80.txt	23.465,71	23.465,71	34.643,70	-11.177,99
c52_81.txt	20.928,15	20.928,15	19.615,14	1.313,01
c52_82.txt	26.372,46	26.372,46	37.601,91	-11.229,45
c52_83.txt	21.215,29	21.215,29	26.413,65	-5.198,36
c52_84.txt	26.156,32	26.156,32	32.846,70	-6.690,38
set07	20.322,81	20.322,81	24.243,73	-3.920,92

- set08: $f r = 2000$, $f = 500$

instance	mc	sp	std	mc - std
c52_85.txt	19.750,03	19.750,03	25.206,89	-5.456,86
c52_86.txt	22.708,08	22.708,08	30.879,49	-8.171,41
c52_87.txt	20.048,03	20.048,03	24.482,90	-4.434,87
c52_88.txt	22.809,57	22.809,57	31.871,58	-9.062,01
c52_89.txt	23.055,01	23.055,01	29.905,65	-6.850,64
c52_90.txt	27.051,35	27.051,35	38.603,63	-11.552,28
c52_91.txt	23.064,35	23.064,35	29.500,48	-6.436,13
c52_92.txt	26.699,03	26.699,03	34.240,57	-7.541,54
c52_93.txt	26.015,26	26.015,26	35.066,66	-9.051,40
c52_94.txt	30.091,22	30.091,22	39.596,40	-9.505,18
c52_95.txt	26.318,25	26.318,25	30.597,08	-4.278,84
c52_96.txt	29.890,70	29.890,70	45.302,97	-15.412,27
set08	24.791,74	24.791,74	32.937,86	-8.146,12

- set09: $f_r = 2000$, $f = 2000$

instance	mc	sp	std	mc - std
c52_97.txt	34.034,47	34.034,47	61.466,56	-27.432,10
c52_98.txt	35.827,36	35.827,36	79.222,80	-43.395,44
c52_99.txt	35.343,17	35.343,17	70.062,58	-34.719,41
c52_100.txt	34.628,76	34.628,76	61.628,72	-26.999,96
c52_101.txt	37.401,00	37.401,00	66.634,10	-29.233,10
c52_102.txt	38.846,93	38.846,93	76.268,83	-37.421,90
c52_103.txt	37.996,10	37.996,10	66.175,24	-28.179,14
c52_104.txt	38.233,65	38.233,65	67.180,41	-28.946,77
c52_105.txt	39.466,48	39.466,48	63.762,58	-24.296,10
c52_106.txt	41.603,86	41.603,86	76.912,92	-35.309,06
c52_107.txt	39.619,06	39.619,06	56.061,62	-16.442,56
c52_108.txt	40.699,65	40.699,65	59.310,10	-18.610,45
set09	37.808,37	37.808,37	67.057,21	-29.248,83