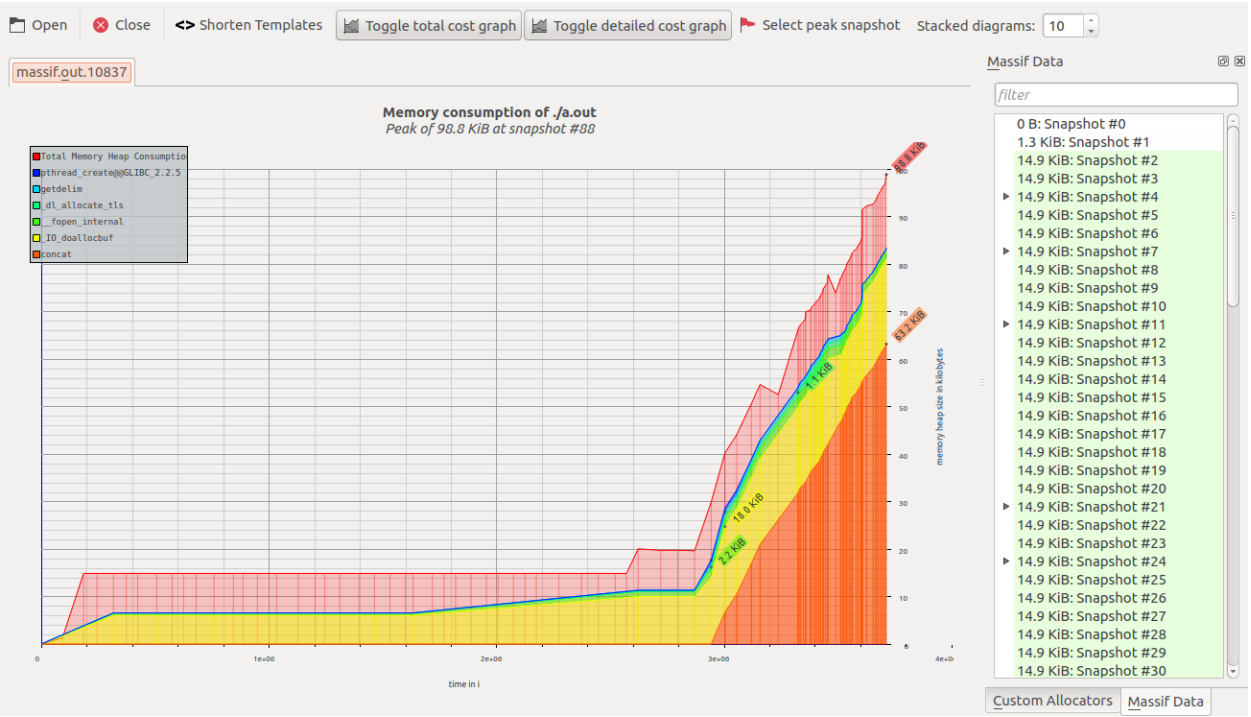
Comparison Report

No of Crawlers	No of Users	No of Hashtags	Memory Usage	
			Program using Processes(KiB)	Program using Threads (KiB)
2	2	2	142.6	98.8
2	3	2	210.9	181.2
3	2	2	157.2	109.3
3	3	2	250.9	111.2
4	2	2	177	129.3
4	3	2	296.3	229

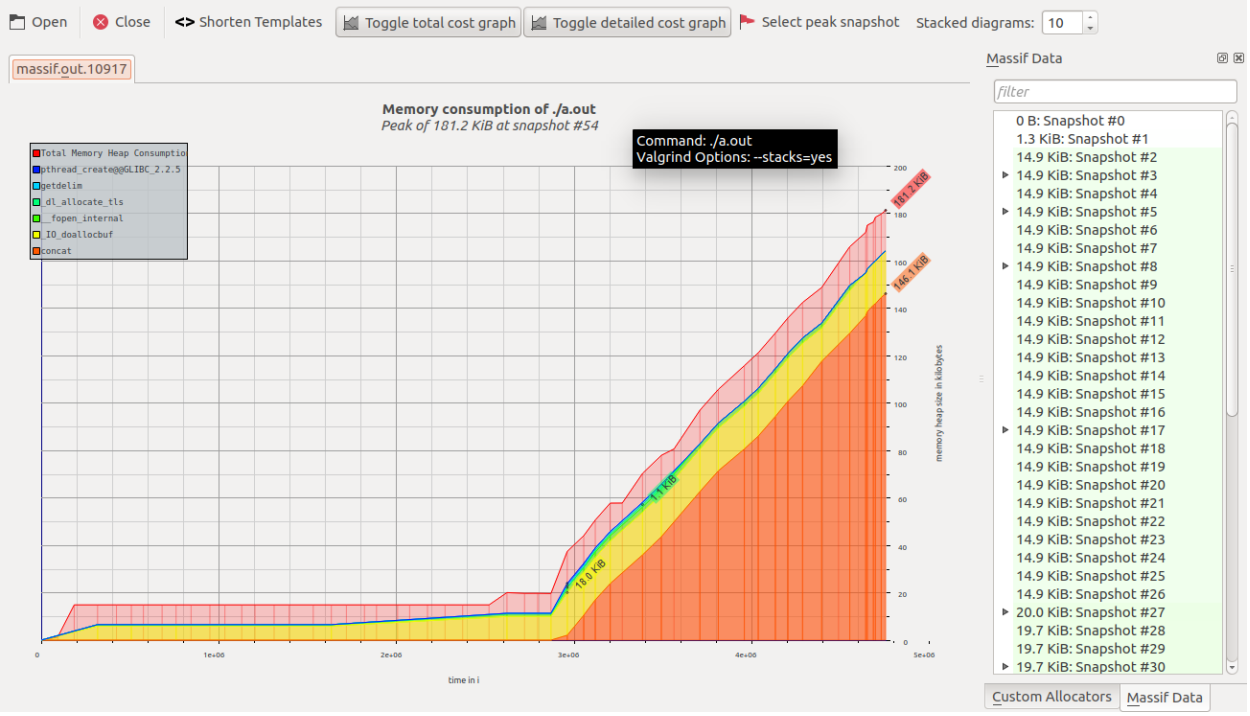
No of Crawlers	No of Users	No of Hashtags	Execution Time			
			Program using Processes	Program using Threads		
			Real (sec)	Real (sec)	User (sec)	Sys (sec)
2	2	2	22	18.351	2.064	0.204
2	3	2	29	18.505	2.84	0.304
3	2	2	23	18.602	2.328	0.316
3	3	2	26	24.95	2.692	0.3
4	2	2	23	20.992	2.632	0.34
4	3	2	30	27.03	2.764s	0.292

