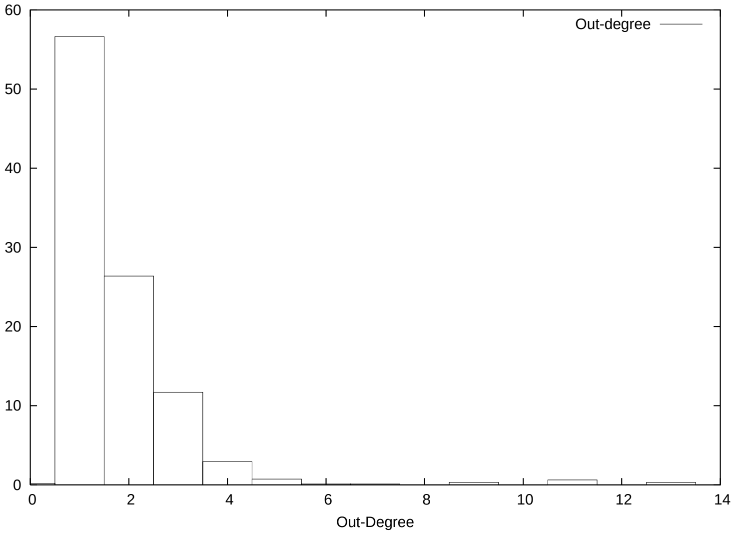
Graph: mcrl/hef_wrong

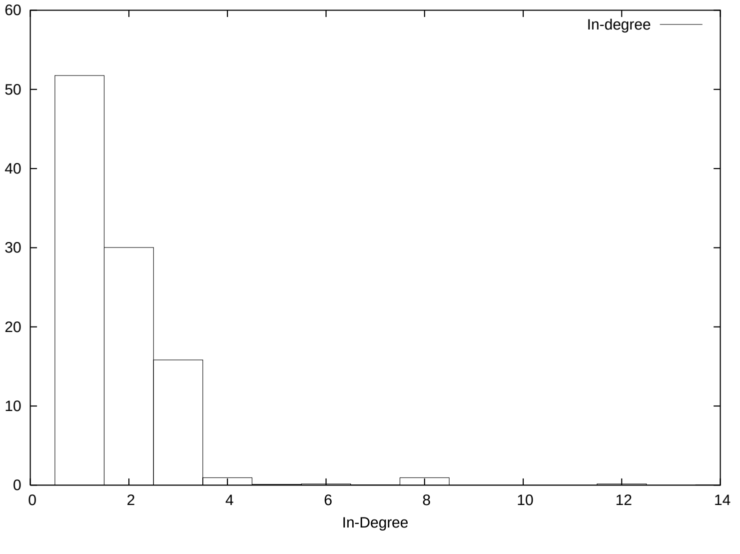
General Info

Example title	Modular hef system
Parameter	
Reduction	
Modification	
States	15,349
Edges	26,852
Average degree	1.7

Out-Degrees distribution:



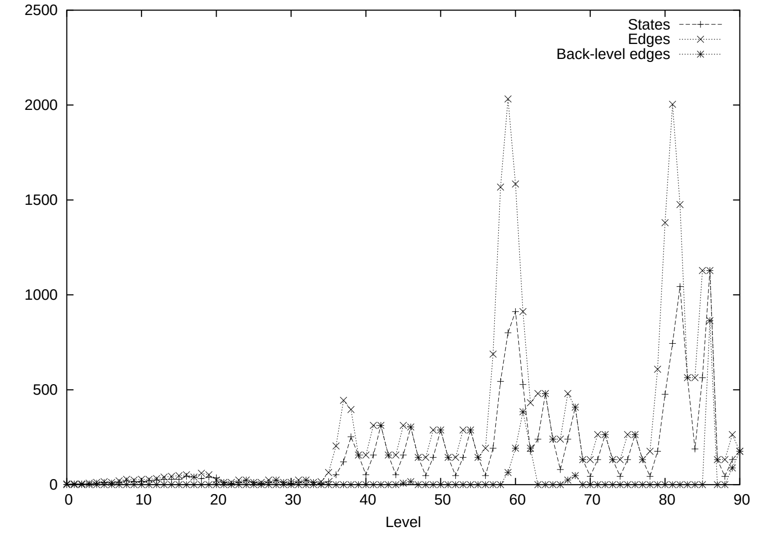
In-Degrees distribution:



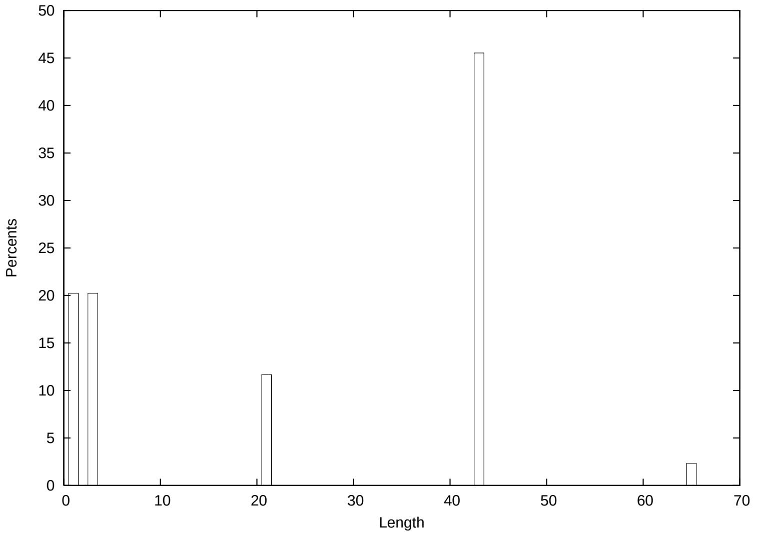
BFS Info

BFS height	90
BFS width	1,128 (7.3%)
Back level edges	2,056 (7.6%)

BFS level info:



Back level edges lengths:



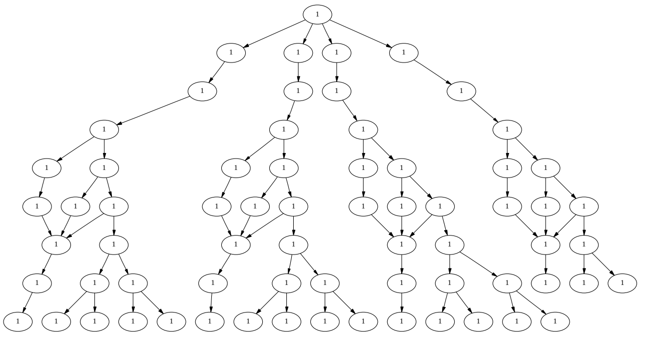
SCC Info

SCC components	473
SCC quetient height	25
SCC quetient nontrivial height	1
Number of terminal components	32
The largest component is	terminal

Statistics according to **sizes**:

Size	Number of components	Number of states here
3,720	4	96.9%
1	469	3%

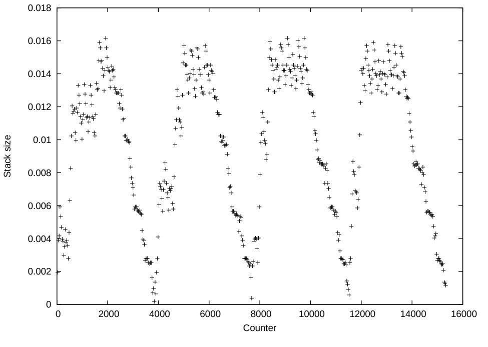
SCC component graph (part):



DFS Info

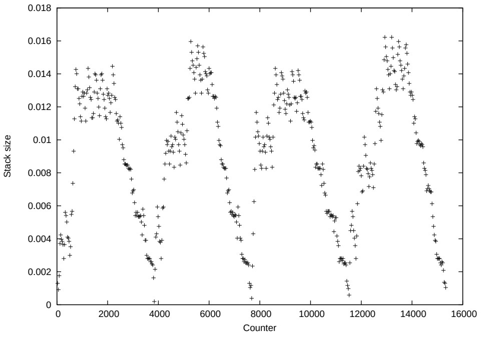
Run 0

front-edges : back-edges : cross-edges = 15,348 : 981 : 10,523 = 57.1%:3.6%:39.1%
Max. stack size: 249 (1.6%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (392), 4 (358), 44 (38), 22 (36), 66 (34)
Stack graph:



Run 1

front-edges : back-edges : cross-edges = 15,348 : 1,009 : 10,495 = 57.1%:3.7%:39%
Max. stack size: 250 (1.6%)
Shortest cycle detected: 2
Most often detected lengths of cycles: 2 (405), 4 (366), 44 (63), 22 (39), 66 (36)
Stack graph:



Local Structure

Short cycles(up to 6)

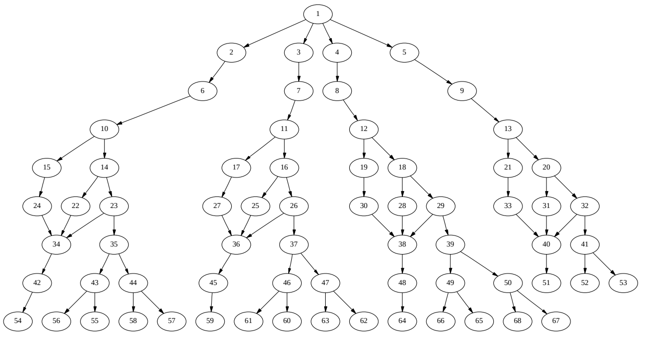
2	832	(5.4%)
3	0	(0%)
4	416	(2.7%)

