# 2ord 30s Analysis - Data

N Densi	tv Index	Is name	move stra m	nr duratio nur	mber_of_run fo	n max f	o mean	fo sd	n moves mean	n_moves_sd mean_round	tim n	moves2 mea	mean2 round time[ms]							
			first move	30			_	760.78501	1058.72093		0	0	0							
		basic(order2		30.001				555.228461	1078.162791		0	5.093023	1.965116							
			first_move	30				2774.31335	1055.217391		0	0.000020	0							
		basic(order2		30.006				552.768982	1076.105882		0	5	1.835294							
		,	first_move	30				1274.10309	1049.562232		0	0	0							
	-	basic(order2		30				878.59148	1059.968421		0	4.4	2.021053							
		-	first move	30				697.134108	1071.666667		0	0	0							
		basic(order2		30			212167.105		1085.541176		0	4.541176	2.223529							
		- '	first move	30				5127.84893	1059.013043		0	4.541170	0							
	-	basic(order2	_	30.012				570.607515			0	5.010989	1.758242							
	-	,	first move	30.012		-	853971.453			59.747908	0	0.010303	0							
		basic(order2		30.008				1246.34099	1840.647059		0	11.058824	7.588235							
		-	first move	30.008				3578.07496	1783.835938		0	11.030024	7.566255							
		basic(order2	_	30.025				1537.98403	1847.72973		0	10.648649	7.567568							
		- '	first move	30.023				1636.13237	1774.971223	54.80245	0	0.040049	7.507500							
		basic(order2		30			862240.055			242.065648	0	12.277778	7.25							
		,	first move	30.01			863140.979		1771.3125		0	12.277770	7.25							
	-	basic(order2		30.01				1441.74980	1833.352941		0	12.852941	6.588235							
		-	first_move	30.01	-			3181.78680	1770.493056		0	12.052941	0.500235							
				30.006				1572.88247	1853.897436		0	10.230769	7.25641							
		basic(order2		30.006				2116.26191	2116.471698		0	10.230769	7.25041							
		basic(order2	first_move	30.044			1606828.62			73.036663	0	14.041667	13.916667							
		,									0	14.041007	13.910007					-		
			first_move	30				1942.24661		73.62444	0	11.214286	15.607143							
		basic(order2 basic	first_move	30.008				1624.90452 5340.61199	2095.81746	73.33244	0	11.214286	15.60/143							
				30.019				1847.57453	2201.533333		0	12.766667	13.4							
		basic(order2		30.019				3030.13156	2128.72973		0	12.700007	13.4							
			first_move								0	13	12.888889							
		basic(order2		30.007				2021.80468	2215.222222		-	13	12.888889							
		basic basic(order2	first_move	30.002 30.006	-		1619793.56	2048.77882	2129.85567	78.780058	0	13.4	15.12							
		- '		30.006				4448.22267	2984.135802		0	13.4	15.12							
			first_move	30.106				4706.43981	3147.538462		0	11.153846	100.076923							
		basic(order2									0	11.153846	100.076923							
			first_move	30.003				4142.22864	3029.630769		-	-	-							
		basic(order2		30.042				4713.70585	3067.153846		0	11.923077	106.230769							
			first_move	30 30				4745.20741	2989.209302 3046.1875		0	8.6875	106.25							
		basic(order2				_		6399.74446			0	8.0875	106.25							
			first_move	30.002			8069949.8			118.957923	0		-					-		
		basic(order2		30.065				2492.67015			0	11	91.307692			-	-	-		
			first_move	30				5881.79441	2987.283582		-		-			-	-	+		
		basic(order2		30				6445.33870	3168.833333		0	13	86.833333					-		
			first_move	30.006				5094.66591	3379.694915		0	0	0	-	-			-		
1000 10		basic(order2		30.106			25761376.8			236.526299	0	6.8	309		-	-		-		
			first_move	30.003				4455.25242			0	0	0				-	-		
1000 10		basic(order2		30.066			25762219.5			104.003305	0	7.875	333.25				-	-		
1000 10			first_move	30.001				5334.03038	3388.04918		0	0	0					-		
1000 10		basic(order2		30			25799221.7			196.234195	0	9.125	283.5		-					
1000 10			first_move	30.001				5341.21666			0	0	0							
1000 10		basic(order2	_	30.593			25807935.8			117.153478	0	8.875	300.625							
1000 10			first_move	30				47672.5981	3398.037037		0	0	0					-		
1000 10	00 5	basic(order2	first_move	30.644	8 2	2577171	25764935.1	3675.40958	3502.875	235.975866	0	8.25	312.25							

