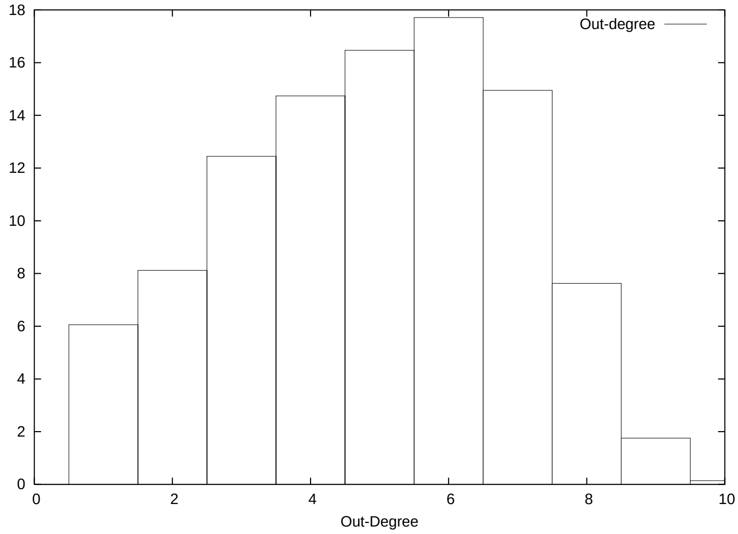
Graph: spin/phil5.red

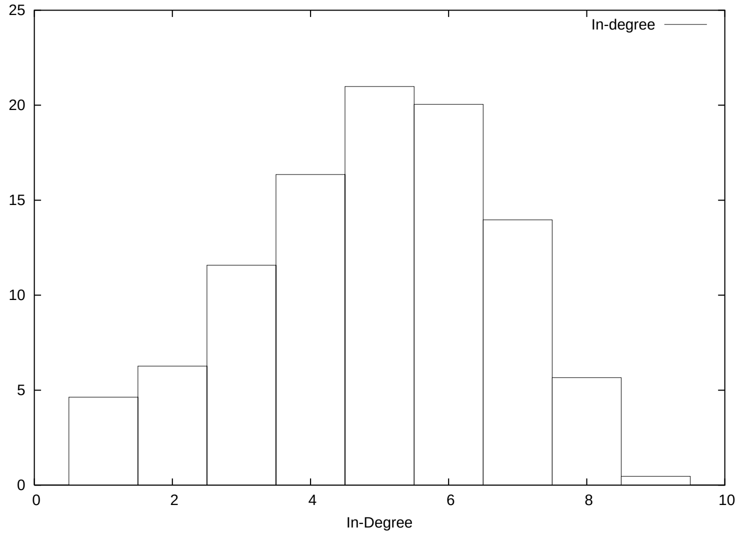
General Info

Example title	Dining philosophers
Parameter	5
Reduction	POR
Modification	
States	4,275
Edges	20,947
Average degree	4.8

Out-Degrees distribution:



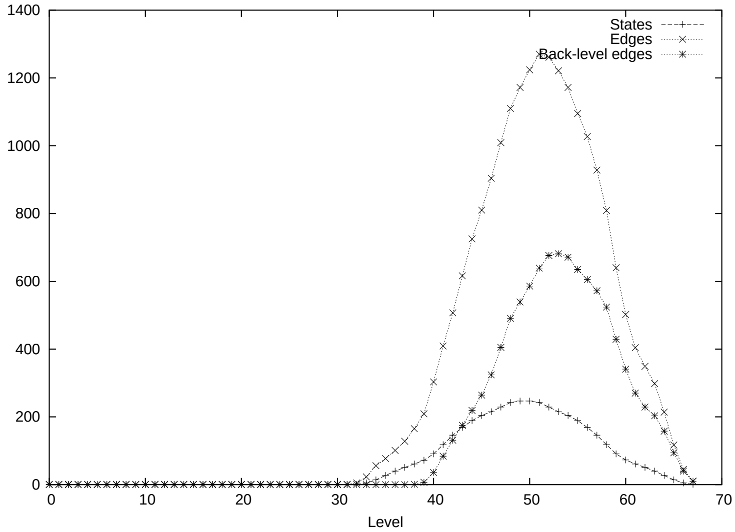
In-Degrees distribution:



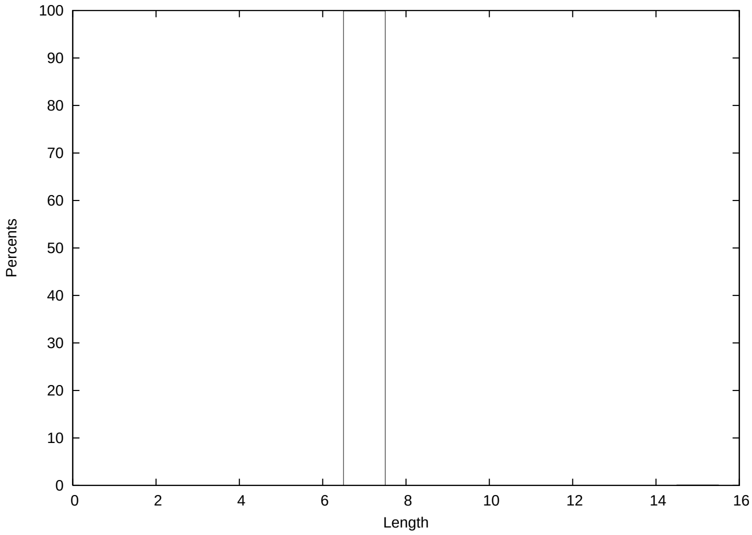
BFS Info

BFS height	67
BFS width	247 (5.7%)
Back level edges	10,039 (47.9%)

BFS level info:



Back level edges lengths:



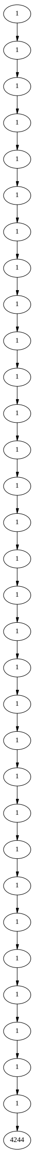
SCC Info

SCC components	32
SCC quetient height	31
SCC quetient nontrivial height	1
Number of terminal components	1
The largest component is	the only terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
4,244	1	99.2%
1	31	0.7%

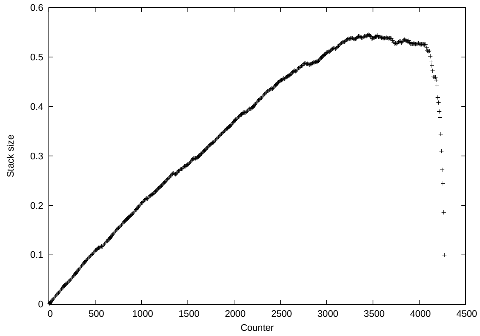
SCC component graph (part):



DFS Info

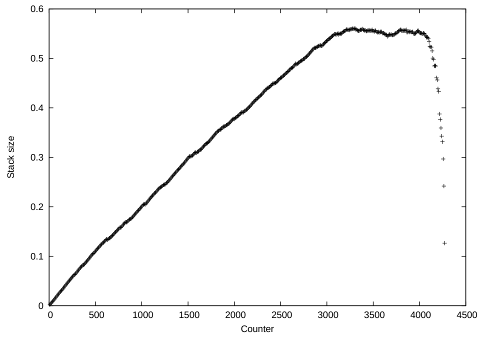
Run 0

front-edges : back-edges : cross-edges = 4,274 : 8,449 : 8,224 = 20.4%:40.3%:39.2%
Max. stack size: 2,332 (54.5%)
Shortest cycle detected: 8
Most often detected lengths of cycles: 440 (113), 224 (108), 128 (99), 64 (97), 584 (95)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 4,274 : 8,715 : 7,958 = 20.4%:41.6%:37.9%
Max. stack size: 2,399 (56.1%)
Shortest cycle detected: 8
Most often detected lengths of cycles: 408 (106), 64 (103), 184 (100), 608 (95), 56 (92)
Stack graph:



Local Structure

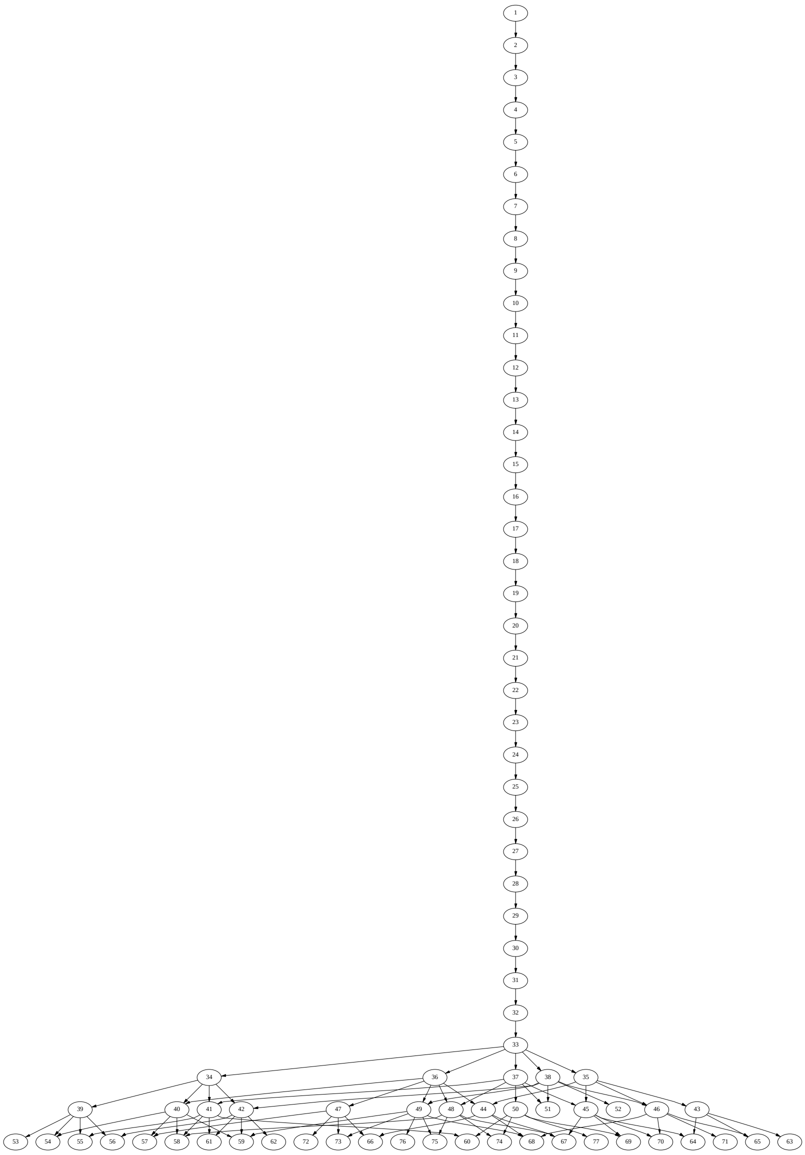
Short cycles(up to 6)
none
Diamonds

3,984 (93.1%)

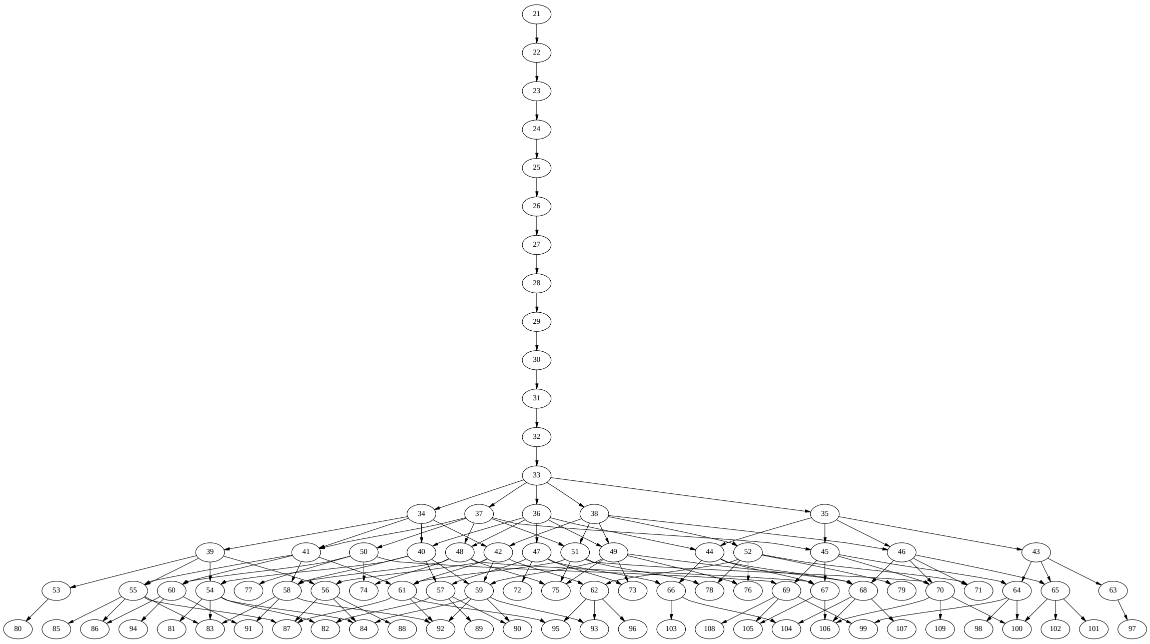
Neighborhoods

k	avg size	avg clustering
1	4.6	1.2
2	13.3	1.7
3	29.4	2.1
4	55.4	2.4

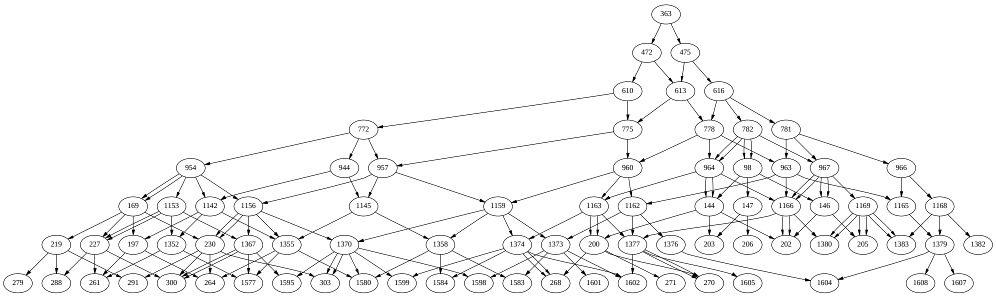
Visualization of some parts of the state state space:
Initial walk length: 0