Program using Threads

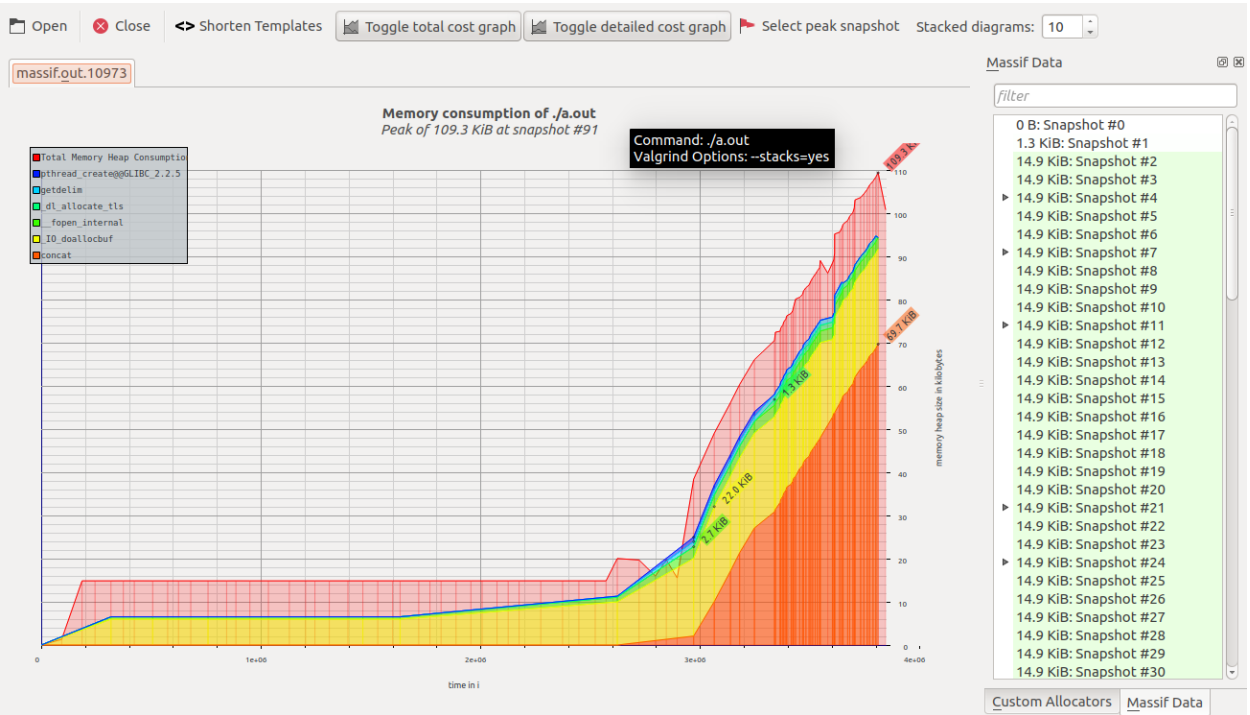
No of Crawler Processes = 2 No of Users = 2 No of Hashtags = 2



