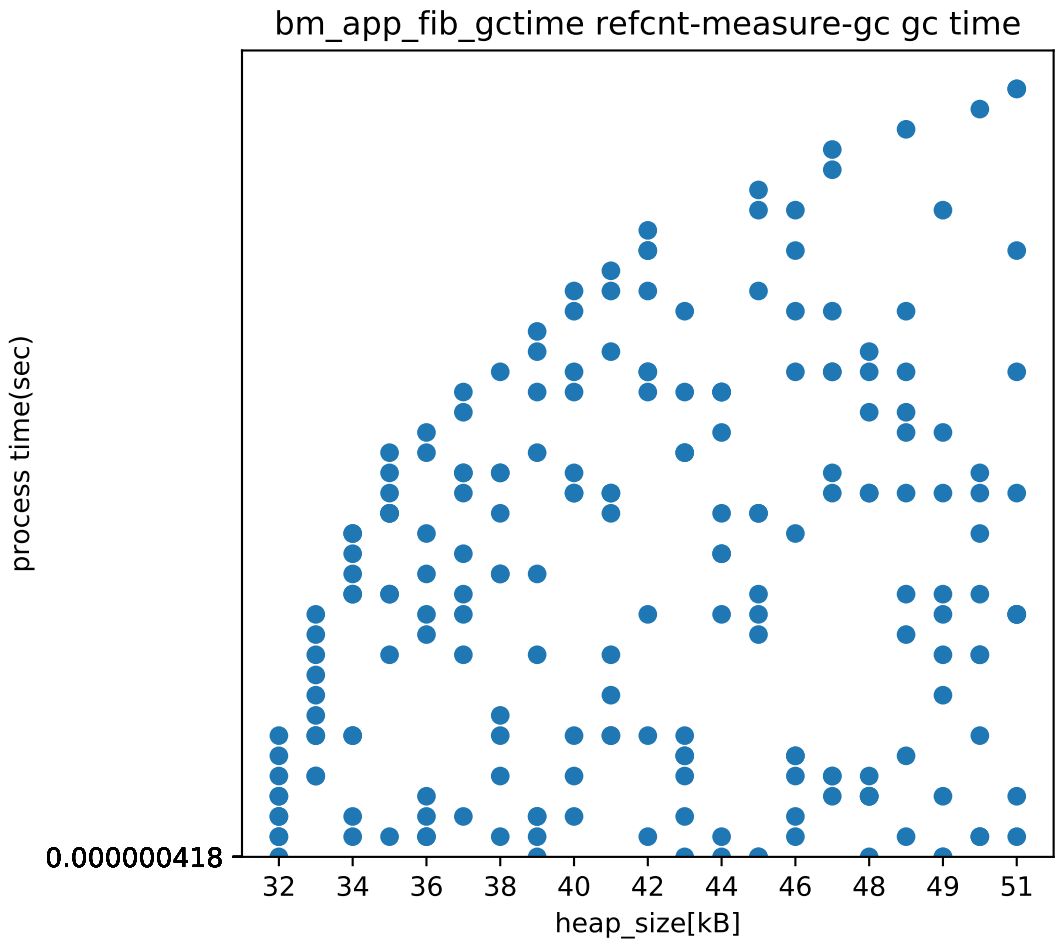
bm_app_fib_gctime refcnt-measure-gc gc time
process time(sec)
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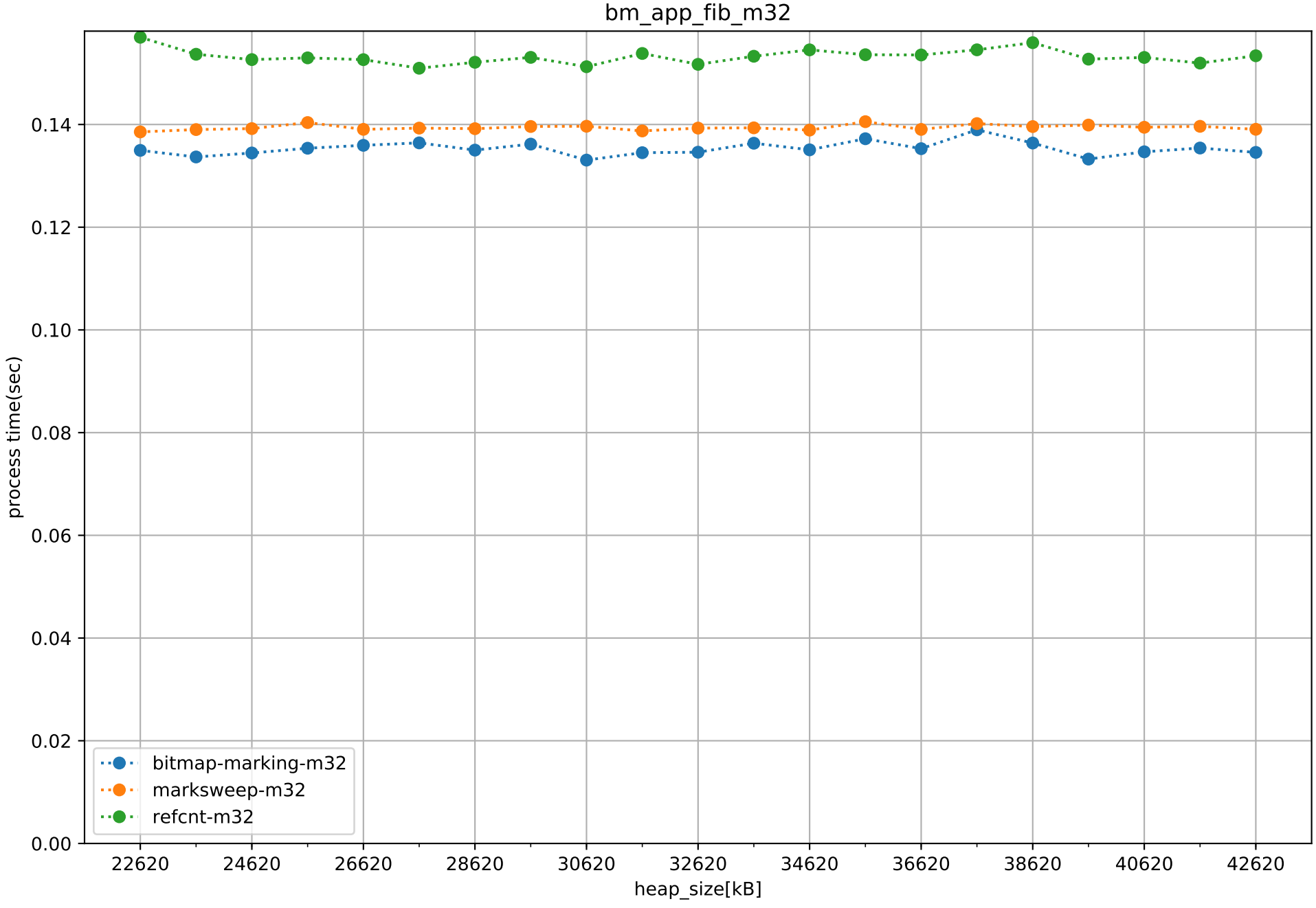
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process time(sec)
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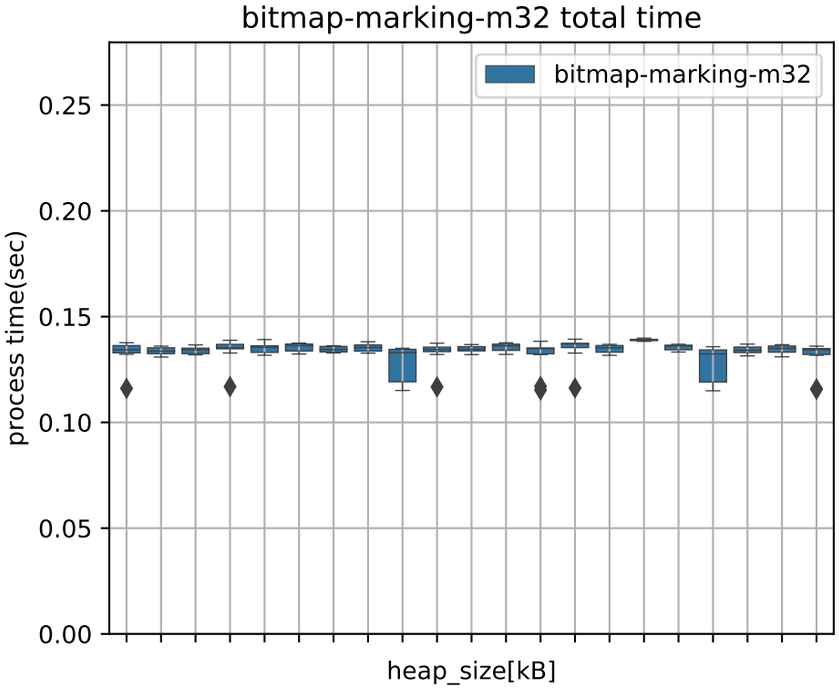
0.04
0.06
0.08
0.10
0.12
0.14
22620
24620
26620
28620
30620
32620
34620
36620
38620
40620
42620
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32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process time(sec)
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0.10
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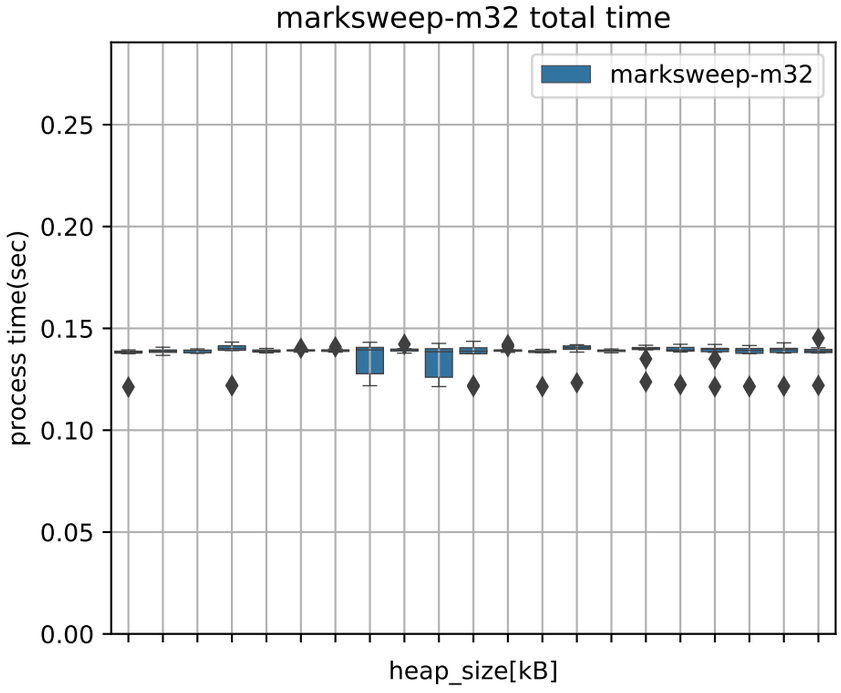
heap_size[kB]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process time(sec)
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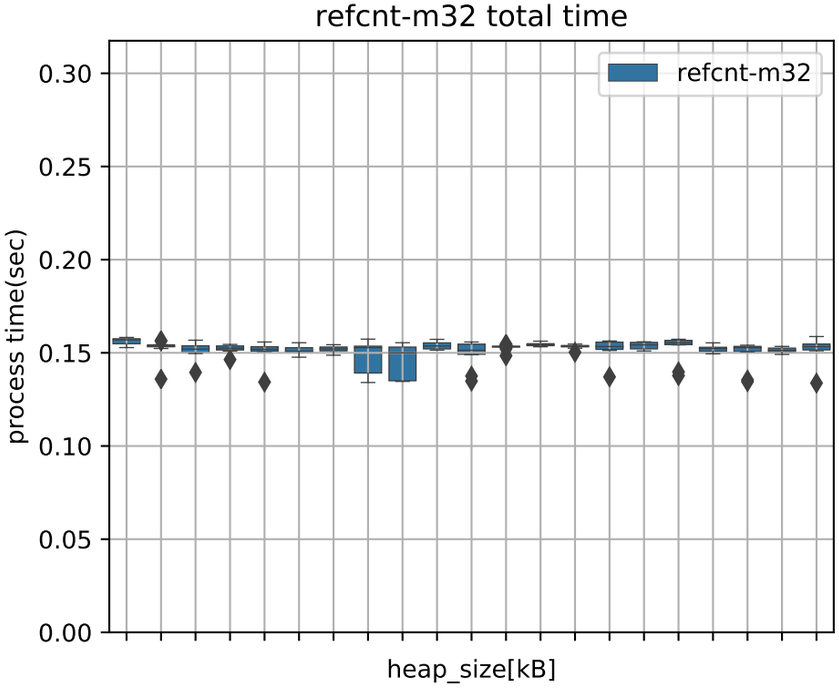
refcnt-m32 total time
refcnt-m32
process time(sec)
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0.20
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0.30
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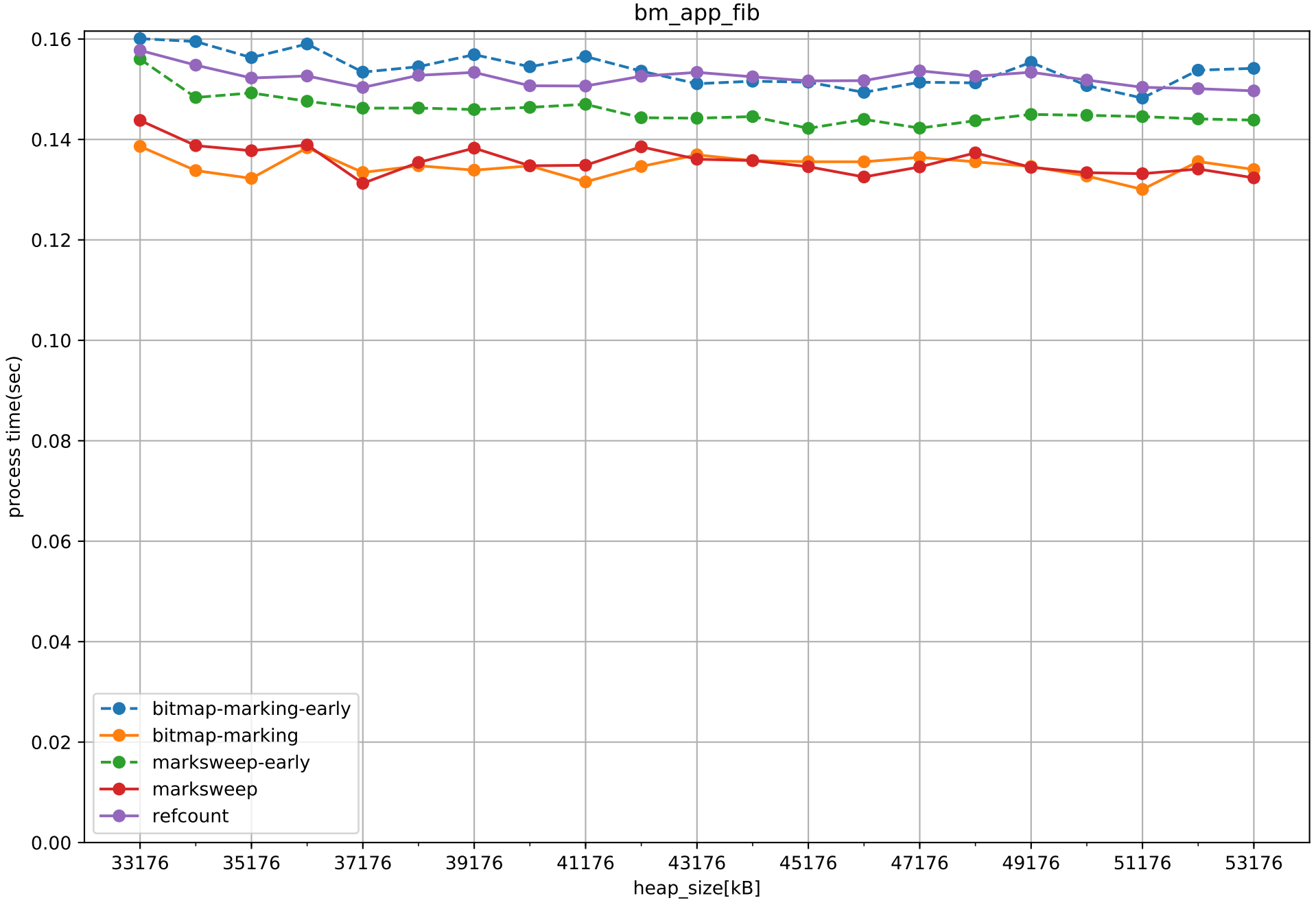
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0.12
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0.04
0.02
0.00
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35176
37176
39176
41176
43176
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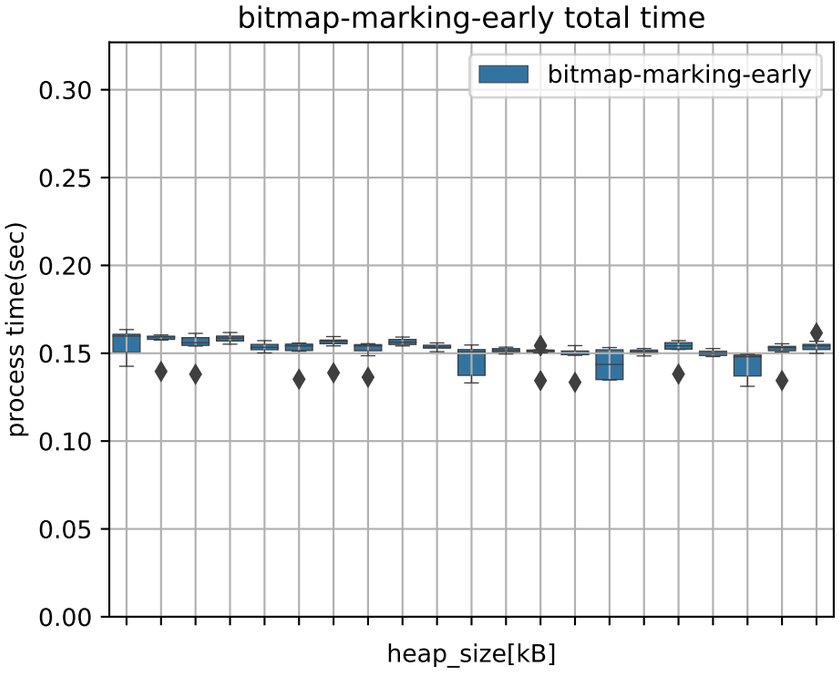
51176
53176
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount


bitmap-marking-early total time
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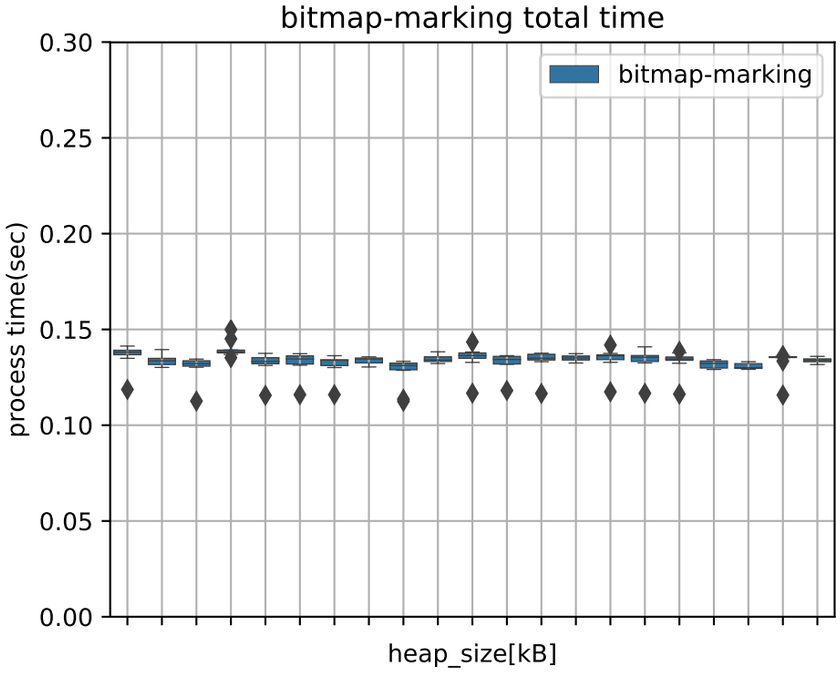
0.30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process time(sec)
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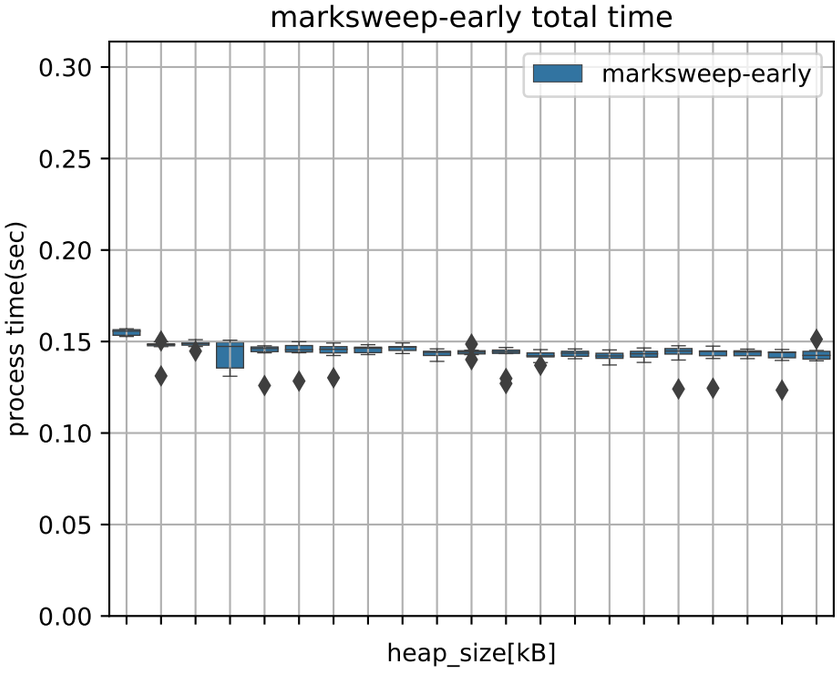
marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]
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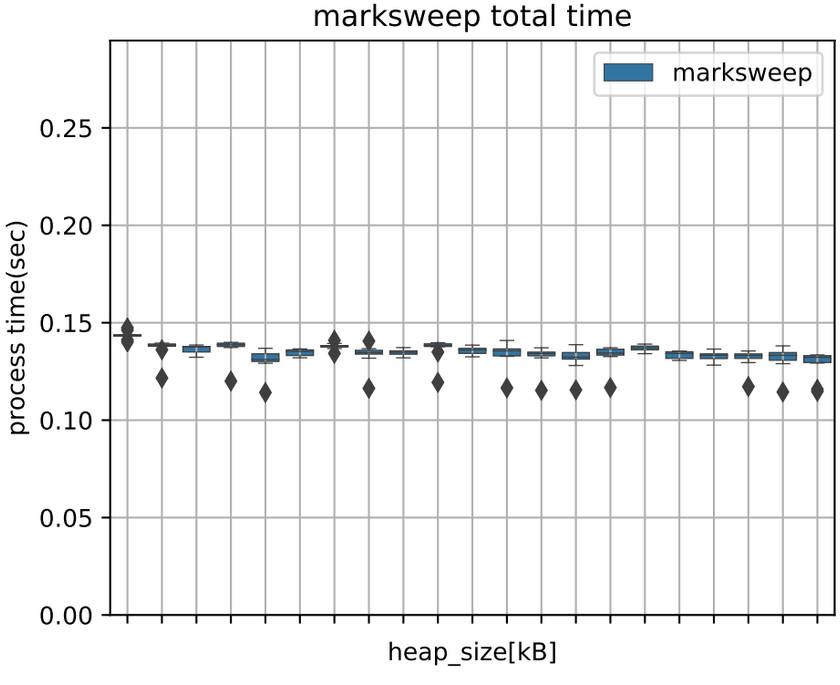
0.20
0.25
0.30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marksweep
process time(sec)
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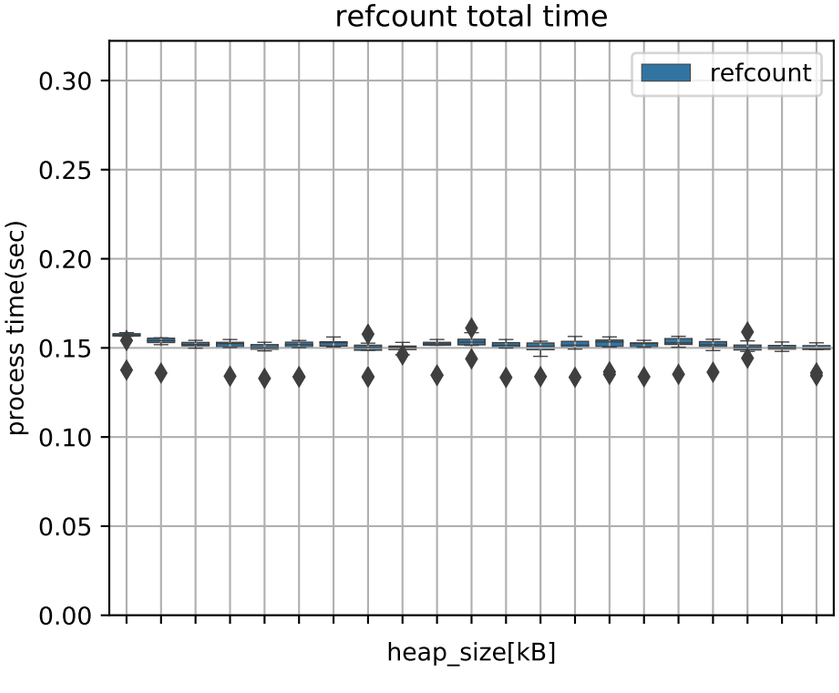
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refcount
process time(sec)
heap_size[kB]
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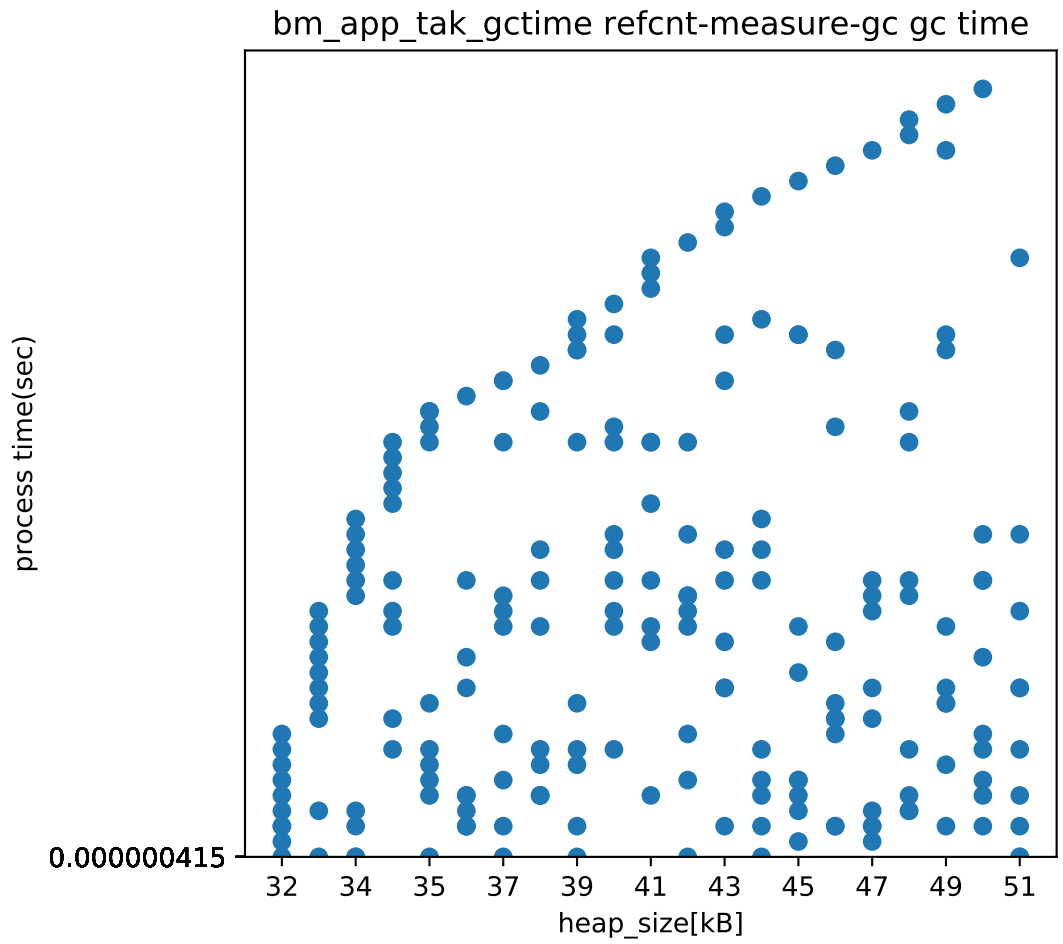
bm_app_tak_gctime refcnt-measure-gc gc time
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34
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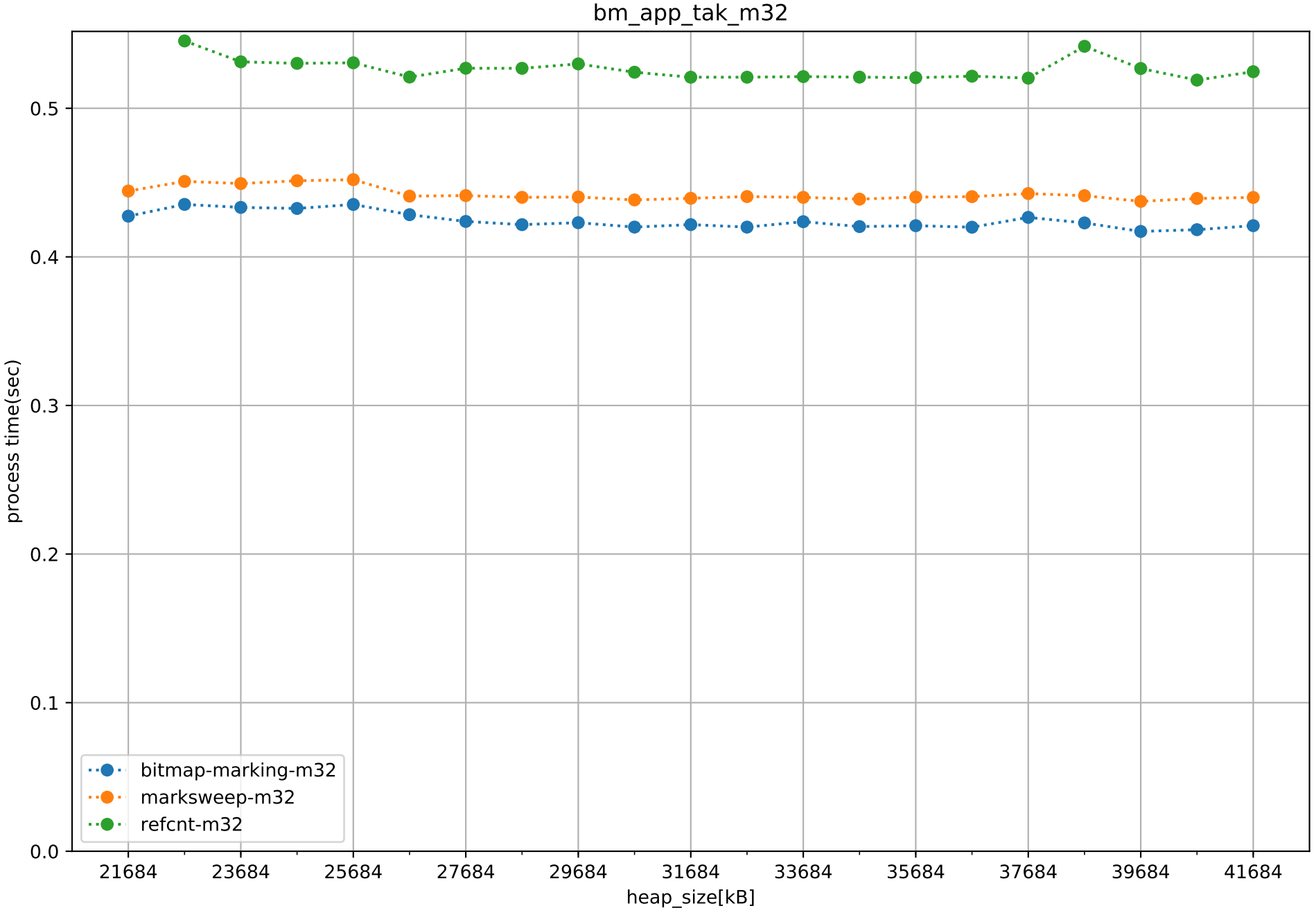
37
39
41
43
45
47
49
51
heap_size[kB]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0.1
0.2
0.3
0.4
0.5
21684
23684
25684
27684
29684
31684
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35684
37684
39684
41684
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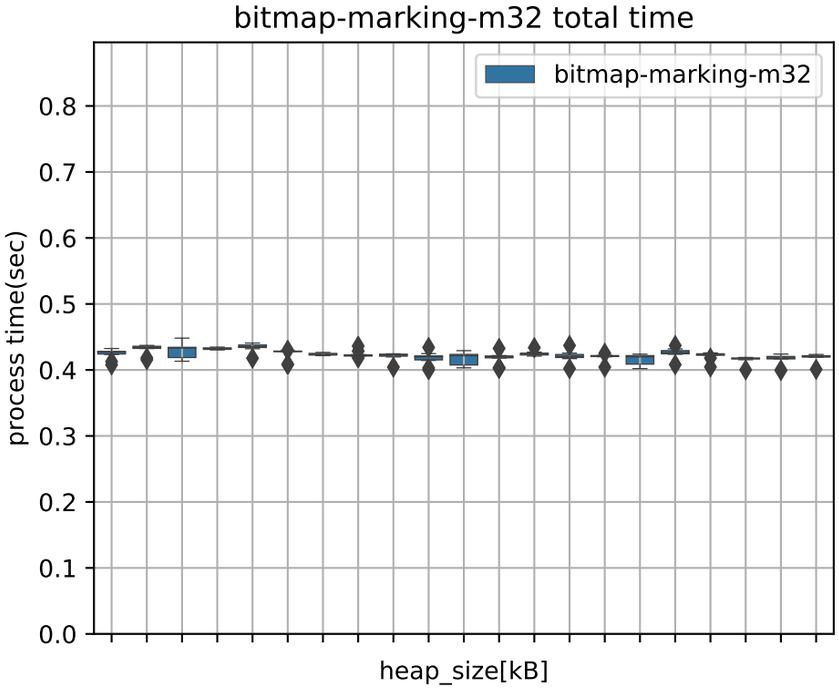
bitmap-marking-m32
marksweep-m32
refcnt-m32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bitmap-marking-m32
process time(sec)
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0.2
0.3
0.4
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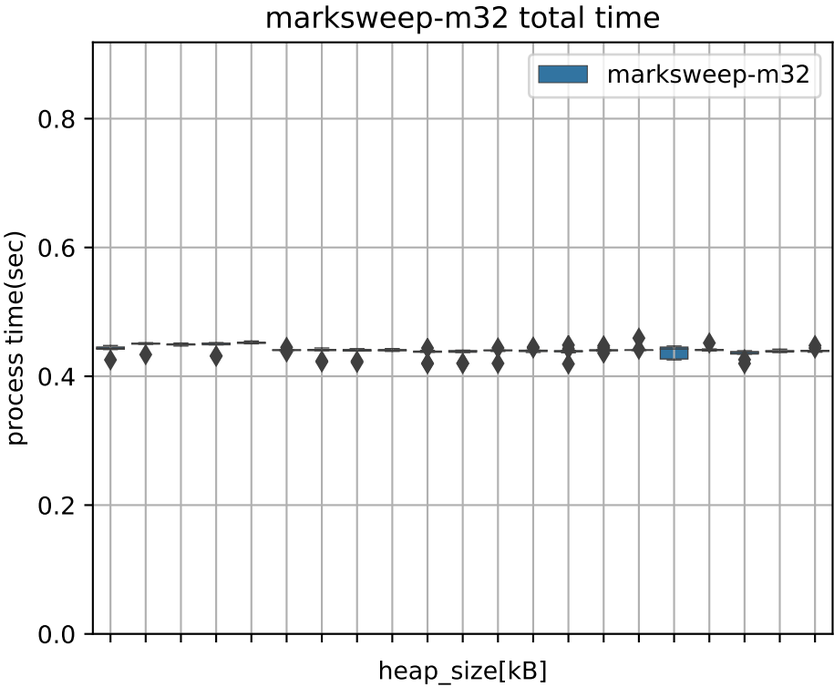
0.6
0.7
0.8
heap_size[kB]


