2ord 20s Analysis - Data

N Density Inc	dex Is name	move stra m	mr duratio nun	nber of run fo max	fo mean	fo. ed	n moves mean	n movee ed	mean_round_tim n_mo	wee2 mea	mean2 round time[ms]					
1000 1	1 basic	first move	20		_	1870.97000			0	0	0					
1000 1			20			1601.45275			0	5.216667	1.833333					
	1 basic(order															
1000 1	2 basic	first_move	20.003		7 204629.764		1060.917197		0	0	0					
1000 1	2 basic(order		20.003			611.367675	1082.484375		0	4.828125	1.953125					
1000 1	3 basic	first_move	20.008		0 203266.896			28.583233	0	0	0					
1000 1	3 basic(order		20.008		6 203646.722		1069.069444		0	4.791667	1.444444					
1000 1	4 basic	first_move	20		5 211657.647		1067.747059		0	0	0					
1000 1	4 basic(order		20		4 211841.333			65.635026	0	4.277778	1.777778					
1000 1	5 basic	first_move	20			615.531982	1062.204819		0	0	0					
1000 1	5 basic(order		20.011		0 210296.939			29.489582	0	4.606061	1.984848					
1000 5	1 basic	first_move	20		7 854392.811		1783.169811		0	0	0					
1000 5	1 basic(order		20		3 855539.333		1854.037037			11.814815	6.074074					
1000 5	2 basic	first_move	20		8 858777.643		1792.207921		0	0	0					
1000 5	2 basic(order	2 first_move	20		9 860207.923		1864.961538	63.592743		11.961538	6.153846					
1000 5	3 basic	first_move	20	99 86778	9 863825.454	1495.53025	1771.151515	56.699342	0	0	0					
1000 5	3 basic(order	2 first_move	20	25 86930	1 865615.4	1750.18291	1858.64	68.85456	0	11.56	7					
1000 5	4 basic	first_move	20.002	110 86690	6 863264.072	1507.81672	1773.490909	45.539143	0	0	0					
1000 5	4 basic(order	2 first_move	20.013	27 86674	9 864601.481	1232.06789	1836.814815	56.666037	0	11.666667	6.259259					
1000 5	5 basic	first_move	20	103 86158	9 857516.184	2008.32161	1776.174757	61.686874	0	0	0					
1000 5	5 basic(order	2 first_move	20.003	29 86277	5 859589.137	1323.66931	1848.103448	44.523024	0	10.344828	7					
1000 10	1 basic	first_move	20	92 160906	6 1603985.72	2165.35160	2112.347826	73.304522	0	0	0					
1000 10	1 basic(order	2 first_move	20	20 160860	1 1606558.95	1980.69385	2233.85	81.928185	0	12.95	12.3					
1000 10	2 basic	first_move	20	84 162851	3 1623661.32	2427.43920	2115.690476	80.203606	0	0	0					
1000 10	2 basic(order	2 first_move	20.007	19 163002	0 1626045.57	2263.51760	2208.947368	67.802712	0	13.421053	12.736842					
1000 10	3 basic	first_move	20	67 162775	7 1622839.74	3156.22766	2105.358209	90.666142	0	0	0					
1000 10	3 basic(order	2 first move	20	17 162775	9 1614449.35	41892.7612	2119.705882	416.787965	0	14.352941	12.764706					
1000 10	4 basic	first move	20.002	64 162313	5 1618202.92	1939.72414	2125.921875	61.601112	0	0	0					
1000 10	4 basic(order	2 first move	20.004	17 162305	1 1620598.35	1431.36684	2251.764706	67.445428	0	10.588235	16.823529					
1000 10	5 basic	first_move	20.001	77 162372	1 1617699.70	1964.63057	2119.87013	73.610655	0	0	0					
1000 10	5 basic(order		20.008			1809.76706			0	13.222222	13.722222					
1000 50	1 basic	first move	20		8 8066955.8			246.584575	0	0	0					
1000 50	1 basic(order	first move	20	9 807719	1 8072055.55	3829.45189	3057.333333	121.835043	0	10.888889	93					
1000 50	2 basic	first move	20			66283.5938	2953.230769		0	0	0					
1000 50	2 basic(order		20.007		3 8070996.3			125.992222	0	9.1	101.9					
1000 50	3 basic	first move	20			8671.65515			0	0.1	0					
1000 50	3 basic(order		20.08	10 808053		6689.67906		177.142908	0	9	111.5					
1000 50	4 basic	first move	20.002		7 8068997.96			114.492307	0	0	0					
1000 50	4 basic(order		20.102		8 8071362.3			114.703139	0	9.9	103.1					
1000 50	5 basic		20.102			15366.1626			0	9.9	103.1					
		first_move							-	-	-					
1000 50	5 basic(order		20.332		2 8069384.62			140.8101	0	12	116.25					
1000 100	1 basic	first_move	20		1 25759554.0			150.025812	-	0	•					
1000 100	1 basic(order		20.243		9 25760691.6		3550.166667		0	8	278					
1000 100	2 basic	first_move	20.001		3 25759414.1		3383.102564		0	0	0					
1000 100	2 basic(order		20.275			3840.00753	3349.833333		0	6.666667	336					
1000 100	3 basic	first_move	20		0 25796663.9			147.787007	0	0	0					
1000 100	3 basic(order		20.009		8 25796357.6			123.115555	0	8.8	255.6			-		
1000 100	4 basic	first_move	20		0 25808591.5			169.389796	0	0	0					
1000 100	4 basic(order		20.007			5216.45571			0	6.833333	311					
1000 100	5 basic	first_move	20.001			4529.56218	3410.184211		0	0	0					
1000 100	5 basic(order	2 first_move	20.854	6 257738	7 25768221.6	2963.07882	3500	104.462114	0	6.833333	320.666667					