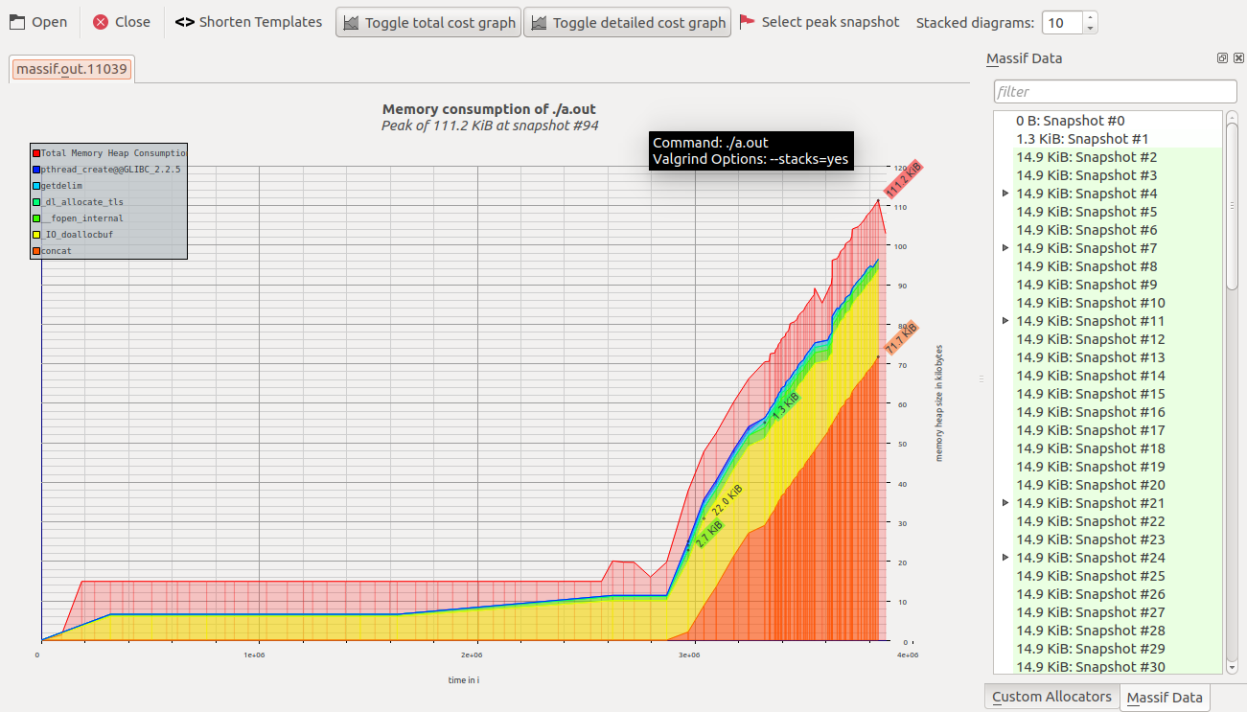
No of Crawler Processes = 2 No of Users = 3 No of Hashtags = 2



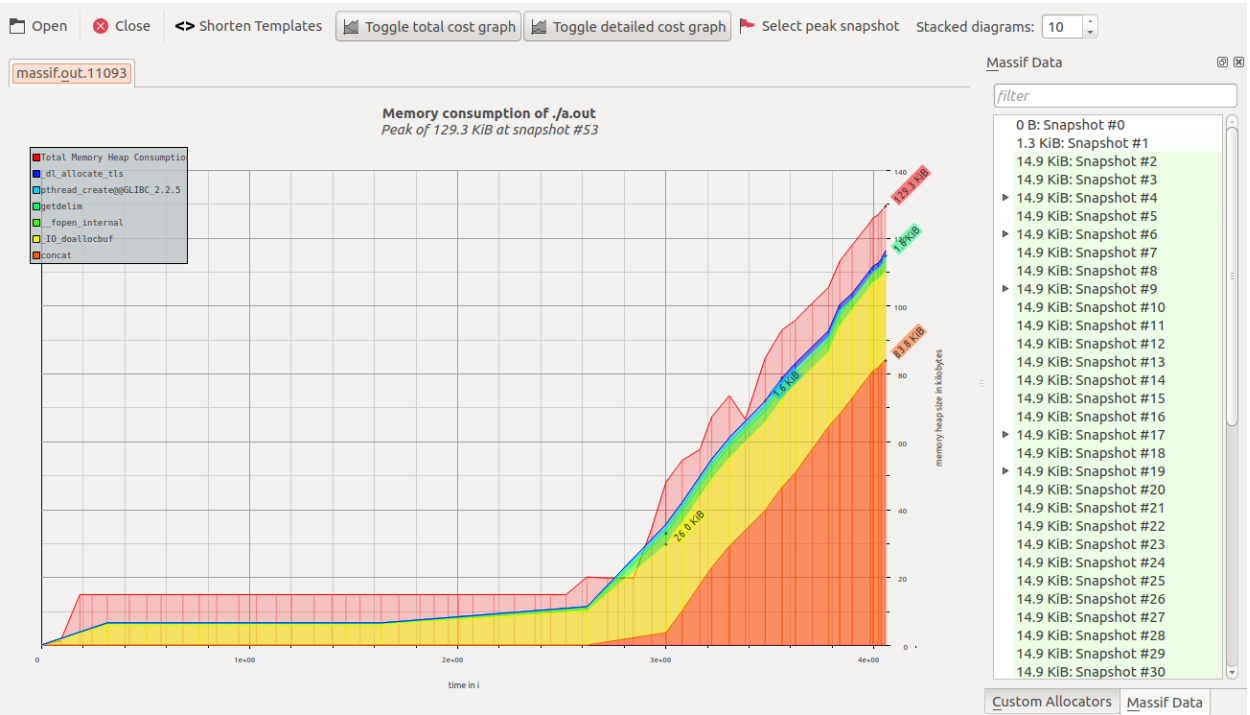
No of Crawler Processes = 3 No of Users = 2 No of Hashtags = 2