marksweep-m32 total time
marksweep-m32
process time(sec)
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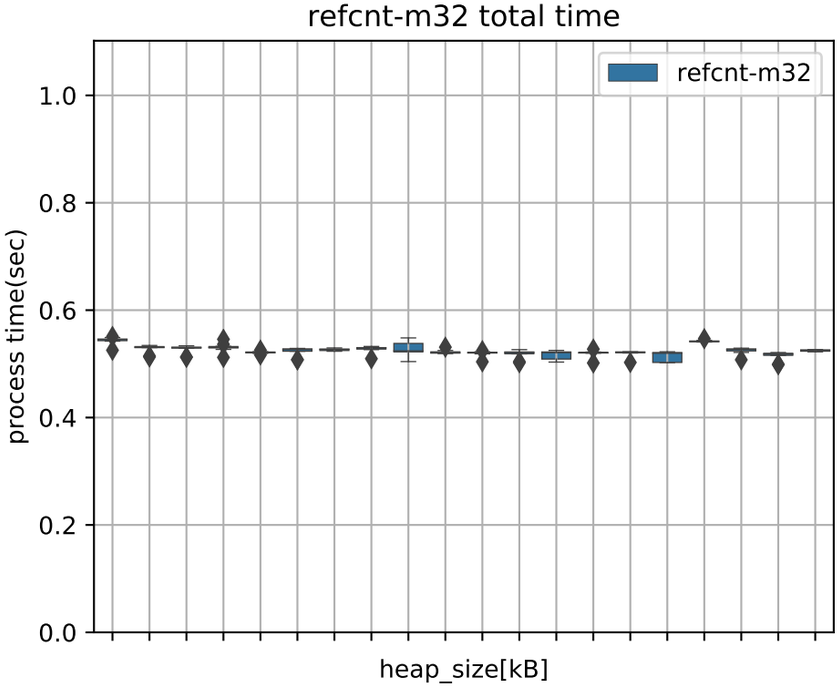
0.2
0.4
0.6
0.8
heap_size[kB]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refcnt-m32
process time(sec)
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0.6
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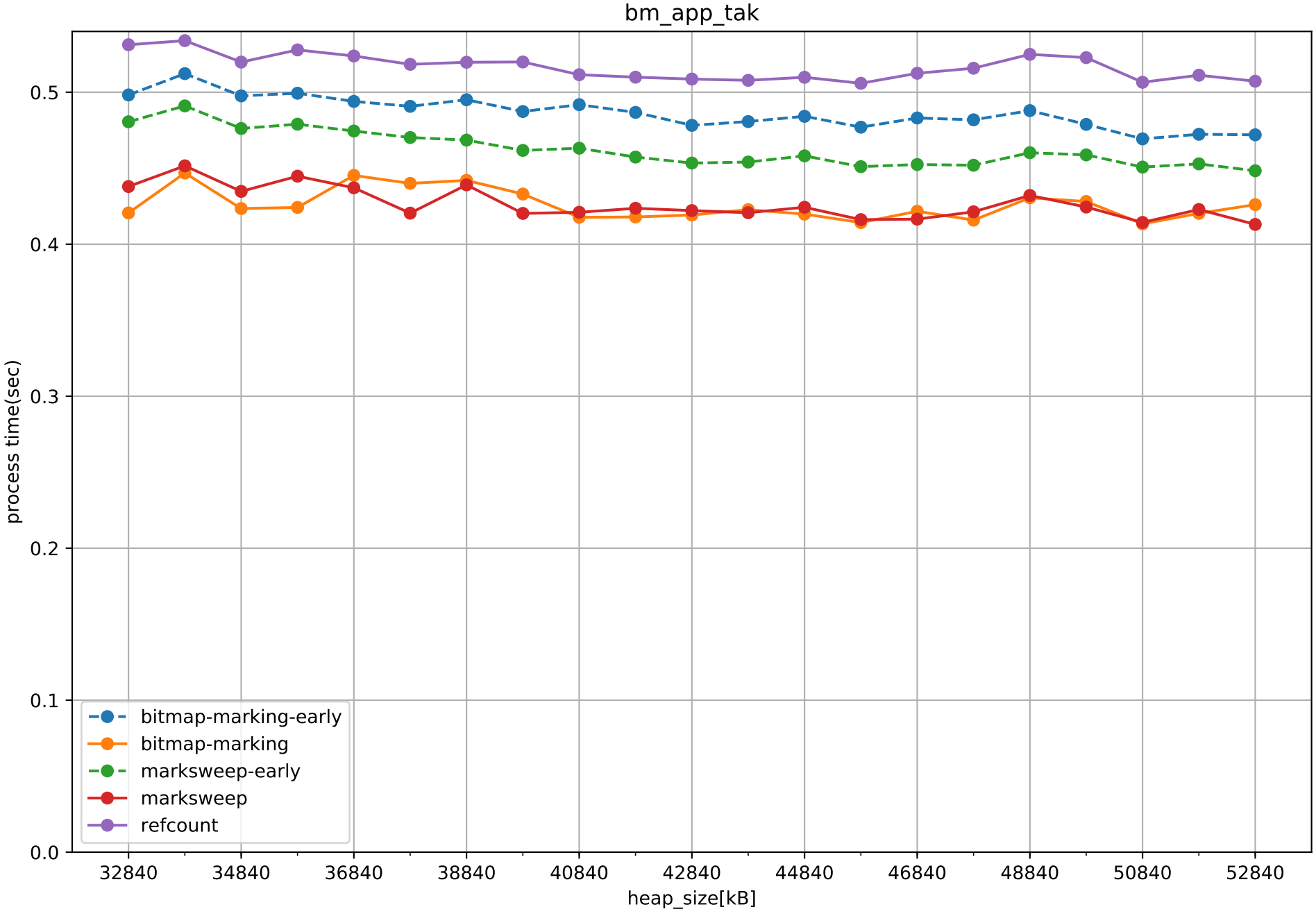
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process time(sec)
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0.2
0.3
0.4
0.5
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34840
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38840
40840
42840
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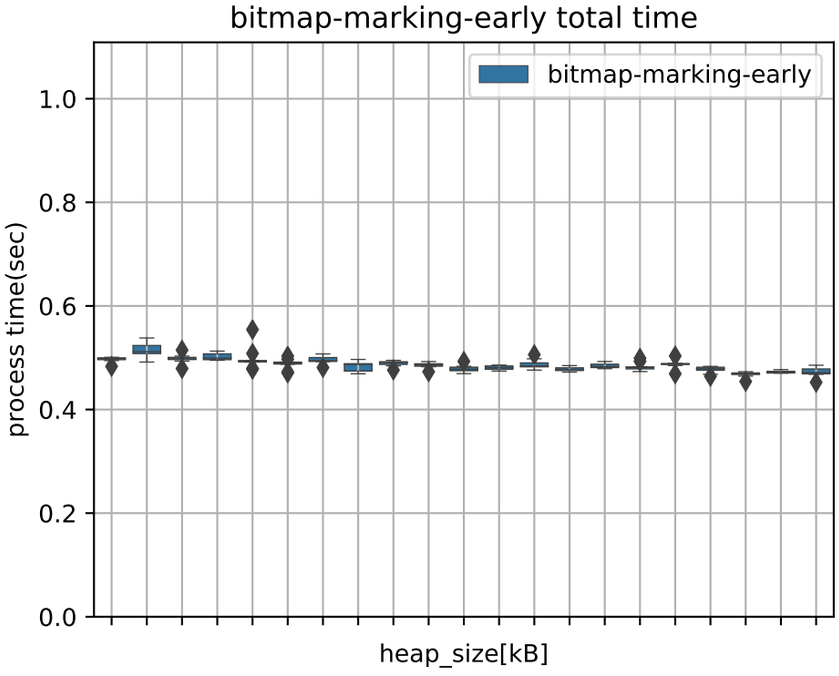
50840
52840
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount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bitmap-marking-early
process time(sec)
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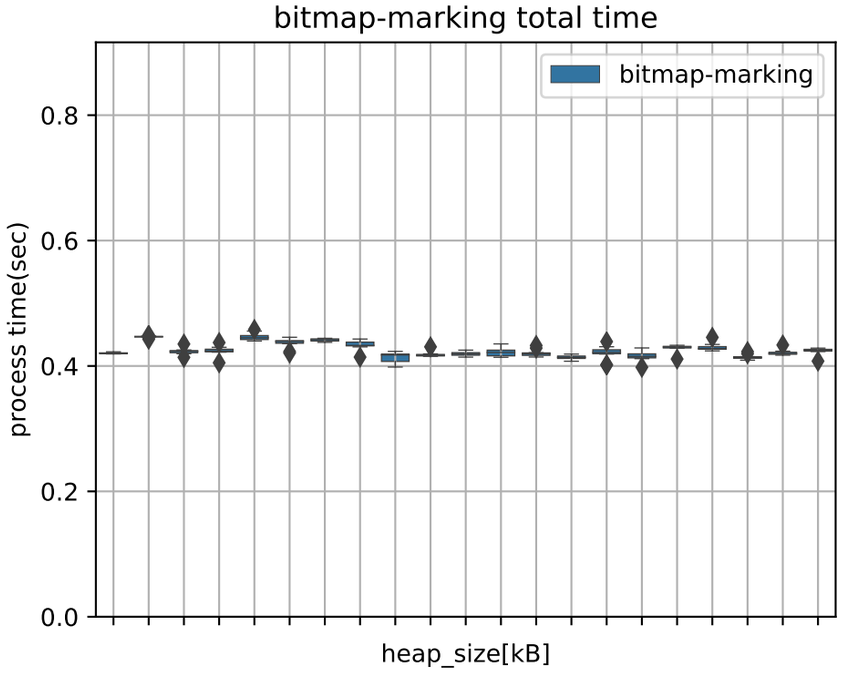
bitmap-marking total time
bitmap-marking
process time(sec)
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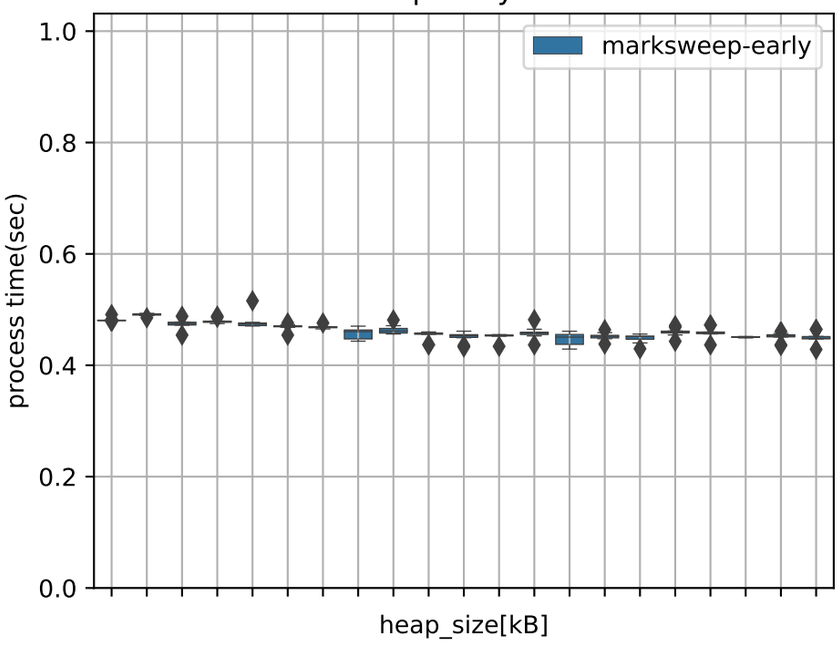
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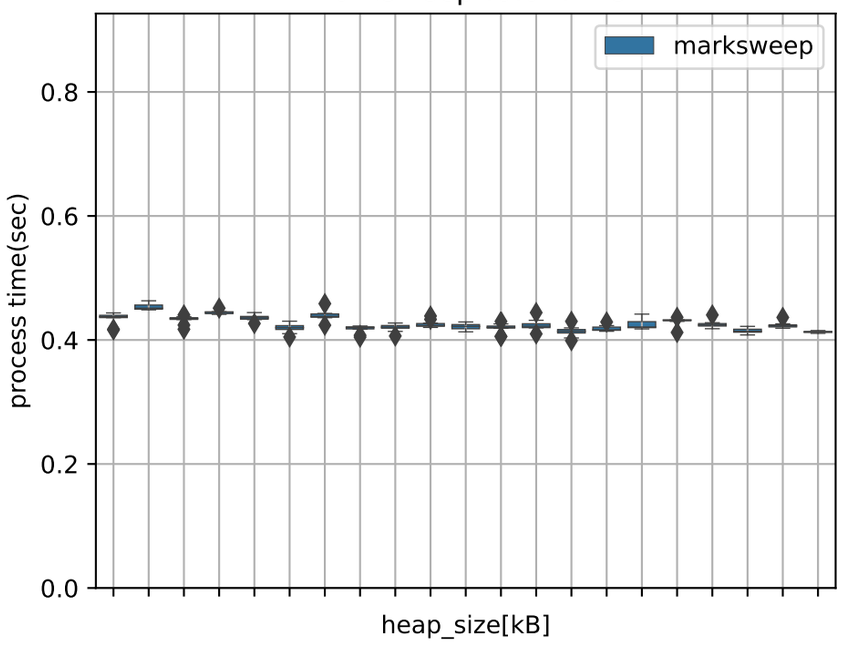
marksweep-early
process time(sec)
heap_size[kB]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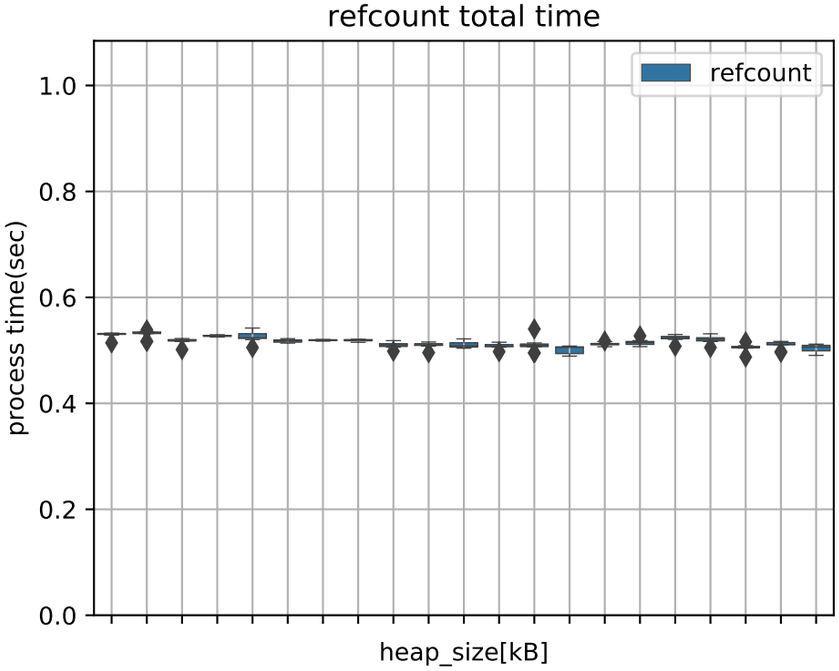
marksweep
process time(sec)
heap_size[kB]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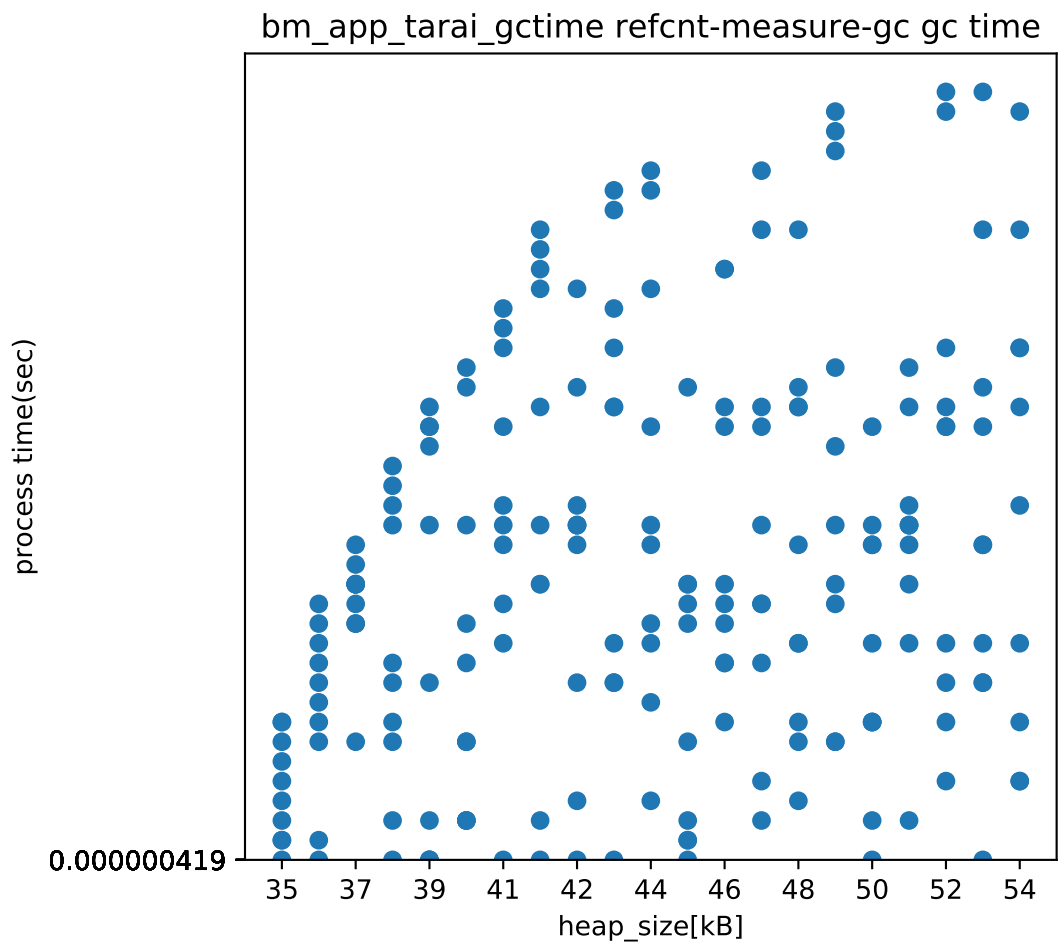
process time(sec)
heap_size[kB]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41
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46
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52
54
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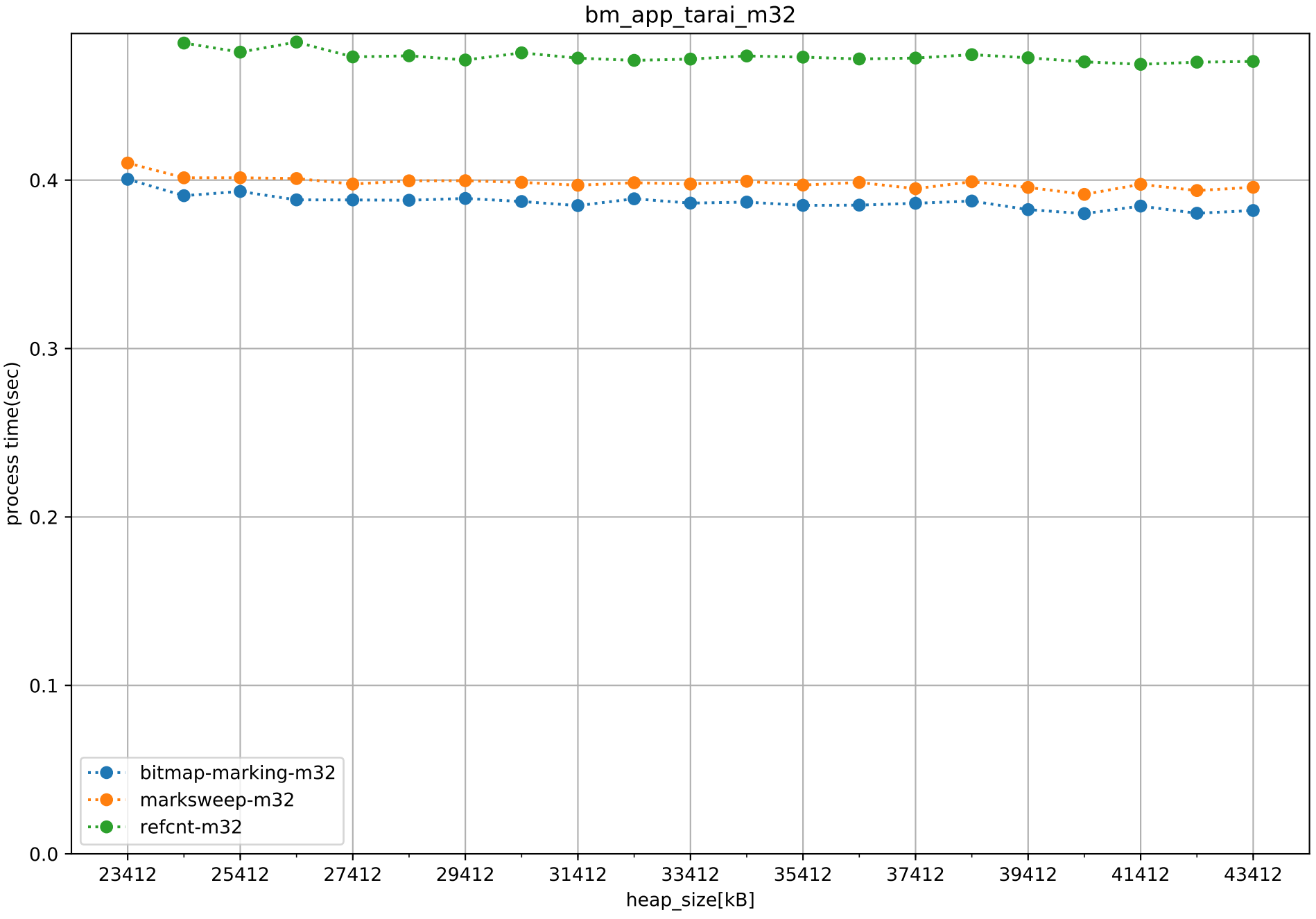
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process time(sec)
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0.1
0.2
0.3
0.4
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39412
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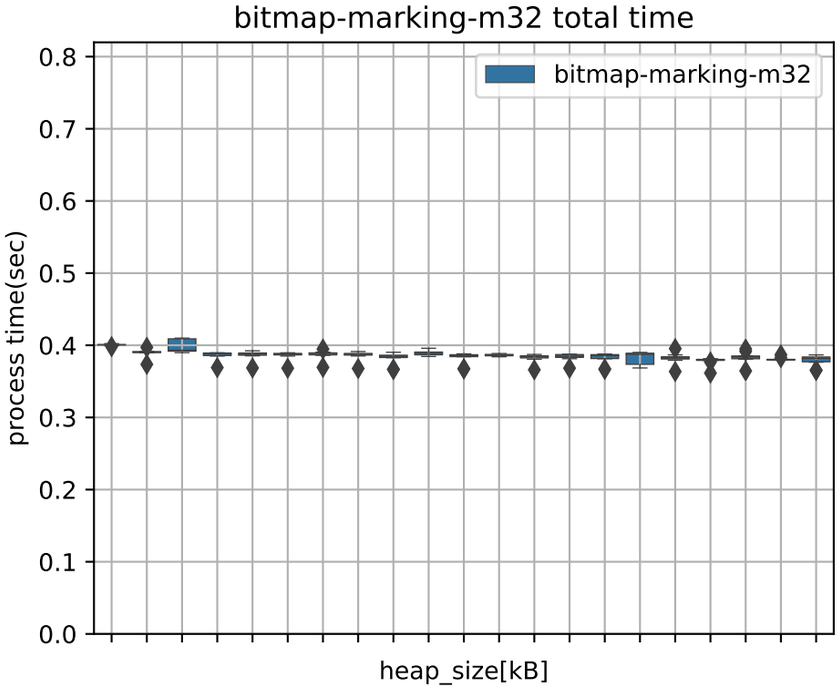
bitmap-marking-m32
marksweep-m32
refcnt-m32


bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
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0.4
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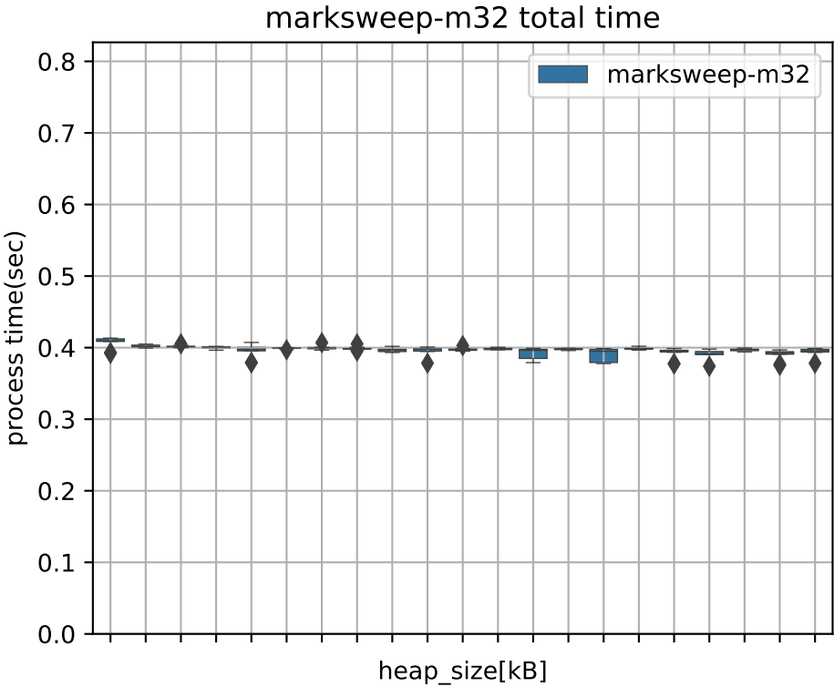
0.6
0.7
0.8


marksweep-m32 total time
marksweep-m32
process time(sec)
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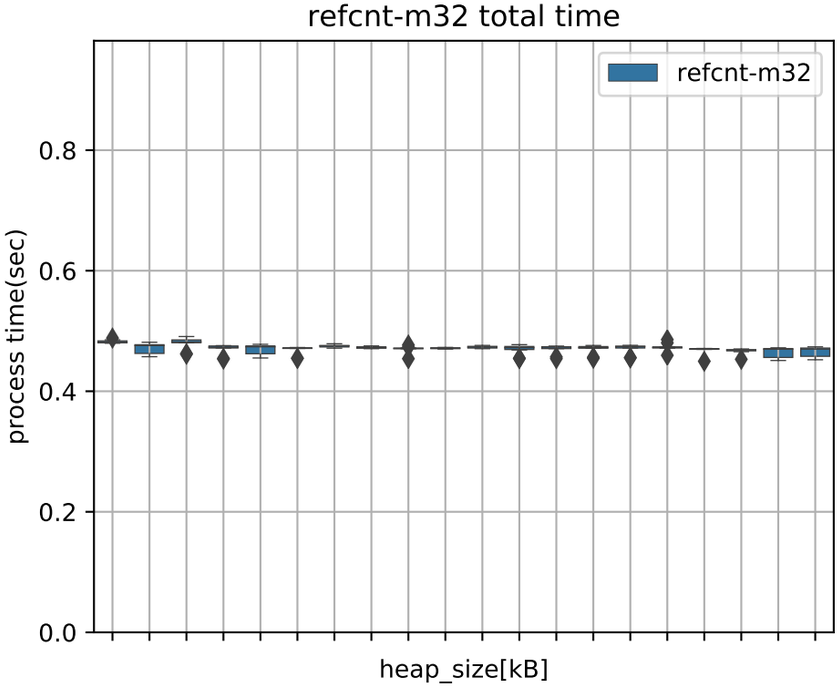
0.8


refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
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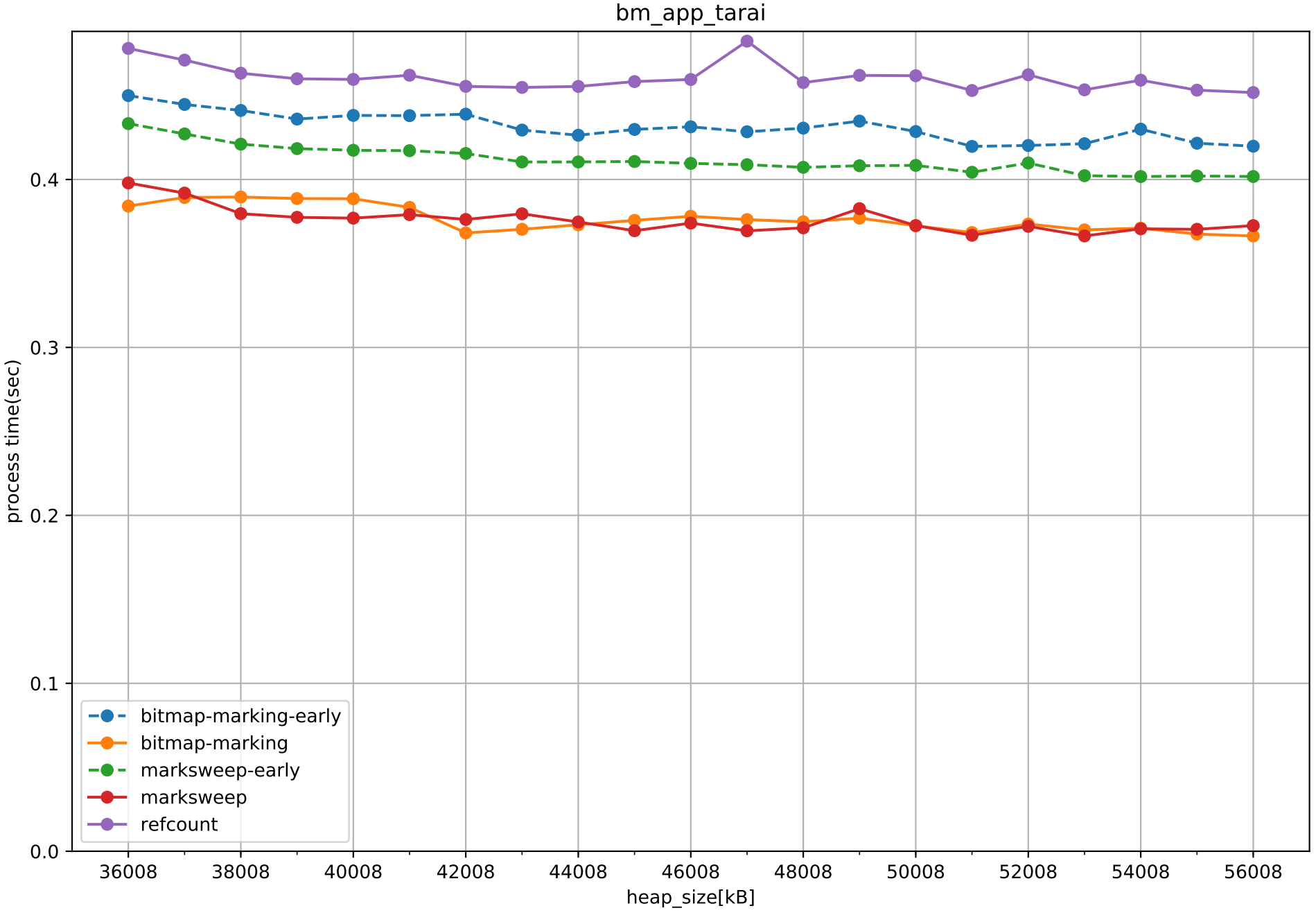
bm_app_tarai
process time(sec)
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0.2
0.3
0.4
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46008
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56008
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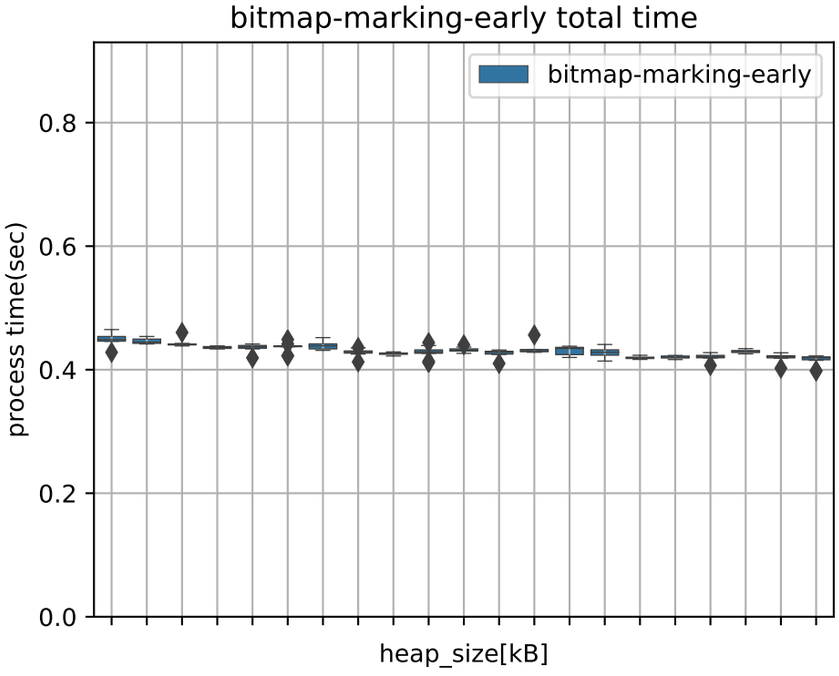
bitmap-marking
marksweep-early
marksweep
refcount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bitmap-marking-early
process time(sec)
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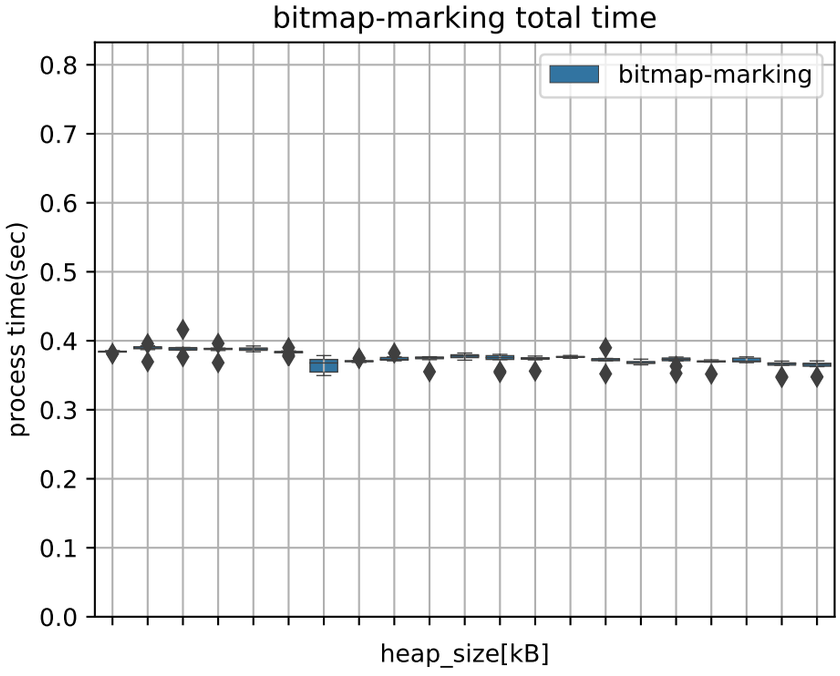
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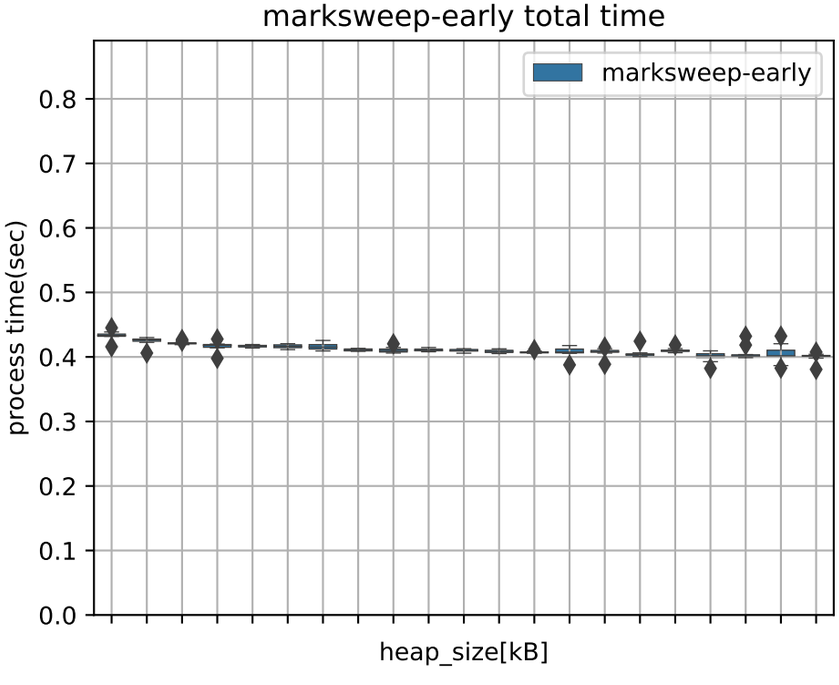
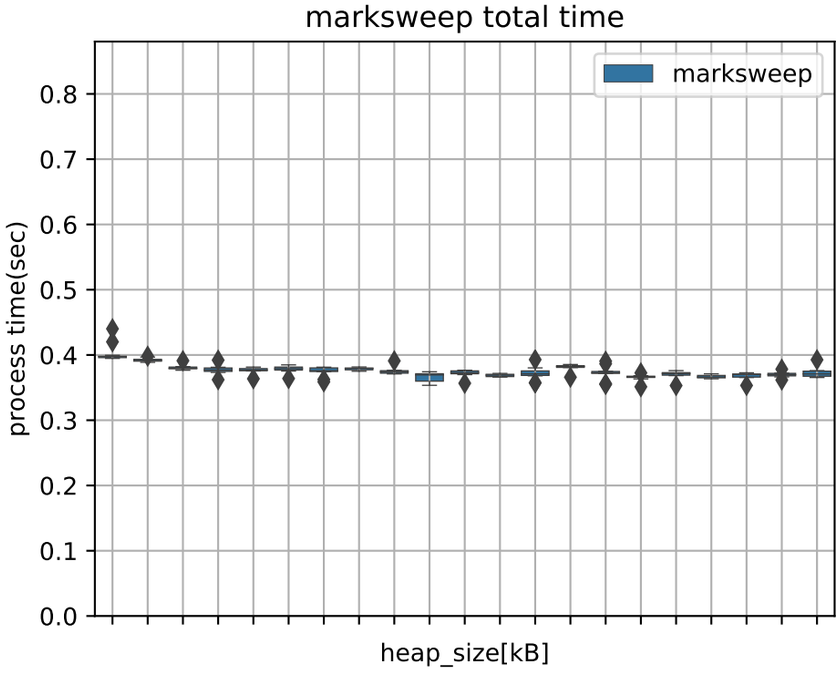
bitmap-marking
process time(sec)
heap_size[kB]


marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]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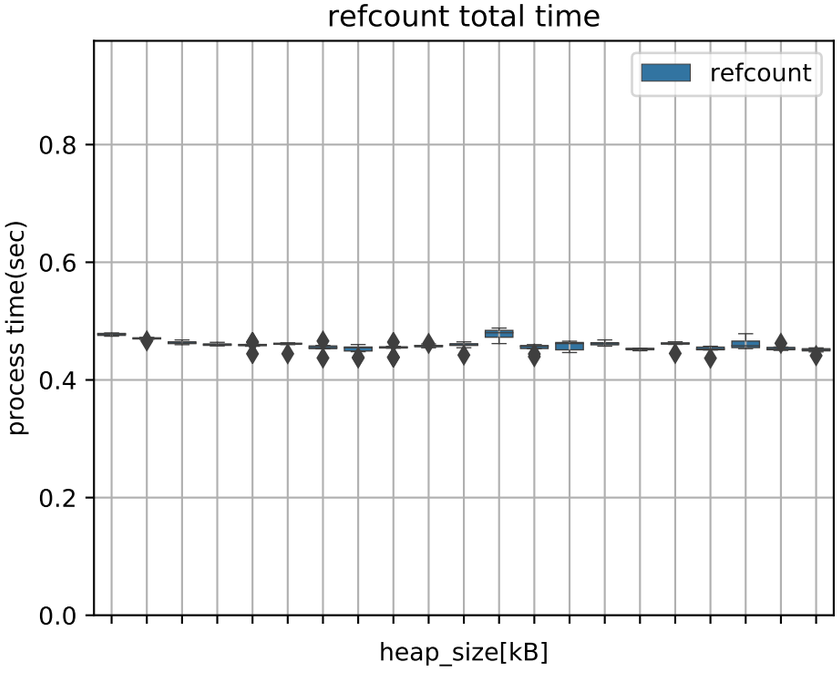
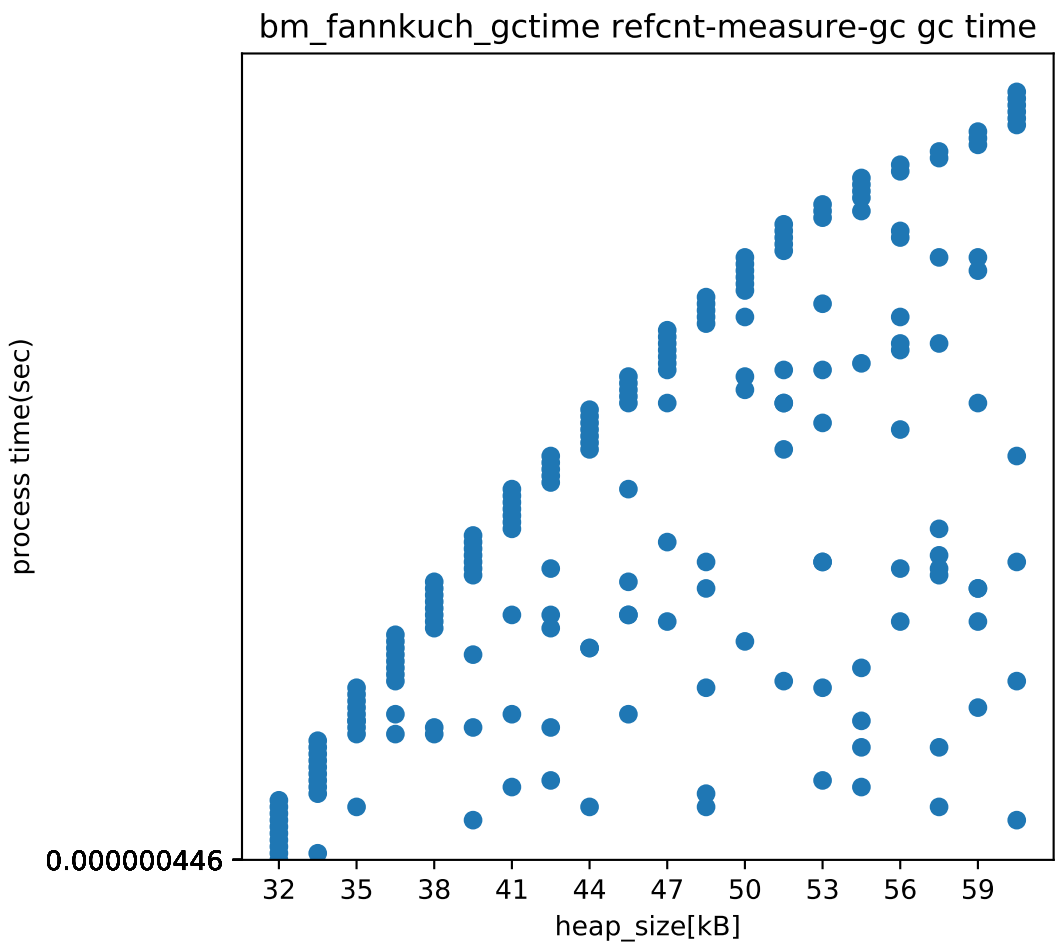
marksweep
process time(sec)
heap_size[kB]


refcount total time
refcount
process time(sec)
heap_size[kB]


bm_fannkuch_gctime refcnt-measure-gc gc time
process time(sec)
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59
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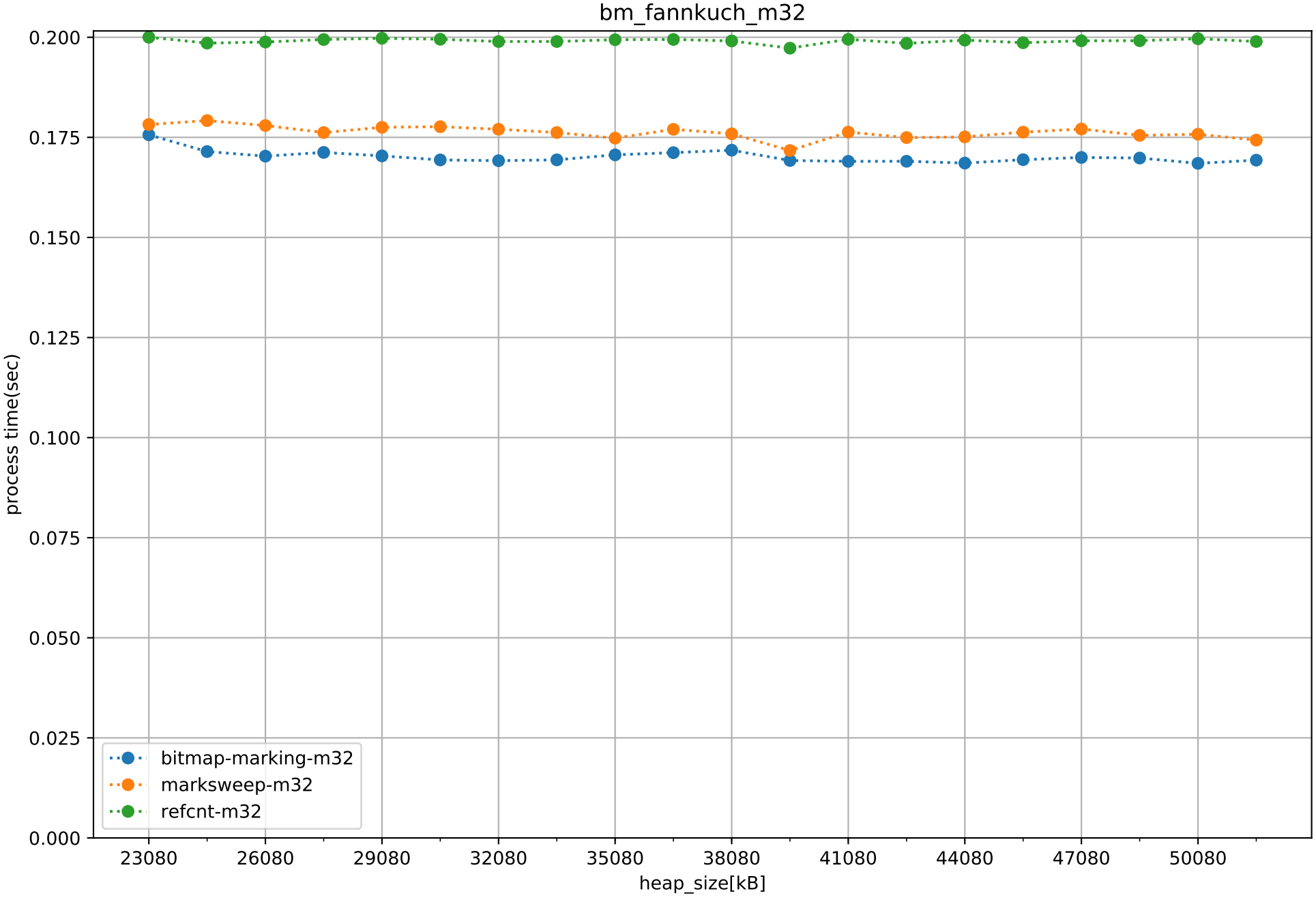
bm_fannkuch_m32
process time(sec)
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0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
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26080
29080
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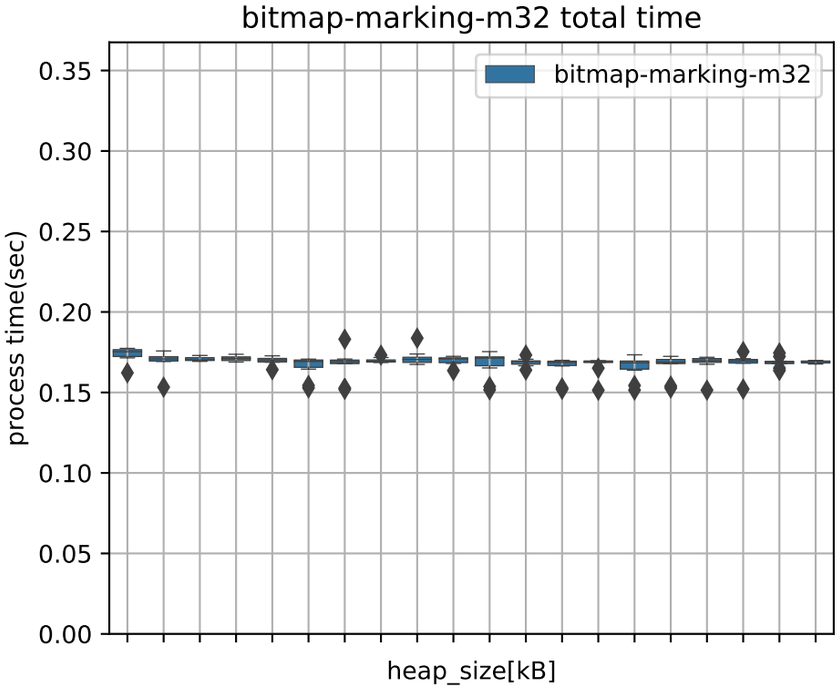
35080
38080
41080
44080
47080
50080
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32


bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
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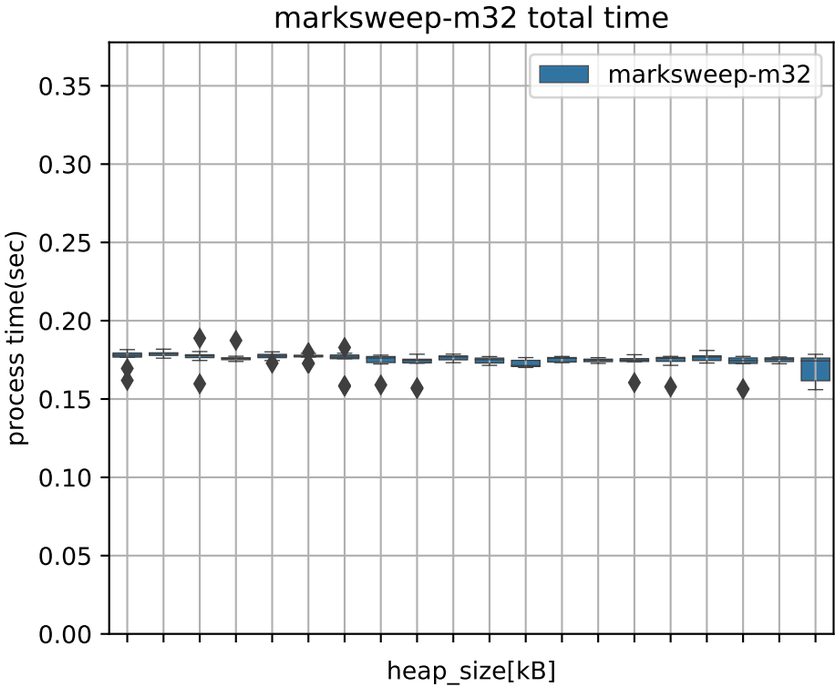
0.10
0.15
0.20
0.25
0.30
0.35
heap_size[kB]


marksweep-m32 total time
marksweep-m32
process time(sec)
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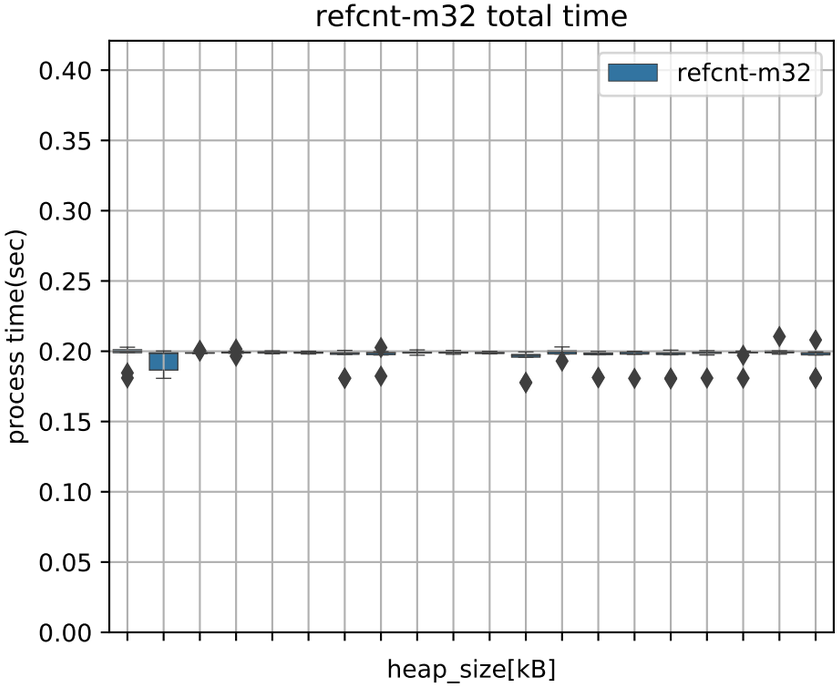
0.05
0.10
0.15
0.20
0.25
0.30
0.35
heap_size[kB]


refcnt-m32 total time
refcnt-m32
process time(sec)
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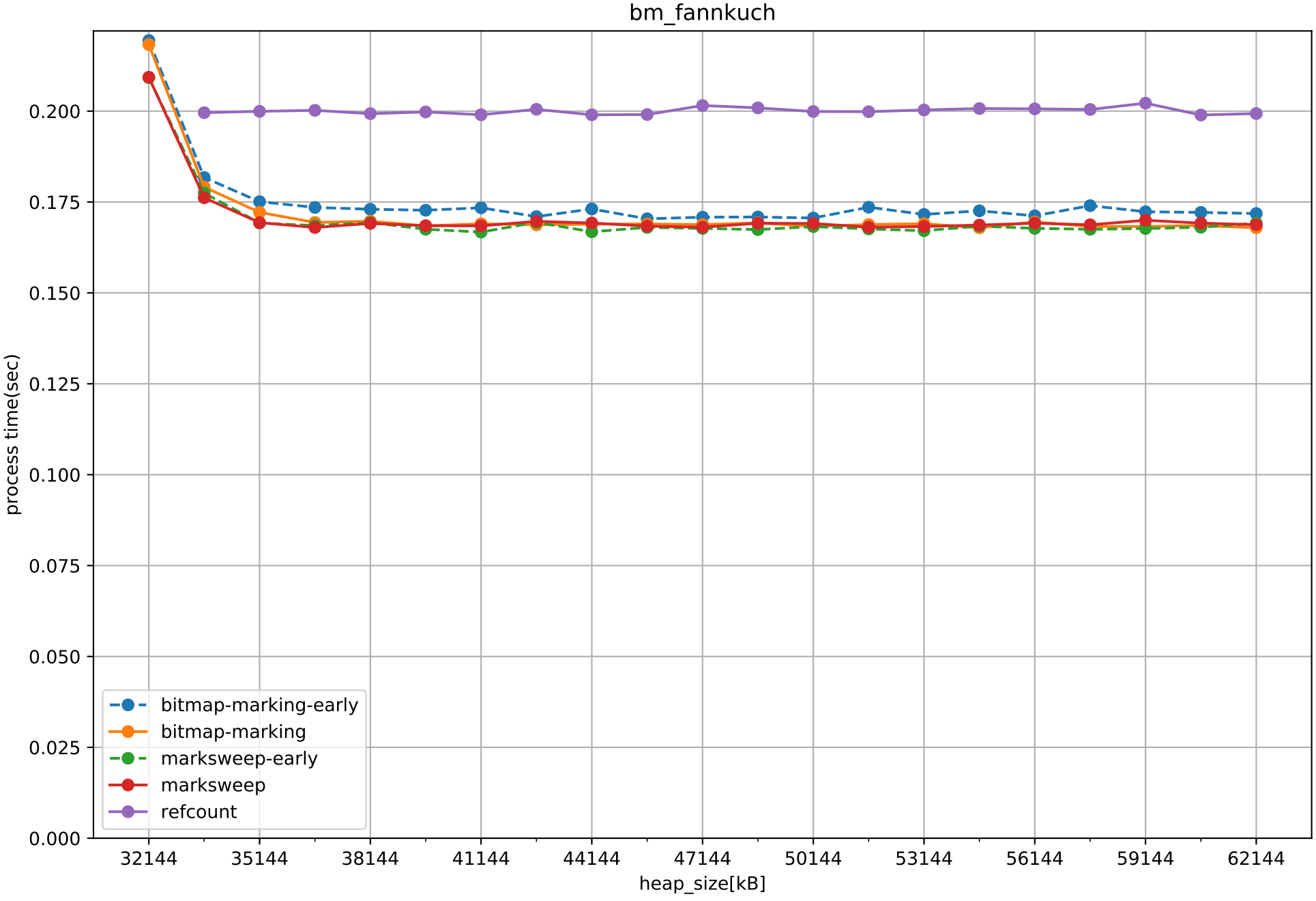
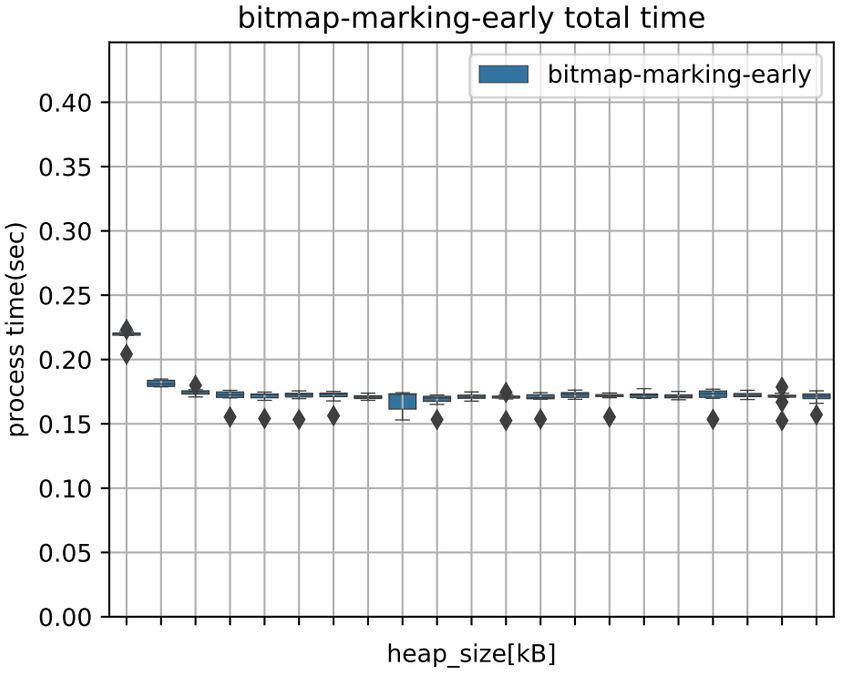
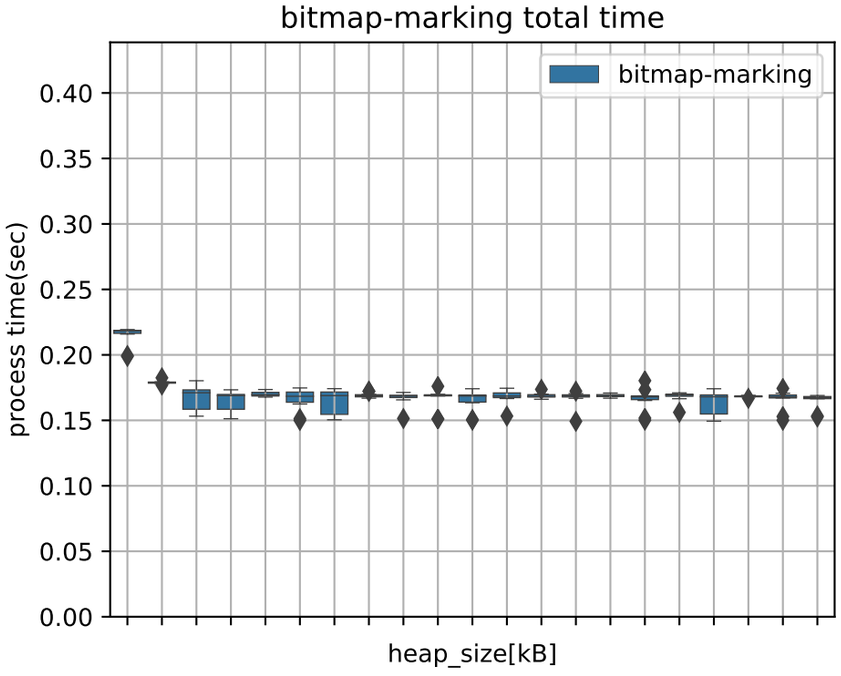
0.10
0.15
0.20
0.25
0.30
0.35
0.40
heap_size[kB]


