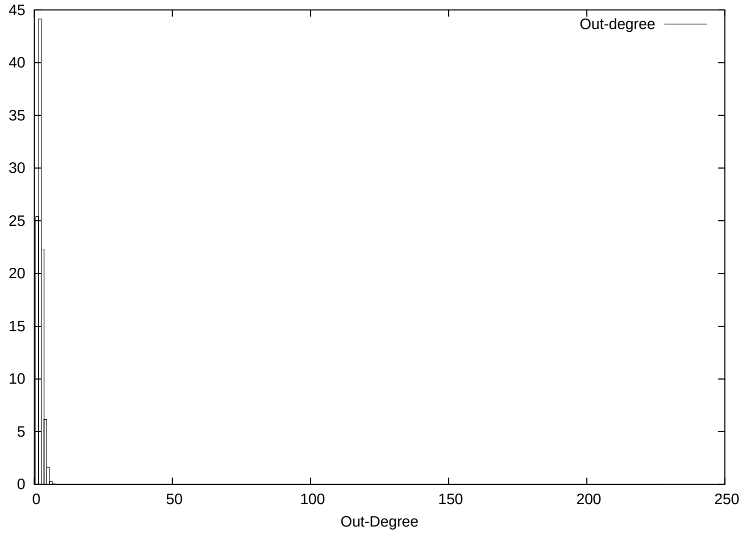
Graph: cadp/co4-3-1

General Info

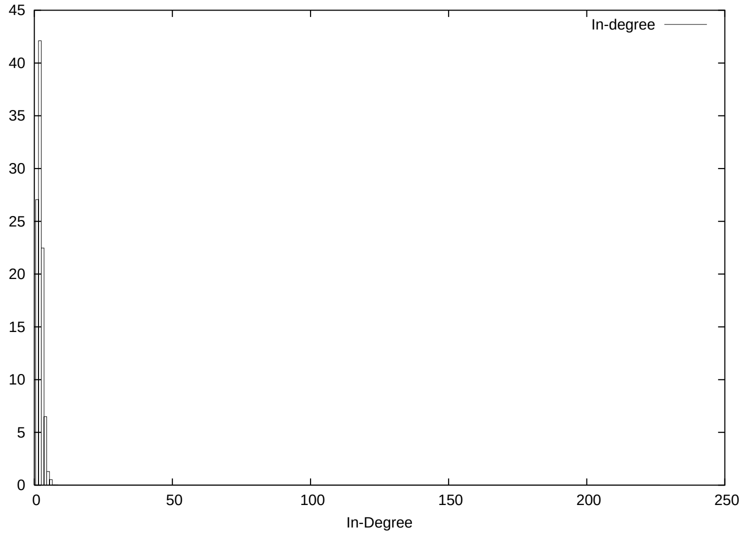
Example title	CO4 protocol for distributed knowledge bases
Parameter	
Reduction	
Modification	

States	25,496
Edges	54,951
Average degree	2.1

Out-Degrees distribution:



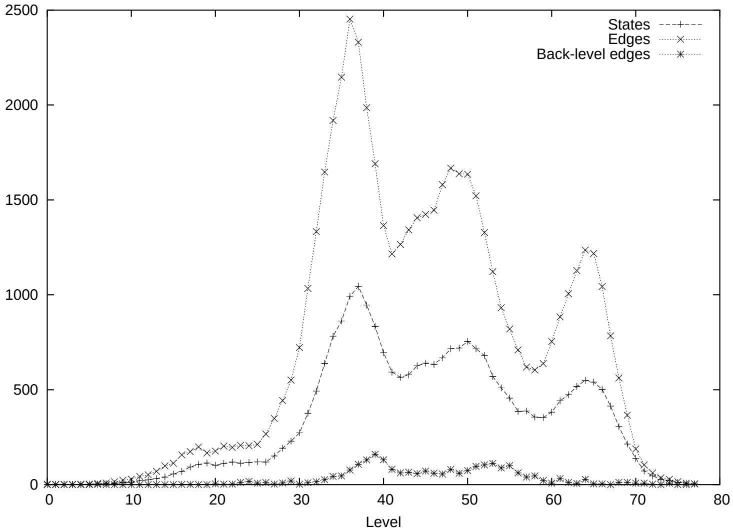
In-Degrees distribution:



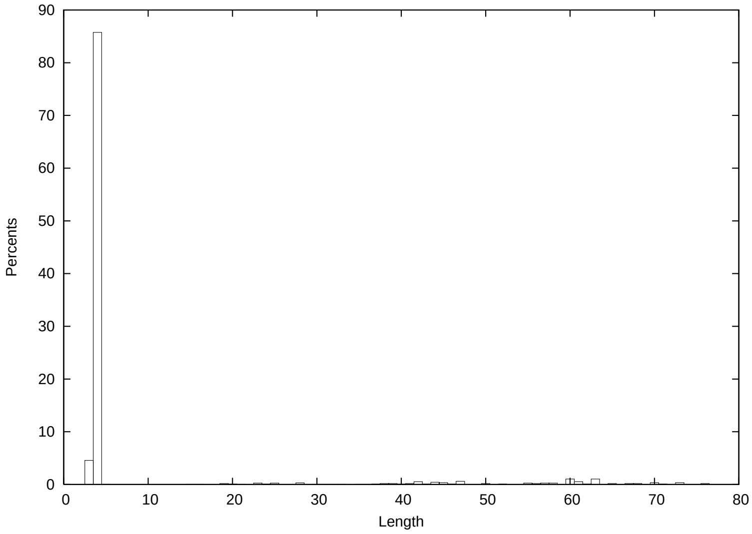
BFS Info

BFS height	77
BFS width	1,045 (4%)
Back level edges	2,324 (4.2%)

