

Runtime Results for BSCOPNBMAX in Seconds

1-50 States 1-10 Events 50-60% Controllable 50-60% Observable 15-20% Out-Degree 50 Repetitions

Number of Events

Number of States

	1	2	3	4	5	6	7	8	9	10
1	0.00546828	0.00505117	0.00489793	0.00382947	0.00353795	0.00344559	0.00336446	0.00342664	0.00353605	0.00365429
2	0.00362838	0.00350635	0.00372570	0.00376029	0.00354062	0.00351630	0.00387622	0.00409527	0.00388874	0.00362039
3	0.00367272	0.00354821	0.00363711	0.00395061	0.00361650	0.00350284	0.00349265	0.00390815	0.00355119	0.00378011
4	0.00373902	0.00365307	0.00359725	0.00384131	0.00371328	0.00383853	0.00379727	0.00365832	0.00374285	0.00382763
5	0.00376119	0.00371776	0.00356744	0.00348431	0.00360895	0.00387589	0.00378082	0.00385968	0.00366962	0.00381344
6	0.00354562	0.00347530	0.00368310	0.00388202	0.00385261	0.00377251	0.00378992	0.00374664	0.00362871	0.00440138
7	0.00396989	0.00390747	0.00400819	0.00395432	0.00360512	0.00399673	0.00427439	0.00421401	0.00400274	0.00488948
8	0.00371401	0.00363004	0.00379155	0.00382236	0.00418881	0.00392628	0.00400414	0.00409838	0.00432119	0.00554394
9	0.00370834	0.00394970	0.00388813	0.00390344	0.00398887	0.00449574	0.00401053	0.00423865	0.00416553	0.00623466
10	0.00368957	0.00400007	0.00400942	0.00448774	0.00436708	0.00404015	0.00414594	0.00400203	0.00424075	0.00632426
11	0.00379196	0.00391891	0.00401334	0.00424723	0.00432129	0.00462195	0.00424986	0.00412537	0.00434990	0.00946136
12	0.00410240	0.00435029	0.00440323	0.00455734	0.00418268	0.00432276	0.00472003	0.00458894	0.00438125	0.01072800
13	0.00389076	0.00431087	0.00449776	0.00446796	0.00455794	0.00526458	0.00484311	0.00508260	0.00478624	0.01249630
14	0.00402759	0.00420973	0.00443034	0.00467527	0.00463351	0.00491588	0.00479342	0.00506782	0.00461760	0.01308580
15	0.00430624	0.00438485	0.00477738	0.00501407	0.00458476	0.00473216	0.00549017	0.00509184	0.00490546	0.01689990
16	0.00395666	0.00518857	0.00437081	0.00465600	0.00503890	0.00498635	0.00518190	0.00557910	0.00561879	0.02088630
17	0.00383861	0.00533072	0.00496916	0.00466353	0.00480827	0.00501514	0.00566331	0.00530847	0.00493862	0.02886670
18	0.00409951	0.00444195	0.00523960	0.00569747	0.00504665	0.00554199	0.00597816	0.00561144	0.00543340	0.03410050
19	0.00443769	0.00471760	0.00483927	0.00548007	0.00615771	0.00504538	0.00596941	0.00550713	0.00593248	0.04910650
20	0.00442641	0.00652451	0.00557576	0.00616723	0.00558688	0.00694057	0.00689709	0.00609767	0.00584292	0.04525160
21	0.00433648	0.00479786	0.00511842	0.00578125	0.00498784	0.00632362	0.00646062	0.00625469	0.00569441	0.05580620
22	0.00440730	0.00498648	0.00532495	0.00550428	0.00558981	0.00589044	0.00548046	0.00661179	0.00617809	0.31758400
23	0.00452840	0.00960586	0.00590735	0.00679831	0.00673014	0.00646684	0.00706390	0.00595894	0.00765975	0.08844220
24	0.00492979	0.00514886	0.00763492	0.00638639	0.00782187	0.00600193	0.00691104	0.00867912	0.00617543	0.08369700