# 2ord 30s Analysis - Best Solution

N D	ensity Ir	ndex B	est F Algorithm	Strategy	# Runs F Mean	F SD	(F_best - F_mean)/F_SD	Field					
1000	1	1	210187 basic(order2	first_move	86 209038.767	555.228461	2.068036202	fo_max					
000	1	2	206514 basic(order2	first_move	85 204998.070	552.768982	2.742428503						
000	1	3	205006 basic(order2	first_move	95 203484.747	878.59148	1.731467544						
000	1	4	213649 basic	first_move	195 211838.071	697.134108	2.597675518						
000	1	5	211565 basic	first_move	230 209636.091	5127.84893	0.3761633234						
000	5	1	858342 basic	first_move	128 853971.453	1790.49629	2.440969516						
000	5	2	863748 basic(order2	first_move	37 860183.432	1537.98403	2.317688275						
000	5	3	869682 basic(order2	first_move	36 862240.055	20772.8207	0.3582539196						
000	5	4	867754 basic(order2	first_move	34 864908.088	1441.74980	1.973929014						
000	5	5	862624 basic(order2	first_move	39 859228.487	1572.88247	2.158783556						
000	10	1	1609855 basic	first_move	106 1604205.60	2116.26191	2.669516562						
000	10	2	1628761 basic	first_move	107 1623773.98	1942.24661	2.567654718						
000	10	3	1630108 basic(order2	first_move	30 1625145.26	1847.57453	2.686080176						
000	10	4	1624521 basic(order2	first_move	27 1620910.44	2021.80468	1.785808287						
000	10	5	1623760 basic(order2	first_move	25 1619793.56	1913.83696	2.072506736						
000	50	1	8081307 basic(order2	first_move	13 8073514	4706.43981	1.655816352						
000	50	2	8075184 basic	first_move	65 8068661.43		1.574652149						
000	50	3	8074928 basic	first_move	86 8064823.14	4745.20741	2.129487625						
000	50	4		first_move		4000.20041	1.825708523						
000	50	5	8077547 basic(order2	first_move	12 8069707.66	6445.33870	1.216279499						
000	100	1	25773541 basic	first_move	59 25759933.2	5094.66591	2.67097902						
000	100	2	25773517 basic	first_move	66 25759767.7	4455.25242	3.086071445						
000	100	3	25807747 basic(order2	first_move	8 25799221.7	5372.33338	1.586880297						
000	100	4	25820680 basic	first_move	55 25807574.8	5341.21666	2.453588062						
000	100	5	25779992 basic	first_move	54 25758332.4	47672.5981	0.4543393459						

