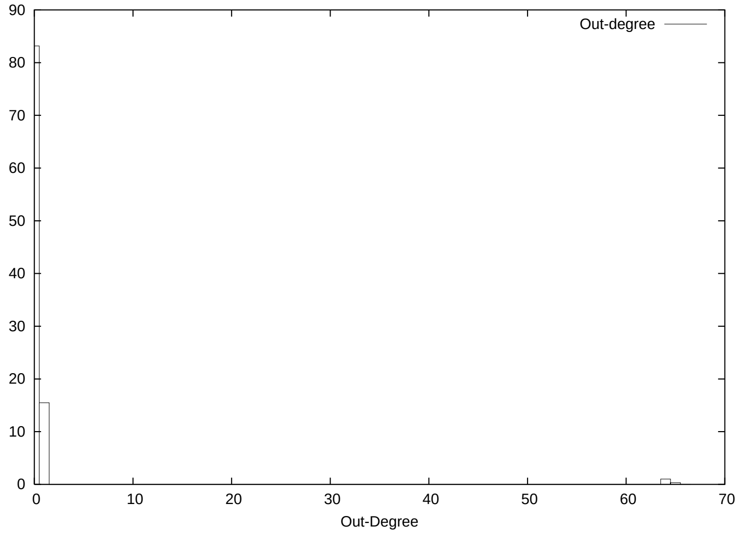
Graph: spin/n-s-original.red

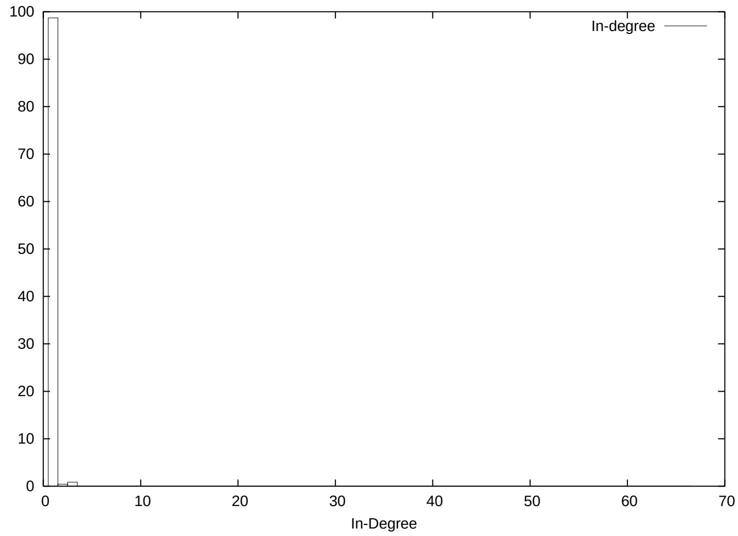
General Info

Example title	Needham-Schroeder Public Key Protocol
Parameter	
Reduction	POR
Modification	original version
States	307,218
Edges	313,826
Average degree	1

Out-Degrees distribution:



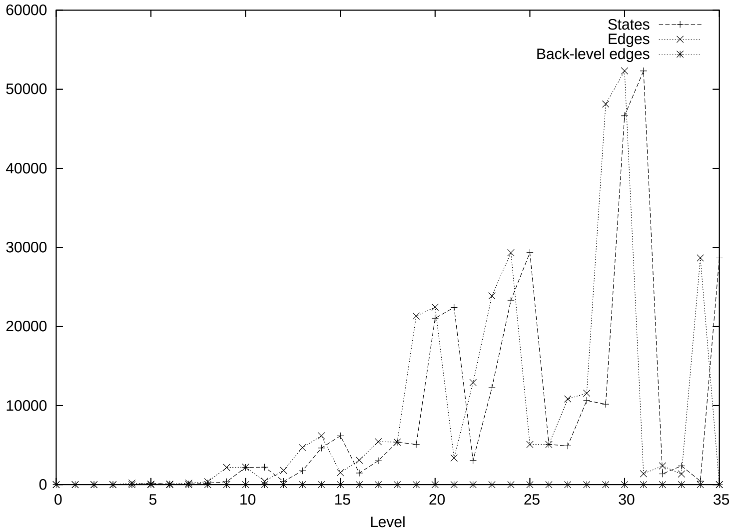
In-Degrees distribution:



BFS Info

BFS height	35
BFS width	52,320 (17%)
Back level edges	0 (0%)

BFS level info:



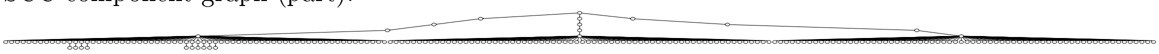
SCC Info

SCC components	307,218
SCC quetient height	35
SCC quetient nontrivial height	0
Number of terminal components	255,478
The largest component is	terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
1	307,218	100%

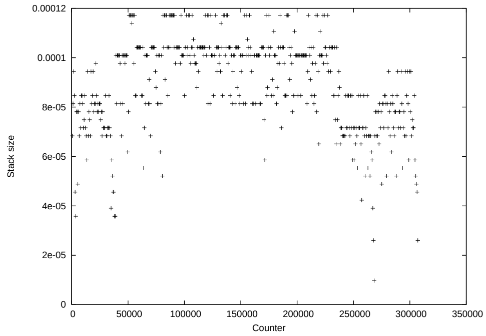
SCC component graph (part):



DFS Info

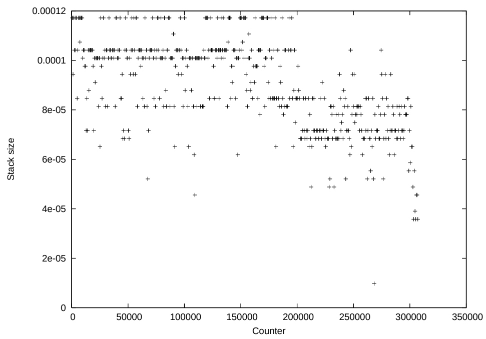
Run 0

front-edges : back-edges : cross-edges = 307,217 : 0 : 6,609 = 97.8%:0%:2.1%
Max. stack size: 36 (0%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 307,217 : 0 : 6,609 = 97.8%:0%:2.1%
Max. stack size: 36 (0%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:



Local Structure

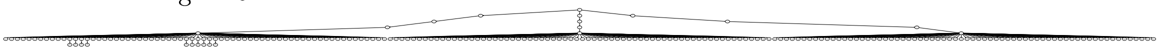
Short cycles(up to 6)
none
Diamonds

0 (0%)

Neighborhoods

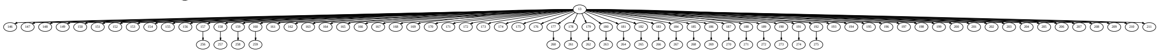
k	avg size	avg clustering
1	2	1
2	4.4	1
3	6.8	1
4	9.3	1

Visualization of some parts of the state state space:
Initial walk length: 0



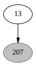
Initial walk length: 20

Initial walk length: 40

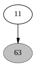


Initial walk length: 60

Initial walk length: 20



Initial walk length: 40



Initial walk length: 60