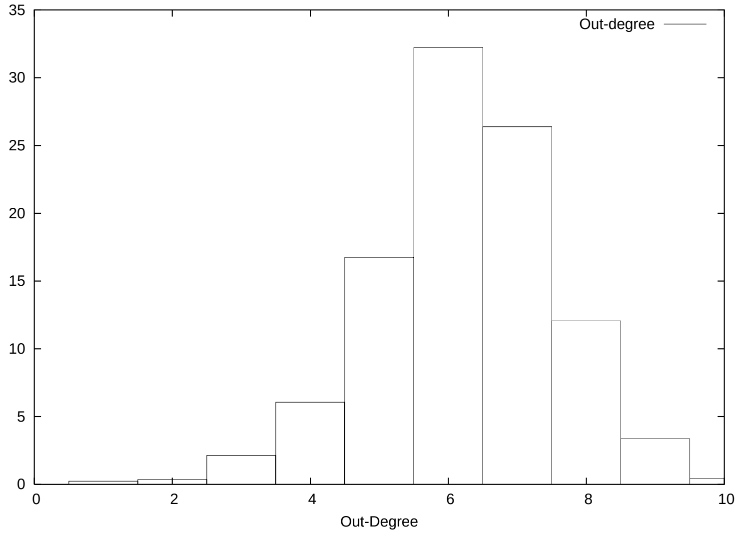
Graph: divine/phil-room-6

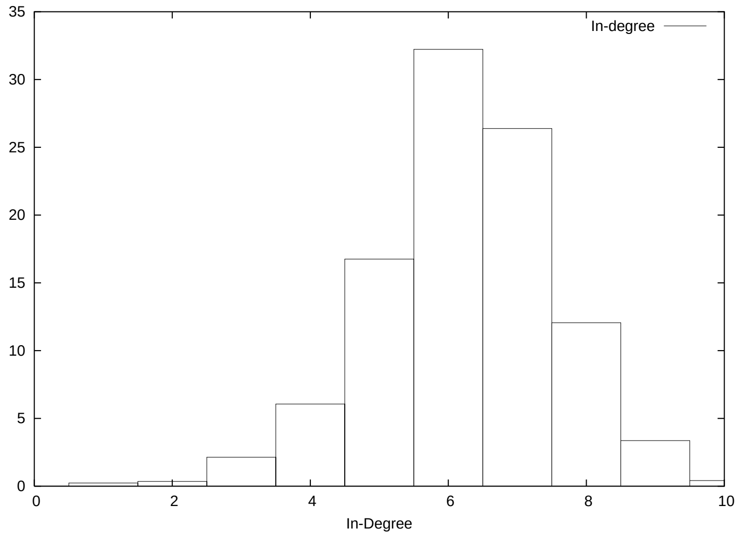
General Info

Example title	Dining philosophers
Parameter	6
Reduction	
Modification	with room
States	5,049
Edges	31,524
Average degree	6.2

Out-Degrees distribution:



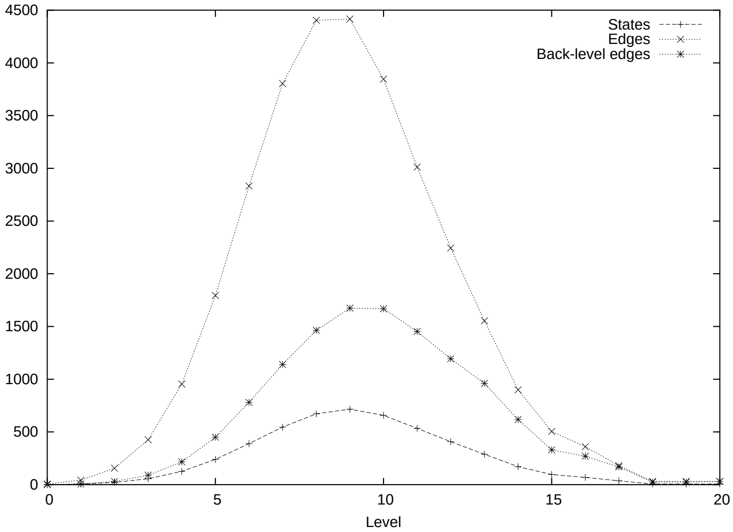
In-Degrees distribution:



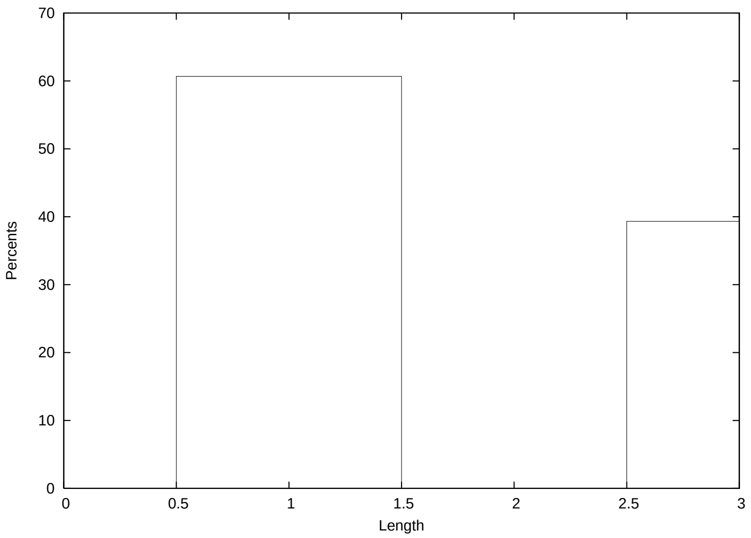
BFS Info

BFS height	20
BFS width	716 (14.1%)
Back level edges	12,588 (39.9%)

