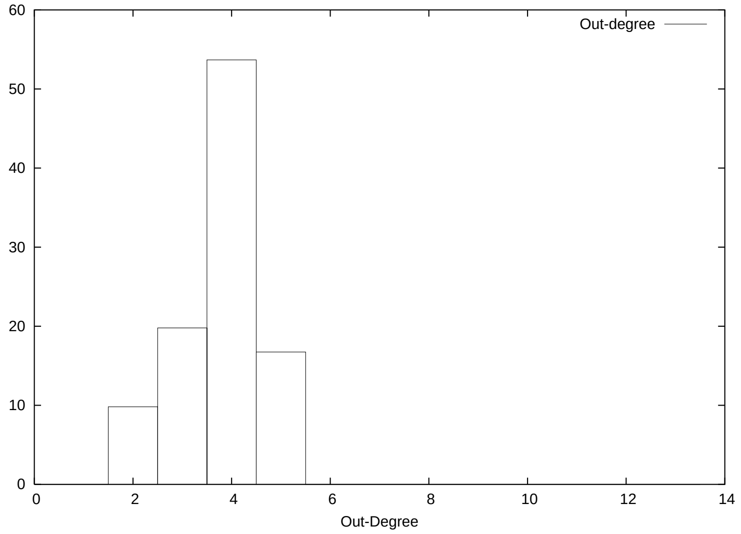
Graph: cadp/vasy_1_4

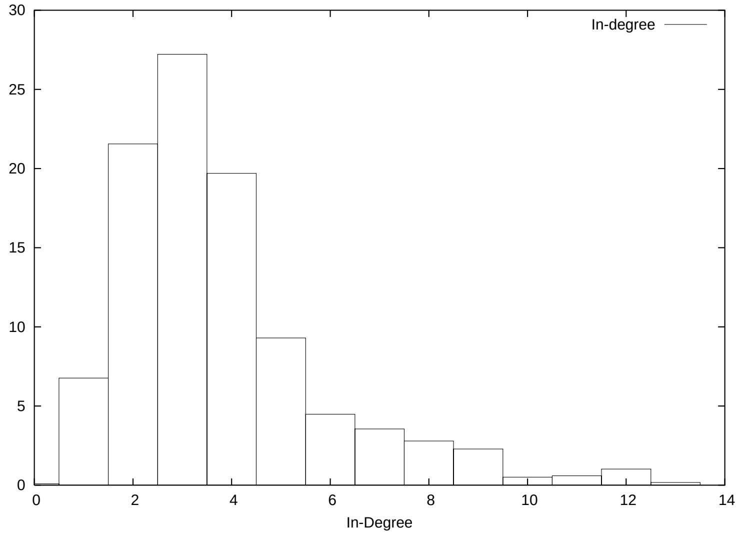
General Info

Example title	VLTS benchmark suite
Parameter	
Reduction	
Modification	
States	1,183
Edges	4,464
Average degree	3.7

Out-Degrees distribution:



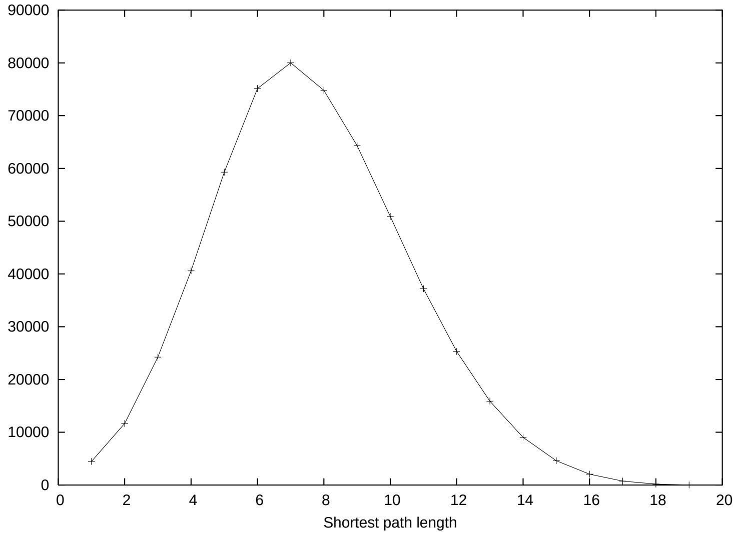
In-Degrees distribution:



Shortest Paths Info

Diameter: 19
Average shortest path length: 7.6159

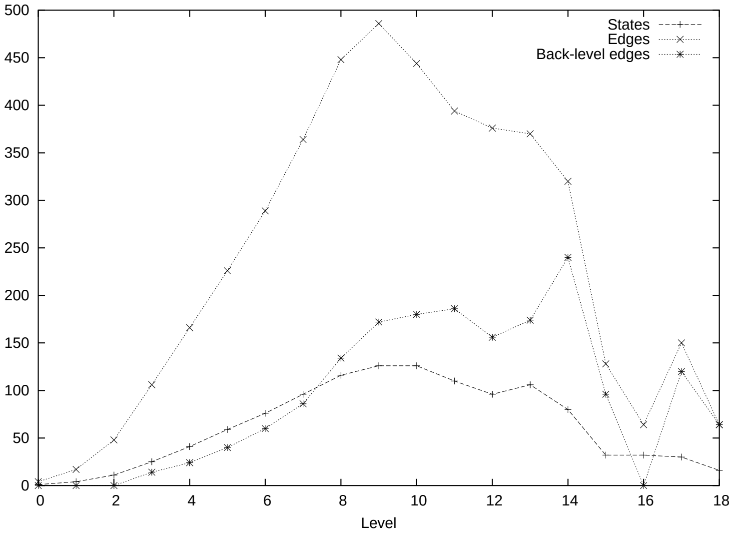
Shortest paths lengths frequencies:



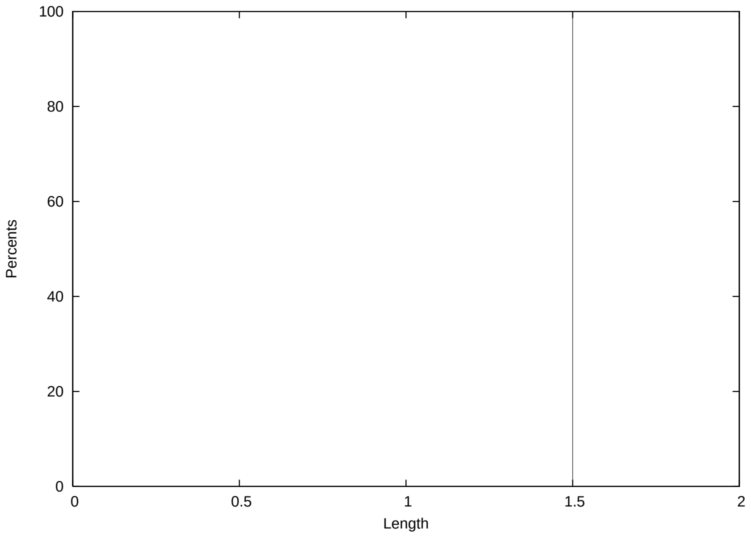
BFS Info

BFS height	18
BFS width	126 (10.6%)
Back level edges	1,746 (39.1%)

BFS level info:



Back level edges lengths:



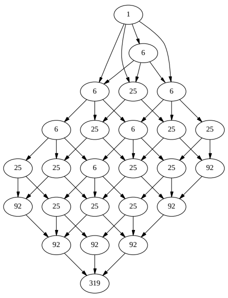
SCC Info

SCC components	25
SCC quetient height	7
SCC quetient nontrivial height	7
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
319	1	26.9%
92	6	46.6%
25	11	23.2%
6	6	3%
1	1	0%

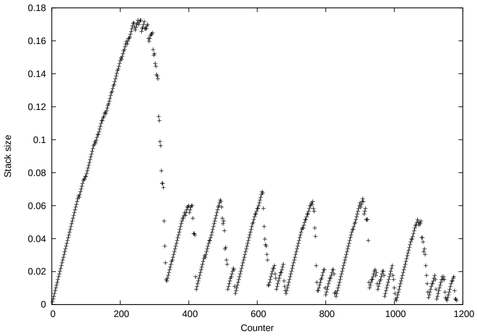
SCC component graph (part):



DFS Info

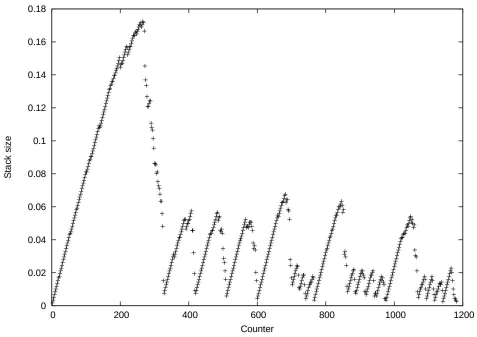
Run 0

front-edges : back-edges : cross-edges = 1,182 : 1,439 : 1,843 = 26.4%:32.2%:41.2%
Max. stack size: 204 (17.2%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 3 (644), 12 (72), 6 (70), 9 (58), 18 (45)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 1,182 : 1,440 : 1,842 = 26.4%:32.2%:41.2%
Max. stack size: 205 (17.3%)
Shortest cycle detected: 3
Most often detected lengths of cycles: 3 (646), 6 (77), 12 (69), 9 (60), 15 (51)
Stack graph:



Local Structure

Short cycles(up to 6)

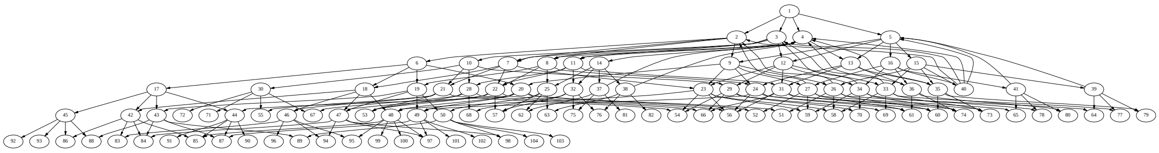
2	0	(0%)
3	1,182	(99.9%)

Diamonds
1,162 (98.2%)

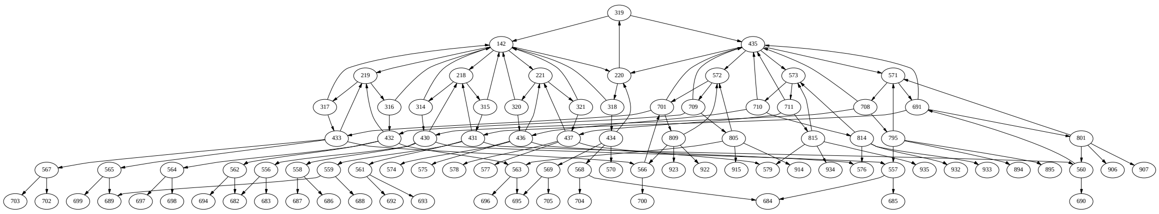
Neighborhoods

k	avg size	avg clustering
1	4.7	1
2	14.6	1.2
3	35.1	1.5
4	69.4	1.7

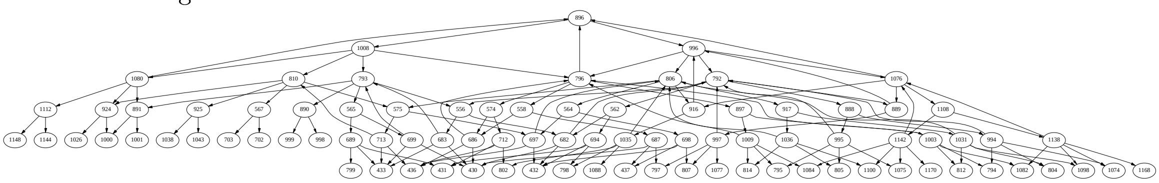
Visualization of some parts of the state state space:
Initial walk length: 0



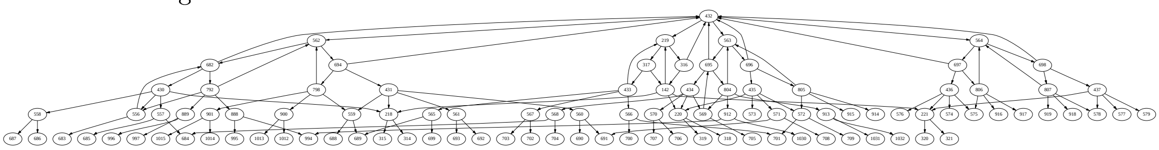
Initial walk length: 20



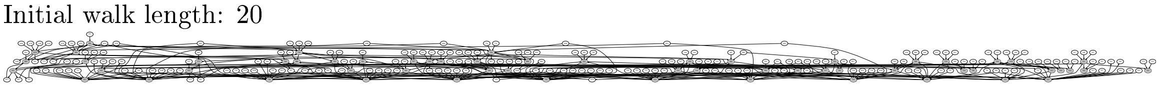
Initial walk length: 40



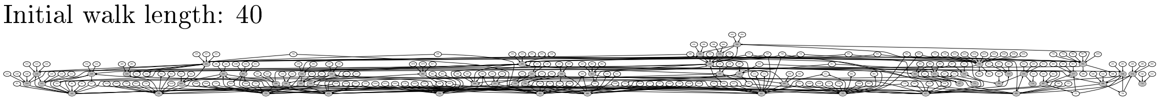
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60