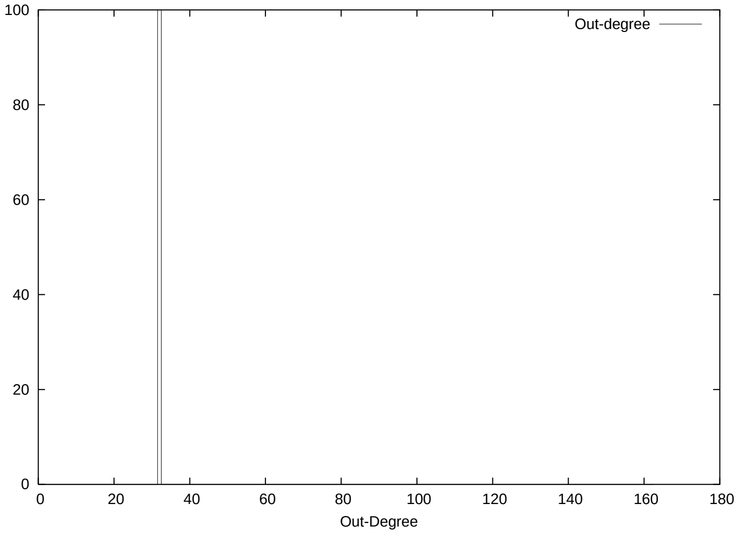
Graph: nusmv/syncarb5

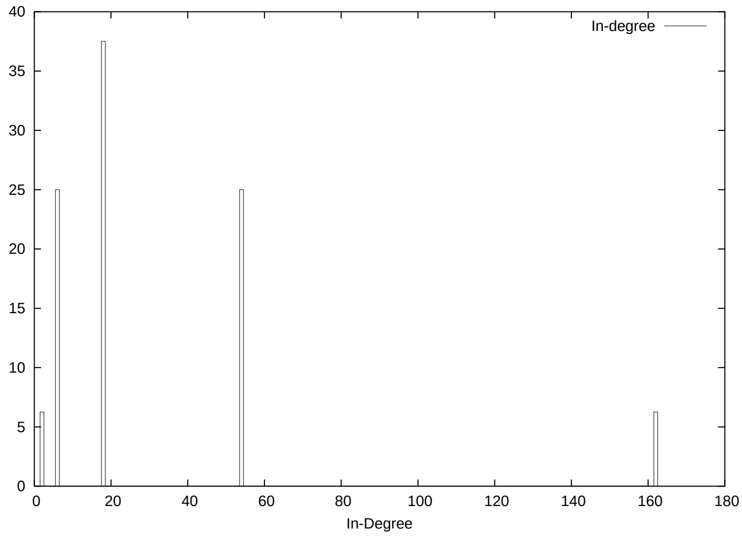
General Info

Example title	Synchronous arbiter
Parameter	
Reduction	
Modification	
States	5,120
Edges	163,840
Average degree	32

Out-Degrees distribution:



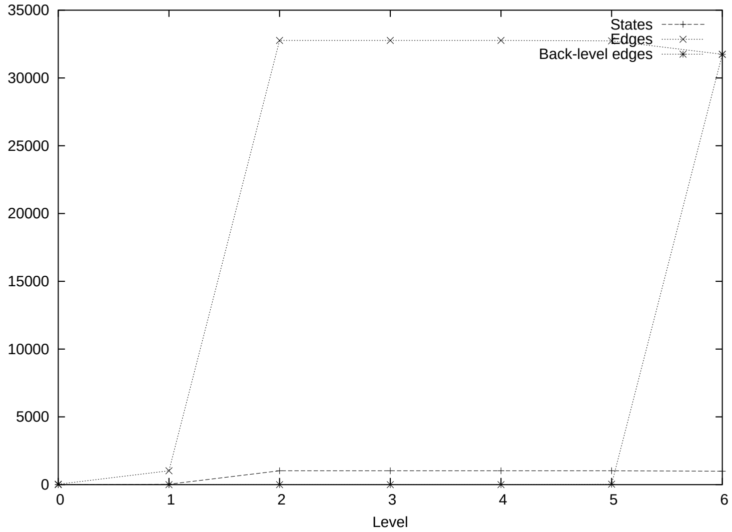
In-Degrees distribution:



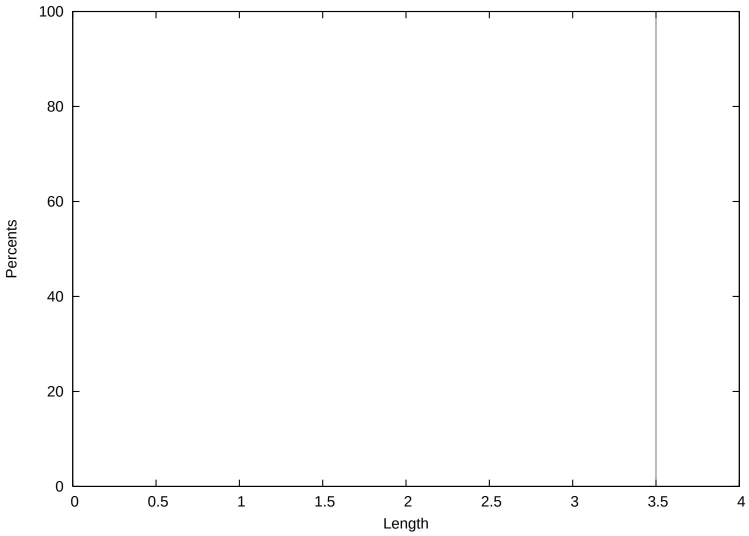
BFS Info

BFS height	6
BFS width	1,024 (20%)
Back level edges	31,778 (19.3%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	1
SCC quetient height	0
SCC quetient nontrivial height	0
Number of terminal components	1
The largest component is	initial the only terminal

Statistics according to **sizes**:

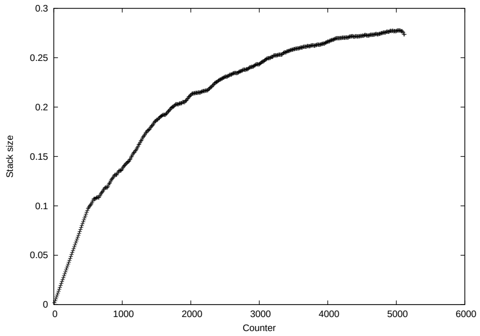
Size	Number of components	Number of states here
5,120	1	100%

SCC component graph (part):

DFS Info

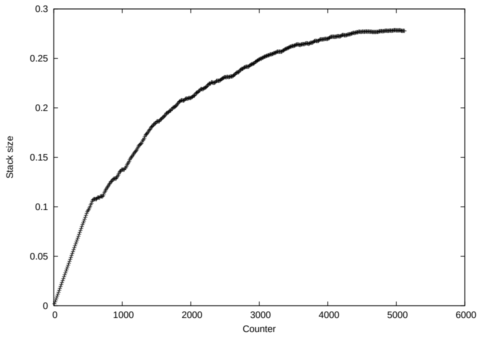
Run 0

front-edges : back-edges : cross-edges = 5,119 : 76,129 : 82,592 = 3.1%:46.4%:50.4%
Max. stack size: 1,421 (27.7%)
Shortest cycle detected: 5
Most often detected lengths of cycles: 520 (412), 495 (402), 350 (387), 485 (380), 550 (374)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 5,119 : 76,541 : 82,180 = 3.1%:46.7%:50.1%
Max. stack size: 1,427 (27.8%)
Shortest cycle detected: 5
Most often detected lengths of cycles: 695 (385), 685 (380), 425 (380), 410 (378), 495 (375)
Stack graph:



Local Structure

Short cycles(up to 6)

2	0	(0%)
3	0	(0%)
4	0	(0%)
5	3,840	(75%)

Diamonds

5,080 (99.2%)

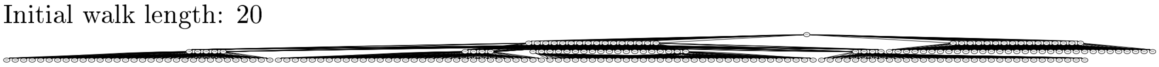
Neighborhoods

k	avg size	avg clustering
1	33	1
2	220.5	6.2
3	520.5	13.7
4	1000.5	16.3

Visualization of some parts of the state state space:

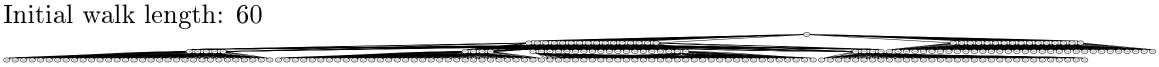
Initial walk length: 0

Initial walk length: 20



Initial walk length: 40

Initial walk length: 60



Initial walk length: 20

Initial walk length: 40

Initial walk length: 60