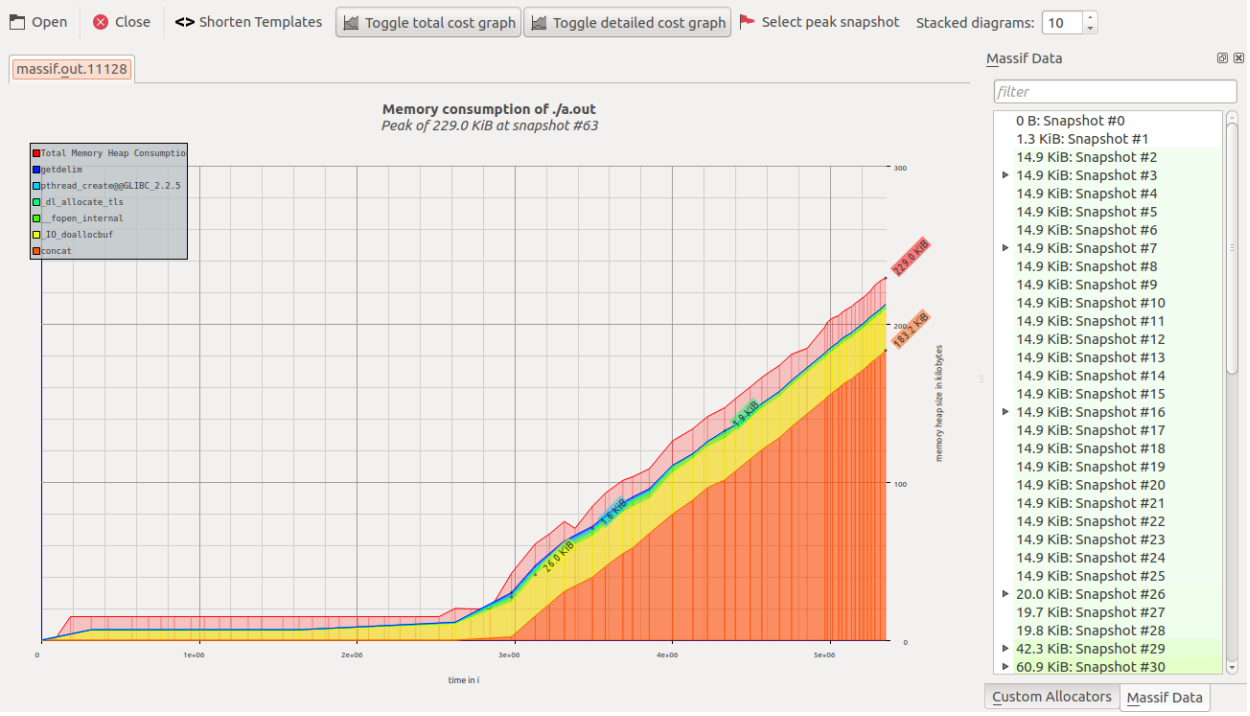
No of Crawler Processes = 3 No of Users = 3 No of Hashtags = 2



