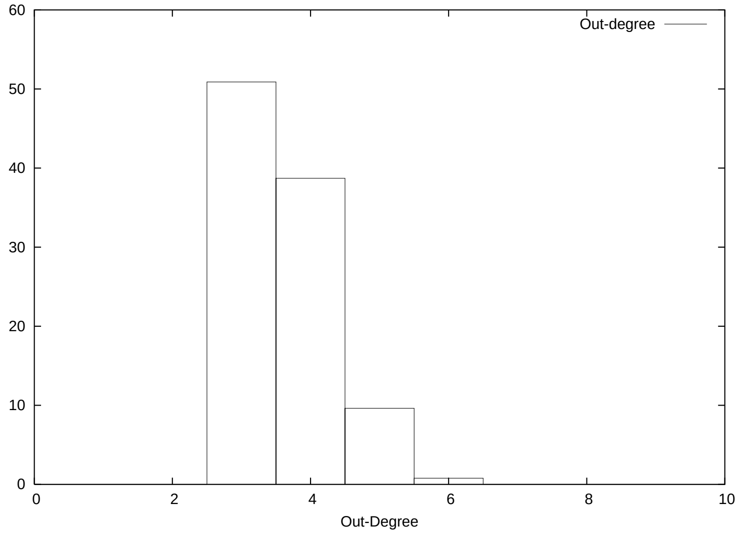
Graph: maso/abp

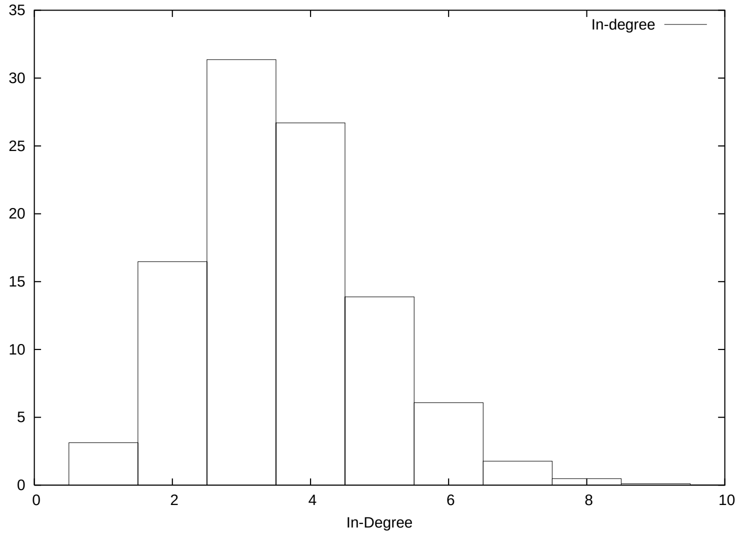
General Info

Example title	Alternating bit protocol
Parameter	
Reduction	
Modification	
States	7,286
Edges	26,251
Average degree	3.6

Out-Degrees distribution:



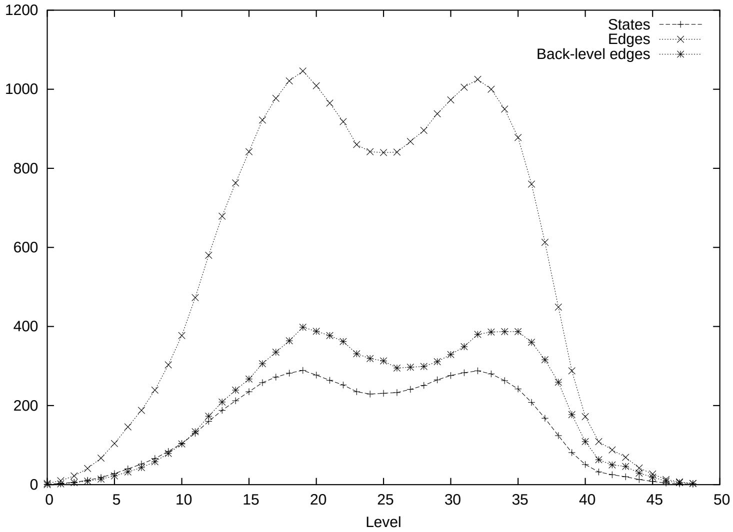
In-Degrees distribution:



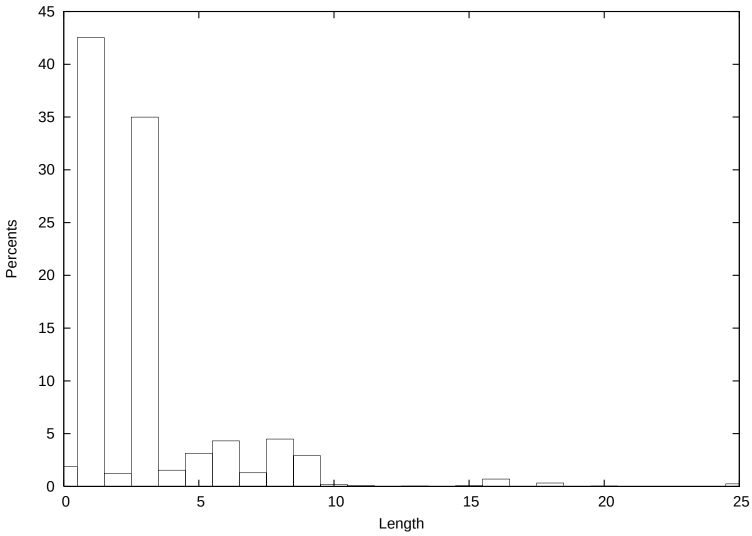
BFS Info

BFS height	48
BFS width	289 (3.9%)
Back level edges	9,747 (37.1%)