BFS level info:



Back level edges lengths:



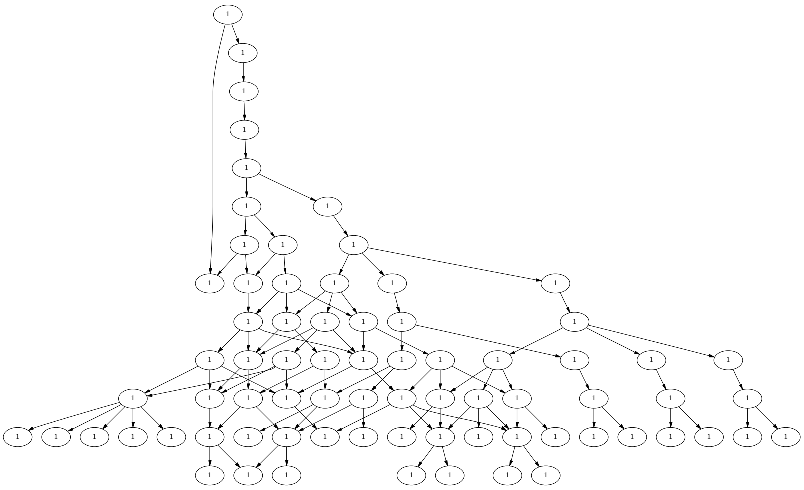
SCC Info

SCC components	25,496
SCC quetient height	83
SCC quetient nontrivial height	0
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
1	25,496	100%

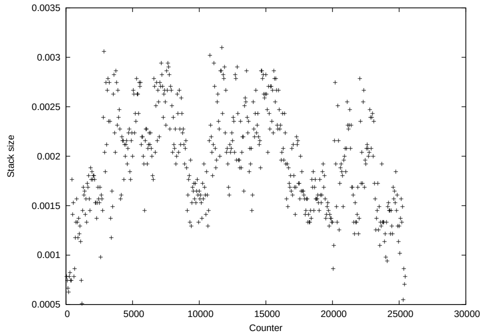
SCC component graph (part):



DFS Info

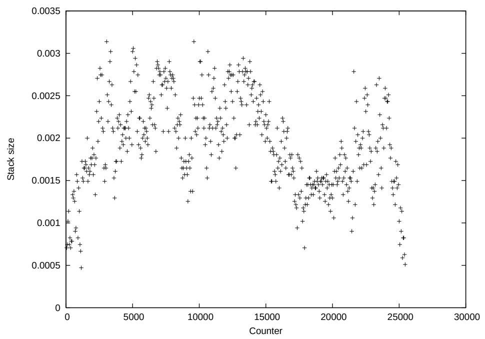
Run 0

front-edges : back-edges : cross-edges = 25,495 : 0 : 29,456 = 46.3%:0%:53.6%
Max. stack size: 83 (0.3%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 25,495 : 0 : 29,456 = 46.3%:0%:53.6%
Max. stack size: 83 (0.3%)
Shortest cycle detected: -1
Most often detected lengths of cycles: (), (), (), (), ()
Stack graph:



Local Structure

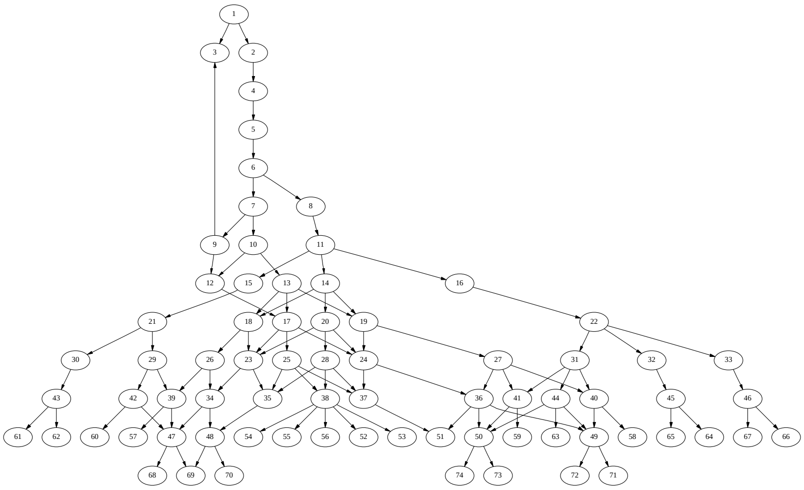
Short cycles(up to 6)
none
Diamonds

17,720 (69.5%)