Diamonds
2,588 (16.8%)

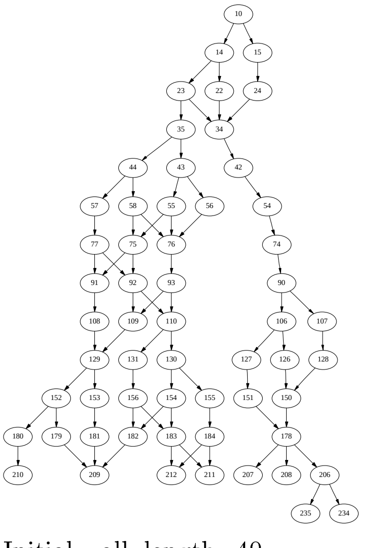
Neighborhoods

k	avg size	avg clustering
1	2.7	1
2	5.4	1
3	9.3	1.1
4	14.9	1.1

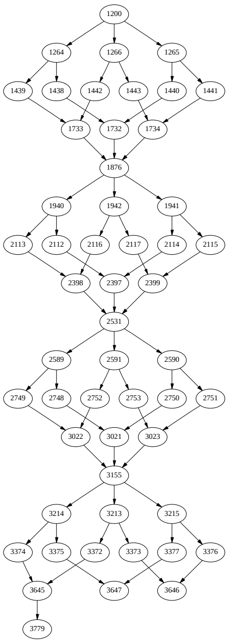
Visualization of some parts of the state state space:
Initial walk length: 0