BFS level info:



Back level edges lengths:



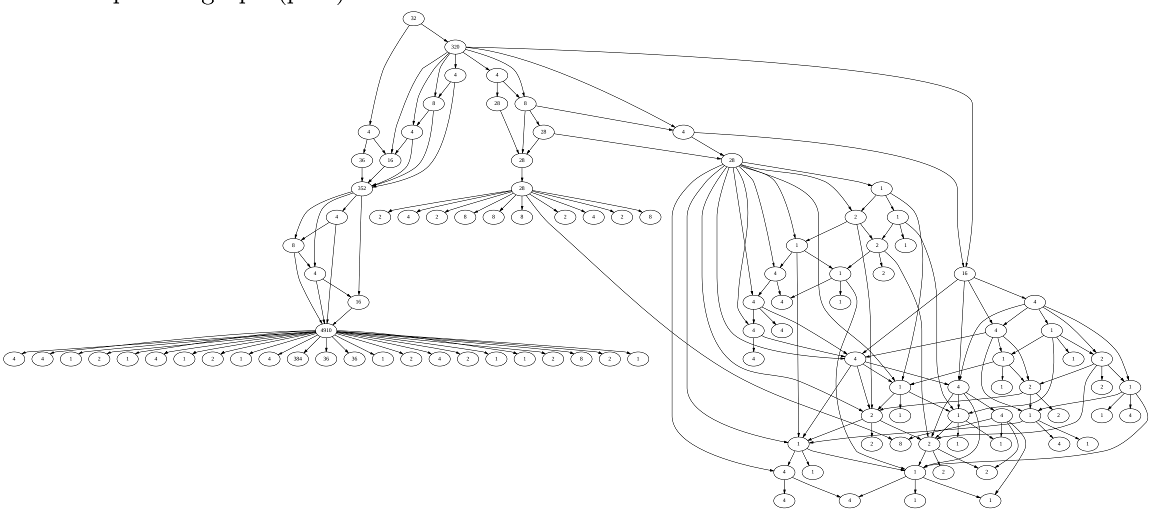
SCC Info

SCC components	241
SCC quetient height	55
SCC quetient nontrivial height	50
Number of terminal components	1
The largest component is	intermediate

Statistics according to **sizes**:

Size	Number of components	Number of states here
4,910	1	67.3%
384	1	5.2%
352	2	9.6%
320	1	4.3%
36	4	1.9%
32	1	0.4%
28	5	1.9%
16	4	0.8%
8	14	1.5%
4	71	3.8%
2	55	1.5%
1	82	1.1%

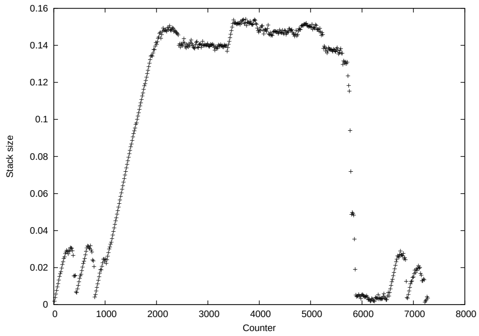
SCC component graph (part):



DFS Info

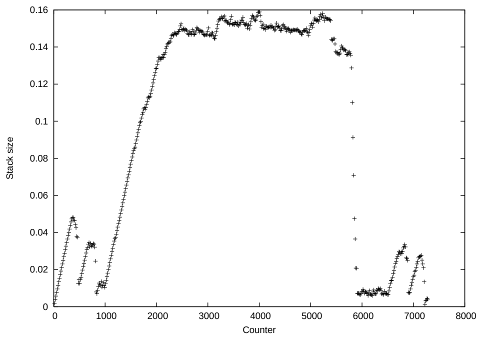
Run 0

front-edges : back-edges : cross-edges = 7,285 : 7,005 : 11,961 = 27.7%:26.6%:45.5%
Max. stack size: 1,128 (15.4%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (1881), 4 (678), 6 (122), 8 (91), 13 (77)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 7,285 : 7,152 : 11,814 = 27.7%:27.2%:45%
Max. stack size: 1,168 (16%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (1863), 4 (659), 6 (108), 8 (103), 9 (96)
Stack graph:



Local Structure

Short cycles(up to 6)

2	4,422	(60.6%)
3	0	(0%)
4	1,736	(23.8%)