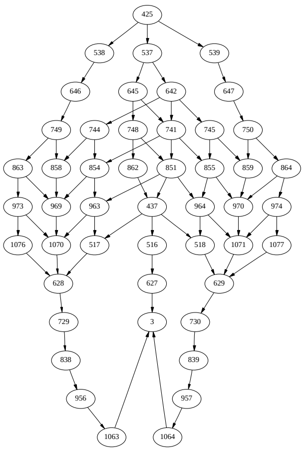
Neighborhoods

k	avg size	avg clustering
1	3.1	1
2	6.2	1.2
3	10.1	1.3
4	14.8	1.3

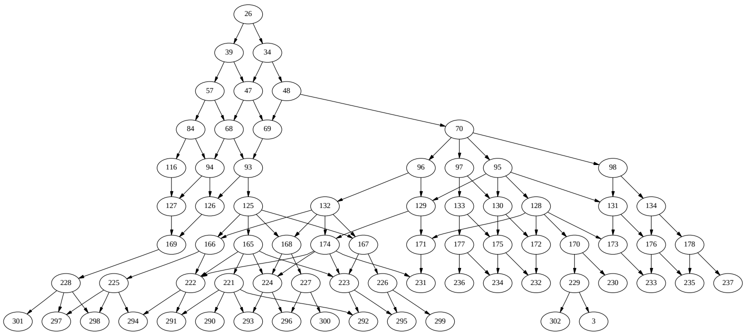
Visualization of some parts of the state state space:
Initial walk length: 0



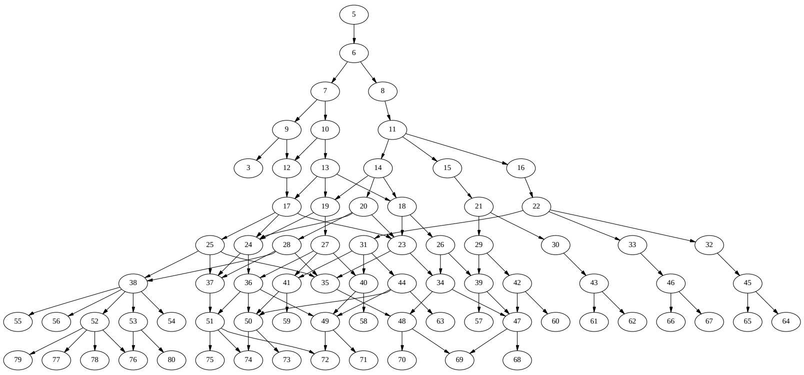
Initial walk length: 20



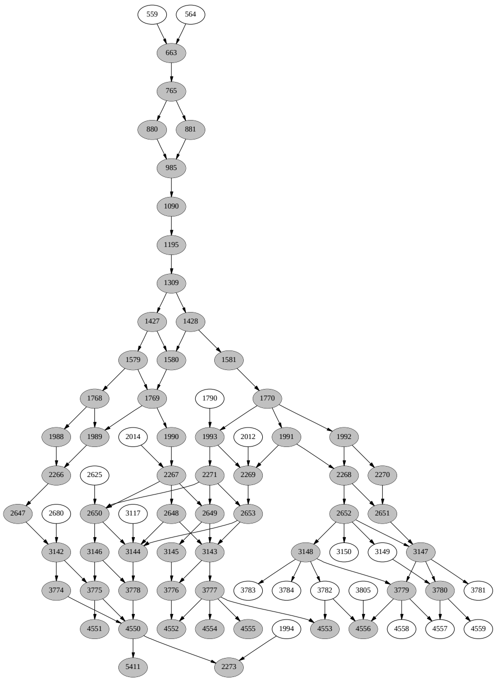
Initial walk length: 40



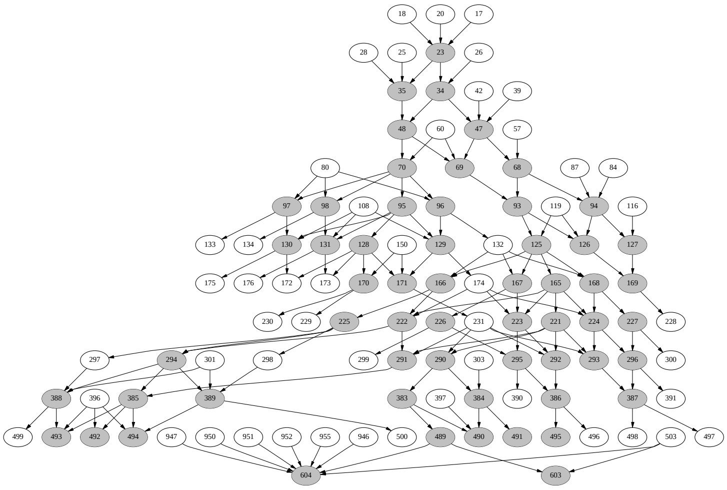
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60