bm_fannkuch
process time(sec)
0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
32144
35144
38144
41144
44144
47144
50144
53144
56144
59144
62144
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount


bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]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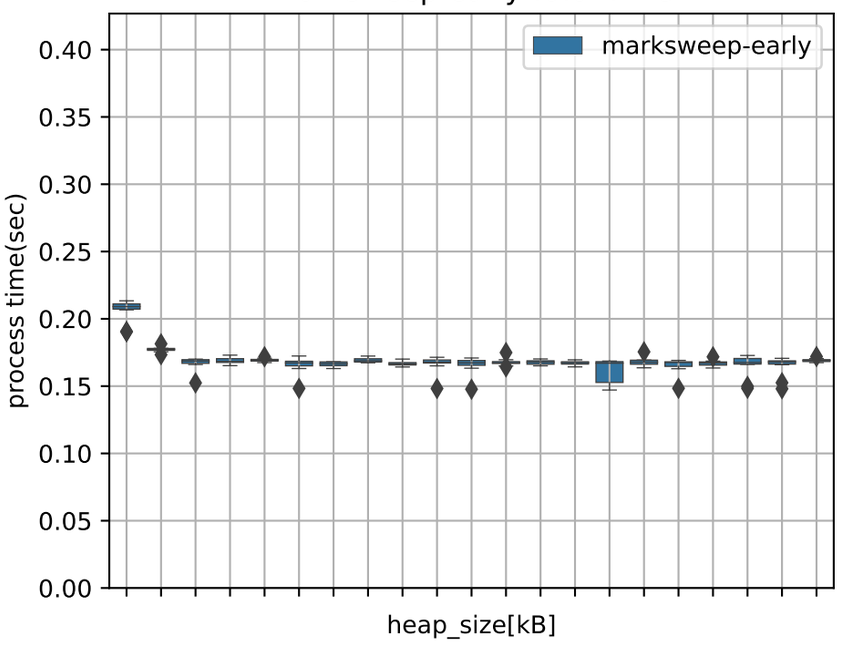
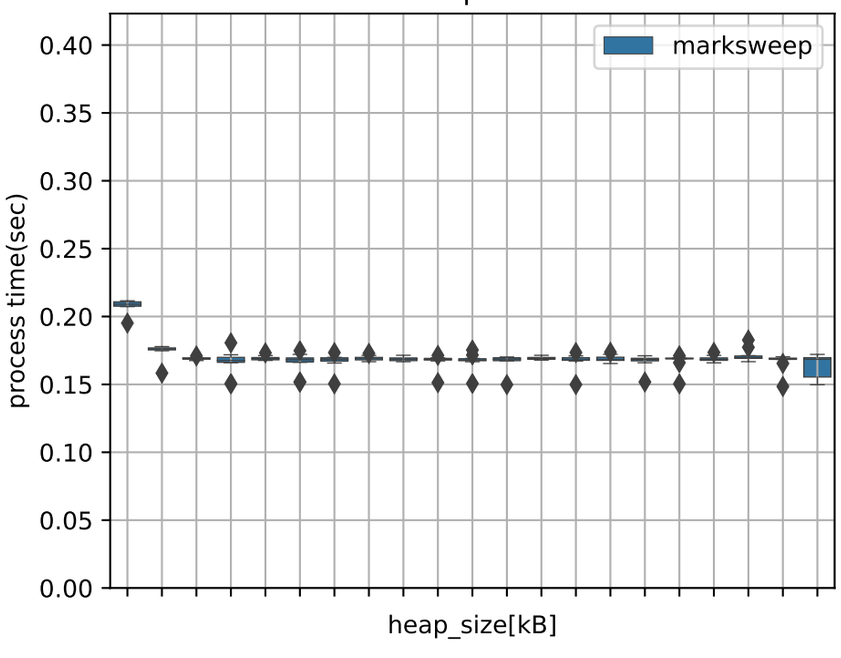
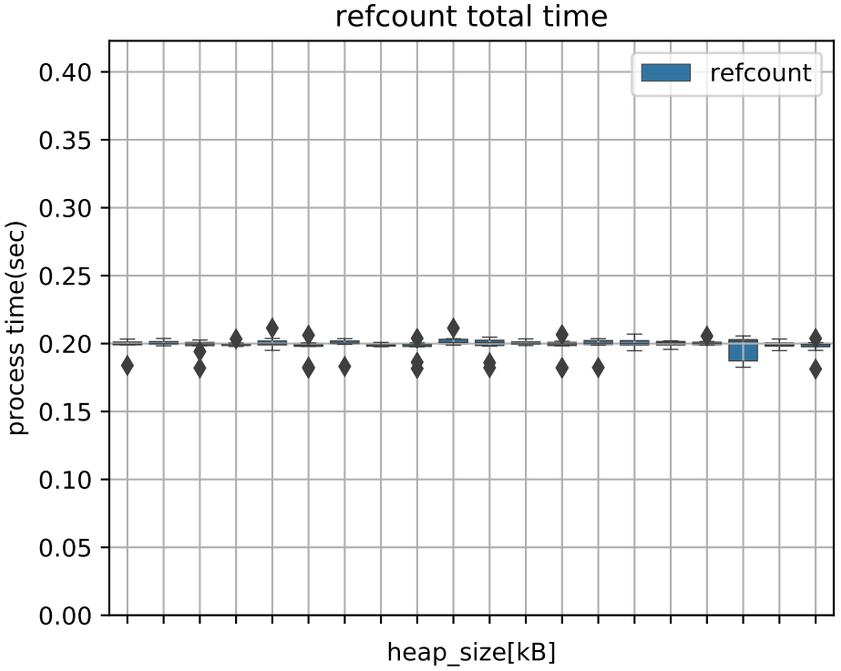
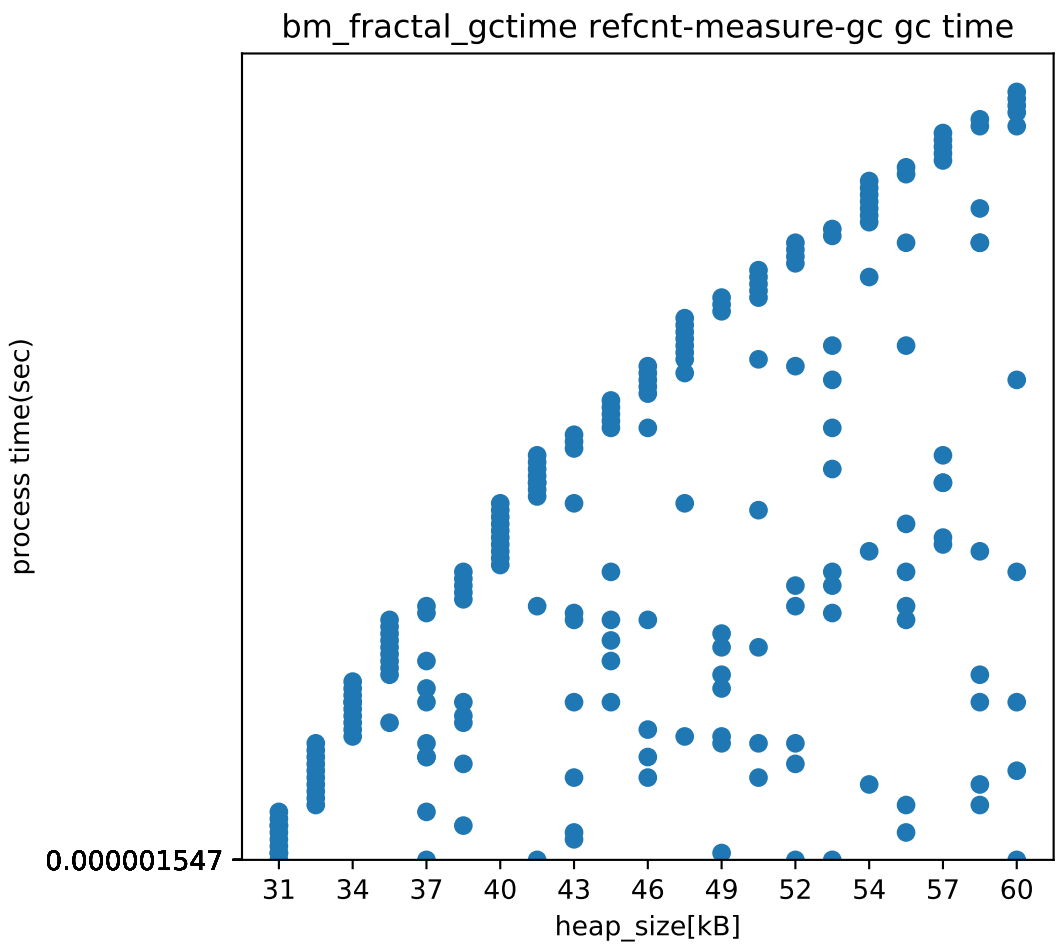
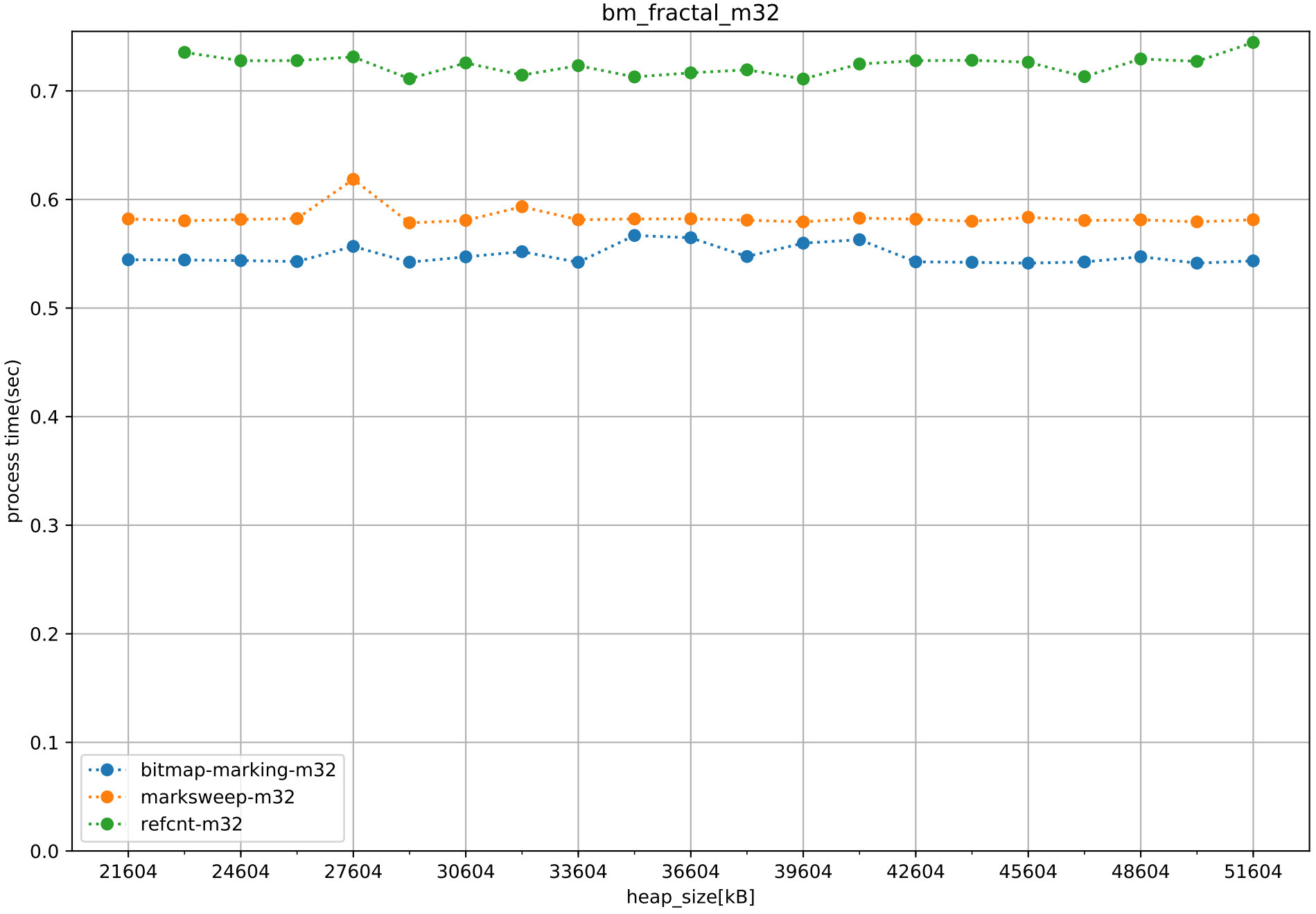
bitmap-marking
process time(sec)
heap_size[kB]

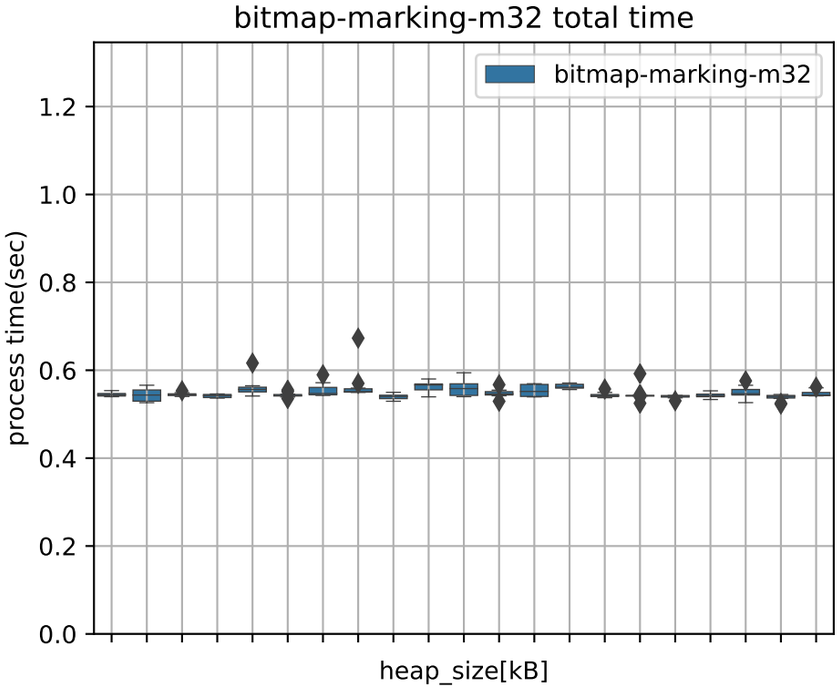

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

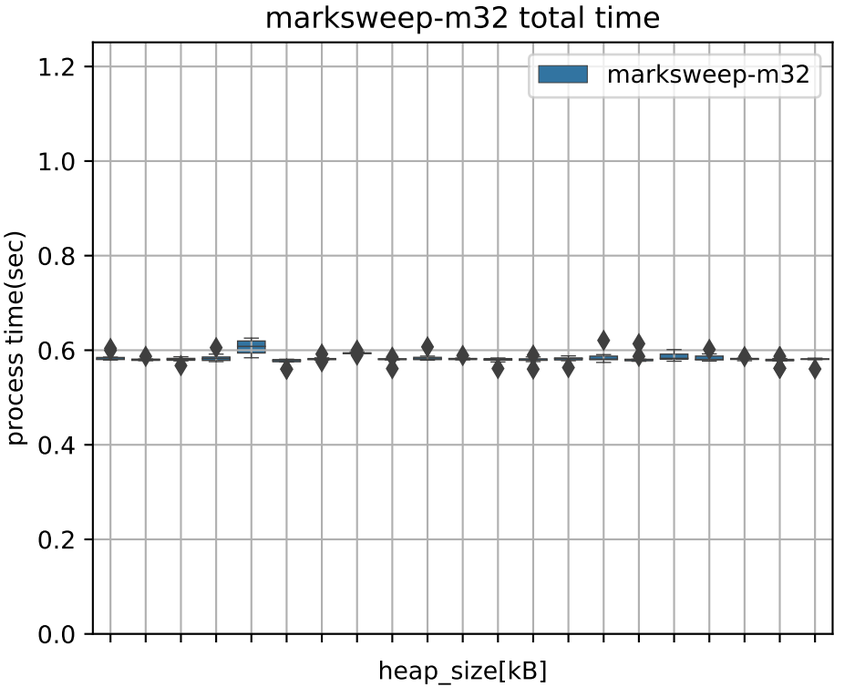

marksweep total time
marksweep
process time(sec)
heap_size[kB]

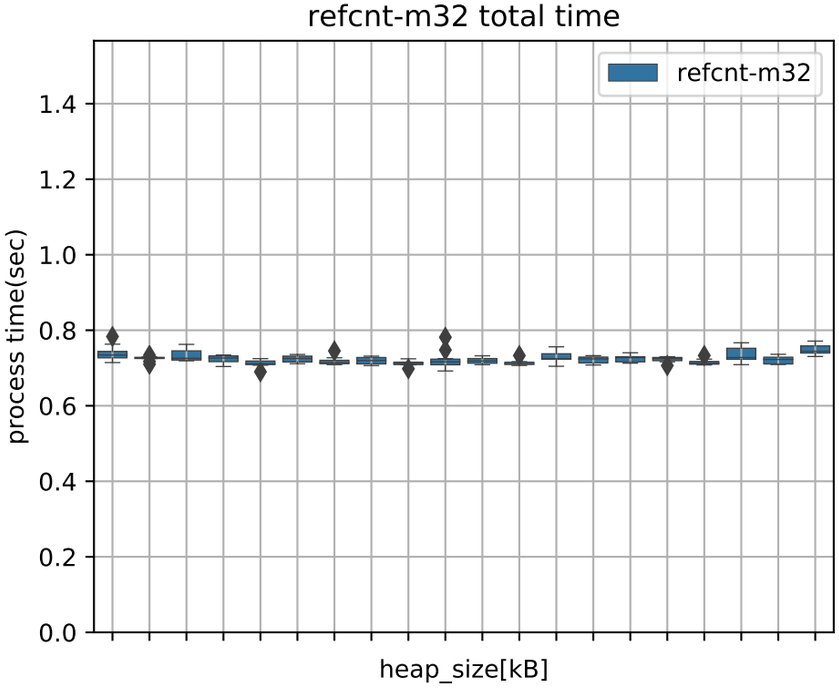

refcount total time
refcount
process time(sec)
heap_size[kB]

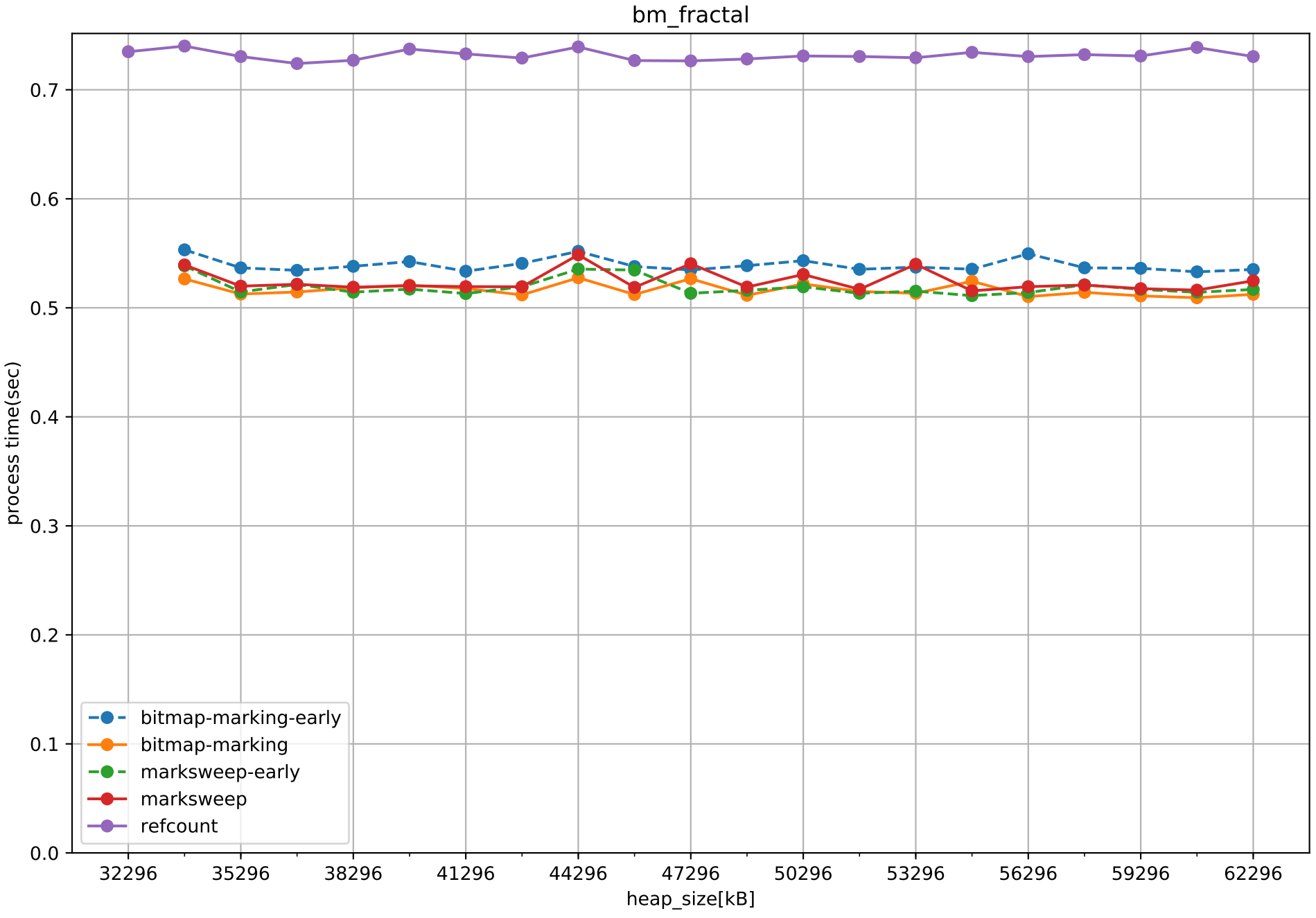

bm_fractal_gctime refcnt-measure-gc gc time
process time(sec)
0.000001547
31
34
37
40
43
46
49
52
54
57
60
heap_size[kB]

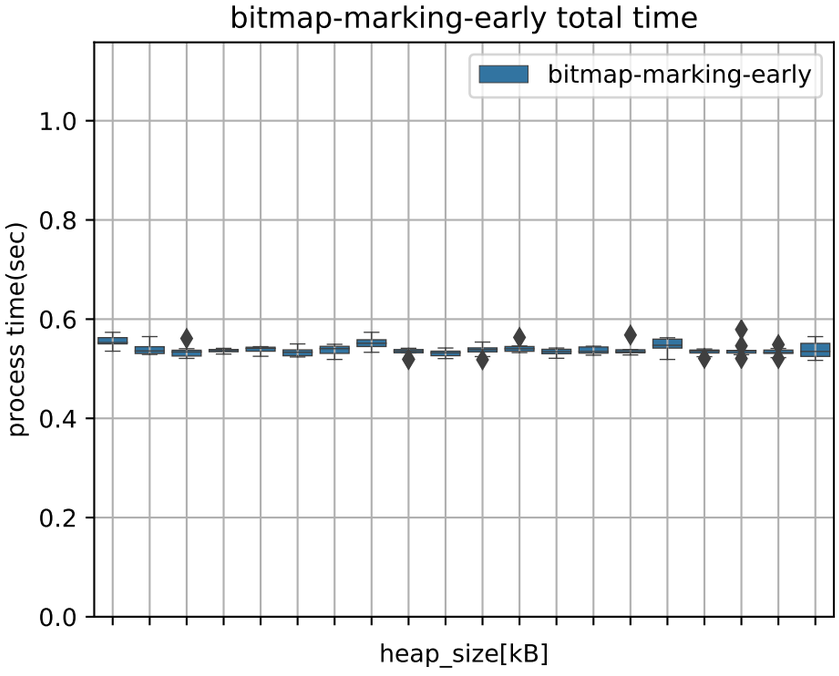

bm_fractal_m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
21604
24604
27604
30604
33604
36604
39604
42604
45604
48604
51604
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

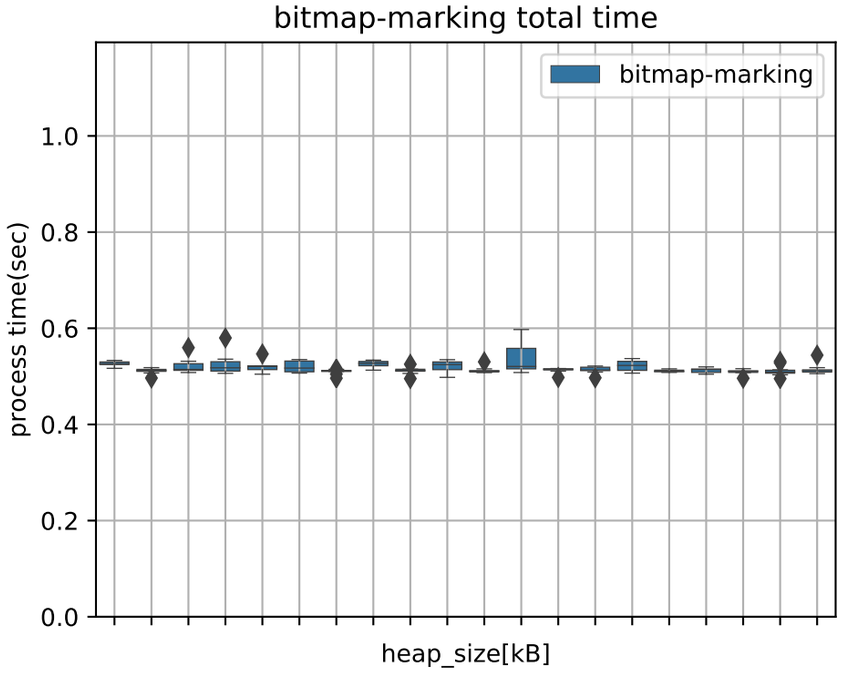

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2

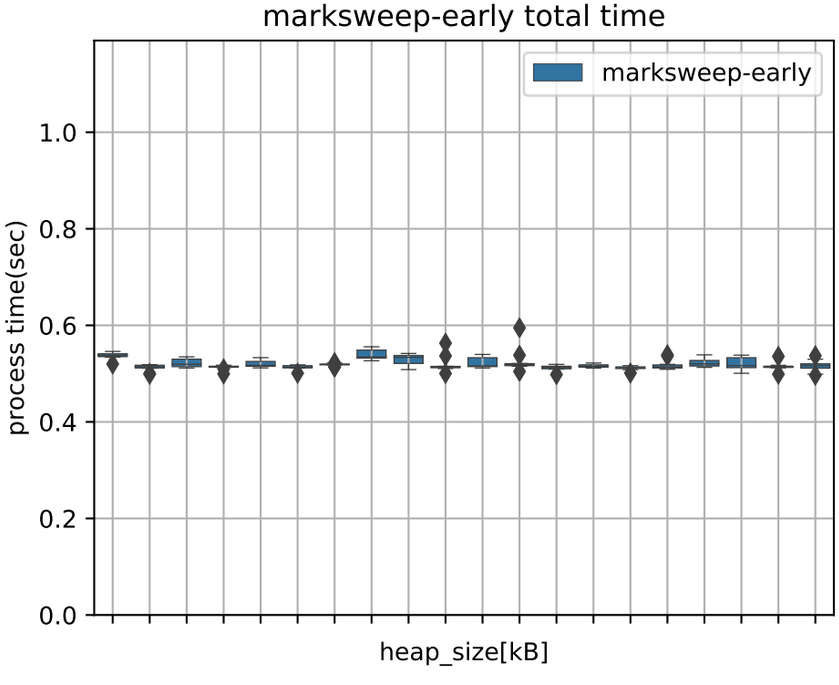

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2

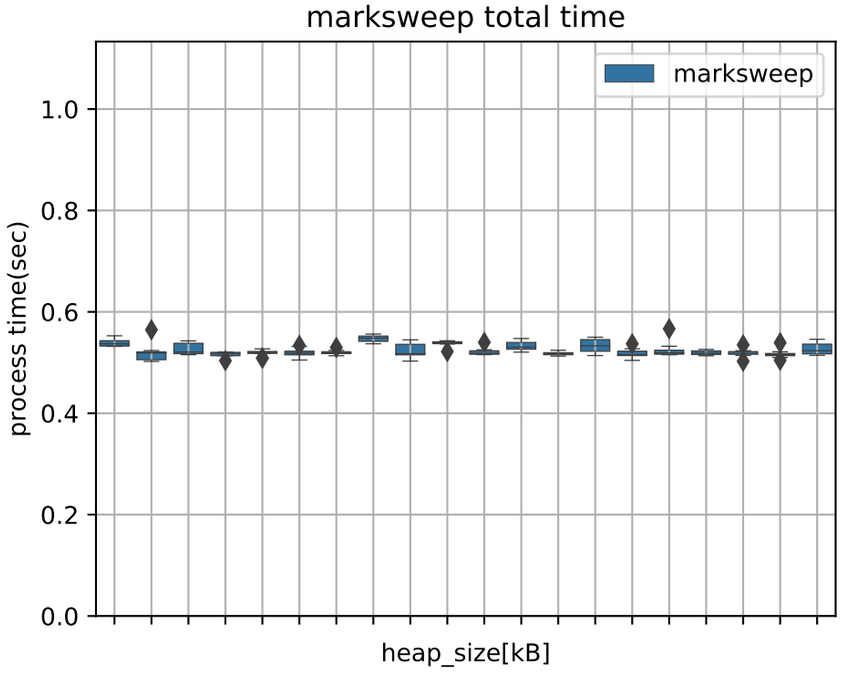

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4

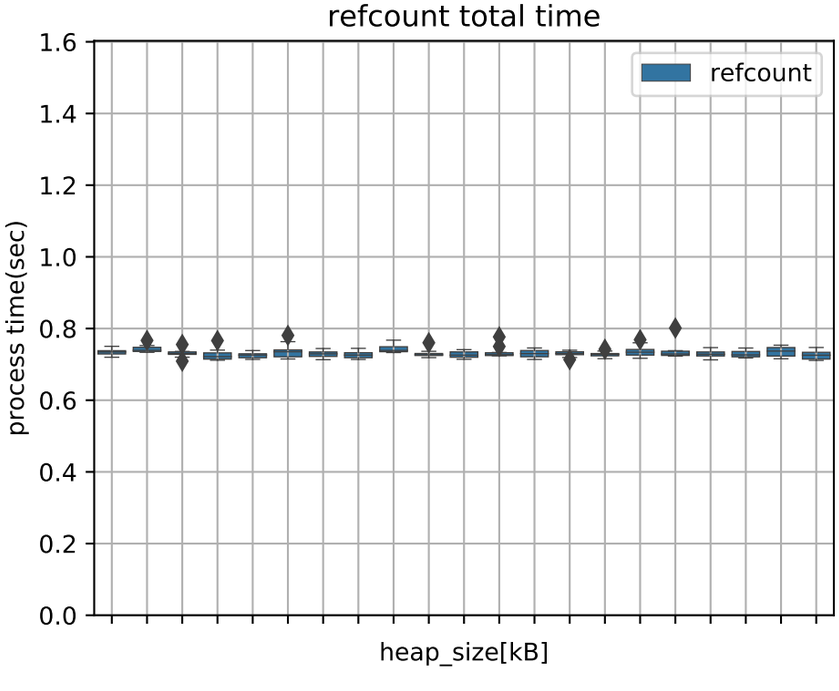

bm_fractal
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
32296
35296
38296
41296
44296
47296
50296
53296
56296
59296
62296
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

