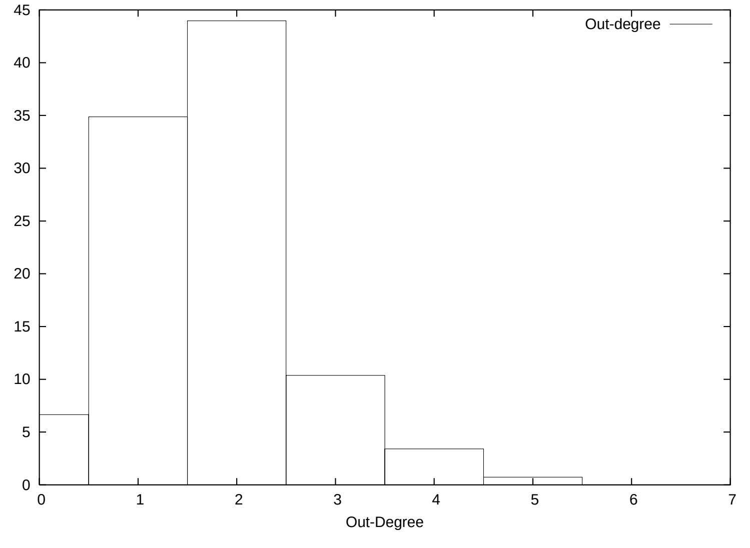
Graph: cadp/vasy_5_9

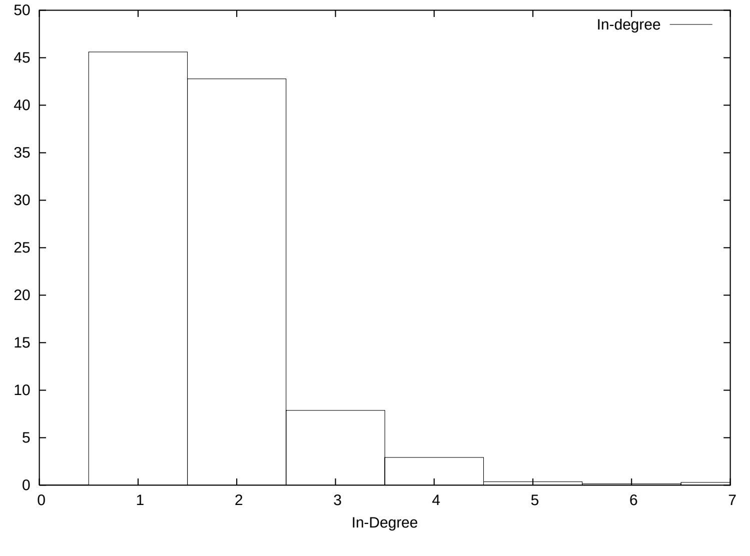
General Info

Example title	VLTS benchmark suite
Parameter	
Reduction	
Modification	
States	5,486
Edges	9,392
Average degree	1.7

Out-Degrees distribution:



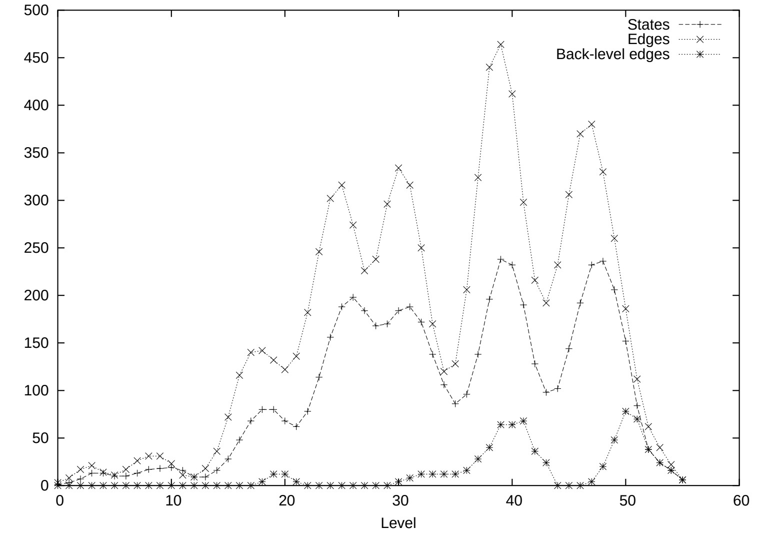
In-Degrees distribution:



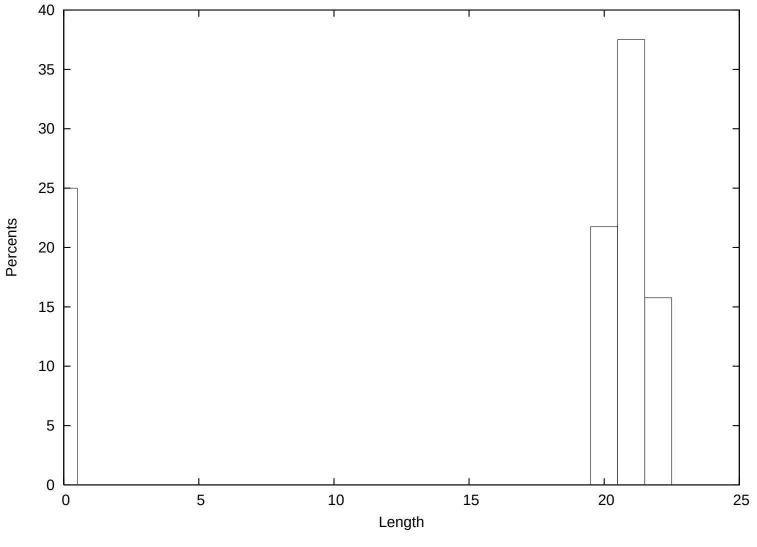
BFS Info

BFS height	55
BFS width	238 (4.3%)
Back level edges	736 (7.8%)

BFS level info:



Back level edges lengths:



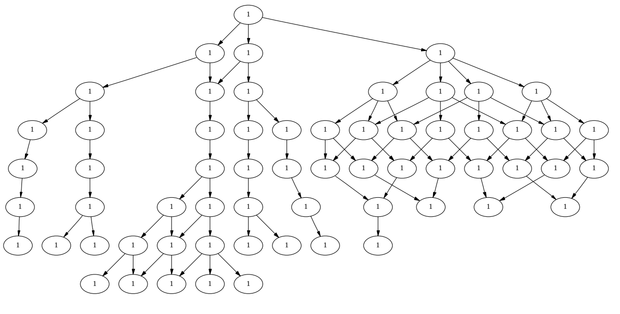
SCC Info

SCC components	2,525
SCC quetient height	47
SCC quetient nontrivial height	6
Number of terminal components	365
The largest component is	intermediate

Statistics according to **sizes**:

Size	Number of components	Number of states here
450	1	8.2%
370	2	13.4%
322	2	11.7%
314	1	5.7%
274	3	14.9%
1	2,516	45.8%

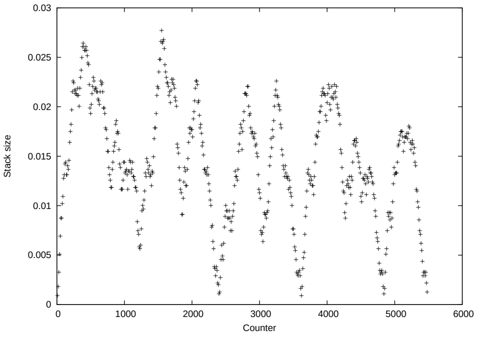
SCC component graph (part):



