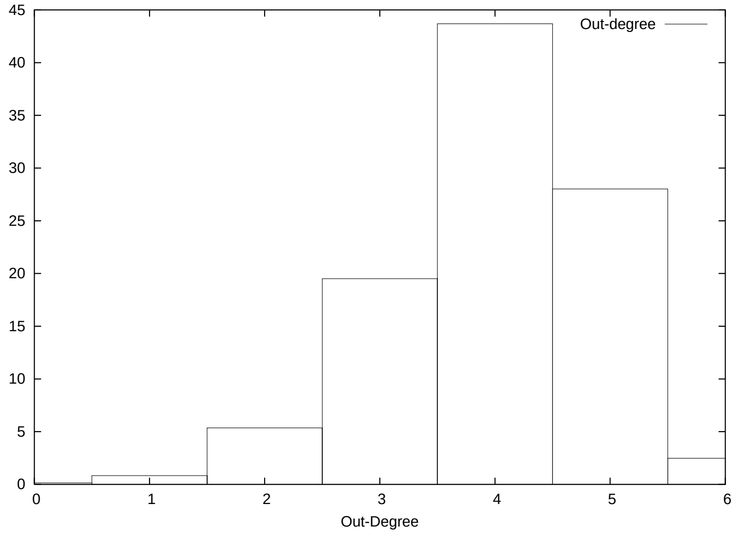
Graph: divine/phil-basic-6

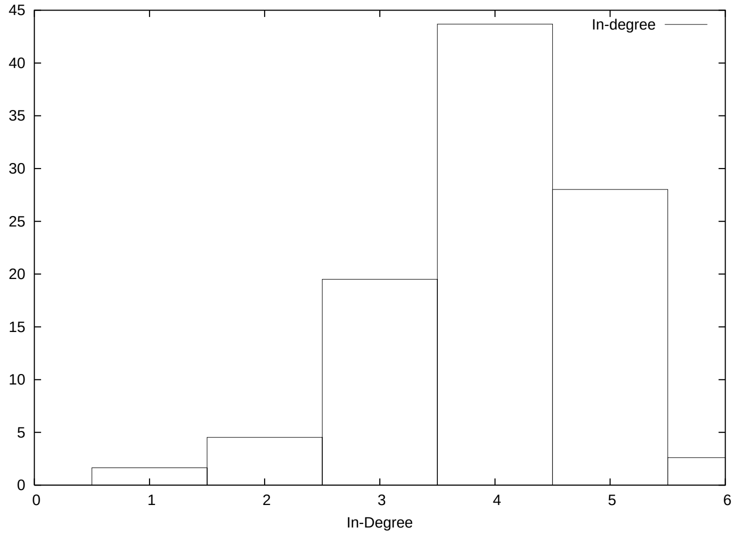
General Info

Example title	Dining philosophers
Parameter	6
Reduction	
Modification	
States	728
Edges	2,910
Average degree	3.9

Out-Degrees distribution:



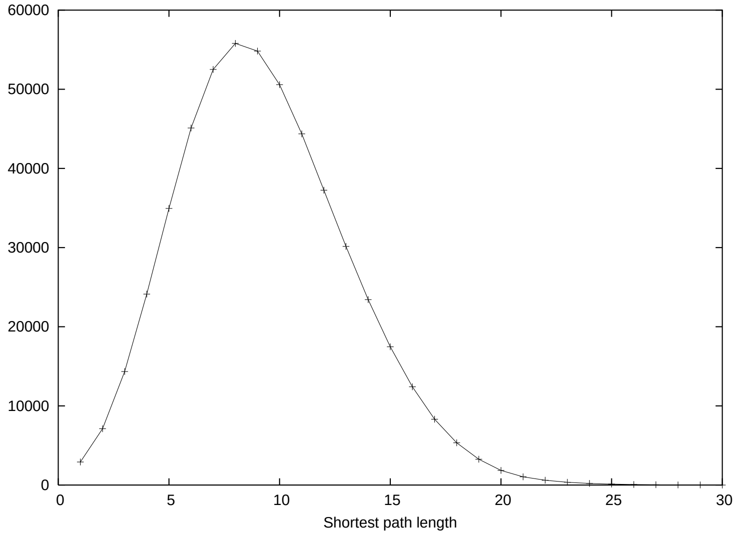
In-Degrees distribution:



Shortest Paths Info

Diameter: 30
Average shortest path length: 9.31261

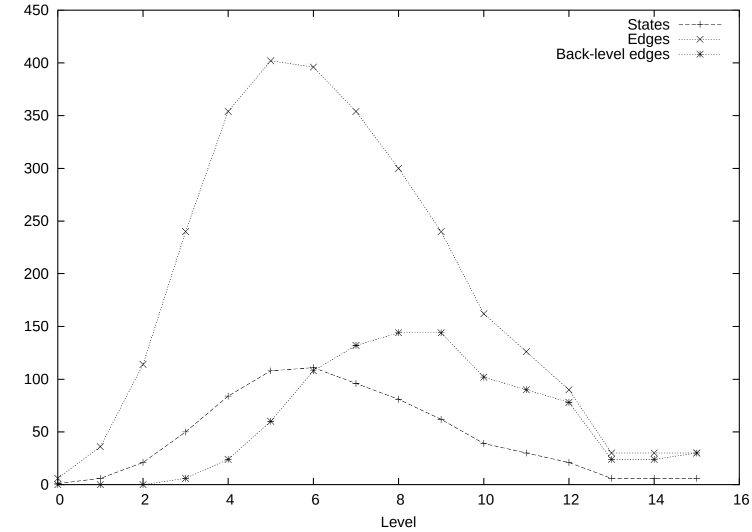
Shortest paths lengths frequencies:



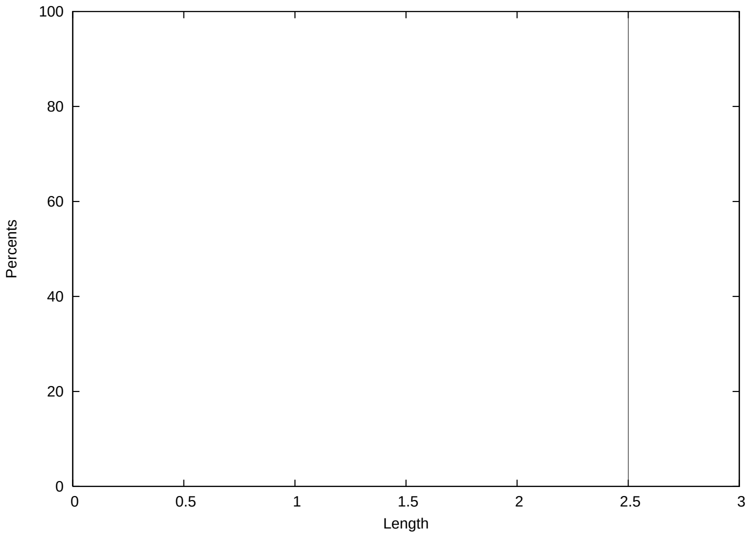
BFS Info

BFS height	15
BFS width	111 (15.2%)
Back level edges	966 (33.1%)

BFS level info:



Back level edges lengths:



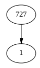
SCC Info

SCC components	2
SCC quetient height	1
SCC quetient nontrivial height	1
Number of terminal components	1
The largest component is	initial

Statistics according to **sizes**:

Size	Number of components	Number of states here
727	1	99.8%
1	1	0.1%

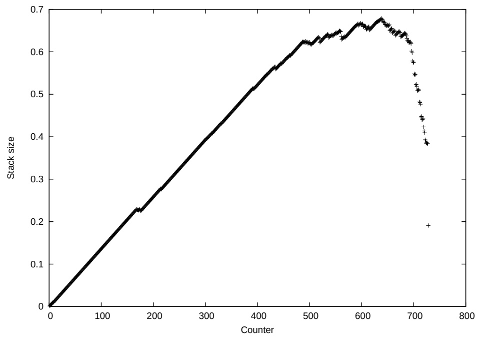
SCC component graph (part):



DFS Info

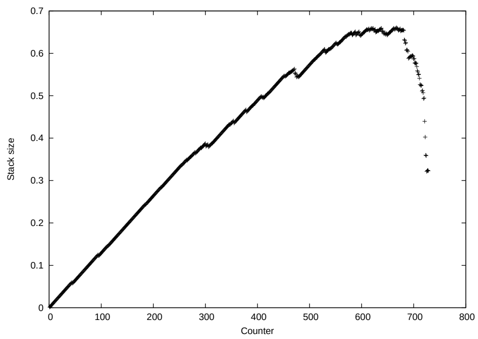
Run 0

front-edges : back-edges : cross-edges = 727 : 1,169 : 1,014 = 24.9%:40.1%:34.8%
Max. stack size: 494 (67.8%)
Shortest cycle detected: 4
Most often detected lengths of cycles: 4 (46), 68 (37), 28 (32), 164 (29), 144 (27)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 727 : 1,153 : 1,030 = 24.9%:39.6%:35.3%
Max. stack size: 481 (66%)
Shortest cycle detected: 4
Most often detected lengths of cycles: 4 (55), 8 (34), 24 (28), 224 (28), 60 (27)
Stack graph:



Local Structure

Short cycles(up to 6)

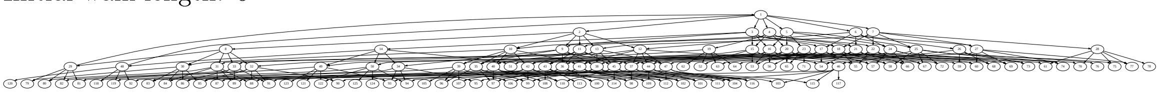
2	0	(0%)
3	0	(0%)
4	727	(99.8%)