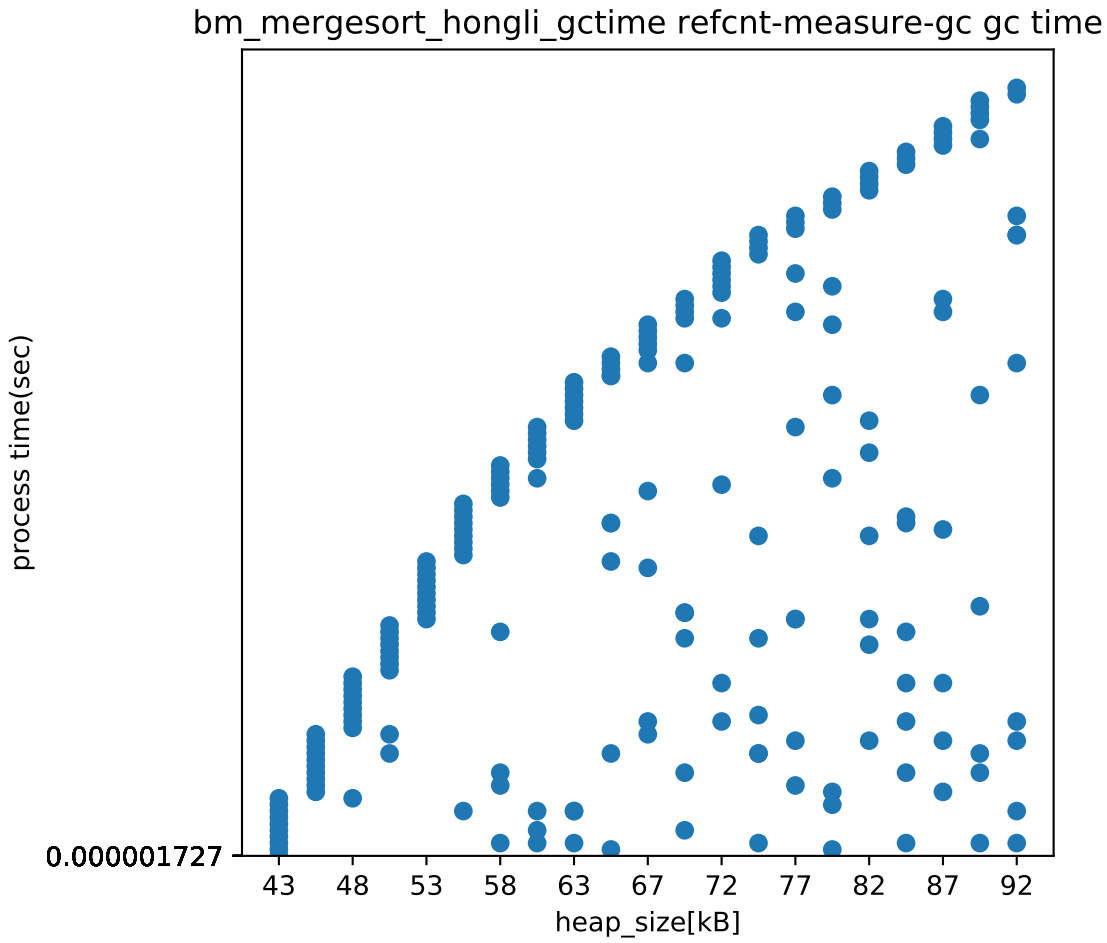

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

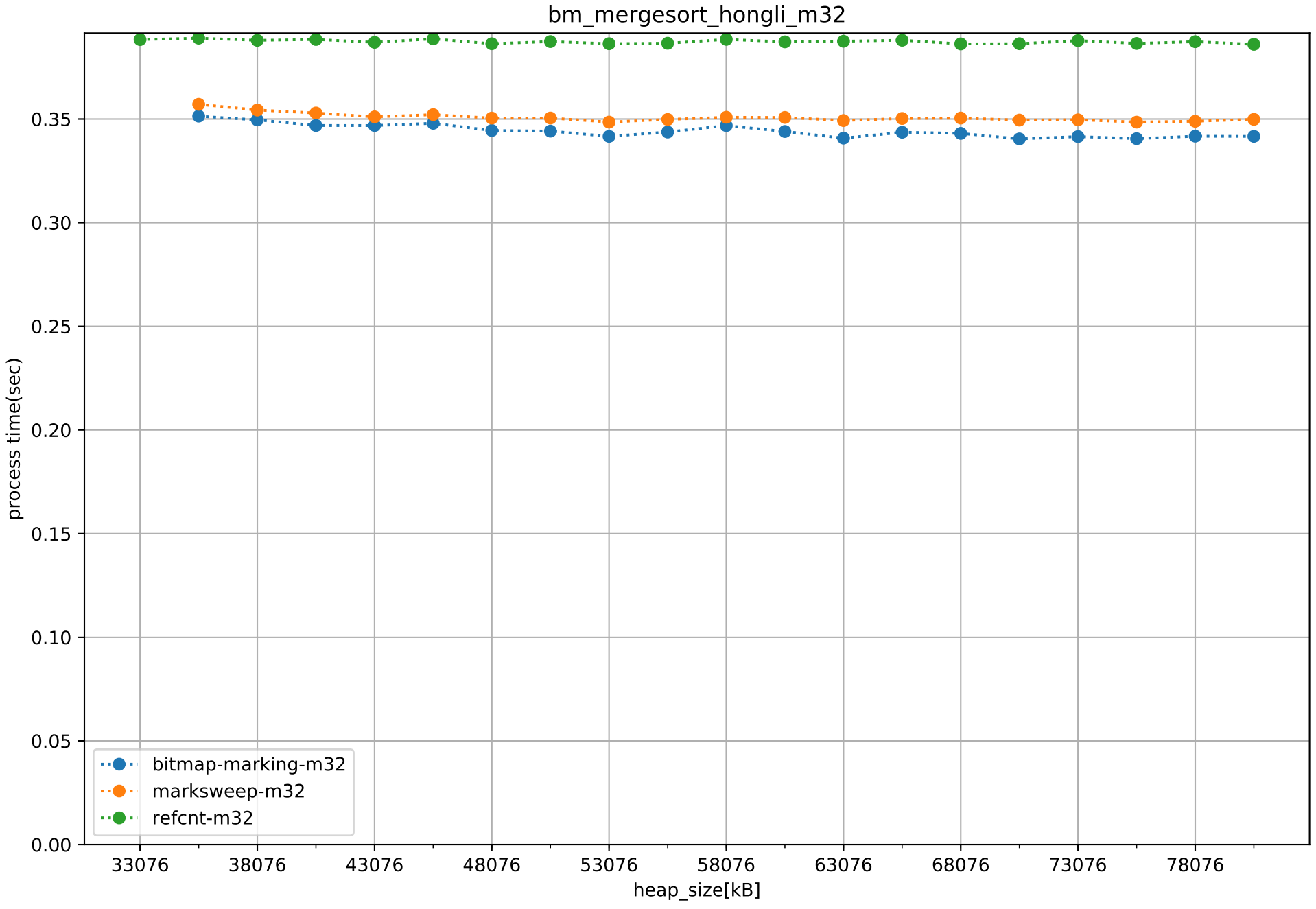

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]


marksweep total time
marksweep
process time(sec)
heap_size[kB]


refcount total time
refcount
process time(sec)
heap_size[kB]


bm_mergesort_hongli_gctime refcnt-measure-gc gc time
process time(sec)
0.000001727
43
48
53
58
63
67
72
77
82
87
92
heap_size[kB]


bm_mergesort_hongli_m32
process time(sec)
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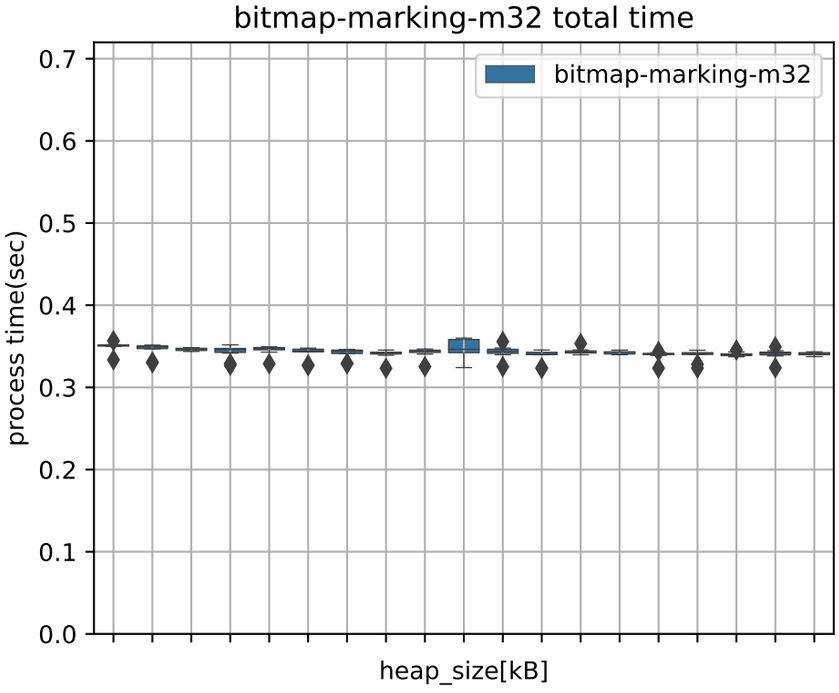
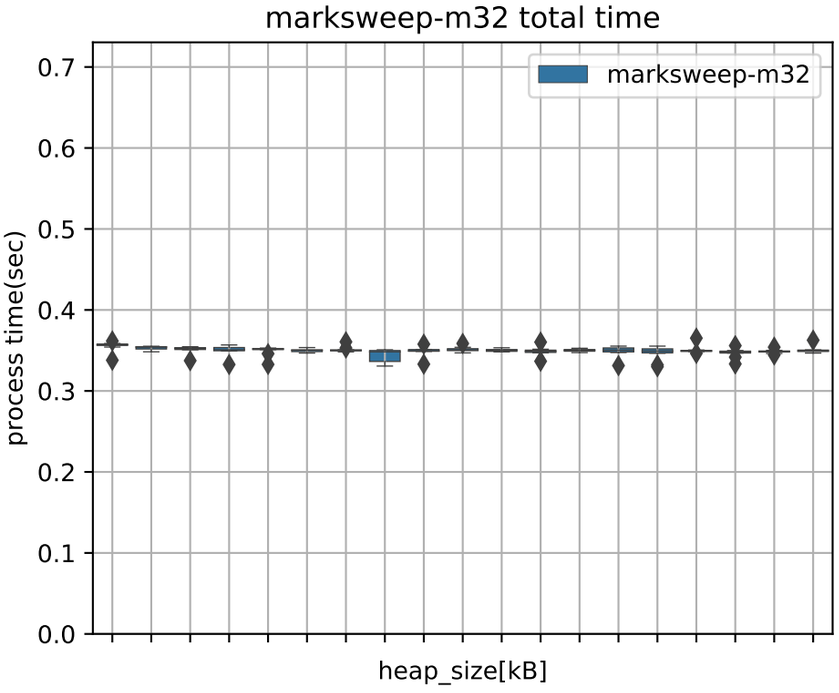
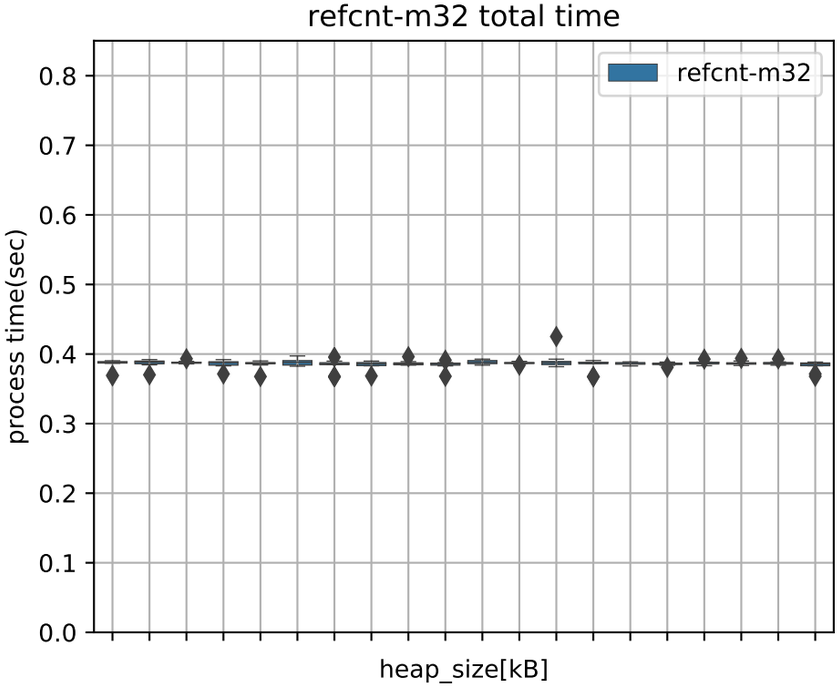
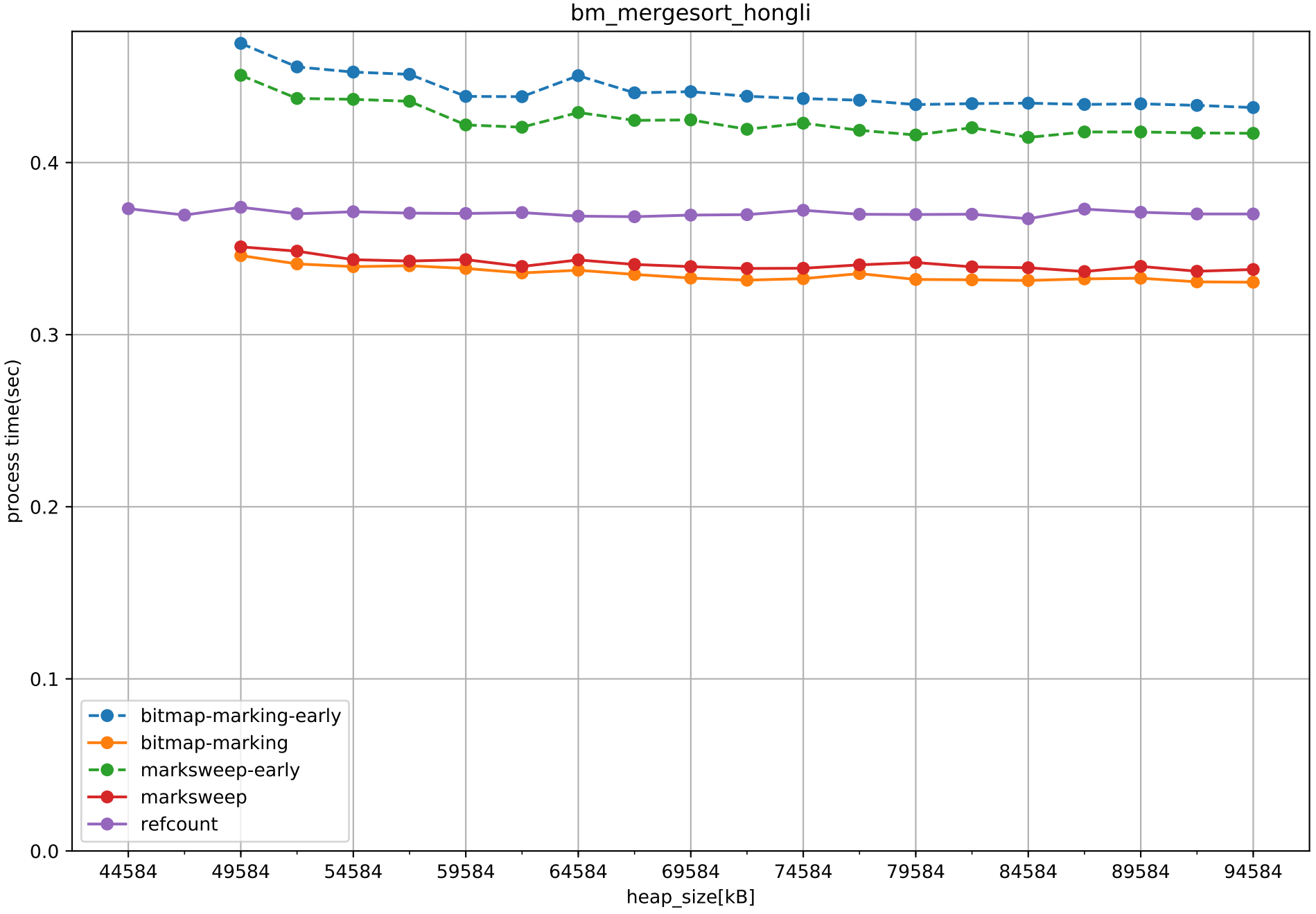
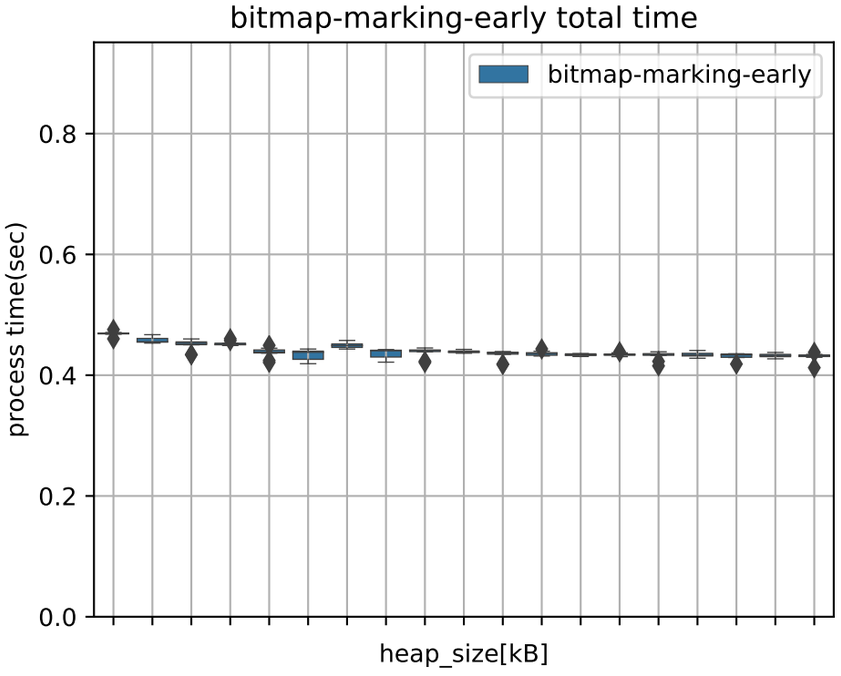
0.05
0.10
0.15
0.20
0.25
0.30
0.35
33076
38076
43076
48076
53076
58076
63076
68076
73076
78076
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

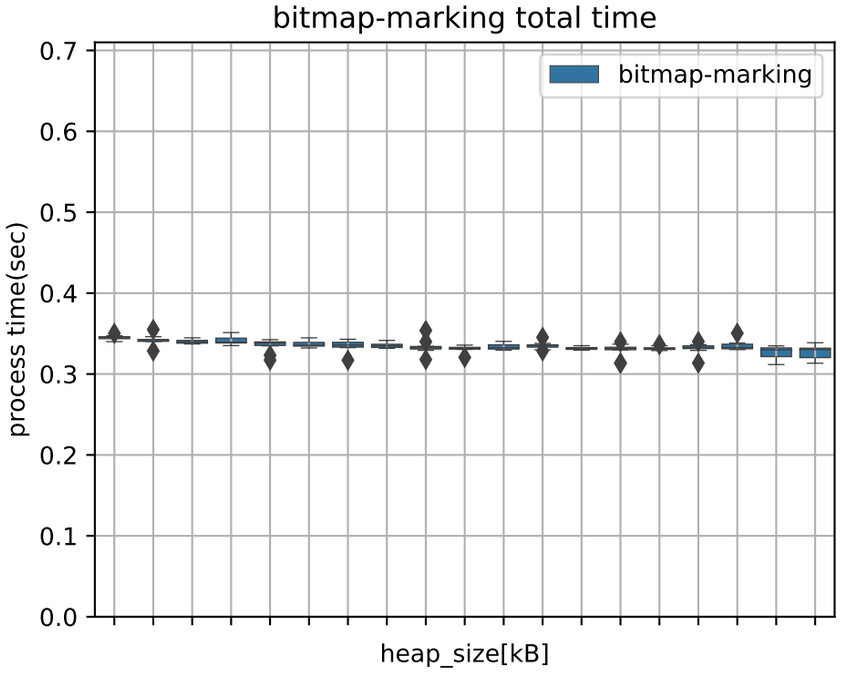

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7


marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7


refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8


bm_mergesort_hongli
process time(sec)
0.0
0.1
0.2
0.3
0.4
44584
49584
54584
59584
64584
69584
74584
79584
84584
89584
94584
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount


bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8


bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]
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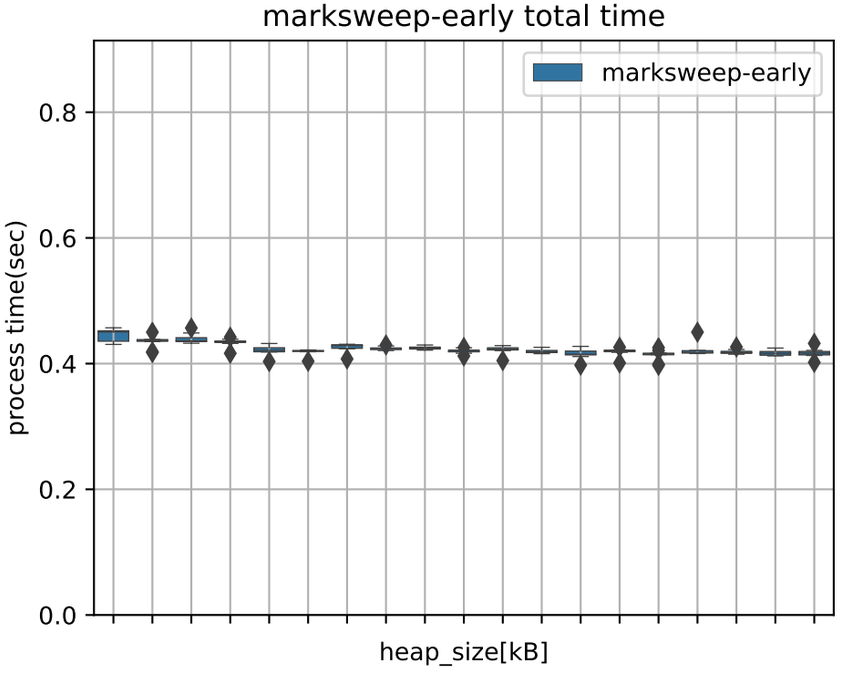
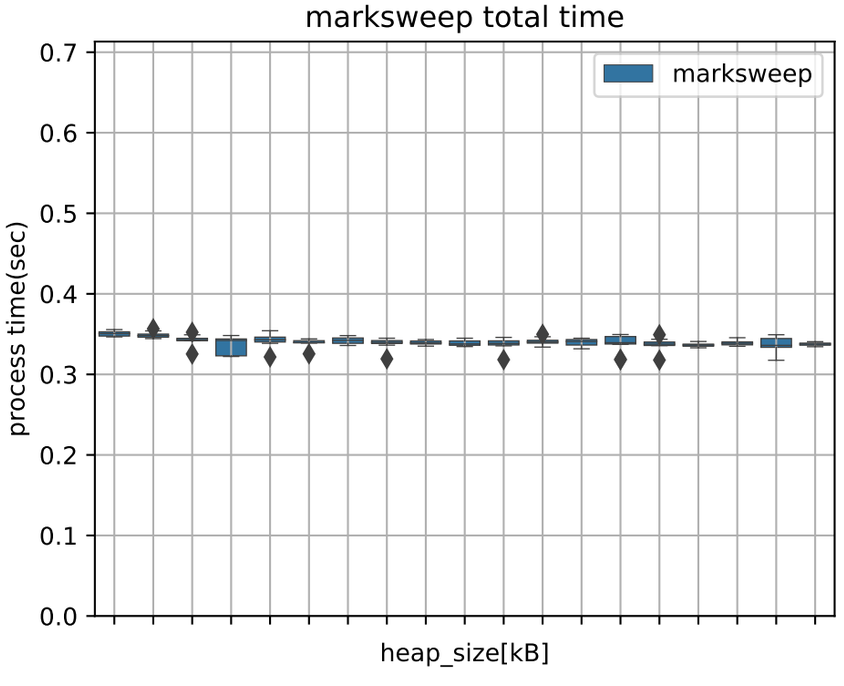
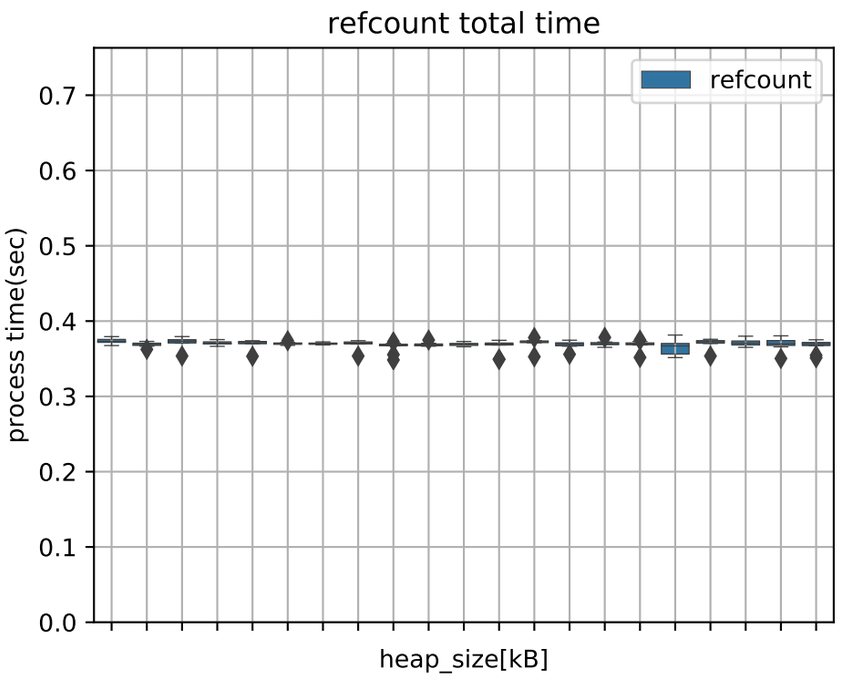
0.1
0.2
0.3
0.4
0.5
0.6
0.7


marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8


marksweep total time
marksweep
process time(sec)
heap_size[kB]
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7


refcount total time
refcount
process time(sec)
heap_size[kB]
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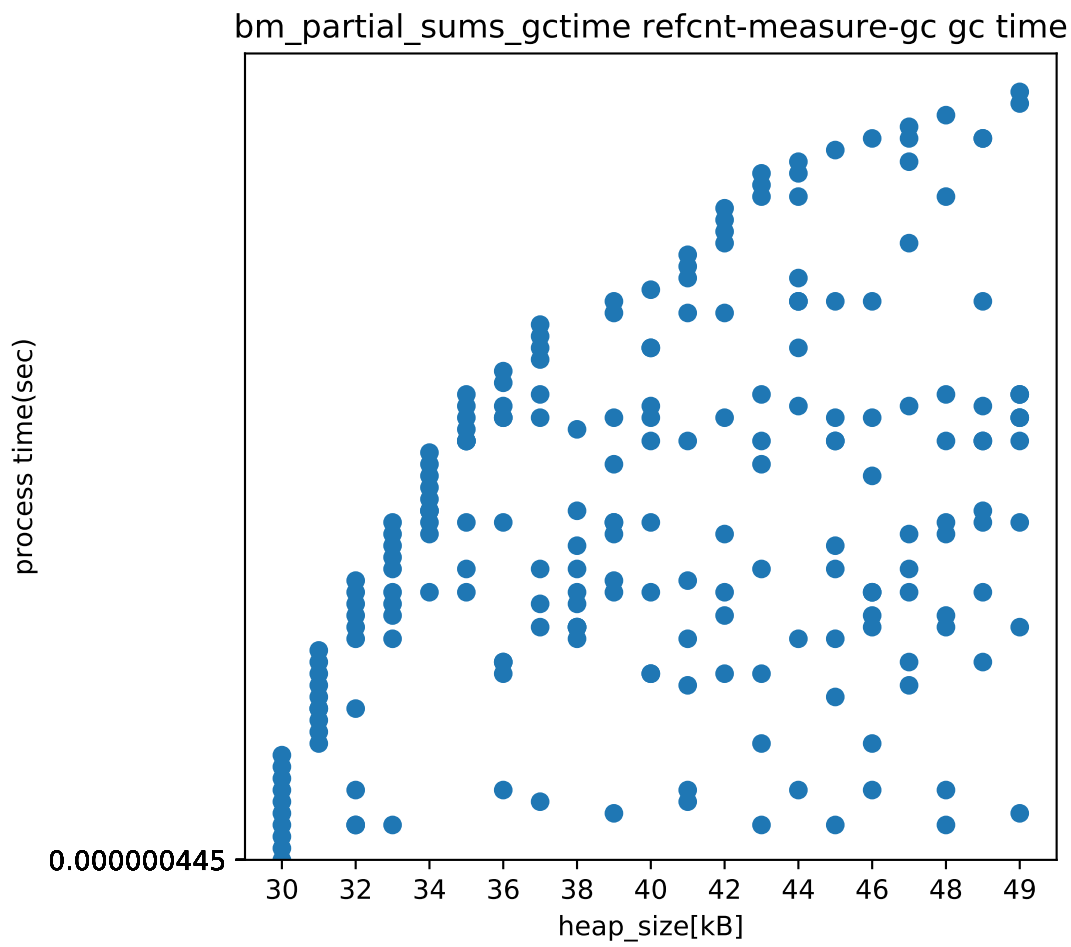
0.1
0.2
0.3
0.4
0.5
0.6
0.7