Diamonds

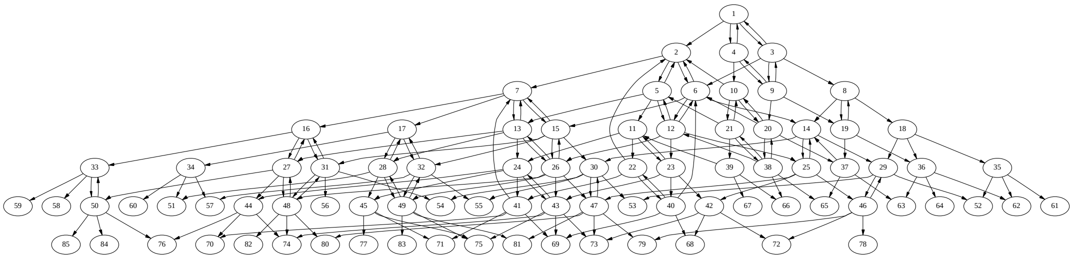
7,286 (100%)

Neighborhoods

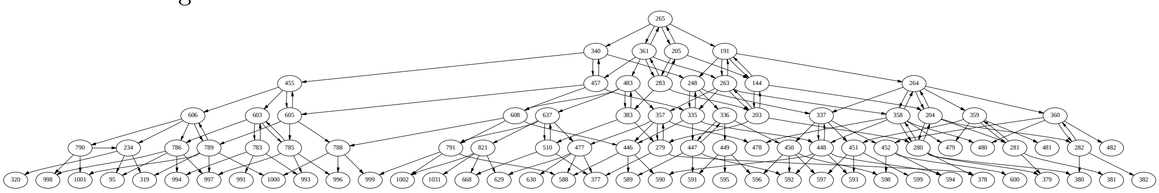
k	avg size	avg clustering
1	4.6	1
2	12.3	1.4
3	25.6	1.7
4	46	2

Visualization of some parts of the state state space:

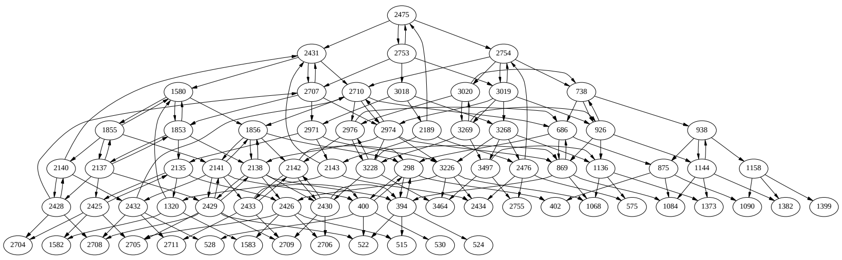
Initial walk length: 0



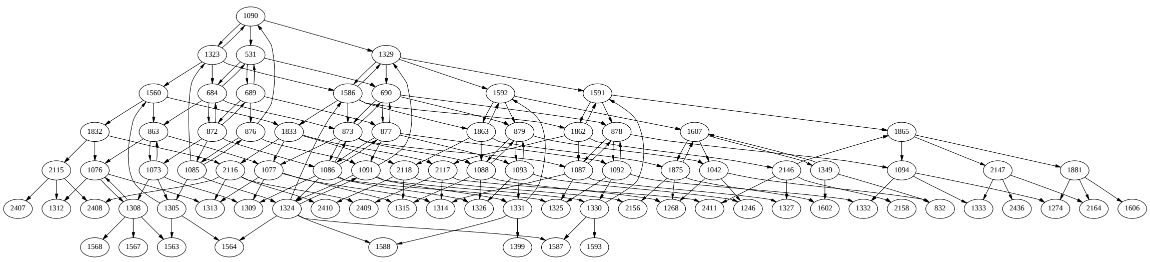
Initial walk length: 20



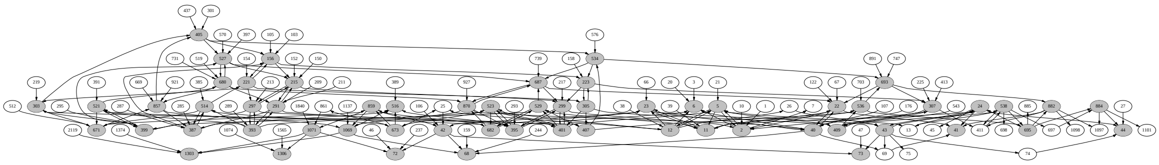
Initial walk length: 40



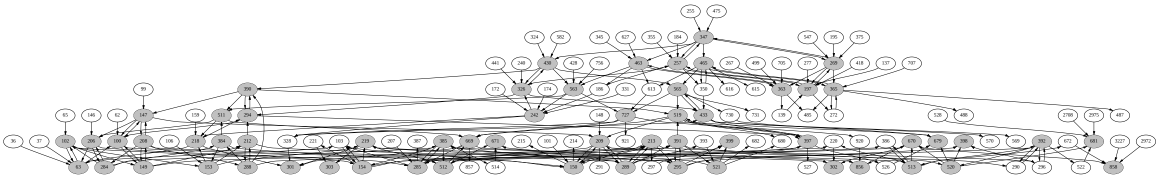
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60