2ord 20s Analysis - Best Solution

N De	ensity Ir	ndex B	est F Algo	orithm	Strategy	# Runs F Mean	F SD	(F_best - F_mean)/F_SD	Field					
000	1	1	210176 basi	ic	first_move	166 208400.265	1870.97000	0.9490985628	fo_max					
000	1	2	206452 basi	ic(order2	first_move	64 204995.812	611.367675	2.381852295						
00	1	3	205050 basi	ic	first_move	183 203266.896	624.928923	2.853290605						
000	1	4	213724 basi	ic(order2	first_move	72 211841.333	3275.53853	0.5747655383						
000	1	5	211840 basi	ic(order2	first_move	66 210296.939	588.328986	2.622785283						
000	5	1	859387 basi	ic	first_move	106 854392.811	1648.46563	3.029598298						
00	5	2	862969 basi	ic(order2	first_move	26 860207.923	1500.69983	1.83985955						
00	5	3	869301 basi	ic(order2	first_move	25 865615.4	1750.18291	2.105837034						
000	5	4	866906 basi	ic	first_move	110 863264.072	1507.81672	2.415364692						
000	5	5	862775 basi	ic(order2	first_move	29 859589.137	1323.66931	2.406841366						
00	10	1	1609066 basi	ic	first_move	92 1603985.72	2165.35160	2.346164807						
000	10	2	1630020 basi	ic(order2	first_move	19 1626045.57	2263.51760	1.755860459						
000	10	3	1627759 basi	ic(order2	first_move	17 1614449.35	41892.7612	0.3177075622						
000	10	4	1623135 basi	ic	first_move	64 1618202.92	1939.72414	2.542669862						
000	10	5	1623721 basi	ic	first_move	77 1617699.70	1964.63057	3.064850346						
000	50	1	8081828 basi	ic	first_move	50 8066955.8	15967.2025	0.9314217651						
000	50	2	8079403 basi	ic(order2	first_move	10 8070996.3	4640.86664	1.811450456						
000	50	3	8080530 basi	ic(order2	first_move		6689.67906							
000	50	4	8082878 basi	ic(order2	first_move	10 8071362.3	5713.36016	2.015573964						
000	50	5	8079402 basi	ic(order2	first_move	8 8069384.62	6039.12580	1.658745872						
000	100	1 :	25768095 basi	sic(order2	first_move	6 25760691.6	3808.93101	1.943677451						
00	100	2 :	25769034 basi	ic	first_move	39 25759414.1	4531.83922	2.122724501						
00	100	3 2	25809808 basi	ic	first_move	40 25796663.9		2.777298196						
00	100	4 :	25820101 basi	ic	first_move	35 25808591.5	5810.48259	1.980804241						
00	100	5 2	25773874 basi	ic(order2	first_move	6 25768221.6	2963.07882	1.907587907						