bm_partial_sums_gctime refcnt-measure-gc gc time
process time(sec)
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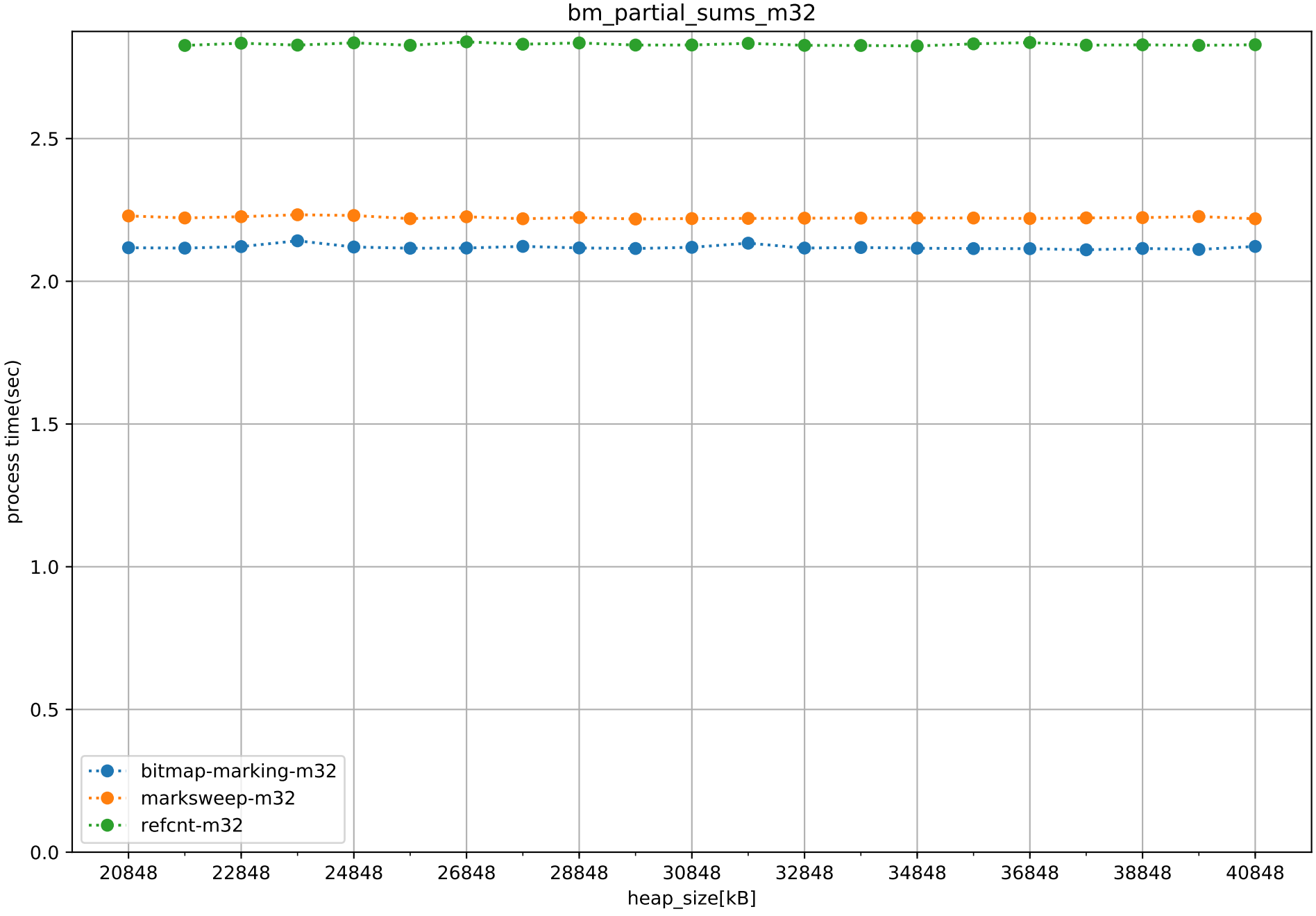
30
32
34
36
38
40
42
44
46
48
49
heap_size[kB]


bm_partial_sums_m32
process time(sec)
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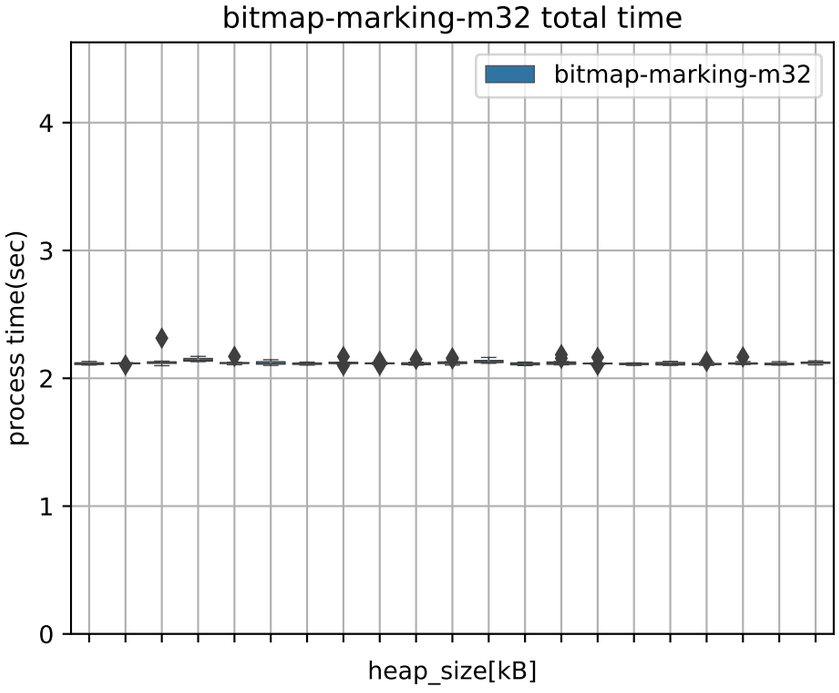
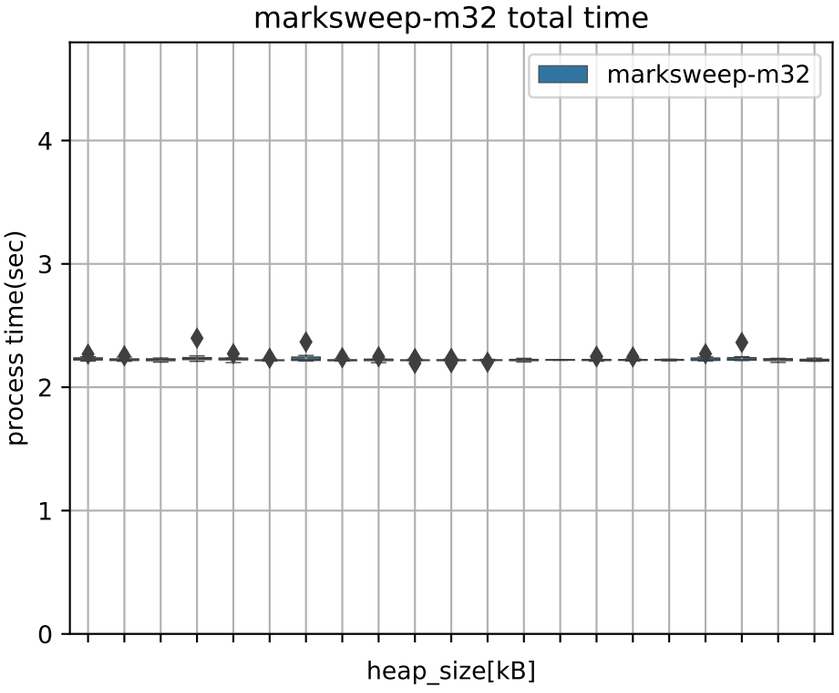
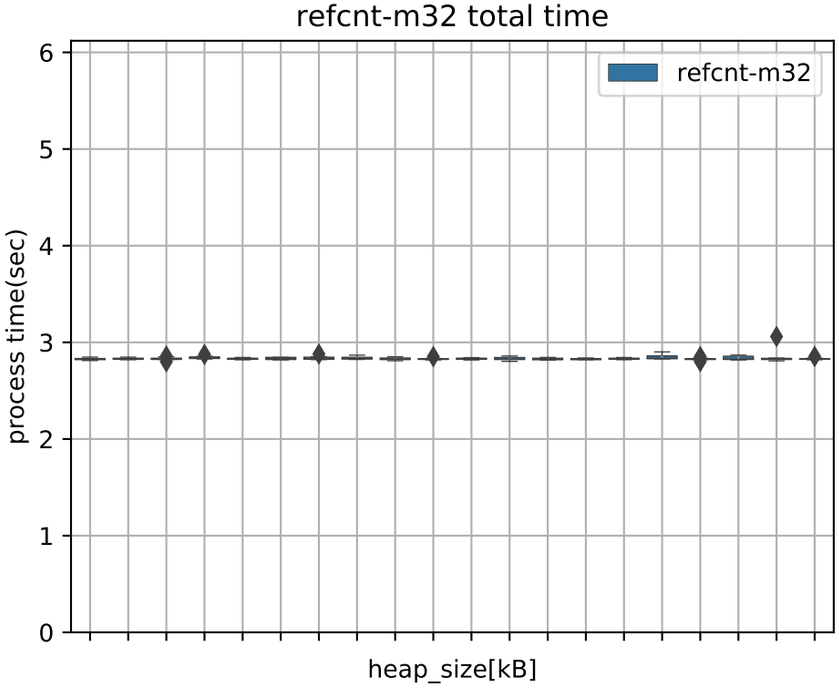
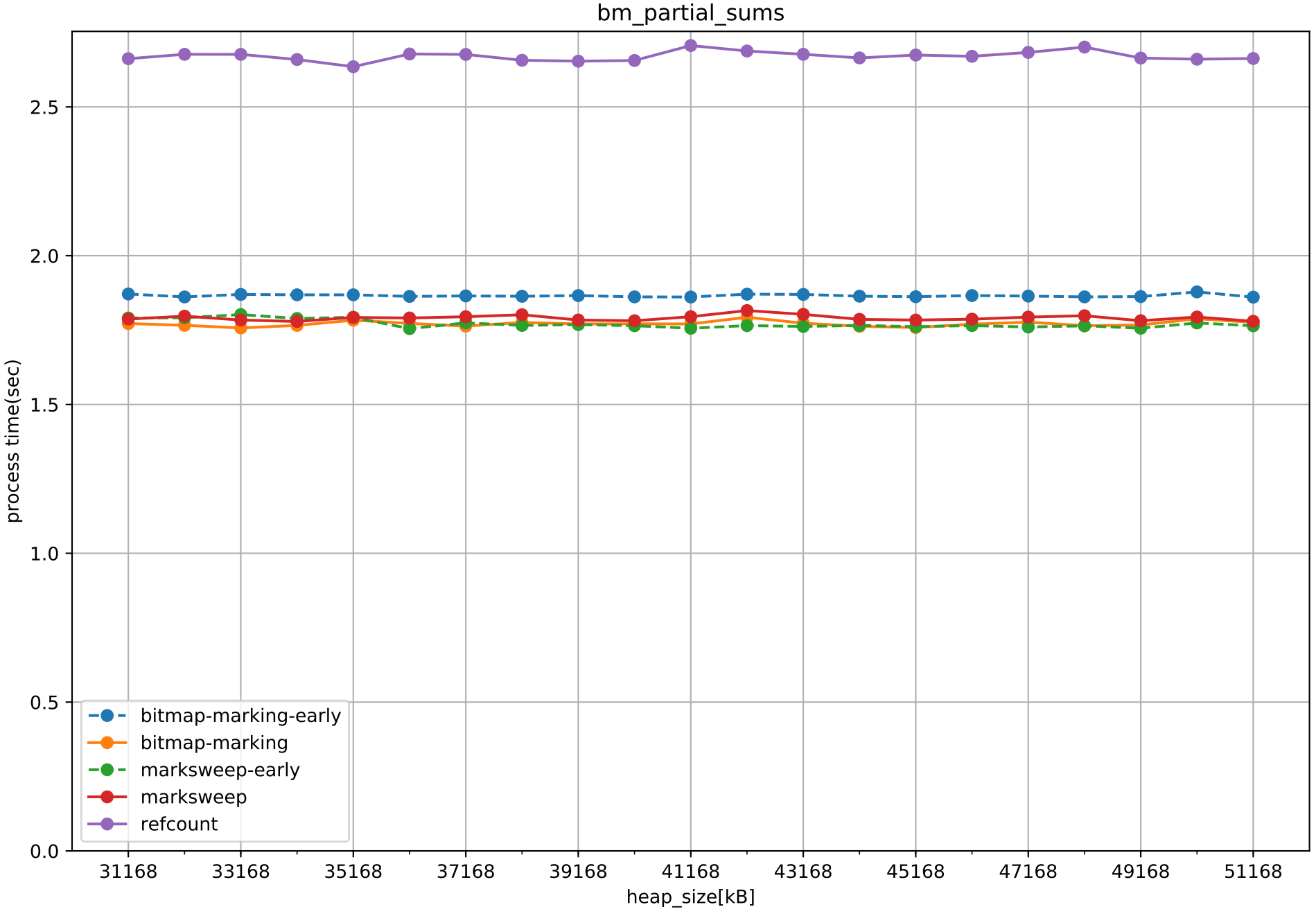
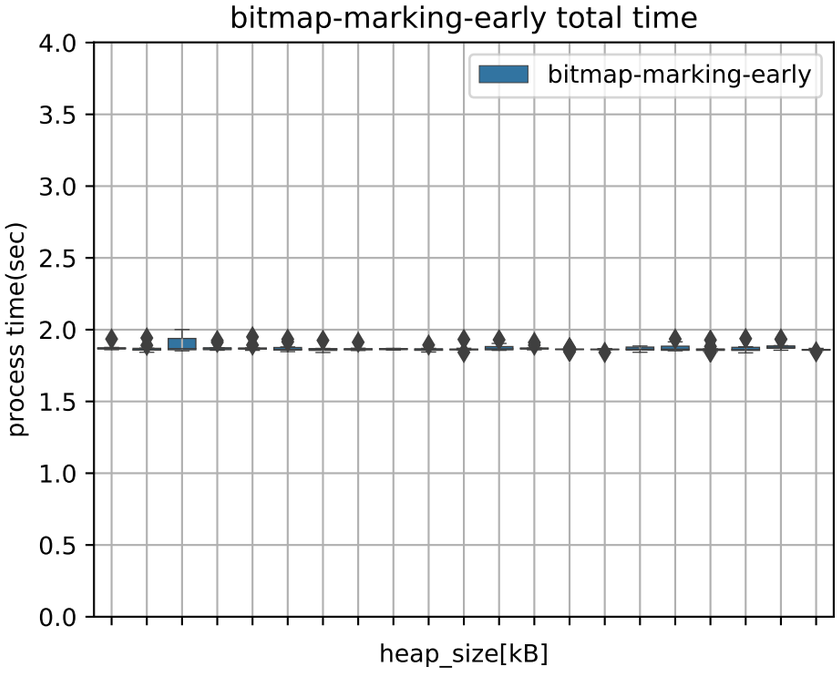
0.5
1.0
1.5
2.0
2.5
20848
22848
24848
26848
28848
30848
32848
34848
36848
38848
40848
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

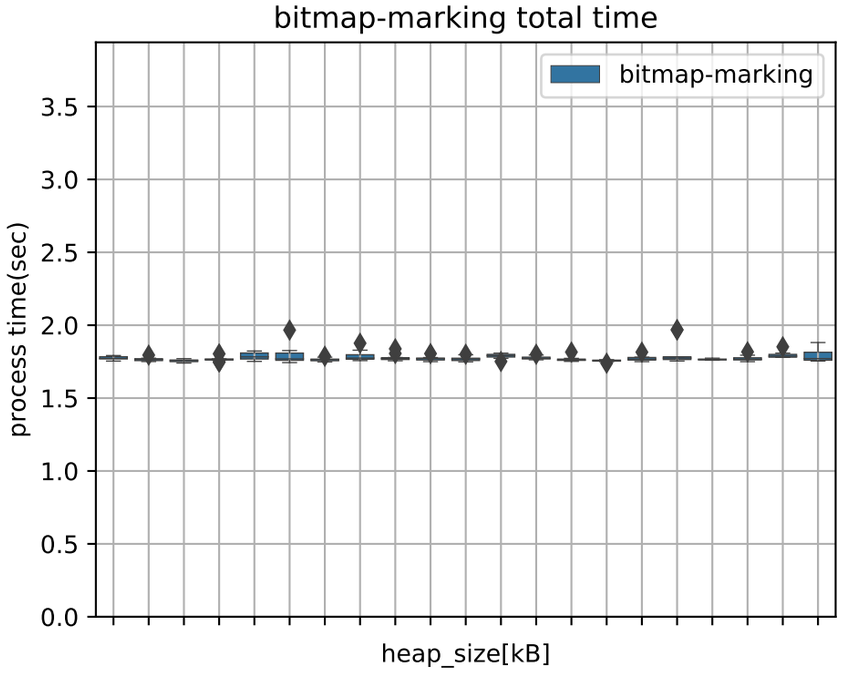

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0
1
2
3
4

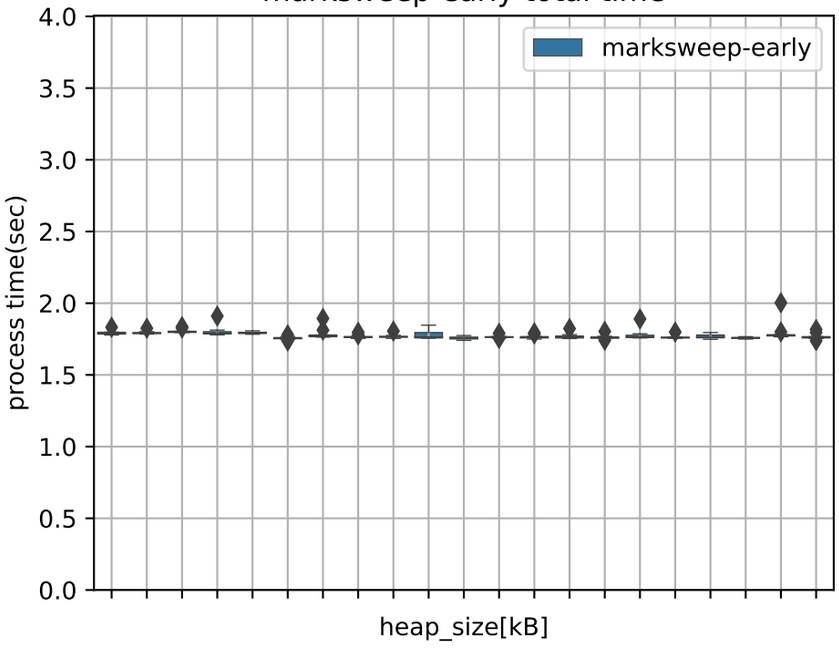

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0
1
2
3
4

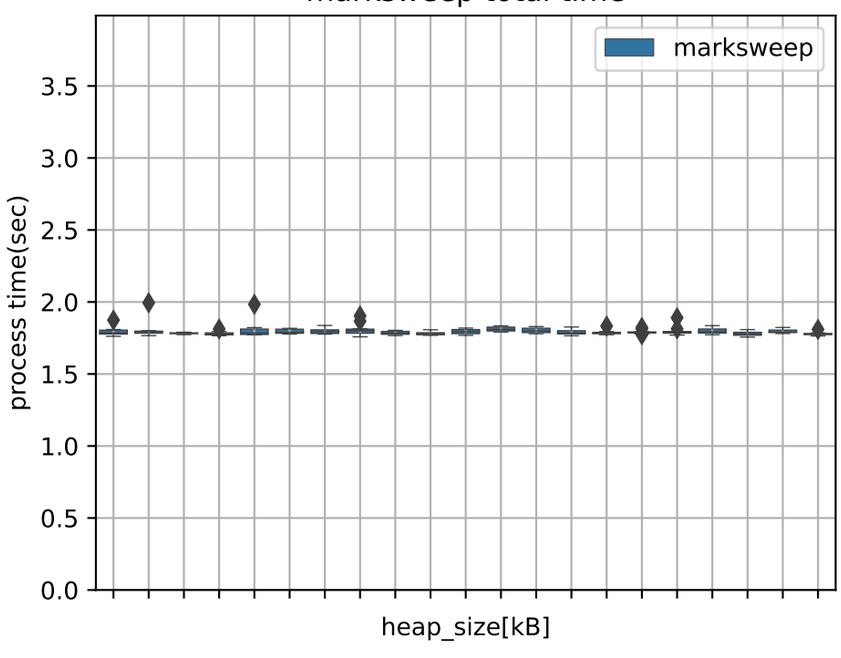

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0
1
2
3
4
5
6

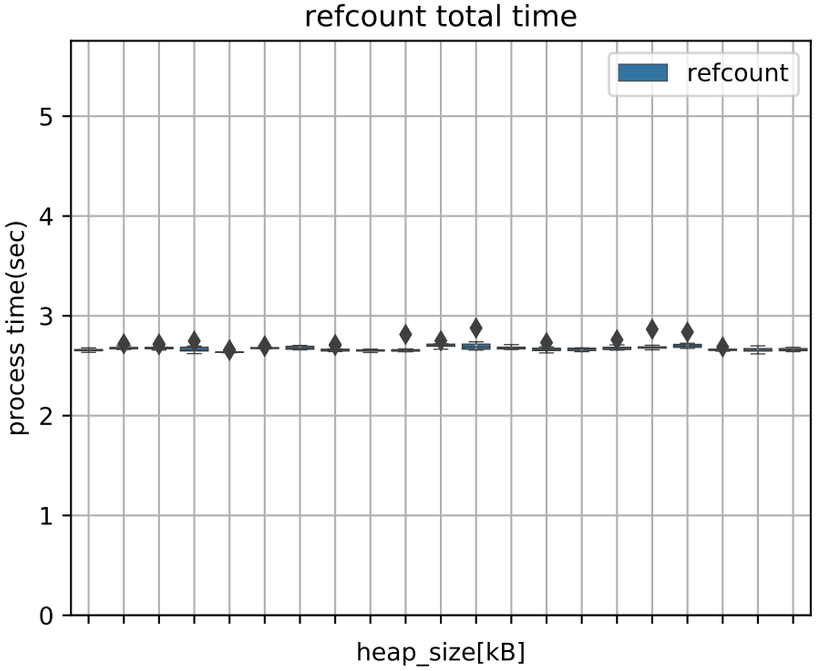

bm_partial_sums
process time(sec)
0.0
0.5
1.0
1.5
2.0
2.5
31168
33168
35168
37168
39168
41168
43168
45168
47168
49168
51168
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

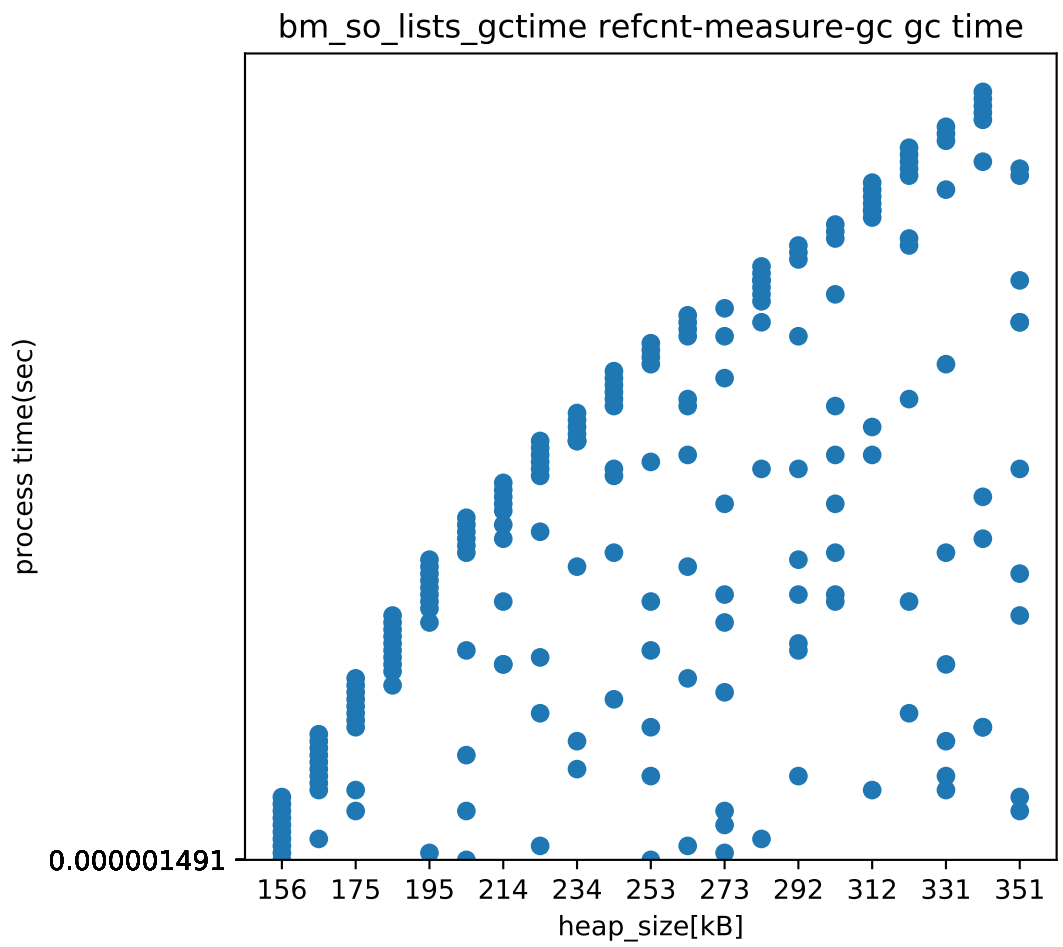

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

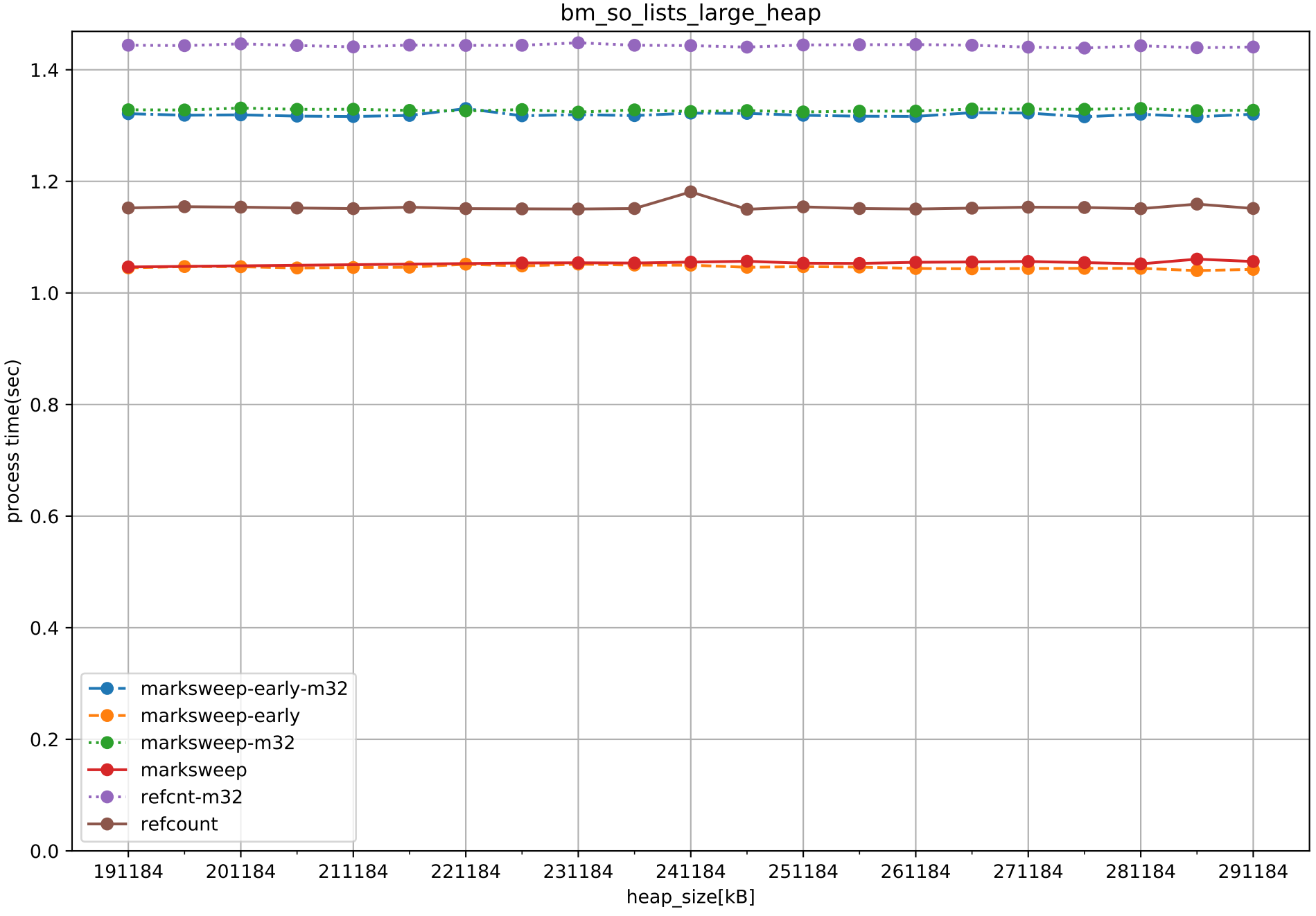

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]

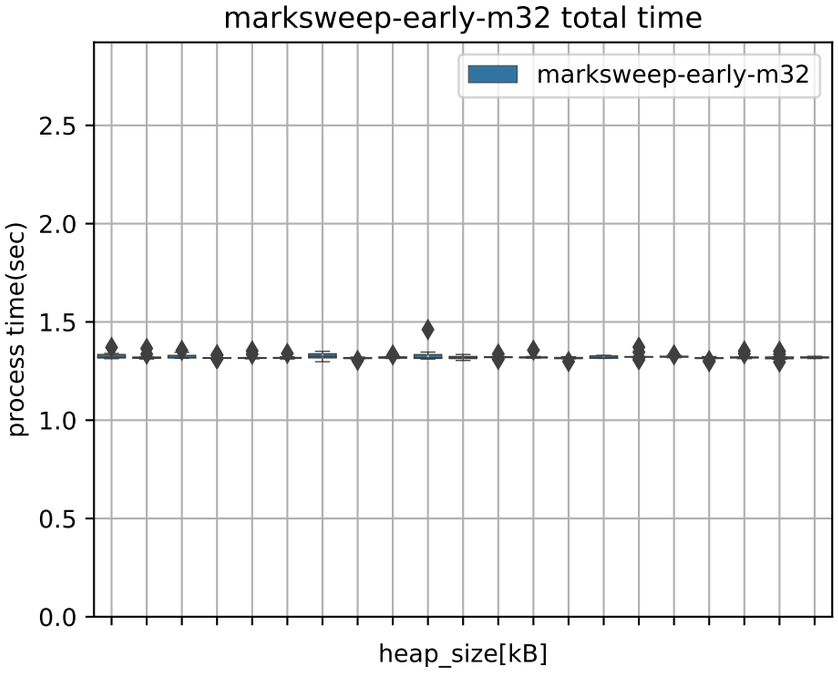

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

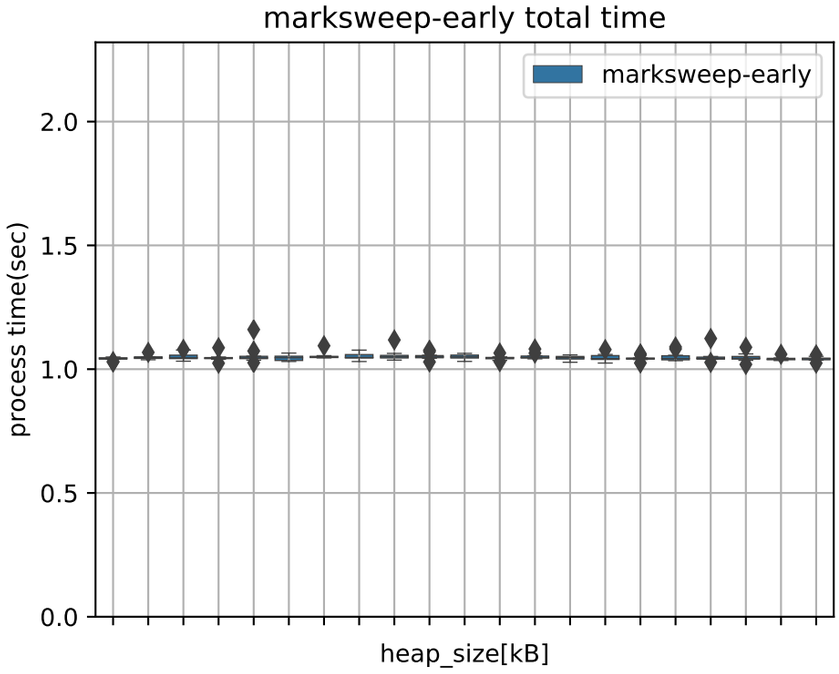

marksweep total time
marksweep
process time(sec)
heap_size[kB]

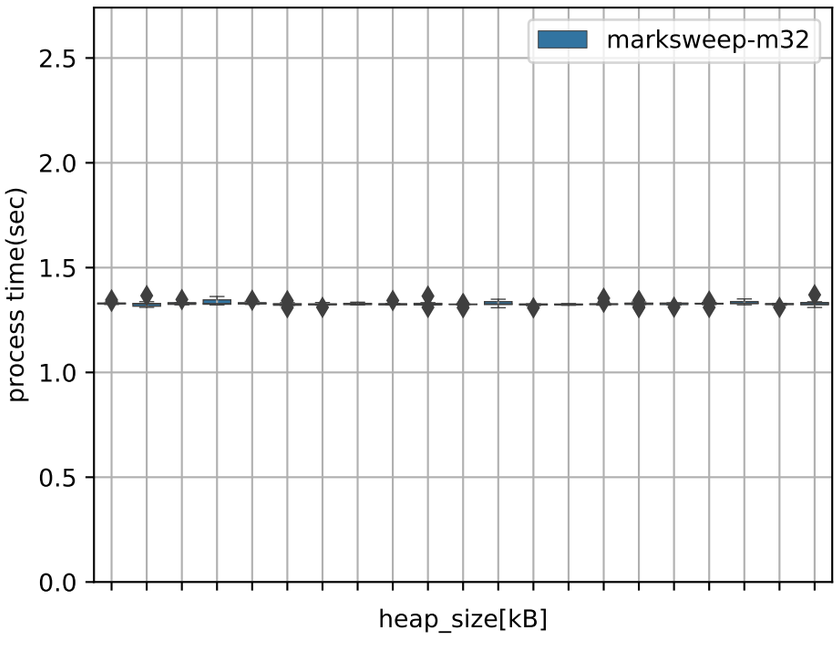

refcount total time
refcount
process time(sec)
heap_size[kB]