No of Crawler Processes = 4 No of Users = 2 No of Hashtags = 2

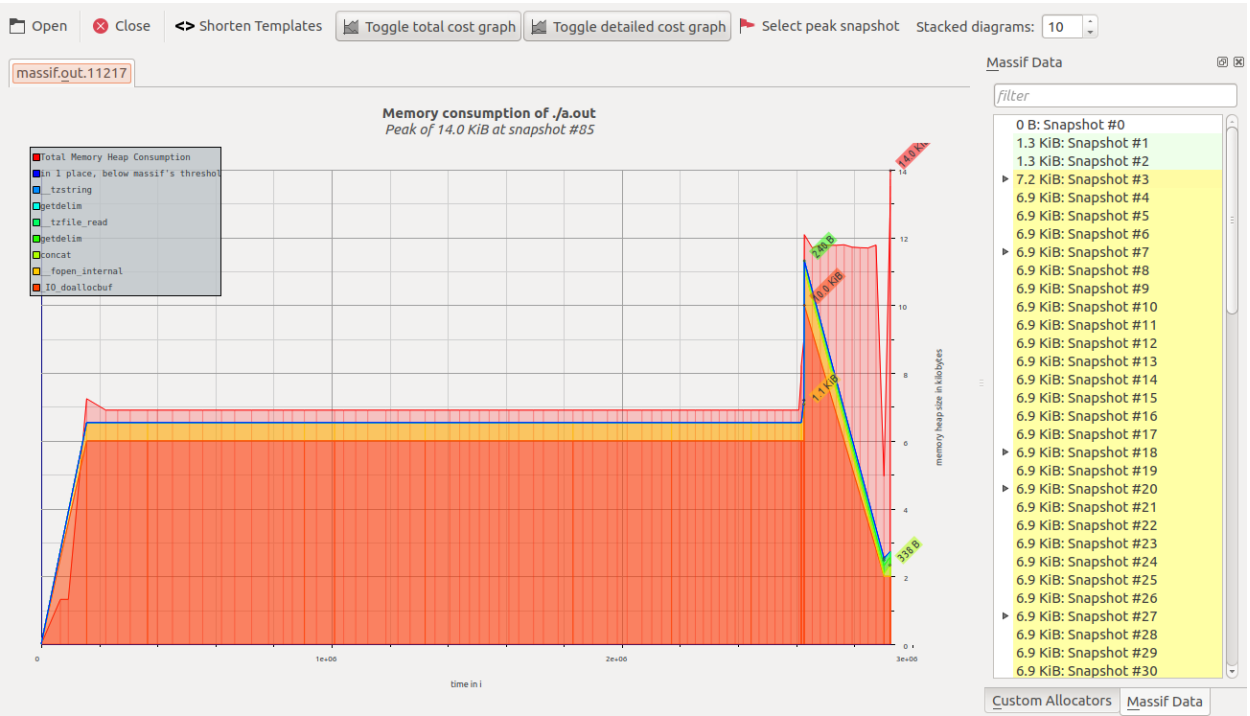


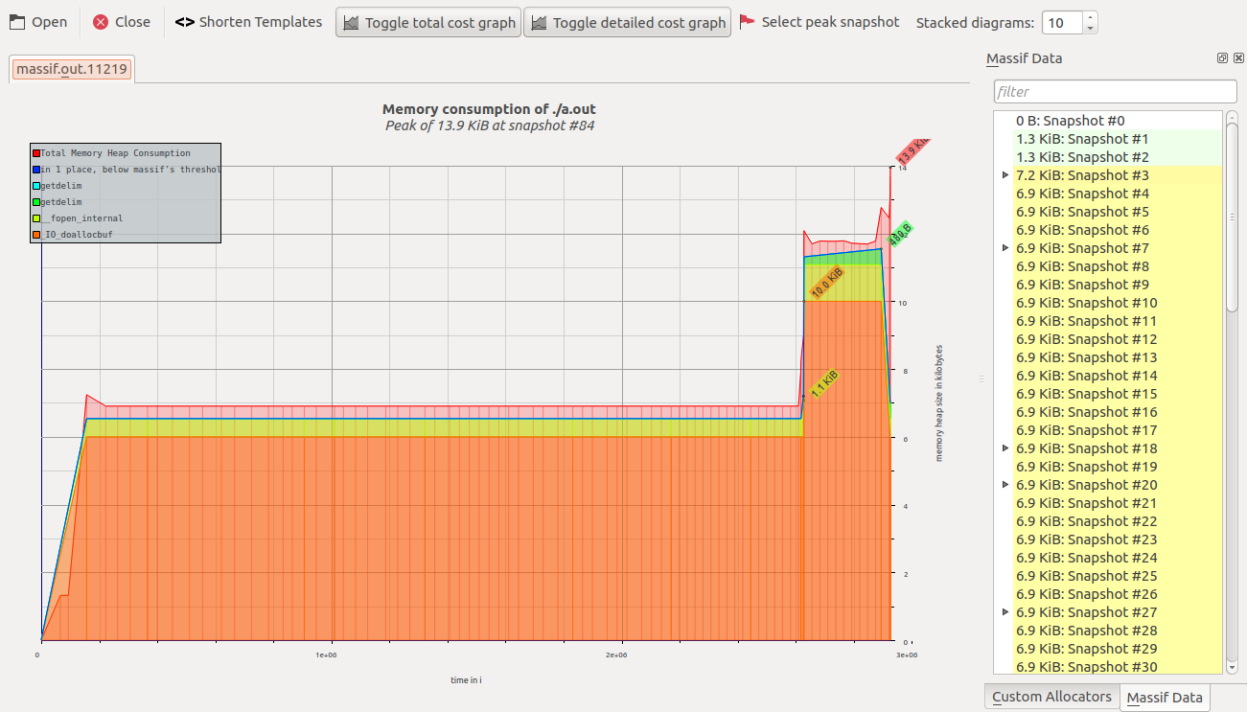
No of Crawler Processes = 4 No of Users = 3 No of Hashtags = 2