2ord 20s Analysis - Best Mean

N I	Density In	dex Best F Mean Algorithm	Strategy	# Runs	F Max	F SD	% Distance from Best F	ield					
1000	1	1 208935.1667 basic(order2	first_move	60	210107	1601.45275	0.59% fo	_mean					
1000	1	2 204995.8125 basic(order2	first_move	64	206452	611.367675	0.71%						
1000	1	3 203646.7222 basic(order2	first_move	72	204816	537.772107	0.68%						
1000	1	4 211841.3333 basic(order2	first_move	72	213724	3275.53853	0.88%						
1000	1	5 210296.9394 basic(order2	first_move	66	211840	588.328986	0.73%						
1000	5	1 855539.3333 basic(order2	first_move	27	858373	1728.59294	0.45%						
1000	5	2 860207.9231 basic(order2	first_move	26	862969	1500.69983	0.32%						
1000	5	3 865615.4 basic(order2	first_move	25	869301	1750.18291	0.42%						
1000	5	4 864601.4815 basic(order2	first_move	27	866749	1232.06789	0.27%						
1000	5	5 859589.1379 basic(order2	first_move	29	862775	1323.66931	0.37%						
1000	10	1 1606558.95 basic(order2	first_move	20	1608601	1980.69385	0.16%						
1000	10	2 1626045.579 basic(order2	first_move	19	1630020	2263.51760	0.24%						
1000	10	3 1622839.746 basic	first_move	67	1627757	3156.22766	0.30%						
1000	10	4 1620598.353 basic(order2	first_move	17	1623051	1431.36684	0.16%						
1000	10	5 1619186.944 basic(order2	first_move	18	1622955	1809.76706	0.28%						
1000	50	1 8072055.556 basic(order2	first_move	9	8077191	3829.45189							
1000	50	2 8070996.3 basic(order2	_			4640.86664	0.10%						
1000	50	3 8069269 basic(order2				6689.67906	0.14%						
1000	50	4 8071362.3 basic(order2				5713.36016							
1000	50	5 8069384.625 basic(order2	_			6039.12580	0.12%						
1000	100	1 25760691.67 basic(order2	_			3808.93101	0.03%						
1000	100	2 25760248.5 basic(order2	first_move			3840.00753	0.03%						
1000	100	3 25796663.93 basic	first_move			4732.68409	0.05%						
1000	100	4 25808591.57 basic	first_move	35	2582010	5810.48259							
1000	100	5 25768221.67 basic(order2	first_move	6	2577387	2963.07882	0.02%						