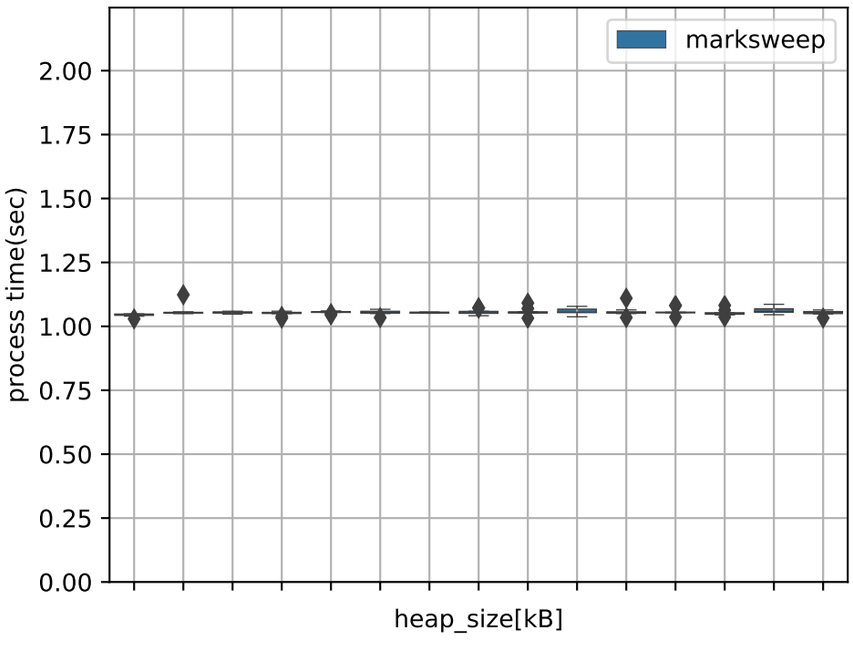

bm_so_lists_gctime refcnt-measure-gc gc time
process time(sec)
0.000001491
156
175
195
214
234
253
273
292
312
331
351
heap_size[kB]

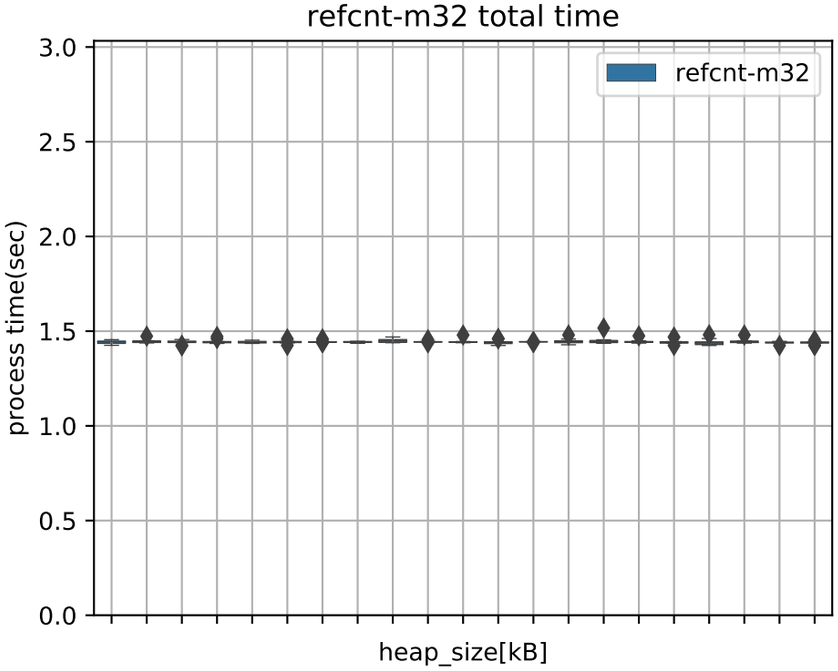

bm_so_lists_large_heap
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
191184
201184
211184
221184
231184
241184
251184
261184
271184
281184
291184
marksweep-early-m32
marksweep-early
marksweep-m32
marksweep
refcnt-m32
refcount

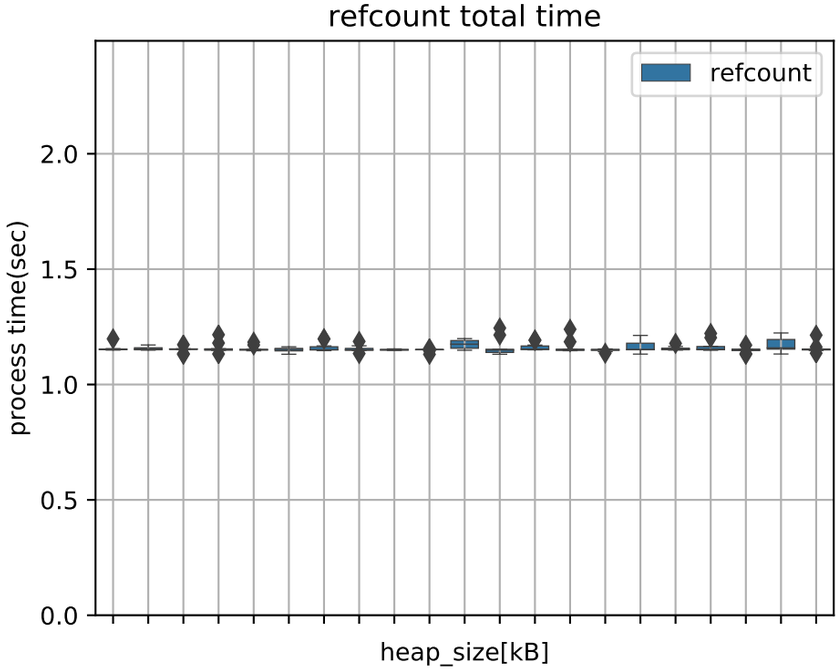

marksweep-early-m32 total time
marksweep-early-m32
process time(sec)
heap_size[kB]

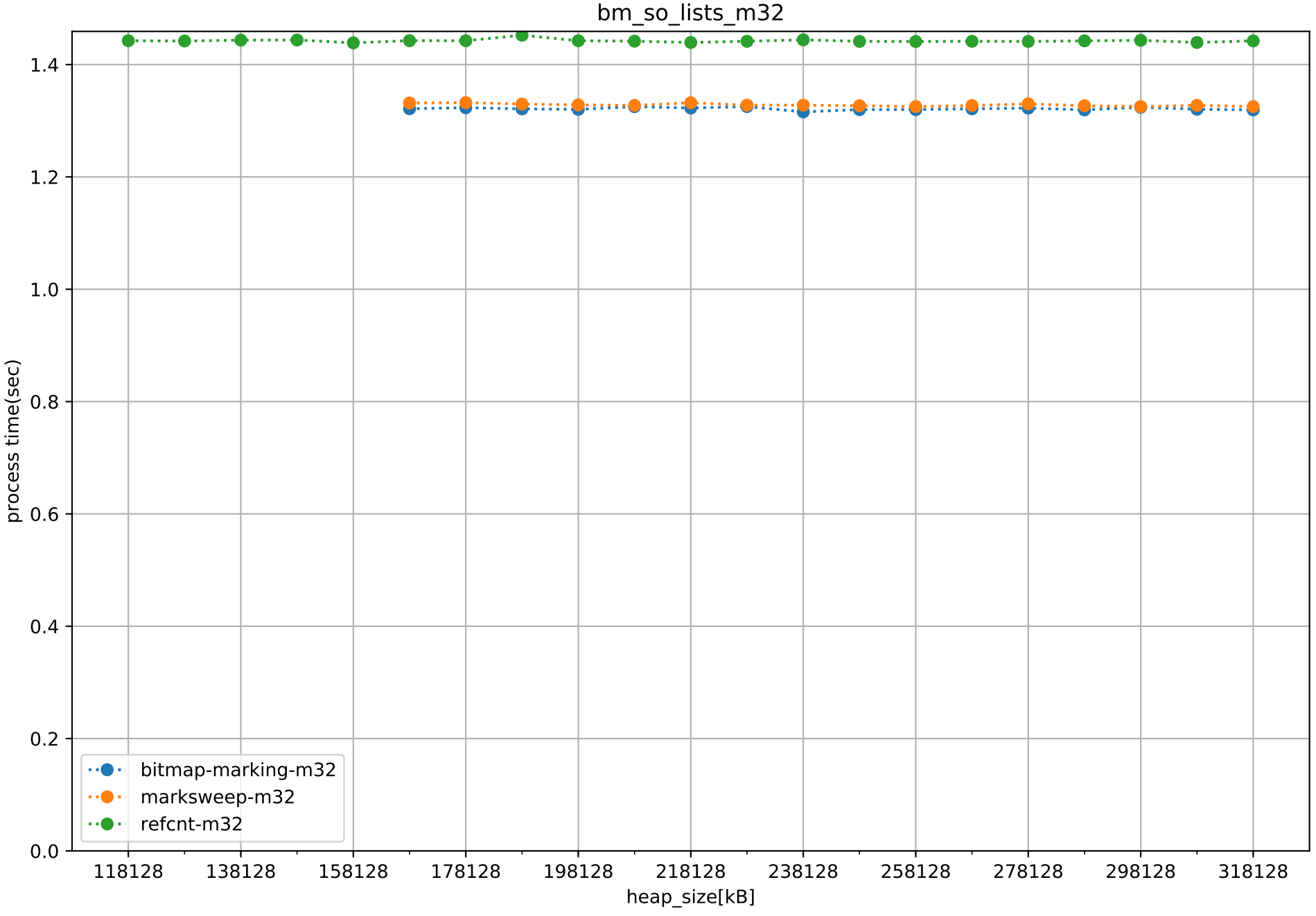

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

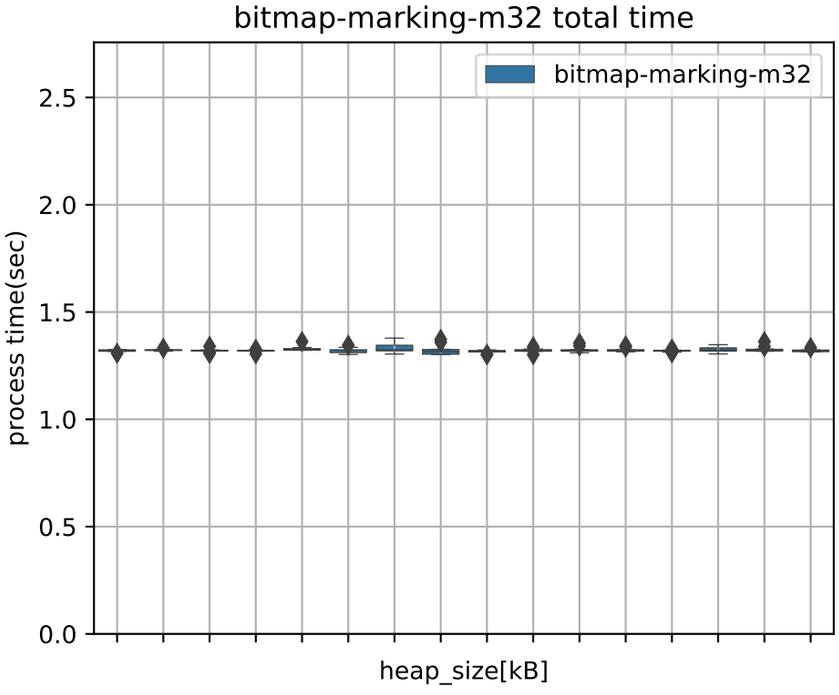

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]

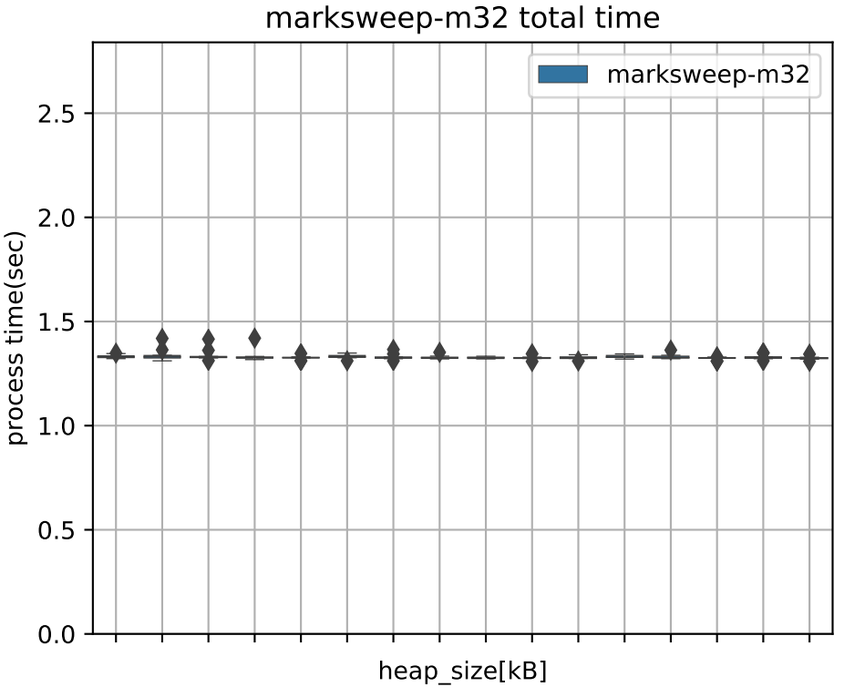

marksweep total time
marksweep
process time(sec)
heap_size[kB]

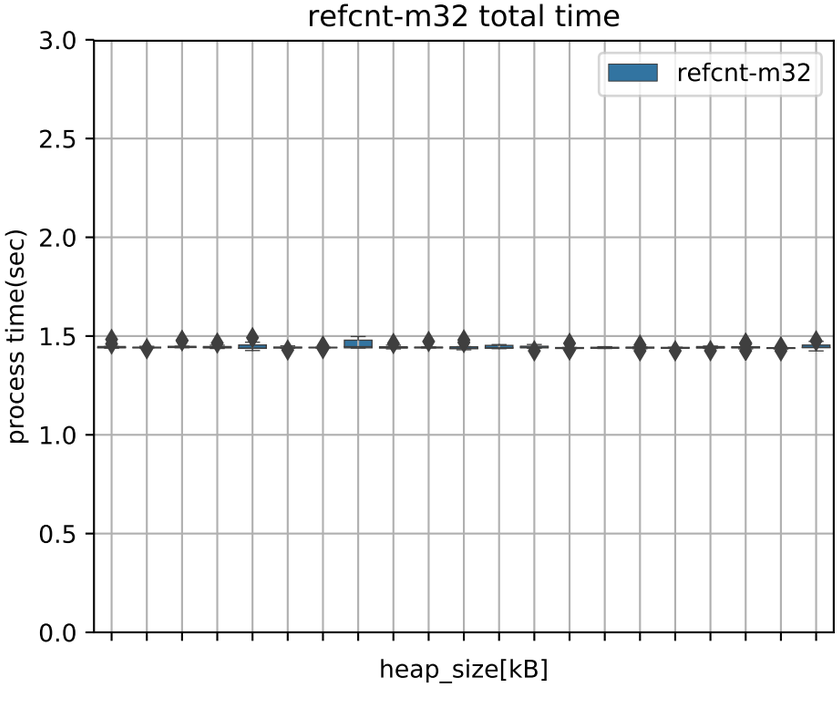

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]

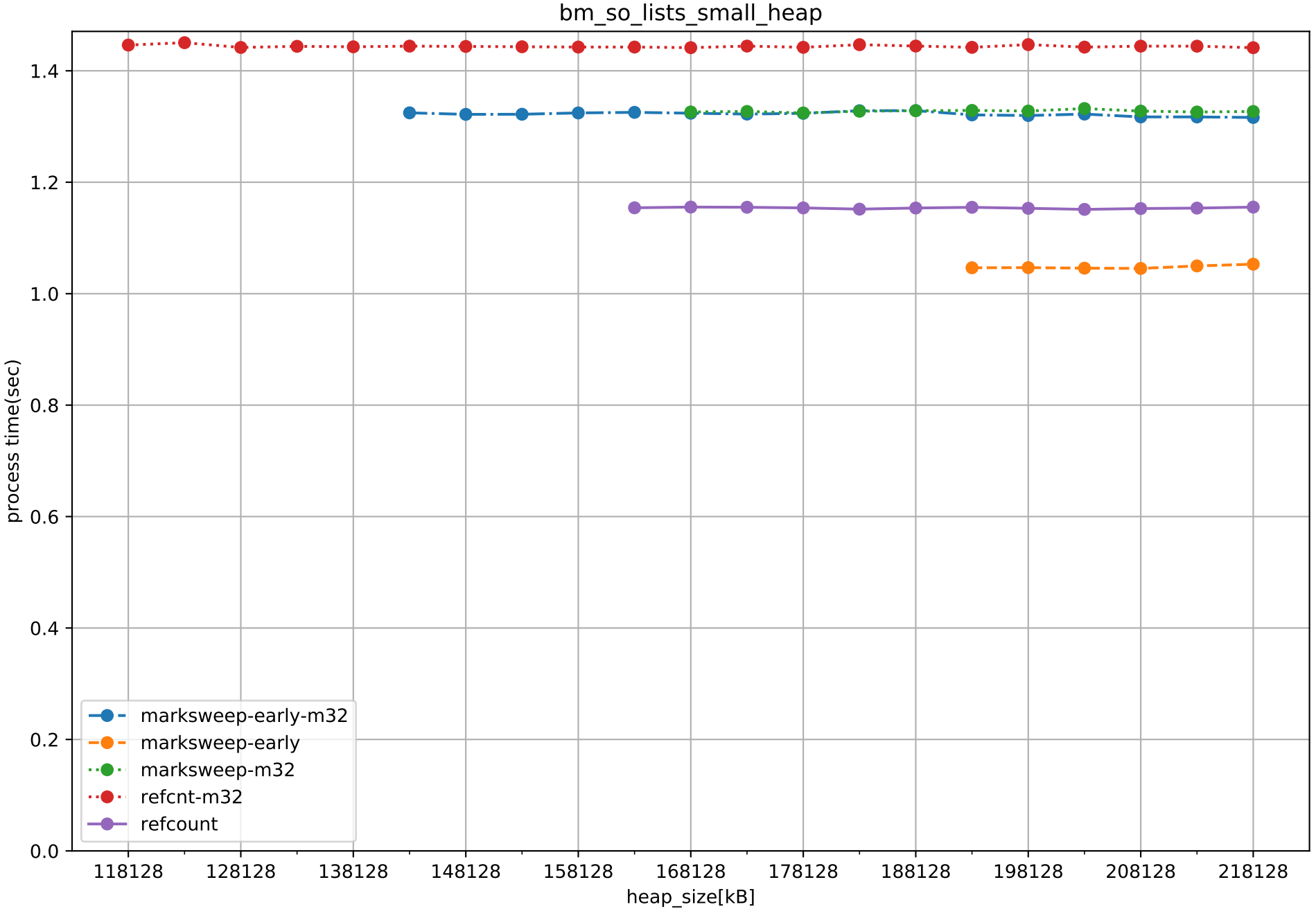

refcount total time
refcount
process time(sec)
heap_size[kB]

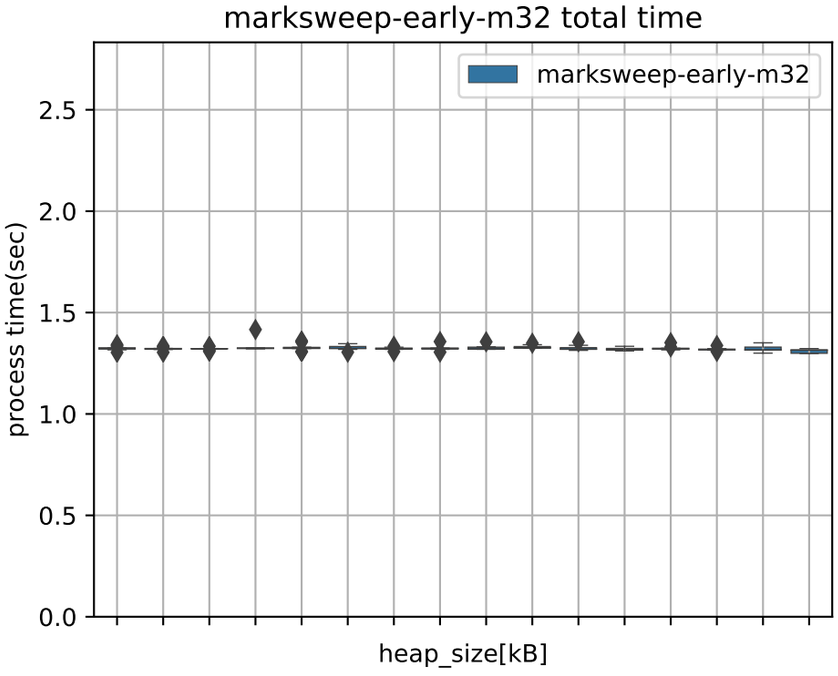

bm_so_lists_m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
118128
138128
158128
178128
198128
218128
238128
258128
278128
298128
318128
bitmap-marking-m32
marksweep-m32
refcnt-m32

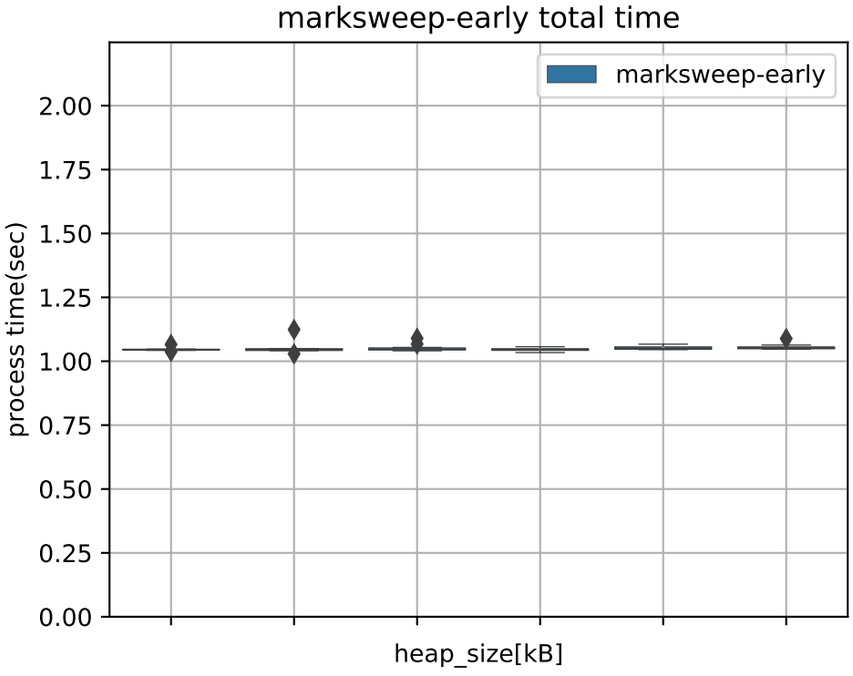

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0
2.5

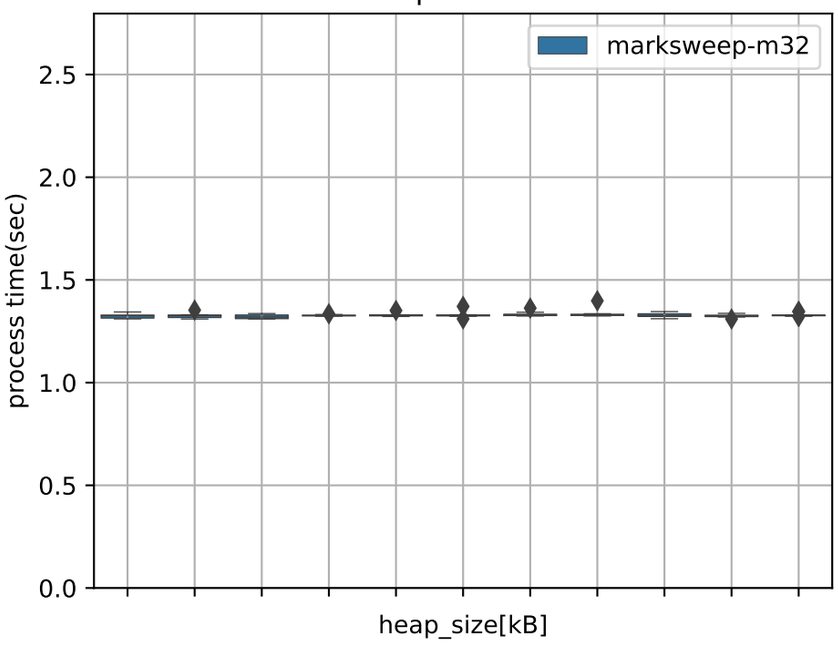

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0
2.5

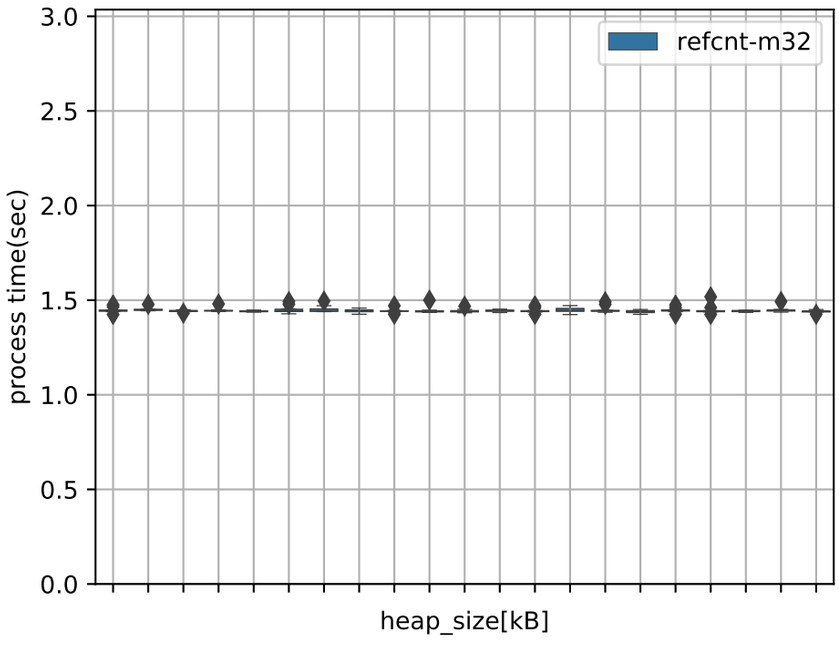

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0
2.5
3.0

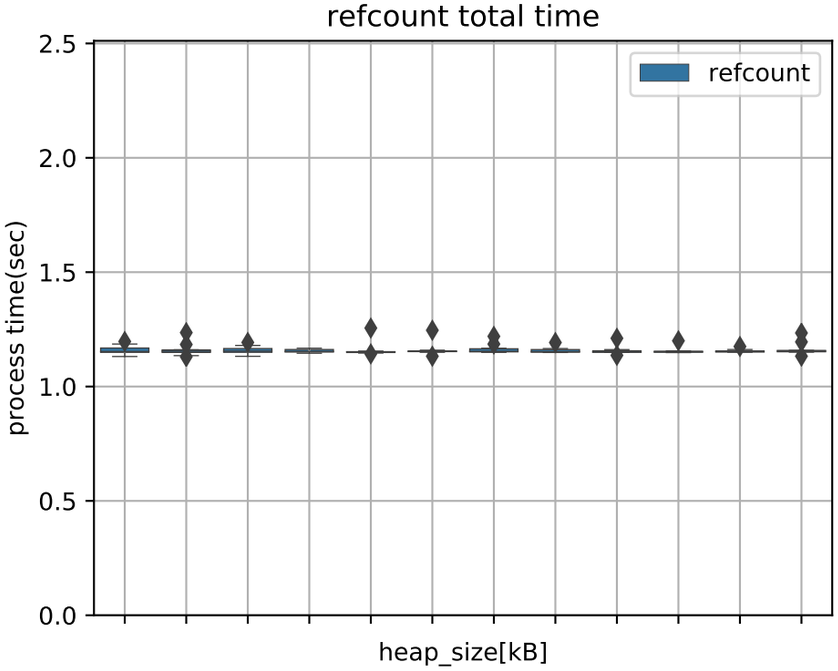

bm_so_lists_small_heap
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
118128
128128
138128
148128
158128
168128
178128
188128
198128
208128
218128
marksweep-early-m32
marksweep-early
marksweep-m32
refcnt-m32
refcount

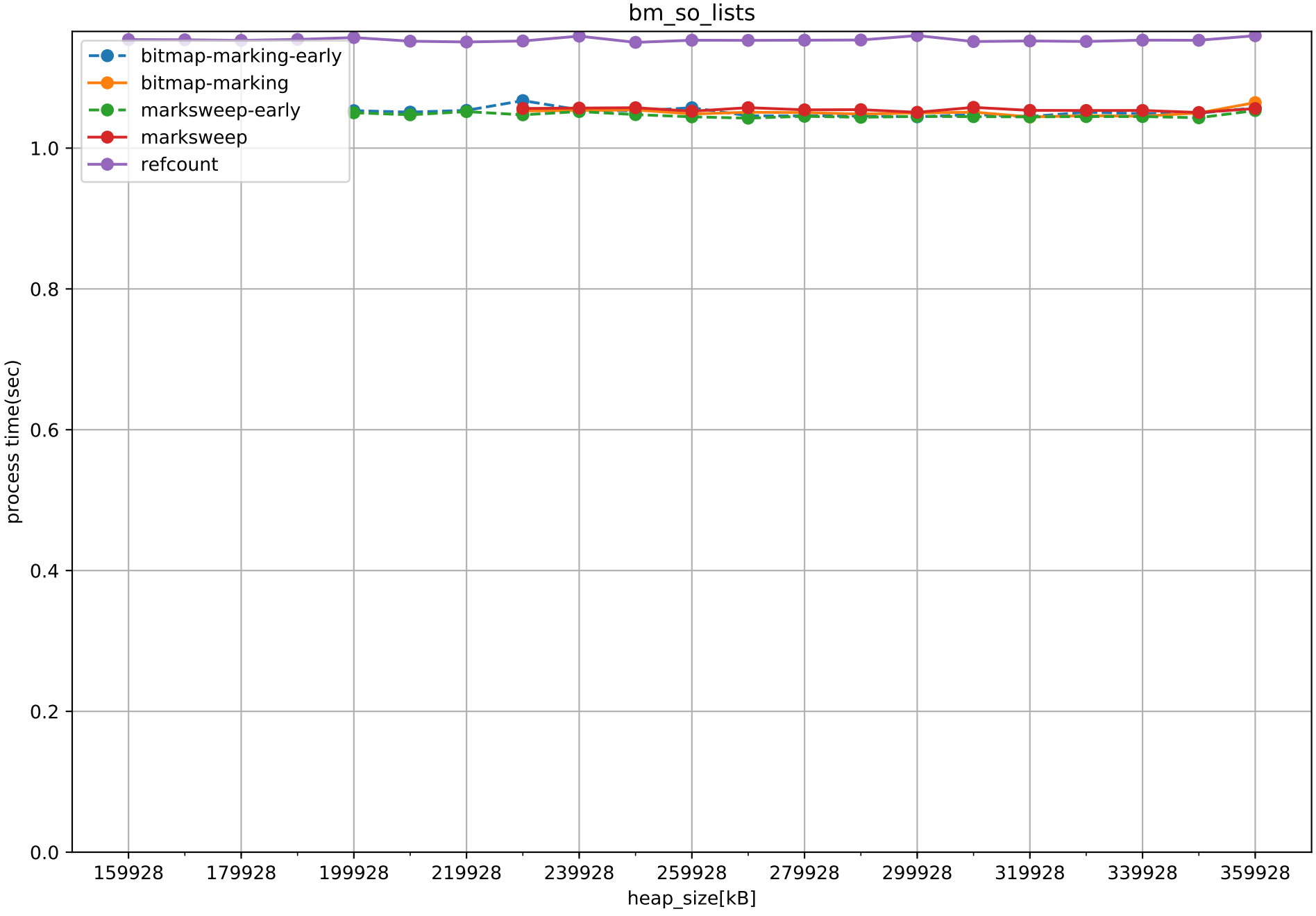

marksweep-early-m32 total time
marksweep-early-m32
process time(sec)
heap_size[kB]