# 2ord 30s Analysis - Best Mean

N I	Density In	dex Best F Mean Algor	rithm \$	Strategy	# Runs	F Max	F SD	% Distance from Best F	Field					
1000	1	1 209038.7674 basic	c(order2 f	first_move	86	210187	555.228461	0.55%	fo_mean					
1000	1	2 204998.0706 basic	c(order2 f	first_move	85	206514	552.768982	0.73%						
1000	1	3 203484.7474 basic	c(order2 f	first_move	95	205006	878.59148	0.74%						
1000	1	4 212167.1059 basic	c(order2 f	first_move	85	213473	592.253821	0.69%						
1000	1	5 210336.1429 basic	c(order2 f	first_move	91	211464	570.607515	0.58%						
1000	5	1 856004.2059 basic	c(order2 f	first_move	34	858115	1246.34099	0.27%						
1000	5	2 860183.4324 basic	c(order2 f	first_move	37	863748	1537.98403	0.41%						
1000	5	3 863706.8058 basic	c f	first_move	139	866792	1636.13237	0.69%						
1000	5	4 864908.0882 basic	c(order2 f	first_move	34	867754	1441.74980	0.33%						
1000	5	5 859228.4872 basic	c(order2 f	first_move	39	862624	1572.88247	0.39%						
1000	10	1 1606828.625 basic	c(order2 f	first_move	24	1609312	2164.63374	0.19%						
1000	10	2 1626213.286 basic	c(order2 f	first_move	28	1628535	1624.90452	0.16%						
1000	10	3 1625145.267 basic	c(order2 f	first_move	30	1630108	1847.57453	0.30%						
1000	10	4 1620910.444 basic	c(order2 f	first_move	27	1624521	2021.80468	0.22%						
1000	10	5 1619793.56 basic	c(order2 f	first_move	25	1623760	1913.83696	0.24%						
1000	50	1 8073514 basic	c(order2 f	first_move	13	8081307	4706.43981	0.10%						
1000	50	2 8070467.077 basic	,				4713.70585	0.06%						
1000	50	3 8065361.313 basic	,		16	8074305	6399.74446	0.12%						
1000	50	4 8070863.308 basic					2492.67015	0.08%						
1000	50	5 8069707.667 basic	`	_			6445.33870	0.10%						
1000	100	1 25761376.8 basic	,				4626.39738	0.05%						
1000	100	2 25762219.5 basic					4468.74501	0.04%						
1000	100	3 25799221.75 basic					5372.33338	0.03%						
1000	100	4 25807935.88 basic					4700.14985	0.05%						
1000	100	5 25764935.13 basic	c(order2 f	first_move	8	2577171	3675.40958	0.06%						

# 2ord 30s 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	215	86	2.5	
1000	1	2	207	85	2.435294118	
1000	1	3	233	95	2.452631579	
1000	1	4	195	85	2.294117647	
1000	1	5	230	91	2.527472527	
1000	5	1	128	34	3.764705882	
1000	5	2	128	37	3.459459459	
1000	5	3	139	36	3.861111111	
1000	5	4	144	34	4.235294118	
1000	5	5	144	39	3.692307692	
1000	10	1	106	24	4.416666667	
1000	10	2	107	28	3.821428571	
1000	10	3	126	30	4.2	
1000	10	4	111	27	4.111111111	
1000	10	5	97	25	3.88	
1000	50	1	81	13	6.230769231	
1000	50	2	65	13	5	
1000	50	3	86	16	5.375	
1000	50	4	60	13	4.615384615	
1000	50	5	67	12	5.583333333	
1000	100	1	59	10	5.9	
1000	100	2	66	8	8.25	
1000	100	3	61	8	7.625	
1000	100	4	55	8	6.875	
1000	100	5	54	8	6.75	

		Algorithm	basic	basic(order2)	Property
		Strategy	first_move	first_move	fo_mean
N	Density	Index			
1000	1	1	208491.5953	209038.7674	
1000	1	2	204430.8889	204998.0706	
1000	1	3	203189.9571	203484.7474	
1000	1	4	211838.0718	212167.1059	
1000	1	5	209636.0913	210336.1429	
1000	5	1	853971.4531	856004.2059	
1000	5	2	858318.2891	860183.4324	
1000	5	3	863706.8058	862240.0556	
1000	5	4	863140.9792	864908.0882	
1000	5	5	857044.1042	859228.4872	
1000	10	1	1604205.604	1606828.625	
1000	10	2	1623773.981	1626213.286	
1000	10	3	1622341.944	1625145.267	
1000	10	4	1618495.874	1620910.444	
1000	10	5	1618254.402	1619793.56	
1000	50	1	8069146.728	8073514	
1000	50	2	8068661.431	8070467.077	
1000	50	3	8064823.14	8065361.313	
1000	50	4	8069949.8	8070863.308	
1000	50	5	8064654.269	8069707.667	
1000	100	1	25759933.25	25761376.8	
1000	100	2	25759767.77	25762219.5	
1000	100	3	25795284.2	25799221.75	
1000	100	4	25807574.85	25807935.88	
1000	100	5	25758332.46	25764935.13	