BFS level info:



Back level edges lengths:



SCC Info

SCC components	1
SCC quetient height	0
SCC quetient nontrivial height	0
Number of terminal components	1
The largest component is	initial the only terminal

Statistics according to **sizes**:

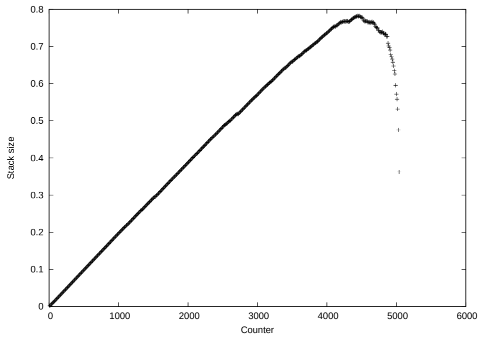
Size	Number of components	Number of states here
5,049	1	100%

SCC component graph (part):

DFS Info

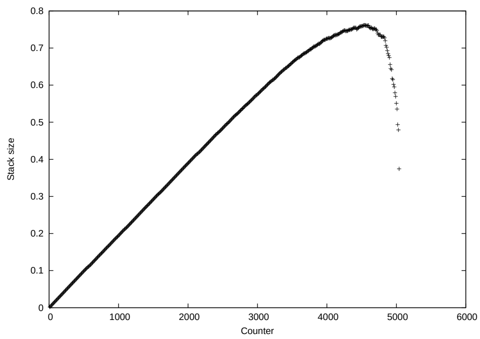
Run 0

front-edges : back-edges : cross-edges = 5,048 : 14,925 : 11,551 = 16%:47.3%:36.6%
Max. stack size: 3,954 (78.3%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (2511), 4 (264), 6 (92), 8 (58), 10 (39)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 5,048 : 14,864 : 11,612 = 16%:47.1%:36.8%
Max. stack size: 3,846 (76.1%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (2424), 4 (252), 6 (118), 8 (62), 10 (49)
Stack graph:



Local Structure

Short cycles(up to 6)

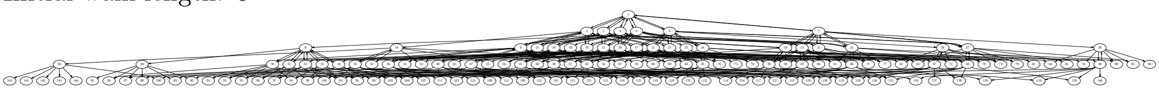
2	4,983	(98.6%)
3	0	(0%)
4	66	(1.3%)

Diamonds
5,037 (99.7%)

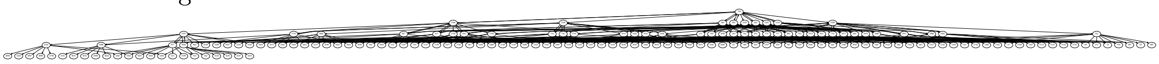
Neighborhoods

k	avg size	avg clustering
1	7.2	1
2	28.6	1.6
3	82.6	2.2
4	193.7	2.7

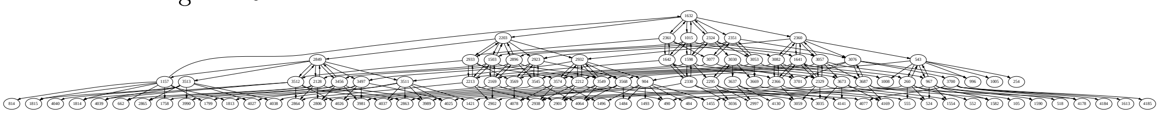
Visualization of some parts of the state state space:
Initial walk length: 0



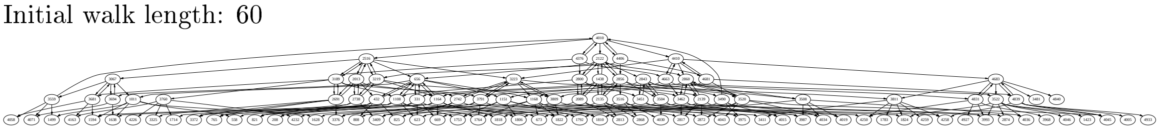
Initial walk length: 20



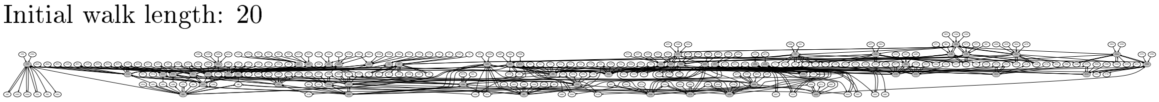
Initial walk length: 40



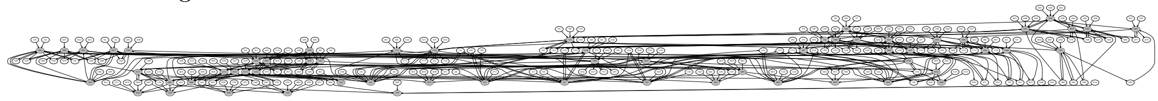
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60