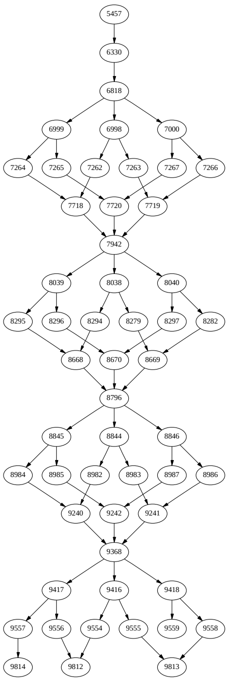
Initial walk length: 20



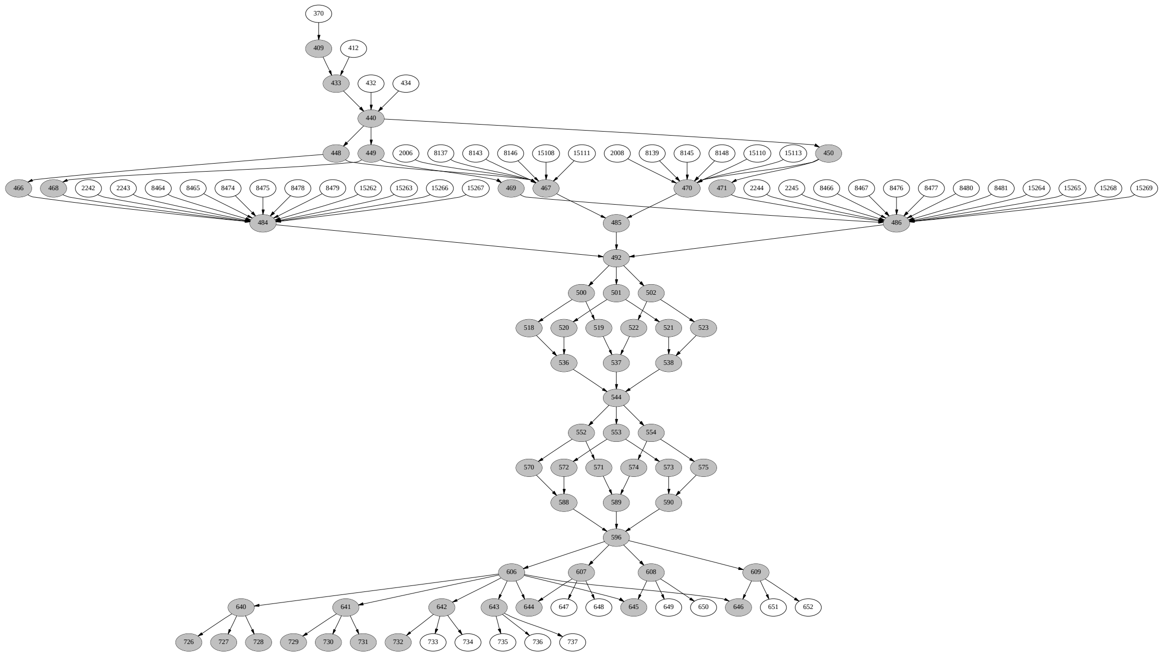
Initial walk length: 40



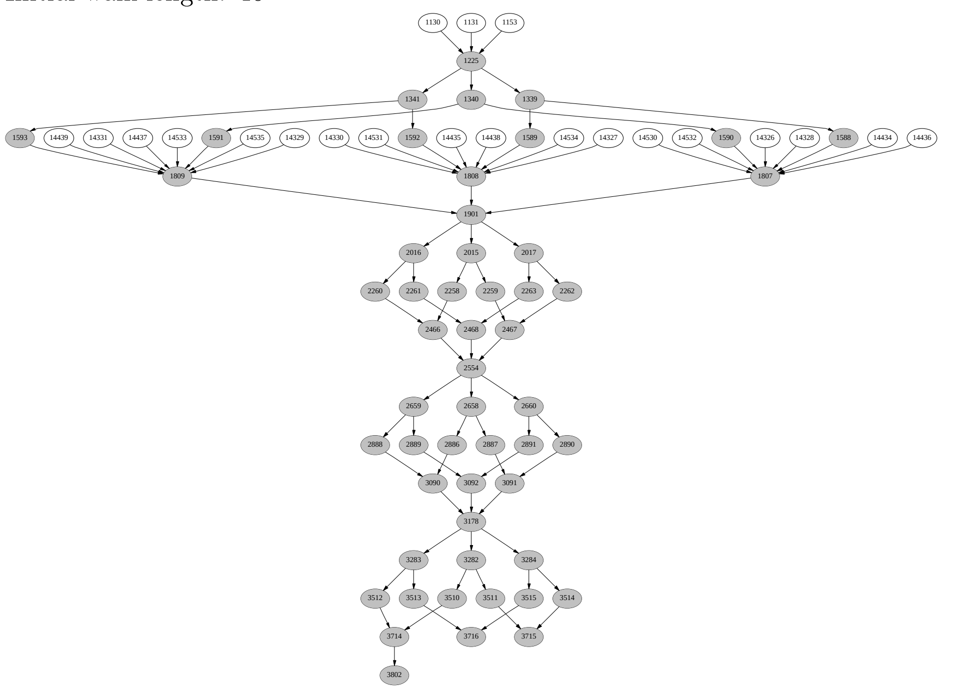
Initial walk length: 60



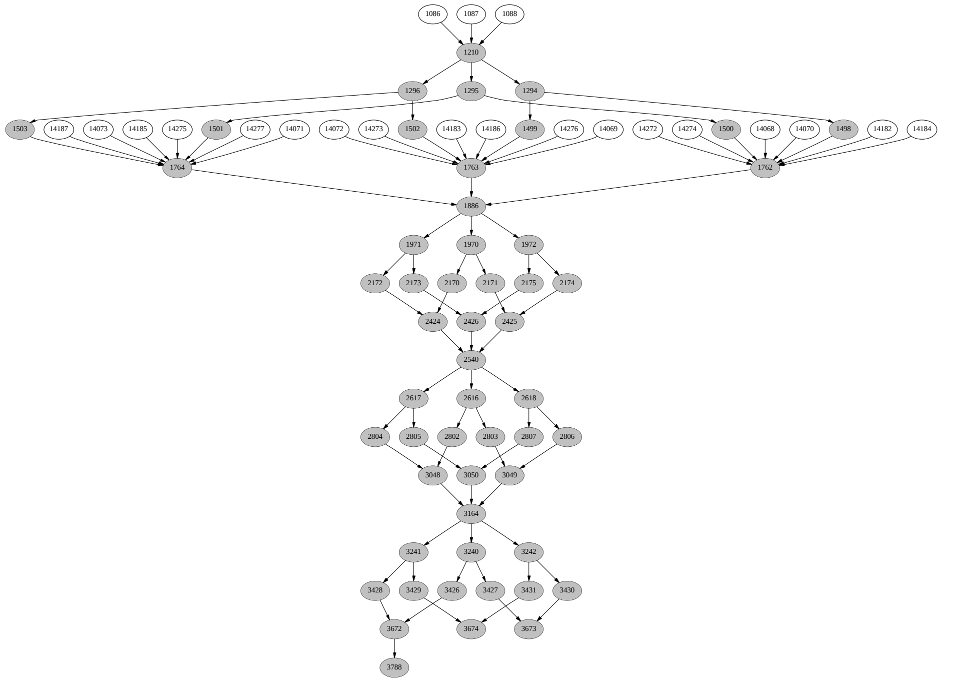
Initial walk length: 20



Initial walk length: 40



Initial walk length: 60


1086
1087
1088
1210
1296
1295
1294
1503
14187
14073
14185
14275
1501
14277
14071
14072
14273
1502
14183
14186
1499
14276
14069
14272
14274
1500
14068
14070
1498
14182
14184
1764
1763
1762
1886
1971
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1972
2172
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