DFS Info

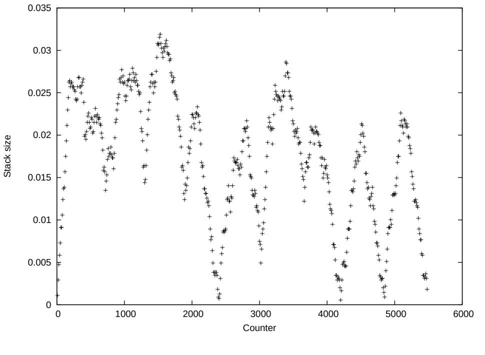
Run 0

front-edges : back-edges : cross-edges = 5,485 : 319 : 3,588 = 58.4%:3.3%:38.2%
Max. stack size: 153 (2.7%)
Shortest cycle detected: 21
Most often detected lengths of cycles: 23 (87), 24 (64), 22 (55), 71 (20), 68 (16)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 5,485 : 312 : 3,595 = 58.4%:3.3%:38.2%
Max. stack size: 176 (3.2%)
Shortest cycle detected: 21
Most often detected lengths of cycles: 23 (98), 22 (73), 24 (17), 47 (16), 91 (14)
Stack graph:



Local Structure

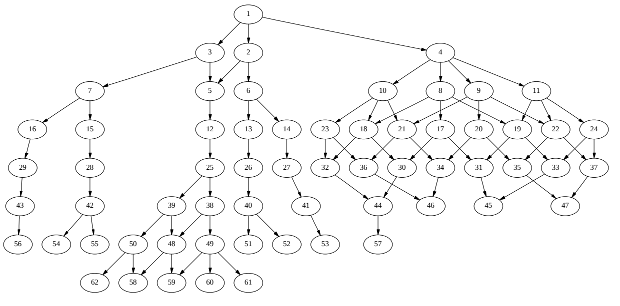
Short cycles(up to 6)
none
Diamonds

2,752 (50.1%)

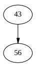
Neighborhoods

k	avg size	avg clustering
1	2.7	1
2	5.1	1.1
3	8.2	1.1
4	11.7	1.2

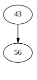
Visualization of some parts of the state state space:
Initial walk length: 0



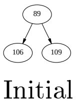
Initial walk length: 20



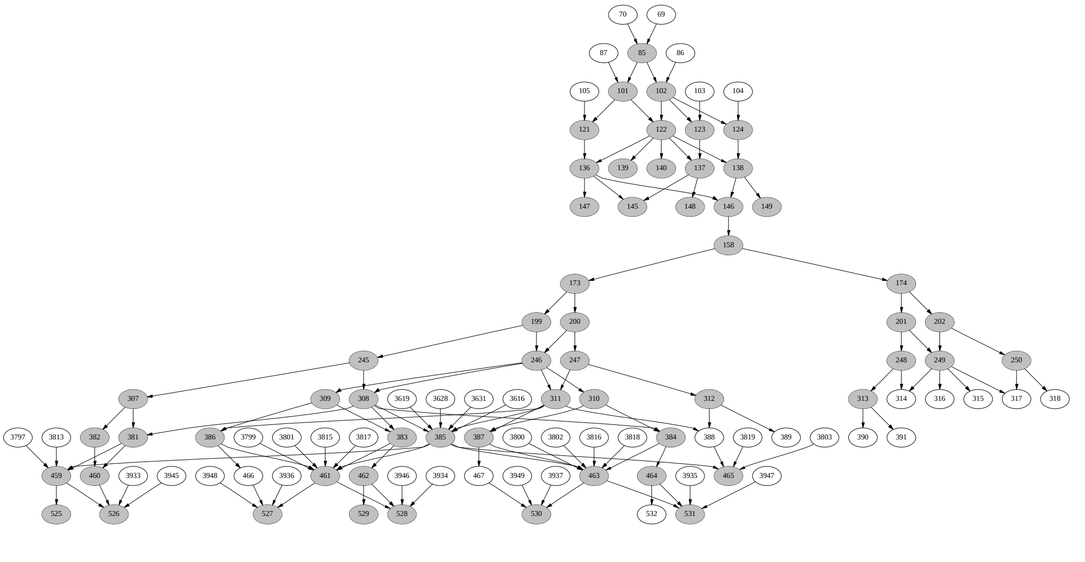
Initial walk length: 40



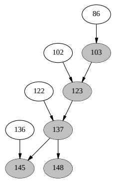
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60