25	0.00461247	0.00566357	0.00765866	0.00839994	0.00576466	0.00968056	0.00642234	0.00725819	0.00779025	0.11932000
26	0.00503285	0.00498556	0.00707349	0.00597045	0.00757898	0.00695568	0.00748450	0.00677616	0.00702639	0.10118900
27	0.00480240	0.00613606	0.01020980	0.00804028	0.00692585	0.00873050	0.00994272	0.00743605	0.00801371	0.16598900
28	0.00511549	0.00655225	0.00687196	0.00835351	0.00793501	0.00834263	0.00692667	0.00943633	0.00768641	0.21833900
29	0.00559194	0.01121930	0.01050040	0.00742297	0.00812509	0.00696442	0.00738101	0.00893140	0.00973567	0.22129400
30	0.00525703	0.00601431	0.01039830	0.00699089	0.00708626	0.00767021	0.00925483	0.00800941	0.01022910	0.34869800
31	0.00593276	0.00723511	0.00997085	0.00840576	0.00884490	0.00798142	0.00895025	0.00725190	0.00803075	0.24407600
32	0.00565870	0.00623635	0.00968887	0.00962803	0.00891790	0.00998481	0.01072840	0.00979486	0.01015830	0.27947900
33	0.00511704	0.01419660	0.00897486	0.00862237	0.00796588	0.00897953	0.00841643	0.00991009	0.00974986	0.34557200
34	0.00552881	0.02829600	0.00962847	0.00845438	0.00911626	0.01204200	0.01281440	0.01147540	0.01029780	0.41190100
35	0.00520136	0.00642624	0.00909077	0.00968431	0.01053810	0.01035240	0.01017530	0.01460320	0.01175590	0.71893000
36	0.00584598	0.00687219	0.01360840	0.01186500	0.00865081	0.01148540	0.01063150	0.01005890	0.01407380	0.77329600
37	0.00583548	0.00723383	0.02353870	0.01011570	0.01151590	0.00956504	0.01690360	0.01040830	0.01030910	0.39308700
38	0.00589454	0.00704867	0.01832170	0.01170590	0.01062630	0.01624560	0.01145440	0.01303110	0.01204350	0.95220400
39	0.00584027	0.00741915	0.02399400	0.02976190	0.01322730	0.01872460	0.01135190	0.01711360	0.01369370	0.43413000
40	0.00599398	0.00700654	0.01499030	0.01916420	0.01237370	0.01307150	0.01261530	0.01454680	0.01198280	1.60914000
41	0.00651956	0.25374400	0.02554150	0.02118100	0.01834940	0.01468130	0.01228530	0.01751200	0.02045140	0.80786500
42	0.00586851	0.01641720	0.02394870	0.01601840	0.02254330	0.01934510	0.01362240	0.01703500	0.01561840	2.87943000
43	0.00586669	0.22672700	0.02846780	0.01876430	0.01776440	0.03136610	0.01451330	0.03248140	0.01711000	1.70004000
44	0.00686115	0.00957065	0.01729430	0.01179600	0.01353590	0.01644790	0.02018380	0.01752270	0.01744340	0.99793200
45	0.00643575	0.00853698	0.02486930	0.02102710	0.01699640	0.01702130	0.01658130	0.01774920	0.01620500	4.73773000
46	0.00654561	0.00960904	0.04240700	0.02260020	0.02282670	0.02483000	0.04304510	0.01438170	0.01455990	3.62485000
47	0.00686919	0.01074080	0.02140840	0.03227390	0.03907400	0.02086150	0.01636930	0.01643390	0.02431310	8.68235000
48	0.00635544	0.00917540	0.09304640	0.05409580	0.02745870	0.01854060	0.02038950	0.01421390	0.01746640	3.45634000
49	0.00648115	0.01338850	0.02113970	0.04051180	0.02524130	0.02290800	0.01882170	0.02123050	0.02641760	3.69821000
50	0.00679387	0.00916394	0.02388110	0.03094830	0.01929410	0.02789570	0.02644610	0.02056790	0.02297810	6.29849000