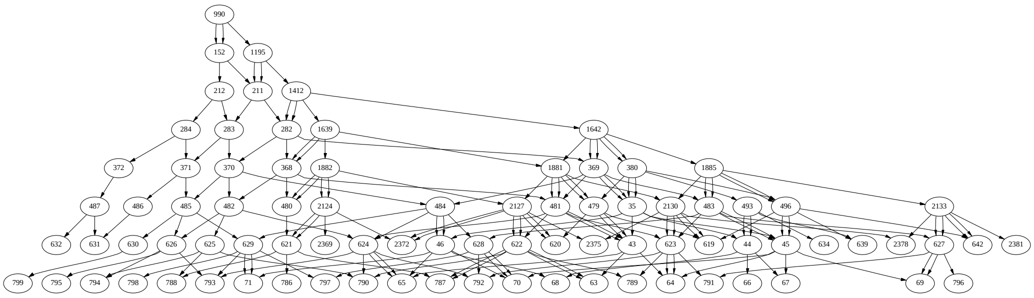
Initial walk length: 20



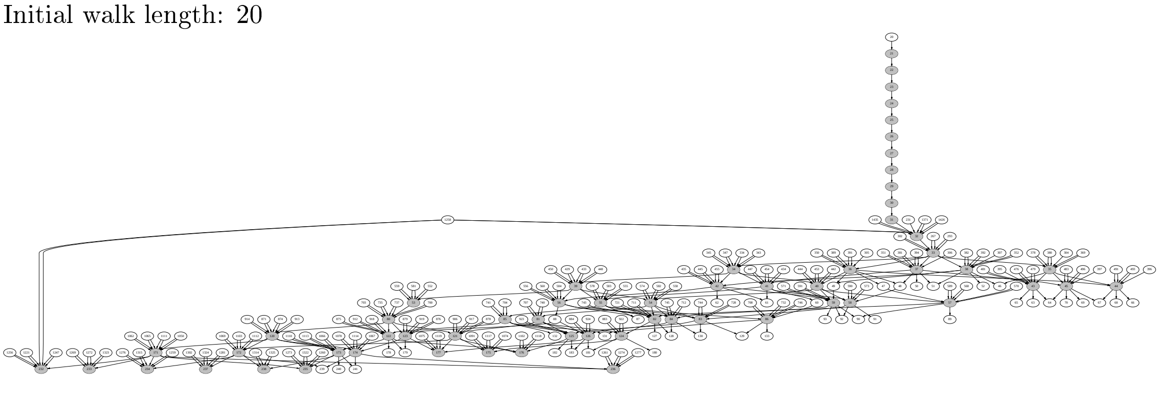
Initial walk length: 40



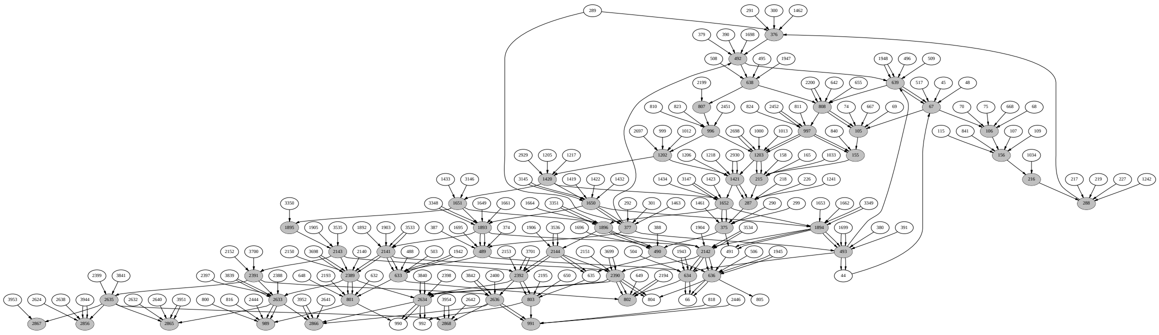
Initial walk length: 60



Initial walk length: 20



Initial walk length: 40



Initial walk length: 60