Diamonds
715 (98.2%)

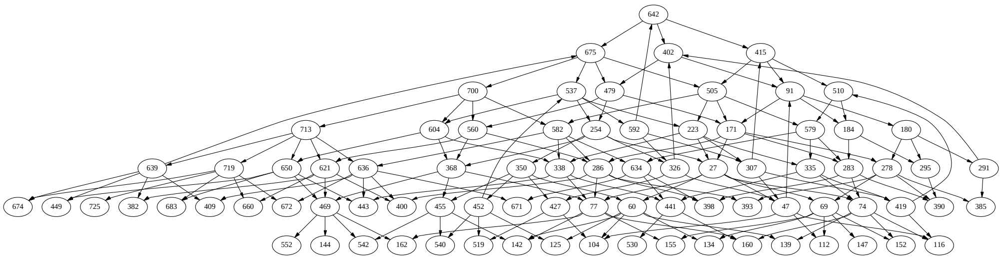
Neighborhoods

k	avg size	avg clustering
1	4.9	1
2	14.7	1.4
3	34.4	1.6
4	67.5	2

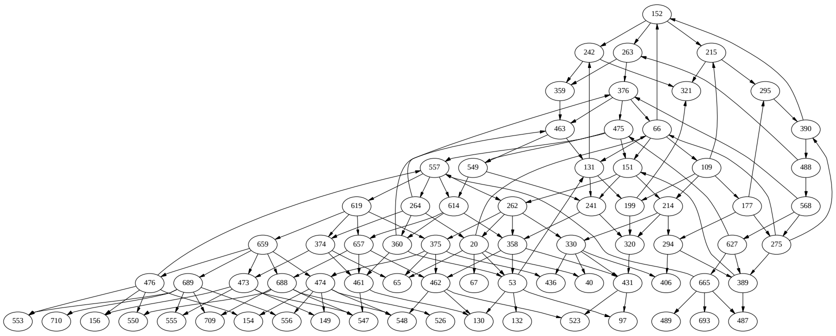
Visualization of some parts of the state state space:
Initial walk length: 0



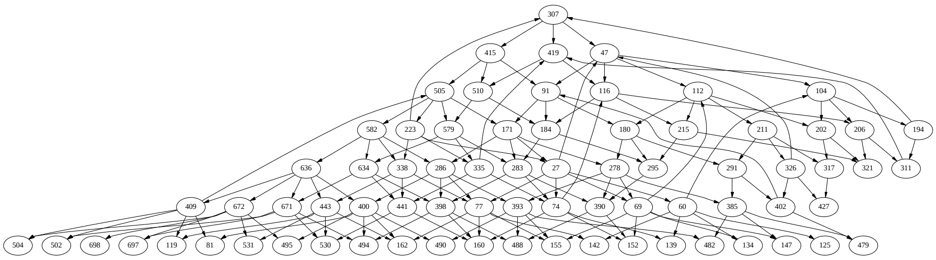
Initial walk length: 20



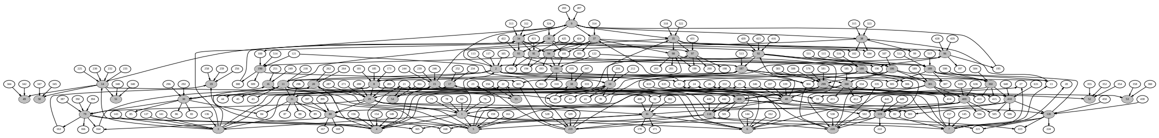
Initial walk length: 40



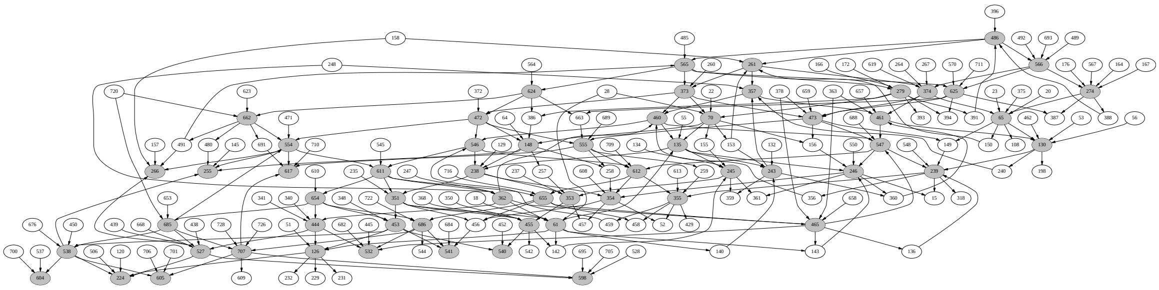
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60