NBAIC Size Results for BSCOPNBMAX

1-50 States 1-10 Events 50-60% Controllable 50-60% Observable 15-20% Out-Degree 50 Repetitions

Number of Events

Number of States

-	1	2	3	4	5	6	7	8	9	10
1	0	0	0	0	0	0	0	0	0	0
2	1	1	1	1	1	0	0	1	1	1
3	1	0	2	2	2	2	1	1	1	2
4	1	2	2	2	2	2	3	2	4	2
5	2	3	3	3	3	3	5	3	5	3
6	3	3	4	5	6	6	6	7	6	4
7	3	5	6	9	6	6	9	8	6	27
8	3	7	8	11	10	8	10	10	11	41
9	3	11	9	10	9	12	10	12	10	48
10	4	12	8	10	13	10	12	13	13	60
11	5	7	8	13	12	12	15	14	14	96
12	5	11	16	19	10	15	14	18	15	122
13	5	11	22	14	20	21	18	22	20	140
14	6	14	17	16	19	26	20	19	24	158
15	8	14	20	30	22	25	25	27	27	198
16	5	32	19	17	28	22	25	30	31	235
17	7	28	23	26	25	26	25	34	24	310
18	6	11	32	34	28	30	44	33	36	333
19	8	23	21	28	38	29	50	36	40	452
20	8	23	31	48	31	54	43	39	43	389
21	11	21	20	35	37	41	39	32	38	474
22	6	15	31	33	37	48	34	50	50	726
23	8	54	35	50	37	50	57	39	63	698
24	9	20	47	46	67	35	52	67	47	615
25	11	34	53	62	44	65	46	63	64	837
26	11	15	39	45	68	47	66	49	63	794
27	9	20	74	58	53	72	80	59	65	933
28	8	39	40	62	71	70	71	79	68	1345
29	10	59	62	48	60	52	65	82	76	1134
30	13	37	87	52	51	58	70	72	96	1381
31	10	35	57	73	77	69	80	66	70	1325
32	10	25	64	81	87	83	84	92	98	1276
33	11	86	64	69	69	60	71	99	73	1321
34	10	113	69	76	74	129	97	110	88	1756
35	10	25	66	93	99	95	96	135	94	2434
36	8	34	74	93	64	94	87	86	124	2141
37	11	29	183	73	102	72	152	117	97	1721
38	15	36	101	100	92	157	84	123	108	2718
39	13	32	137	157	105	156	79	121	119	1882
40	13	35	102	154	131	134	121	131	114	3105
41	14	74	166	105	154	123	112	159	144	2595
42	9	91	105	133	199	117	125	175	108	3254
43	16	240	199	147	142	171	127	164	121	3796
44	17	53	126	97	130	129	190	150	138	2767
45	16	47	158	125	130	132	136	160	128	5166
46	11	66	195	173	181	191	199	104	134	5323
47	15	42	143	243	228	176	135	146	183	5342
48	14	54	290	211	185	180	167	123	131	4752
49	14	73	116	284	155	157	155	191	174	4696
50	16	55	138	145	143	216	225	175	163	6161

EBTS Size Results for BSCOPNBMAX

1-50 States 1-10 Events 50-60% Controllable 50-60% Observable 15-20% Out-Degree 50 Repetitions

Number of Events

Number of States

-	1	2	3	4	5	6	7	8	9	10
1	0	0	0	0	0	0	0	0	0	0
2	0	0	1	0	0	0	0	0	1	0
3	1	0	1	1	1	1	1	1	1	2
4	0	1	2	2	2	2	2	2	3	3
5	2	2	2	2	2	2	4	2	3	2
6	3	2	3	3	4	4	4	4	4	3
7	3	3	4	6	4	4	4	5	5	4
8	2	4	5	7	7	7	5	6	6	7
9	2	6	6	7	6	6	8	7	7	7
10	4	8	7	7	7	7	7	8	7	7
11	4	6	6	8	8	8	7	9	9	9
12	5	7	10	12	7	10	8	11	10	23
13	4	6	16	9	13	14	11	12	12	28
14	5	9	11	11	14	16	12	13	16	34
15	7	10	12	21	12	14	15	15	16	34
16	4	10	13	12	16	14	17	18	15	39
17	6	8	16	17	17	17	15	19	15	47
18	6	9	17	19	19	17	22	19	17	44
19	7	17	13	18	20	18	26	21	21	50
20	7	16	21	28	17	24	23	23	23	56
21	10	10	16	21	18	22	21	19	22	60
22	5	10	17	24	23	28	21	26	26	66
23	8	15	28	25	20	27	27	24	26	69
24	9	14	27	27	33	21	26	25	26	73
25	9	18	35	29	25	27	27	29	29	87
26	10	9	28	29	32	26	33	23	33	83
27	9	15	51	35	33	39	33	30	29	78
28	7	20	24	36	35	34	37	31	34	104
29	9	21	32	31	30	29	36	38	38	88
30	12	21	43	35	36	33	34	35	42	102
31	9	18	39	42	42	35	38	35	36	98
32	8	14	40	37	45	41	43	41	41	107
33	10	21	49	45	42	32	37	48	40	108
34	9	17	54	51	49	49	44	45	39	134
35	9	15	52	51	51	49	48	47	45	147
36	7	26	48	61	40	53	43	44	52	136
37	10	22	89	35	49	42	58	54	49	134
38	14	27	66	53	53	69	47	54	48	146
39	12	22	89	76	55	64	44	41	51	164
40	12	30	52	76	71	70	57	50	48	181
41	13	21	95	55	80	51	54	60	56	182
42	9	24	85	68	66	55	52	68	47	178
43	15	27	102	63	69	53	59	53	49	208
44	15	25	92	53	68	57	70	64	61	176
45	15	26	91	71	67	63	63	65	58	225
46	10	35	130	89	77	77	68	50	59	276
47	14	28	89	98	74	73	64	65	66	236
48	12	31	155	110	71	86	66	62	65	227
49	14	31	87	107	74	61	75	70	69	236
50	15	30	97	73	69	72	77	72	63	273