# 2ord 30s Analysis - F Mean Relative

		Algorithm	basic	basic(order2)	Property
		Strategy	first_move	first_move	fo_mean
N	Density	Index			
1000	1	1	0.2618%	0.0000%	
1000	1	2	0.2767%	0.0000%	
1000	1	3	0.1449%	0.0000%	
1000	1	4	0.1551%	0.0000%	
1000	1	5	0.3328%	0.0000%	
1000	5	1	0.2375%	0.0000%	
1000	5	2	0.2168%	0.0000%	
1000	5	3	0.0000%	0.1698%	
1000	5	4	0.2043%	0.0000%	
1000	5	5	0.2542%	0.0000%	
1000	10	1	0.1632%	0.0000%	
1000	10	2	0.1500%	0.0000%	
1000	10	3	0.1725%	0.0000%	
1000	10	4	0.1490%	0.0000%	
1000	10	5	0.0950%	0.0000%	
1000	50	1	0.0541%	0.0000%	
1000	50	2	0.0224%	0.0000%	
1000	50	3	0.0067%	0.0000%	
1000	50	4	0.0113%	0.0000%	
1000	50	5	0.0626%	0.0000%	
1000	100	1	0.0056%	0.0000%	
1000	100	2	0.0095%	0.0000%	
1000	100	3	0.0153%	0.0000%	
1000	100	4	0.0014%	0.0000%	
1000	100	5	0.0256%	0.0000%	

# 2ord 30s Analysis - Compare F Mean

			20 sec	20 sec	30 sec	30 sec	
		Algorithm	basic	basic(order2)	basic	basic(order2)	
		Strategy	first_move	first_move	first_move	first_move	
N	Density	Index					(%20 - %30)/%20
1000	1	1	0.2618%	0.0000%	0.2560%	0.0000%	2.1991%
1000	1	2	0.2767%	0.0000%	0.1786%	0.0000%	35.4481%
1000	1	3	0.1449%	0.0000%	0.1865%	0.0000%	-28.7353%
1000	1	4	0.1551%	0.0000%	0.0867%	0.0000%	44.0943%
1000	1	5	0.3328%	0.0000%	0.1666%	0.0000%	49.9437%
1000	5	1	0.2375%	0.0000%	0.1340%	0.0000%	43.5718%
1000	5	2	0.2168%	0.0000%	0.1663%	0.0000%	23.3043%
1000	5	3	0.0000%	0.1698%	0.2068%	0.0000%	#DIV/0!
1000	5	4	0.2043%	0.0000%	0.1547%	0.0000%	24.2824%
1000	5	5	0.2542%	0.0000%	0.2412%	0.0000%	5.1238%
1000	10	1	0.1632%	0.0000%	0.1602%	0.0000%	1.8636%
1000	10	2	0.1500%	0.0000%	0.1466%	0.0000%	2.2660%
1000	10	3	0.1725%	0.0000%	0.0000%	0.5170%	100.0000%
1000	10	4	0.1490%	0.0000%	0.1478%	0.0000%	0.7813%
1000	10	5	0.0950%	0.0000%	0.0919%	0.0000%	3.2854%
1000	50	1	0.0541%	0.0000%	0.0632%	0.0000%	-16.8341%
1000	50	2	0.0224%	0.0000%	0.1566%	0.0000%	-599.9351%
1000	50	3	0.0067%	0.0000%	0.0529%	0.0000%	-692.7890%
1000	50	4	0.0113%	0.0000%	0.0293%	0.0000%	-158.8662%
1000	50	5	0.0626%	0.0000%	0.0812%	0.0000%	-29.6673%
1000	100	1	0.0056%	0.0000%	0.0044%	0.0000%	21.4780%
1000	100	2	0.0095%	0.0000%	0.0032%	0.0000%	66.3751%
1000	100	3	0.0153%	0.0000%	0.00%	0.00%	100.0000%
1000	100	4	0.0014%	0.0000%	0.00%	0.00%	100.0000%
1000	100	5	0.0256%	0.0000%	0.02%	0.00%	32.8821%