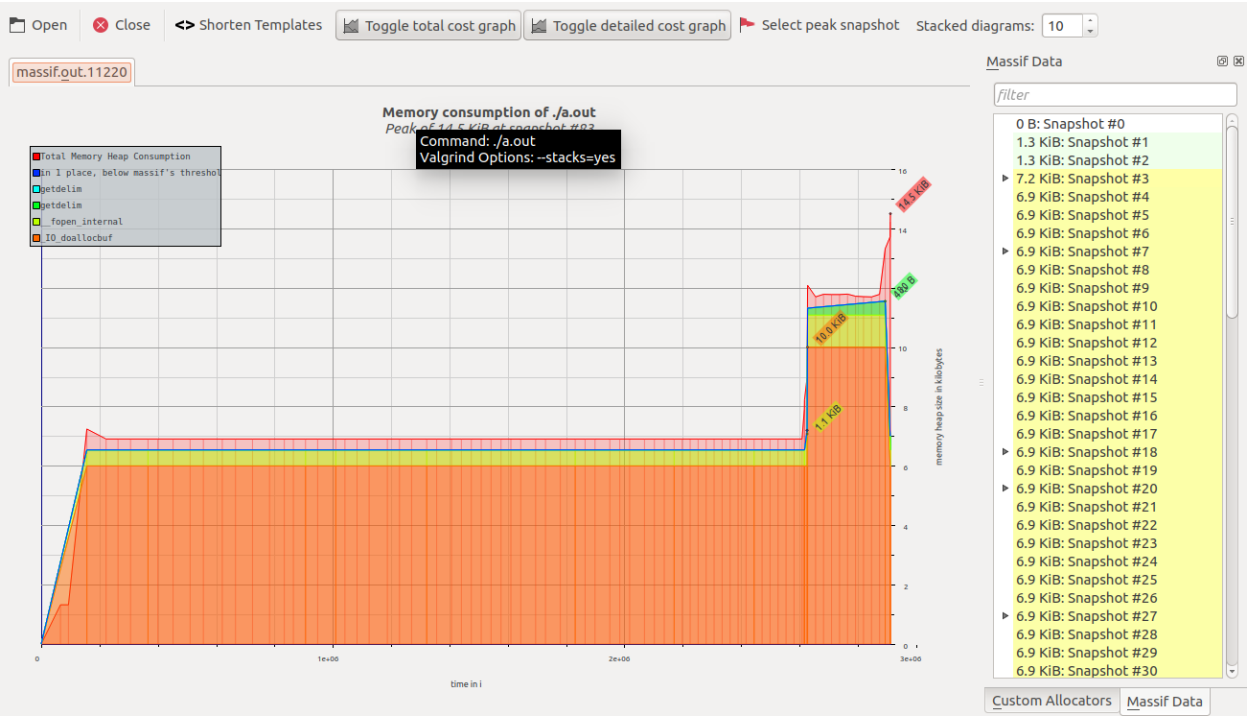


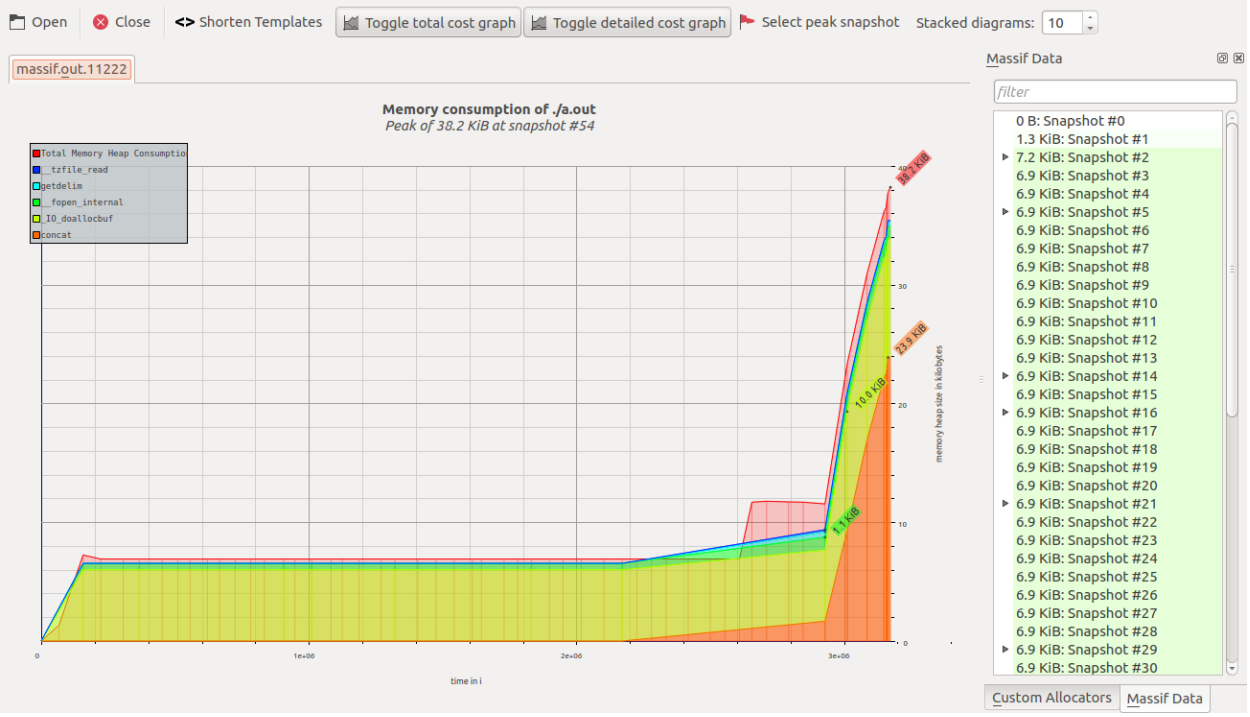
Program Using Processes

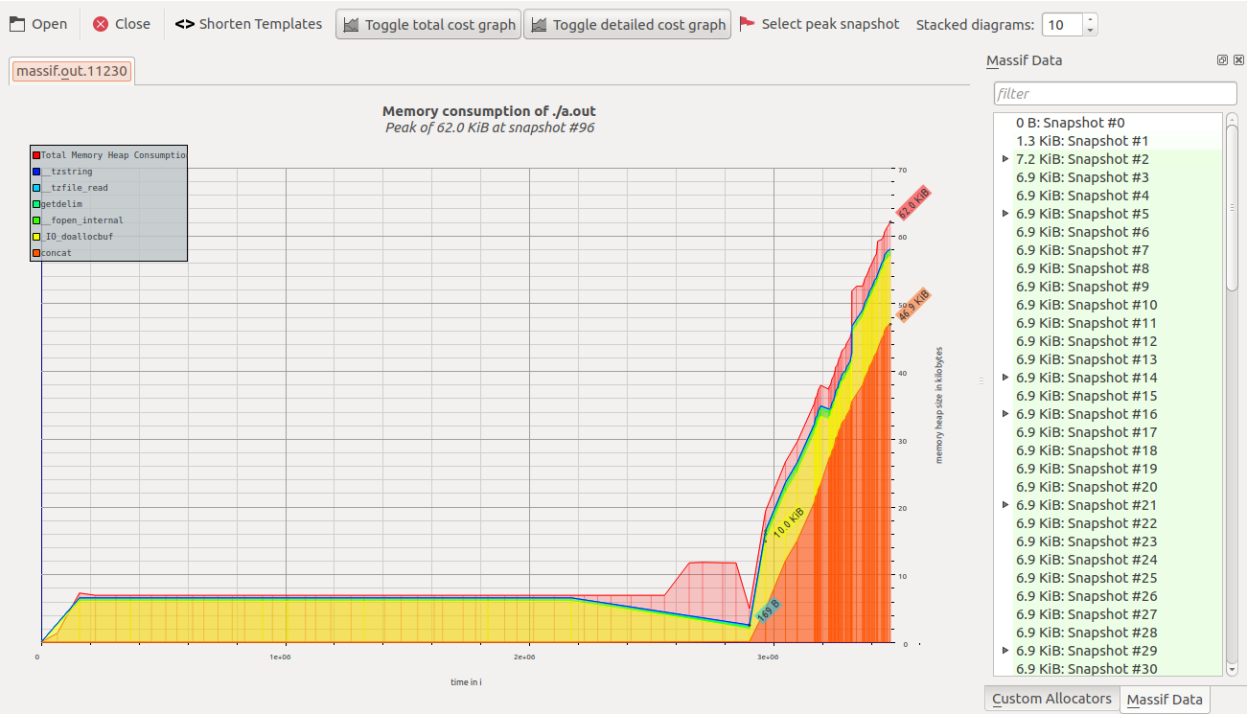
No of Crawler Processes = 2 No of Users = 2 No of Hashtags = 2




Open
Close
<> Shorten Templates
Toggle total cost graph
Toggle detailed cost graph
Select peak snapshot
Stacked diagrams: 10
massif.out.11219
Memory consumption of ./a.out
Peak of 13.9 KiB at snapshot #84
Total Memory Heap Consumption
in 1 place, below massif's threshol
getdelim
getdelim
__fopen_internal
IO_doallocbuf
13.9 KiB
10.0 KiB
1.1 KiB
memory heap size in kilobytes
time in i
Massif Data
filter
0 B: Snapshot #0
1.3 KiB: Snapshot #1
1.3 KiB: Snapshot #2
7.2 KiB: Snapshot #3
6.9 KiB: Snapshot #4
6.9 KiB: Snapshot #5
6.9 KiB: Snapshot #6
6.9 KiB: Snapshot #7
6.9 KiB: Snapshot #8
6.9 KiB: Snapshot #9
6.9 KiB: Snapshot #10
6.9 KiB: Snapshot #11
6.9 KiB: Snapshot #12
6.9 KiB: Snapshot #13
6.9 KiB: Snapshot #14
6.9 KiB: Snapshot #15
6.9 KiB: Snapshot #16
6.9 KiB: Snapshot #17
6.9 KiB: Snapshot #18
6.9 KiB: Snapshot #19
6.9 KiB: Snapshot #20
6.9 KiB: Snapshot #21
6.9 KiB: Snapshot #22
6.9 KiB: Snapshot #23
6.9 KiB: Snapshot #24
6.9 KiB: Snapshot #25
6.9 KiB: Snapshot #26
6.9 KiB: Snapshot #27
6.9 KiB: Snapshot #28
6.9 KiB: Snapshot #29
6.9 KiB: Snapshot #30
Custom Allocators
Massif Data