2ord 20s Analysis - Number of Runs

		Algorithm	basic	basic(order2)		Property
		Strategy	first_move	first_move		number_of_runs
N	Density	Index			Factor #Runs_1/#Runs_2	2
1000	1	1	166	60	2.766666667	
1000	1	2	157	64	2.453125	
1000	1	3	183	72	2.541666667	
1000	1	4	170	72	2.361111111	
1000	1	5	166	66	2.515151515	
1000	5	1	106	27	3.925925926	
1000	5	2	101	26	3.884615385	
1000	5	3	99	25	3.96	
1000	5	4	110	27	4.074074074	
1000	5	5	103	29	3.551724138	
1000	10	1	92	20	4.6	
1000	10	2	84	19	4.421052632	
1000	10	3	67	17	3.941176471	
1000	10	4	64	17	3.764705882	
1000	10	5	77	18	4.27777778	
1000	50	1	50	9	5.55555556	
1000	50	2	52	10	5.2	
1000	50	3	51	10	5.1	
1000	50	4	50	10	5	
1000	50	5	34	8	4.25	
1000	100	1	40	6	6.666666667	
1000	100	2	39	6	6.5	
1000	100	3	40	5	8	
1000	100	4	35	6	5.833333333	
1000	100	5	38	6	6.333333333	

		Algorithm	basic	basic(order2)	Property
		Strategy	first_move	first_move	fo_mean
N	Density	Index			
1000	1	1	208400.2651	208935.1667	
1000	1	2	204629.7643	204995.8125	
1000	1	3	203266.8962	203646.7222	
1000	1	4	211657.6471	211841.3333	
1000	1	5	209946.6627	210296.9394	
1000	5	1	854392.8113	855539.3333	
1000	5	2	858777.6436	860207.9231	
1000	5	3	863825.4545	865615.4	
1000	5	4	863264.0727	864601.4815	
1000	5	5	857516.1845	859589.1379	
1000	10	1	1603985.728	1606558.95	
1000	10	2	1623661.321	1626045.579	
1000	10	3	1622839.746	1614449.353	
1000	10	4	1618202.922	1620598.353	
1000	10	5	1617699.701	1619186.944	
1000	50	1	8066955.8	8072055.556	
1000	50	2	8058359.019	8070996.3	
1000	50	3	8064998.49	8069269	
1000	50	4	8068997.96	8071362.3	
1000	50	5	8062828.559	8069384.625	
1000	100	1	25759554.05	25760691.67	
1000	100	2	25759414.15	25760248.5	
1000	100	3	25796663.93	25796357.6	
1000	100	4	25808591.57	25808559.5	
1000	100	5	25763782.74	25768221.67	

2ord 20s Analysis - F Mean Relative

		Algorithm	basic	basic(order2)	Property
		Strategy	first_move	first_move	fo_mean
N	Density	Index			
1000	1	1	0.2560%	0.0000%	
1000	1	2	0.1786%	0.0000%	
1000	1	3	0.1865%	0.0000%	
1000	1	4	0.0867%	0.0000%	
1000	1	5	0.1666%	0.0000%	
1000	5	1	0.1340%	0.0000%	
1000	5	2	0.1663%	0.0000%	
1000	5	3	0.2068%	0.0000%	
1000	5	4	0.1547%	0.0000%	
1000	5	5	0.2412%	0.0000%	
1000	10	1	0.1602%	0.0000%	
1000	10	2	0.1466%	0.0000%	
1000	10	3	0.0000%	0.5170%	
1000	10	4	0.1478%	0.0000%	
1000	10	5	0.0919%	0.0000%	
1000	50	1	0.0632%	0.0000%	
1000	50	2	0.1566%	0.0000%	
1000	50	3	0.0529%	0.0000%	
1000	50	4	0.0293%	0.0000%	
1000	50	5	0.0812%	0.0000%	
1000	100	1	0.0044%	0.0000%	
1000	100	2	0.0032%	0.0000%	
1000	100	3	0.0000%	0.0012%	
1000	100	4	0.0000%	0.0001%	
1000	100	5	0.0172%	0.0000%	