## 2ord 30s 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	1058.72093	1078.162791	-1.8032%
1000	1	2	1055.217391	1076.105882	-1.9411%
1000	1	3	1049.562232	1059.968421	-0.9817%
1000	1	4	1071.666667	1085.541176	-1.2781%
1000	1	5	1059.013043	1078.692308	-1.8244%
1000	5	1	1773.75	1840.647059	-3.6344%
1000	5	2	1783.835938	1847.72973	-3.4580%
1000	5	3	1774.971223	1831	-3.0600%
1000	5	4	1771.3125	1833.352941	-3.3840%
1000	5	5	1770.493056	1853.897436	-4.4989%
1000	10	1	2116.471698	2225.75	-4.9097%
1000	10	2	2132.401869	2224.178571	-4.1263%
1000	10	3	2095.81746	2201.533333	-4.8019%
1000	10	4	2128.72973	2215.222222	-3.9045%
1000	10	5	2129.85567	2206.68	-3.4814%
1000	50	1	2984.135802	3147.538462	-5.1914%
1000	50	2	3029.630769	3067.153846	-1.2234%
1000	50	3	2989.209302	3046.1875	-1.8705%
1000	50	4	3045.75	3142.384615	-3.0752%
1000	50	5	2987.283582	3168.833333	-5.7292%
1000	100	1	3379.694915	3548.1	-4.7463%
1000	100	2	3372.893939	3496.25	-3.5282%
1000	100	3	3388.04918	3534.125	-4.1333%
1000	100	4	3411.090909	3551.75	-3.9603%
1000	100	5	3398.037037	3502.875	-2.9929%

		Algorithm	basic	basic(order2)	Property
		Strategy	first_move	first_move	fo_max
N	Density	Index			
1000	1	1	210176	210187	
1000	1	2	206079	206514	
1000	1	3	204650	205006	
1000	1	4	213649	213473	
1000	1	5	211565	211464	
1000	5	1	858342	858115	
1000	5	2	861793	863748	
1000	5	3	866792	869682	
1000	5	4	866732	867754	
1000	5	5	860732	862624	
1000	10	1	1609855	1609312	
1000	10	2	1628761	1628535	
1000	10	3	1628480	1630108	
1000	10	4	1623657	1624521	
1000	10	5	1622778	1623760	
1000	50	1	8078180	8081307	
1000	50	2	8075184	8074676	
1000	50	3	8074928	8074305	
1000	50	4	8077253	8073911	
1000	50	5	8075990	8077547	
1000	100	1	25773541	25767637	
1000	100	2	25773517	25769794	
1000	100	3	25806177	25807747	
1000	100	4	25820680	25816153	
1000	100	5	25779992	25771710	

		Algorithm	basic	basic(order2)	Property
		Strategy	first_move	first_move	fo_max
N	Density	Index			
1000	1	1	0.0052%	0.0000%	
1000	1	2	0.2106%	0.0000%	
1000	1	3	0.1737%	0.0000%	
1000	1	4	0.0000%	0.0824%	
1000	1	5	0.0000%	0.0477%	
1000	5	1	0.0000%	0.0264%	
1000	5	2	0.2263%	0.0000%	
1000	5	3	0.3323%	0.0000%	
1000	5	4	0.1178%	0.0000%	
1000	5	5	0.2193%	0.0000%	
1000	10	1	0.0000%	0.0337%	
1000	10	2	0.0000%	0.0139%	
1000	10	3	0.0999%	0.0000%	
1000	10	4	0.0532%	0.0000%	
1000	10	5	0.0605%	0.0000%	
1000	50	1	0.0387%	0.0000%	
1000	50	2	0.0000%	0.0063%	
1000	50	3	0.0000%	0.0077%	
1000	50	4	0.0000%	0.0414%	
1000	50	5	0.0193%	0.0000%	
1000	100	1	0.0000%	0.0229%	
1000	100	2	0.0000%	0.0144%	
1000	100	3	0.0061%	0.0000%	
1000	100	4	0.0000%	0.0175%	
1000	100	5	0.0000%	0.0321%	