Open
Close
<> Shorten Templates
Toggle total cost graph
Toggle detailed cost graph
Select peak snapshot
Stacked diagrams: 10
massif.out.11220
Memory consumption of ./a.out
Command: ./a.out
Valgrind Options: --stacks=yes
Total Memory Heap Consumption
in 1 place, below massif's threshol
getdelim
getdelim
__fopen_internal
IO_doallocbuf
14.5 KiB
10.0 KiB
1.1 KiB
memory heap size in kilobytes
time in i
Massif Data
filter
0 B: Snapshot #0
1.3 KiB: Snapshot #1
1.3 KiB: Snapshot #2
7.2 KiB: Snapshot #3
6.9 KiB: Snapshot #4
6.9 KiB: Snapshot #5
6.9 KiB: Snapshot #6
6.9 KiB: Snapshot #7
6.9 KiB: Snapshot #8
6.9 KiB: Snapshot #9
6.9 KiB: Snapshot #10
6.9 KiB: Snapshot #11
6.9 KiB: Snapshot #12
6.9 KiB: Snapshot #13
6.9 KiB: Snapshot #14
6.9 KiB: Snapshot #15
6.9 KiB: Snapshot #16
6.9 KiB: Snapshot #17
6.9 KiB: Snapshot #18
6.9 KiB: Snapshot #19
6.9 KiB: Snapshot #20
6.9 KiB: Snapshot #21
6.9 KiB: Snapshot #22
6.9 KiB: Snapshot #23
6.9 KiB: Snapshot #24
6.9 KiB: Snapshot #25
6.9 KiB: Snapshot #26
6.9 KiB: Snapshot #27
6.9 KiB: Snapshot #28
6.9 KiB: Snapshot #29
6.9 KiB: Snapshot #30
Custom Allocators
Massif Data


Open
Close
<> Shorten Templates
Toggle total cost graph
Toggle detailed cost graph
Select peak snapshot
Stacked diagrams: 10
massif.out.11222
Memory consumption of ./a.out
Peak of 38.2 KiB at snapshot #54
Total Memory Heap Consumptio
__tzfile_read
getdelim
__fopen_internal
_IO_doallocbuf
concat
38.2 KiB
23.3 KiB
10.0 KiB
1.1 KiB
memory heap size in kilobytes
time in i
Massif Data
filter
0 B: Snapshot #0
1.3 KiB: Snapshot #1
7.2 KiB: Snapshot #2
6.9 KiB: Snapshot #3
6.9 KiB: Snapshot #4
6.9 KiB: Snapshot #5
6.9 KiB: Snapshot #6
6.9 KiB: Snapshot #7
6.9 KiB: Snapshot #8
6.9 KiB: Snapshot #9
6.9 KiB: Snapshot #10
6.9 KiB: Snapshot #11
6.9 KiB: Snapshot #12
6.9 KiB: Snapshot #13
6.9 KiB: Snapshot #14
6.9 KiB: Snapshot #15
6.9 KiB: Snapshot #16
6.9 KiB: Snapshot #17
6.9 KiB: Snapshot #18
6.9 KiB: Snapshot #19
6.9 KiB: Snapshot #20
6.9 KiB: Snapshot #21
6.9 KiB: Snapshot #22
6.9 KiB: Snapshot #23
6.9 KiB: Snapshot #24
6.9 KiB: Snapshot #25
6.9 KiB: Snapshot #26
6.9 KiB: Snapshot #27
6.9 KiB: Snapshot #28
6.9 KiB: Snapshot #29
6.9 KiB: Snapshot #30
Custom Allocators
Massif Data


Open
Close
<> Shorten Templates
Toggle total cost graph
Toggle detailed cost graph
Select peak snapshot
Stacked diagrams: 10
massif.out.11230
Memory consumption of ./a.out
Peak of 62.0 KiB at snapshot #96
Total Memory Heap Consumptio
__tzstring
__tzfile_read
getdelim
__fopen_internal
_IO_doallocbuf
concat
62.0 KiB
46.5 KiB
10.0 KiB
168 B
memory heap size in kilobytes
time in i
Massif Data
filter
0 B: Snapshot #0
1.3 KiB: Snapshot #1
7.2 KiB: Snapshot #2
6.9 KiB: Snapshot #3
6.9 KiB: Snapshot #4
6.9 KiB: Snapshot #5
6.9 KiB: Snapshot #6
6.9 KiB: Snapshot #7
6.9 KiB: Snapshot #8
6.9 KiB: Snapshot #9
6.9 KiB: Snapshot #10
6.9 KiB: Snapshot #11
6.9 KiB: Snapshot #12
6.9 KiB: Snapshot #13
6.9 KiB: Snapshot #14
6.9 KiB: Snapshot #15
6.9 KiB: Snapshot #16
6.9 KiB: Snapshot #17
6.9 KiB: Snapshot #18
6.9 KiB: Snapshot #19
6.9 KiB: Snapshot #20
6.9 KiB: Snapshot #21
6.9 KiB: Snapshot #22
6.9 KiB: Snapshot #23
6.9 KiB: Snapshot #24
6.9 KiB: Snapshot #25
6.9 KiB: Snapshot #26
6.9 KiB: Snapshot #27
6.9 KiB: Snapshot #28
6.9 KiB: Snapshot #29
6.9 KiB: Snapshot #30
Custom Allocators
Massif Data