2ord 20s Analysis - Mean Number of Moves

		Algorithm	basic	basic(order2)	Property
		Strategy	first_move	first_move	n_moves_mean
N	Density	Index			Relative Diff (#MV1 - #MV2)/#MV1]
1000	1	1	1056.644578	1079.683333	-2.1338%
1000	1	2	1060.917197	1082.484375	-1.9924%
1000	1	3	1049.617486	1069.069444	-1.8195%
1000	1	4	1067.747059	1081.625	-1.2831%
1000	1	5	1062.204819	1077.69697	-1.4375%
1000	5	1	1783.169811	1854.037037	-3.8223%
1000	5	2	1792.207921	1864.961538	-3.9011%
1000	5	3	1771.151515	1858.64	-4.7071%
1000	5	4	1773.490909	1836.814815	-3.4475%
1000	5	5	1776.174757	1848.103448	-3.8920%
1000	10	1	2112.347826	2233.85	-5.4391%
1000	10	2	2115.690476	2208.947368	-4.2218%
1000	10	3	2105.358209	2119.705882	-0.6769%
1000	10	4	2125.921875	2251.764706	-5.5886%
1000	10	5	2119.87013	2194.111111	-3.3836%
1000	50	1	2989.74	3057.333333	-2.2109%
1000	50	2	2953.230769	3149.4	-6.2288%
1000	50	3	2985.686275	3145.7	-5.0867%
1000	50	4	3027.54	3042.3	-0.4852%
1000	50	5	2932.235294	3159.375	-7.1894%
1000	100	1	3378.175	3550.166667	-4.8446%
1000	100	2	3383.102564	3349.833333	0.9932%
1000	100	3	3446.725	3530.6	-2.3757%
1000	100	4	3446.8	3518.166667	-2.0285%
1000	100	5	3410.184211	3500	-2.5662%

		Algorithm	basic	basic(order2)	Property
		Strategy	first_move	first_move	fo_max
N	Density	Index			
1000	1	1	210176	210107	
1000	1	2	206257	206452	
1000	1	3	205050	204816	
1000	1	4	213425	213724	
1000	1	5	211431	211840	
1000	5	1	859387	858373	
1000	5	2	862698	862969	
1000	5	3	867789	869301	
1000	5	4	866906	866749	
1000	5	5	861589	862775	
1000	10	1	1609066	1608601	
1000	10	2	1628513	1630020	
1000	10	3	1627757	1627759	
1000	10	4	1623135	1623051	
1000	10	5	1623721	1622955	
1000	50	1	8081828	8077191	
1000	50	2	8075606	8079403	
1000	50	3	8074995	8080530	
1000	50	4	8080417	8082878	
1000	50	5	8075189	8079402	
1000	100	1	25766718	25768095	
1000	100	2	25769034	25766817	
1000	100	3	25809808	25800688	
1000	100	4	25820101	25814493	
1000	100	5	25773830	25773874	

2ord 20s Analysis - F Relative Max

		Algorithm	basic	basic(order2)	Property
		Strategy	first_move	first_move	fo_max
N	Density	Index			
1000	1	1	0.0000%	0.0328%	
1000	1	2	0.0945%	0.0000%	
1000	1	3	0.0000%	0.1141%	
1000	1	4	0.1399%	0.0000%	
1000	1	5	0.1931%	0.0000%	
1000	5	1	0.0000%	0.1180%	
1000	5	2	0.0314%	0.0000%	
1000	5	3	0.1739%	0.0000%	
1000	5	4	0.0000%	0.0181%	
1000	5	5	0.1375%	0.0000%	
1000	10	1	0.0000%	0.0289%	
1000	10	2	0.0925%	0.0000%	
1000	10	3	0.0001%	0.0000%	
1000	10	4	0.0000%	0.0052%	
1000	10	5	0.0000%	0.0472%	
1000	50	1	0.0000%	0.0574%	
1000	50	2	0.0470%	0.0000%	
1000	50	3	0.0685%	0.0000%	
1000	50	4	0.0304%	0.0000%	
1000	50	5	0.0521%	0.0000%	
1000	100	1	0.0053%	0.0000%	
1000	100	2	0.0000%	0.0086%	
1000	100	3	0.0000%	0.0353%	
1000	100	4	0.0000%	0.0217%	
1000	100	5	0.0002%	0.0000%	