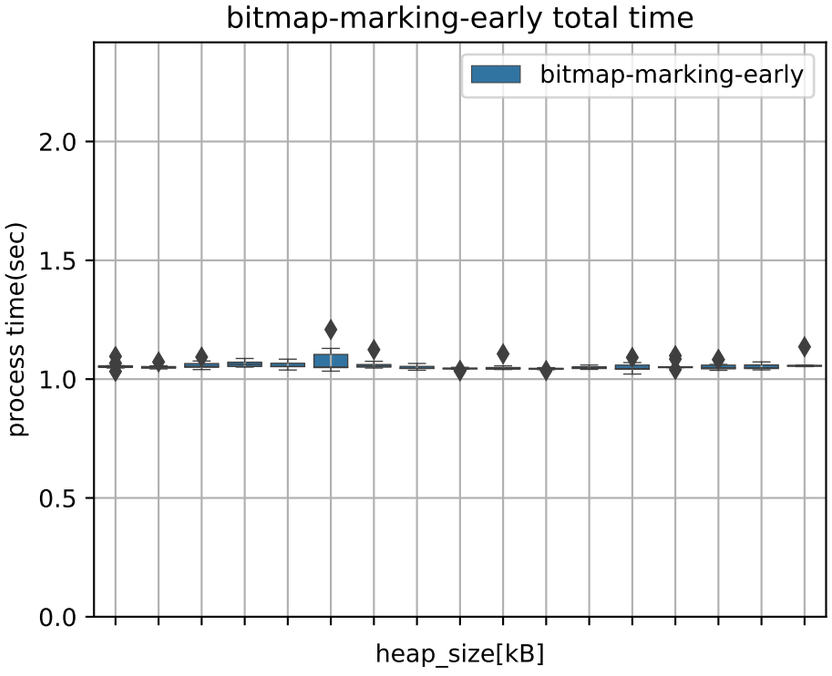

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

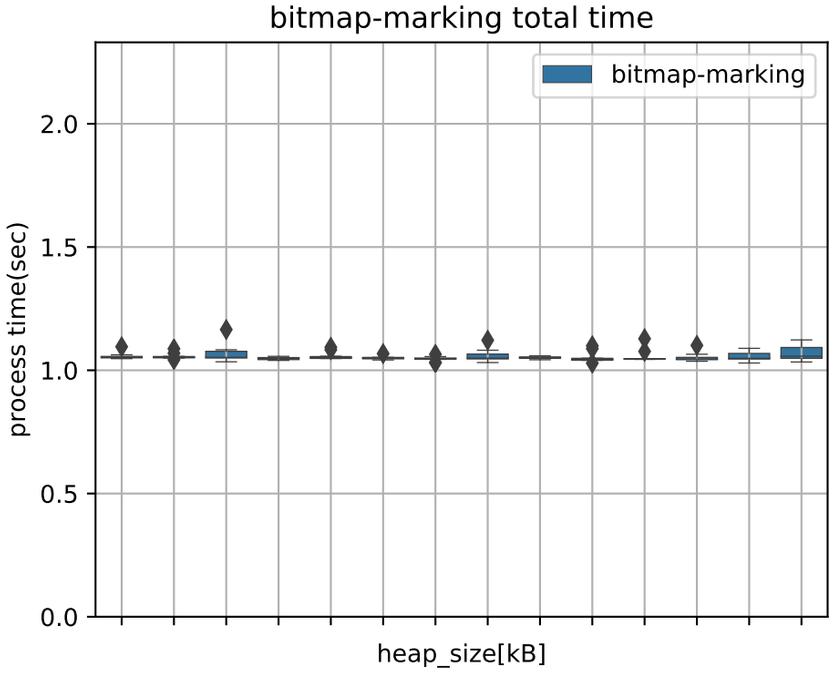

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]

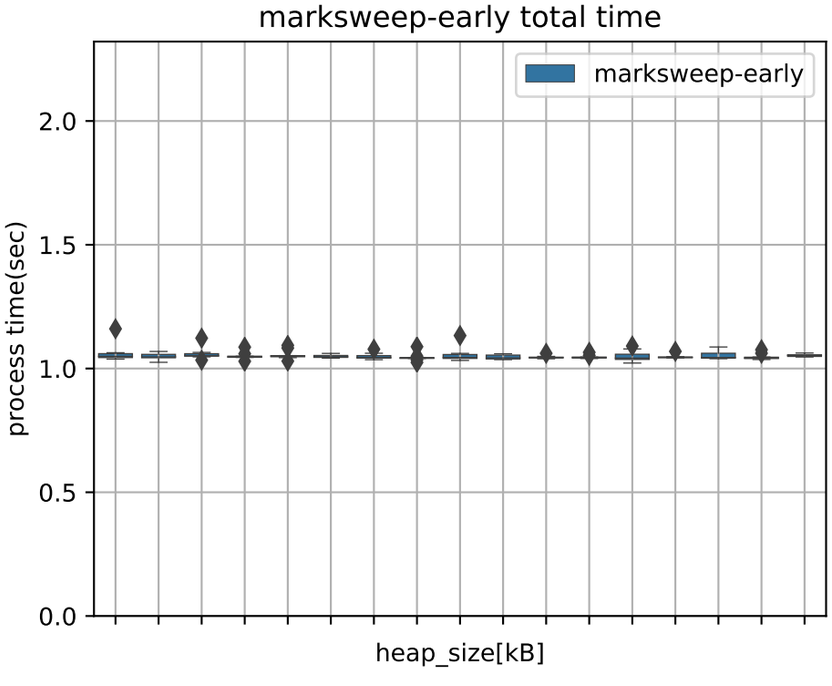

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]

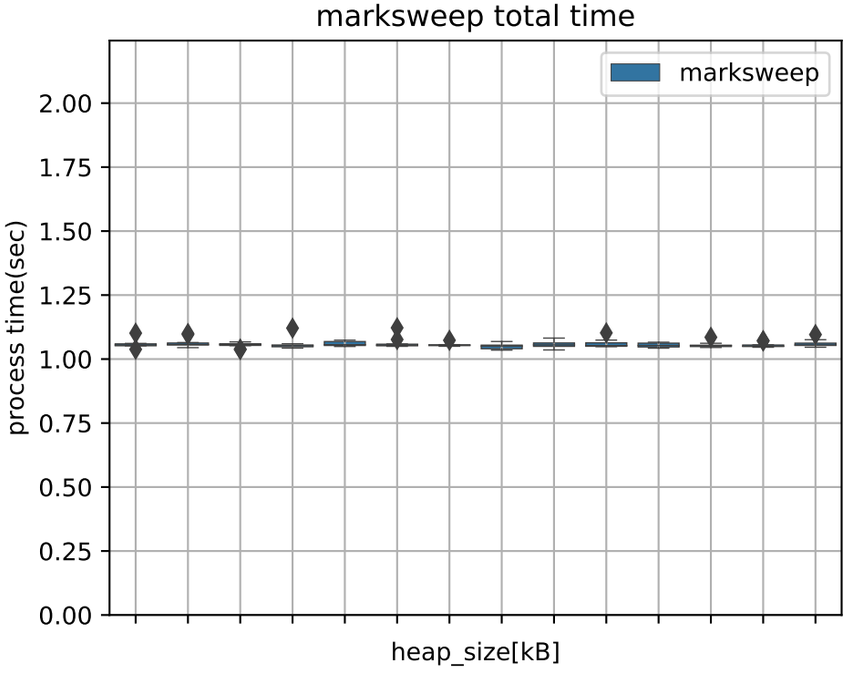

refcount total time
refcount
process time(sec)
heap_size[kB]

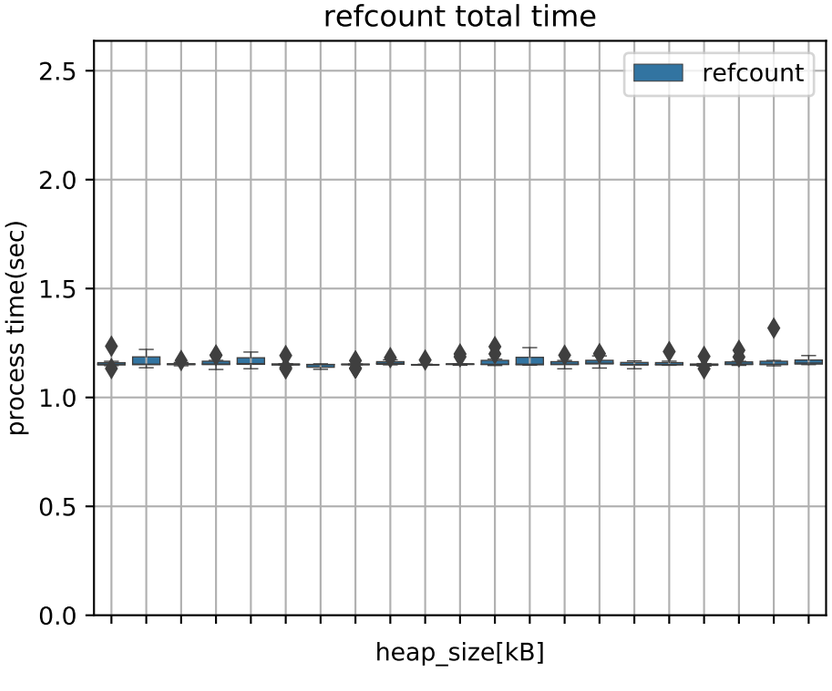

bm_so_lists
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount
process time(sec)
0.0
0.2
0.4
0.6
0.8
1.0
159928
179928
199928
219928
239928
259928
279928
299928
319928
339928
359928
heap_size[kB]

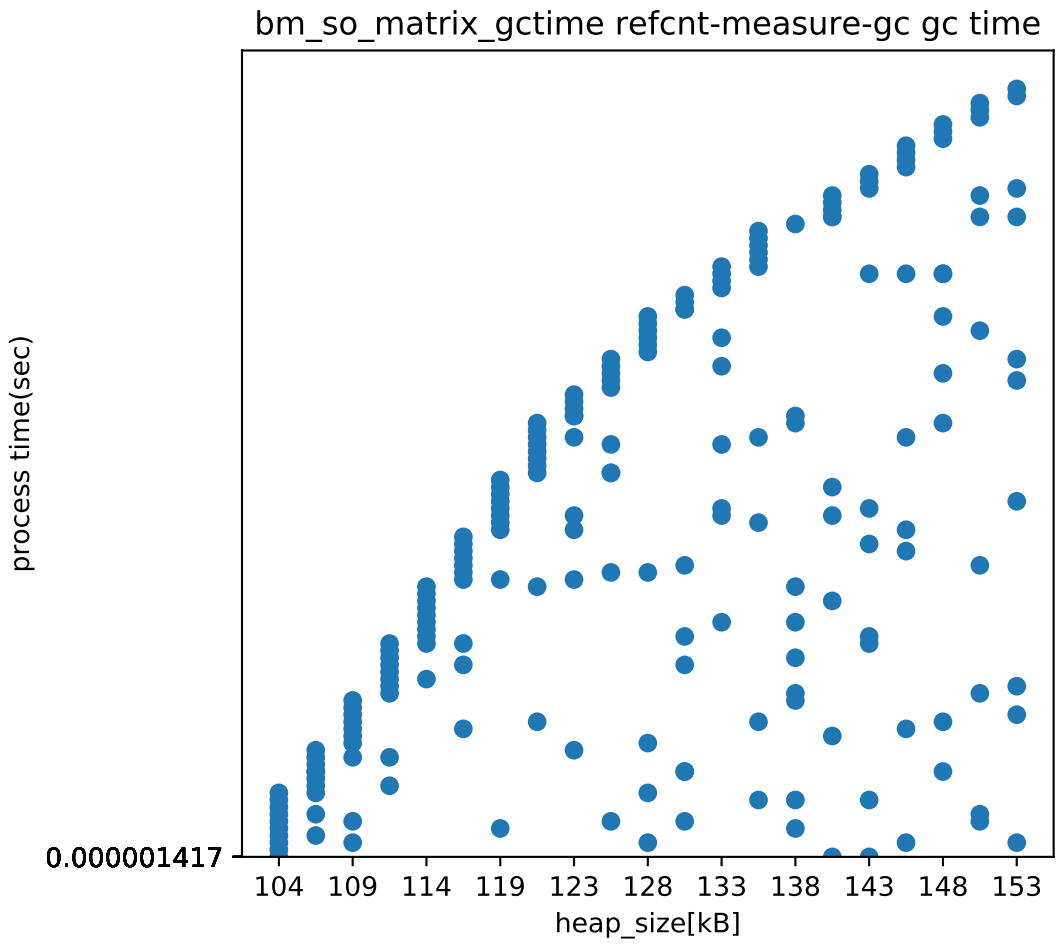

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

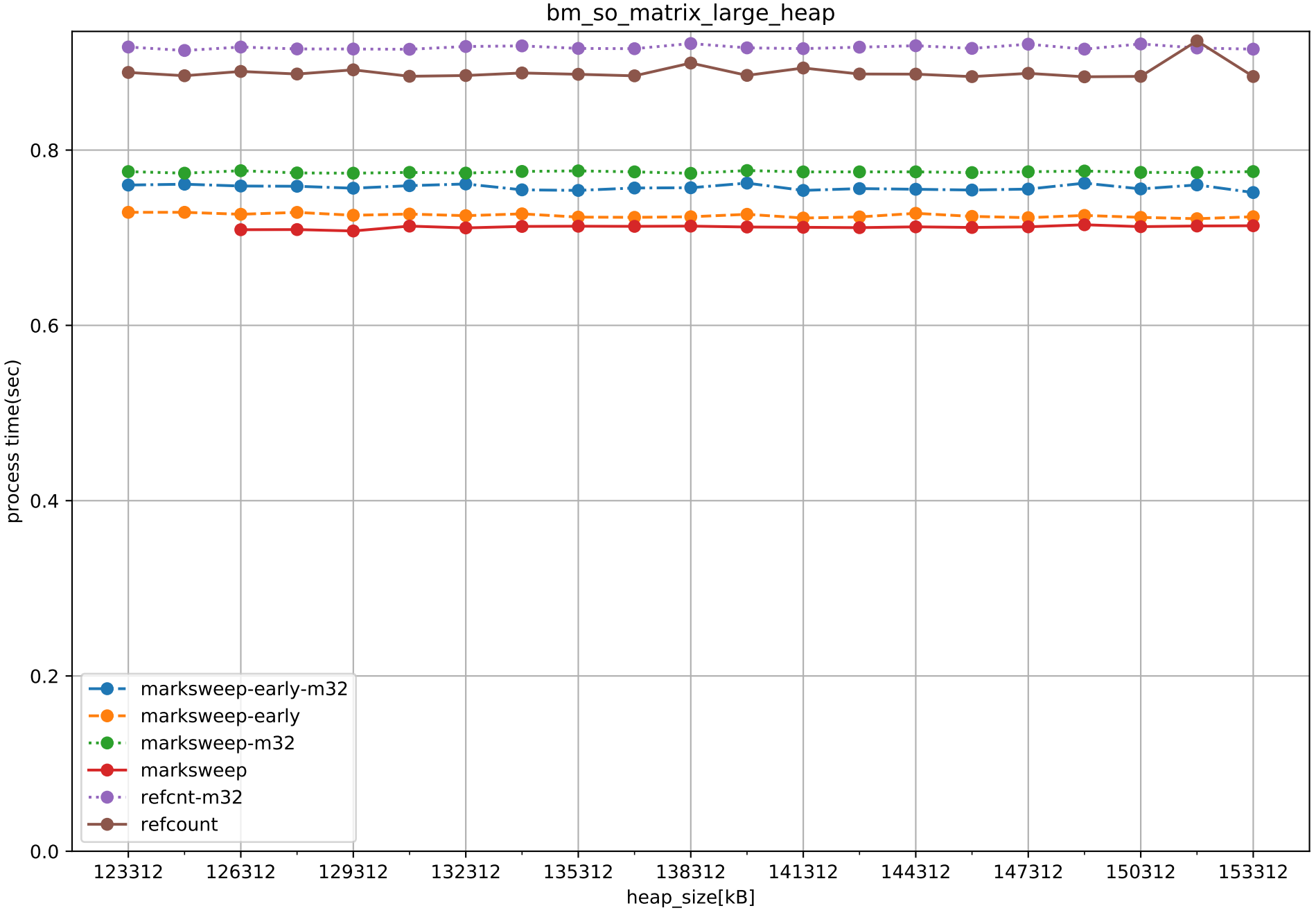

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]

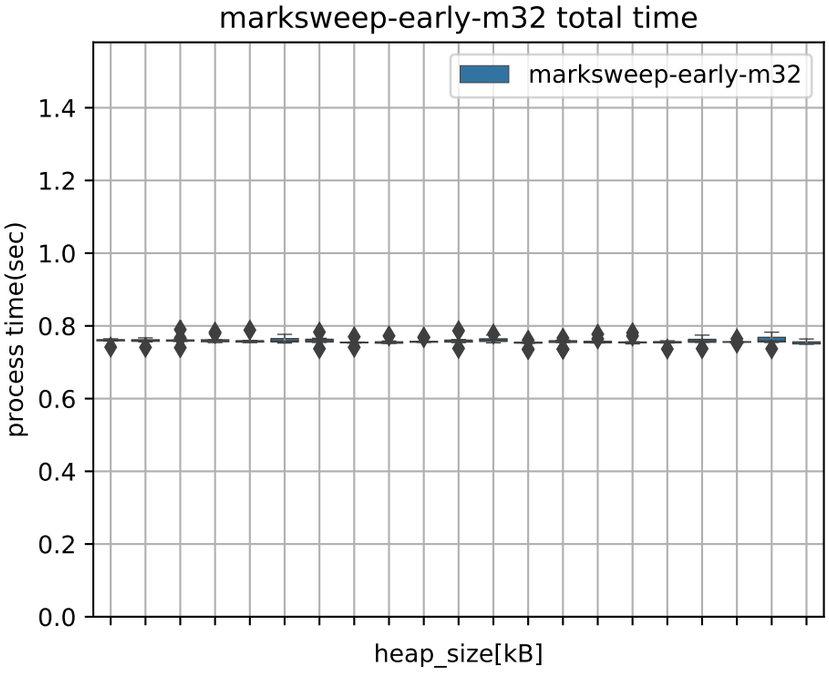

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

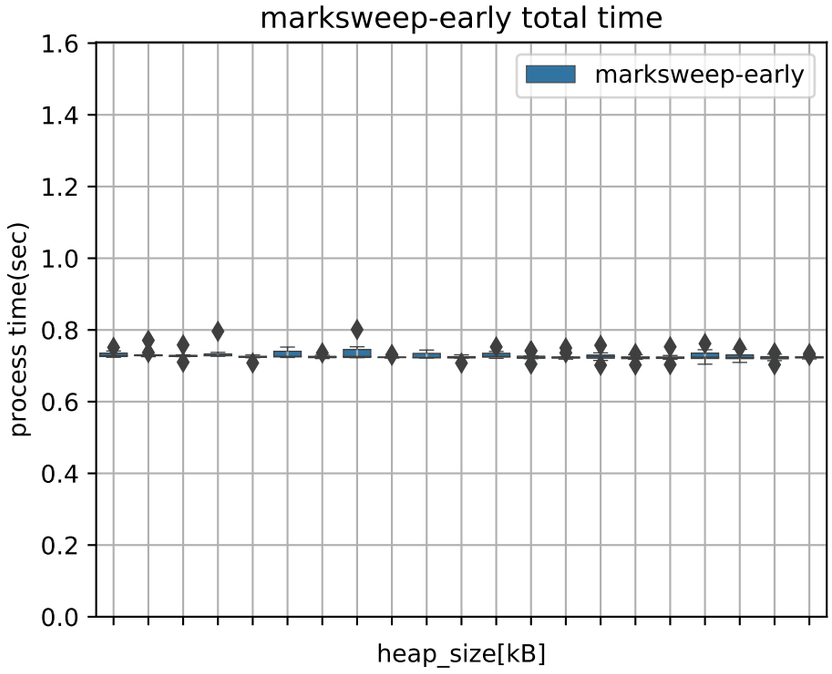

marksweep total time
marksweep
process time(sec)
heap_size[kB]

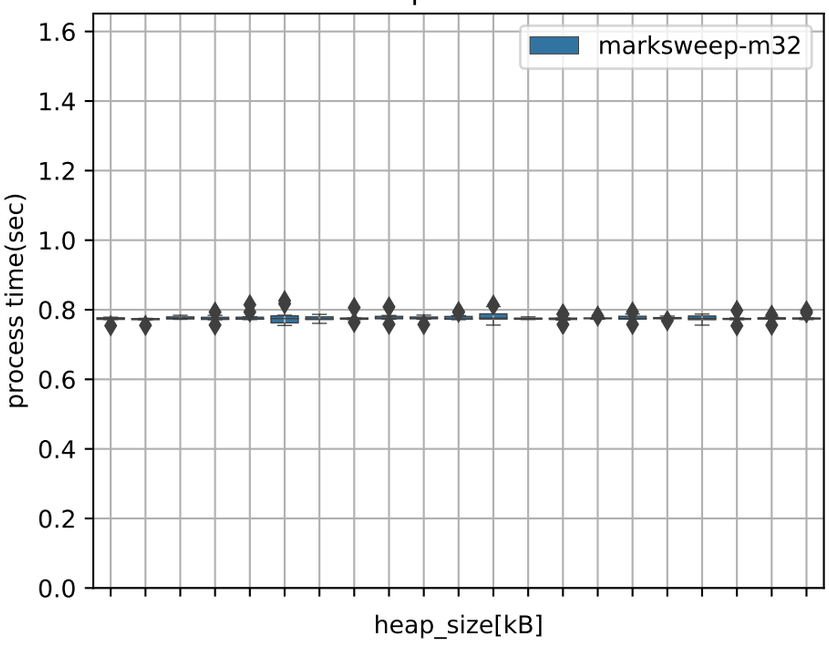

refcount total time
refcount
process time(sec)
heap_size[kB]

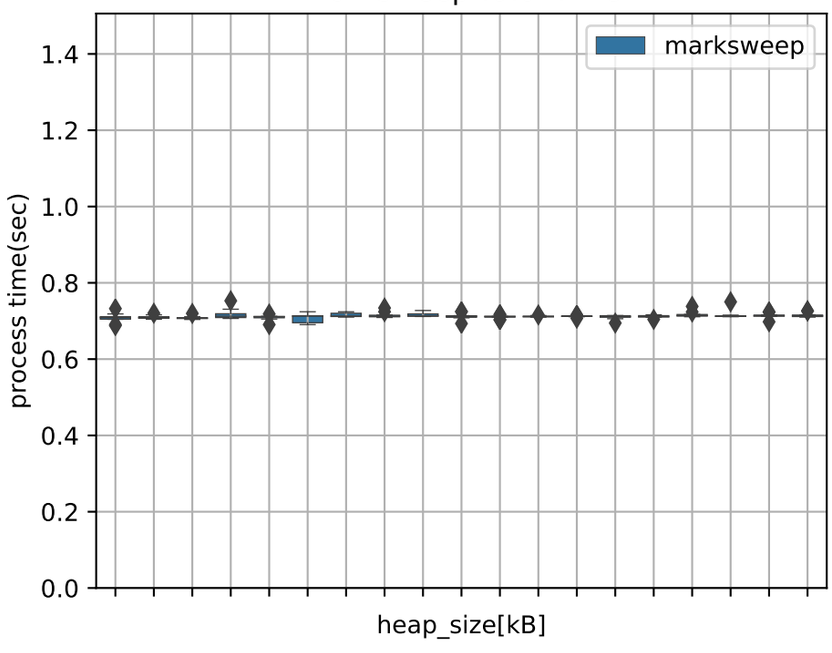

bm_so_matrix_gctime refcnt-measure-gc gc time
process time(sec)
0.000001417
104
109
114
119
123
128
133
138
143
148
153
heap_size[kB]

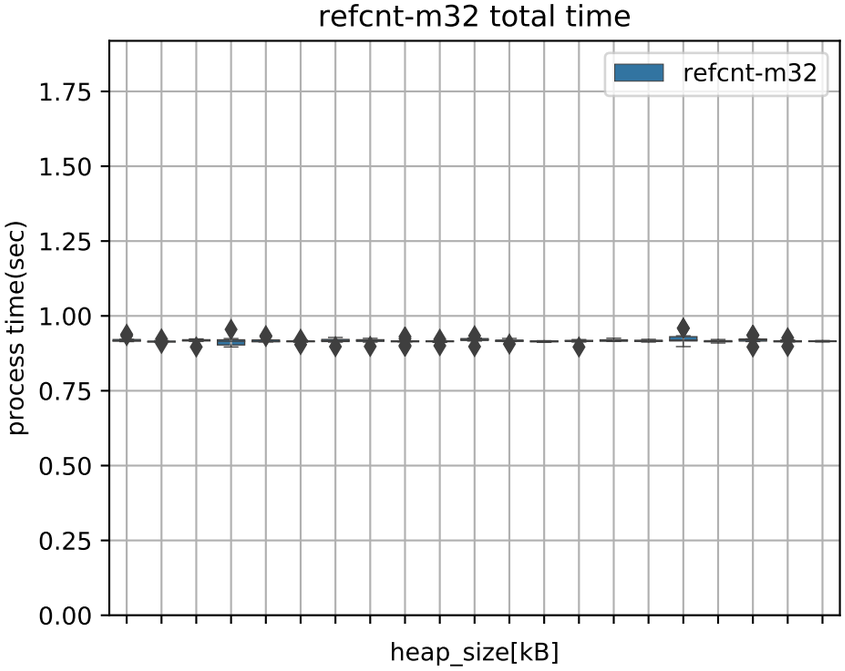

bm_so_matrix_large_heap
process time(sec)
0.0
0.2
0.4
0.6
0.8
123312
126312
129312
132312
135312
138312
141312
144312
147312
150312
153312
heap_size[kB]
marksweep-early-m32
marksweep-early
marksweep-m32
marksweep
refcnt-m32
refcount

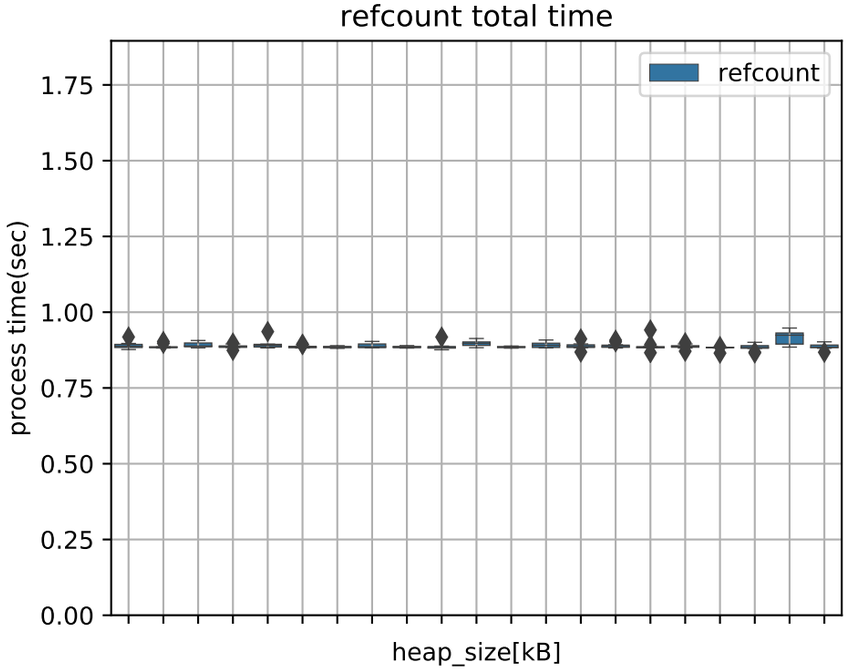

marksweep-early-m32 total time
marksweep-early-m32
process time(sec)
heap_size[kB]

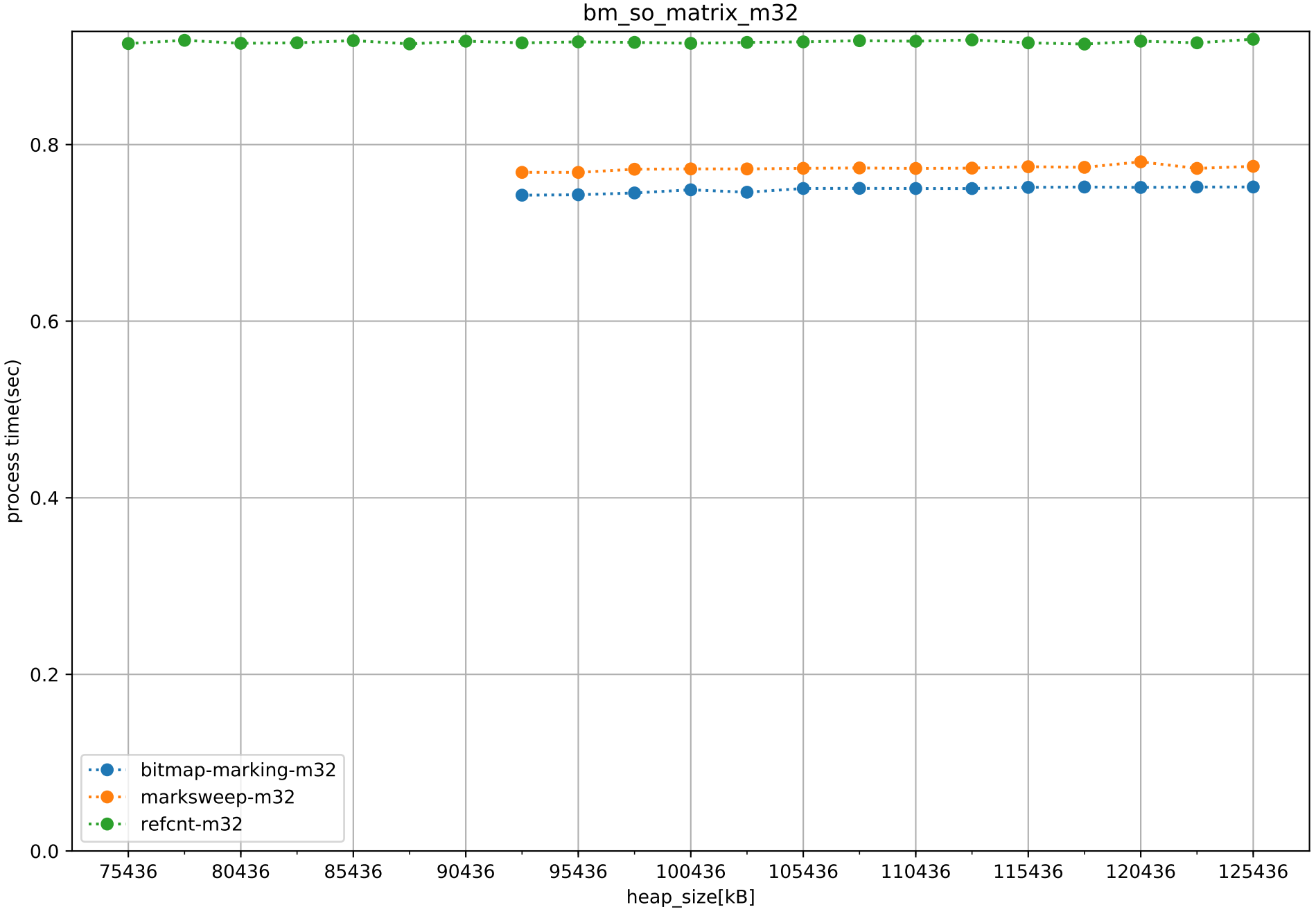

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

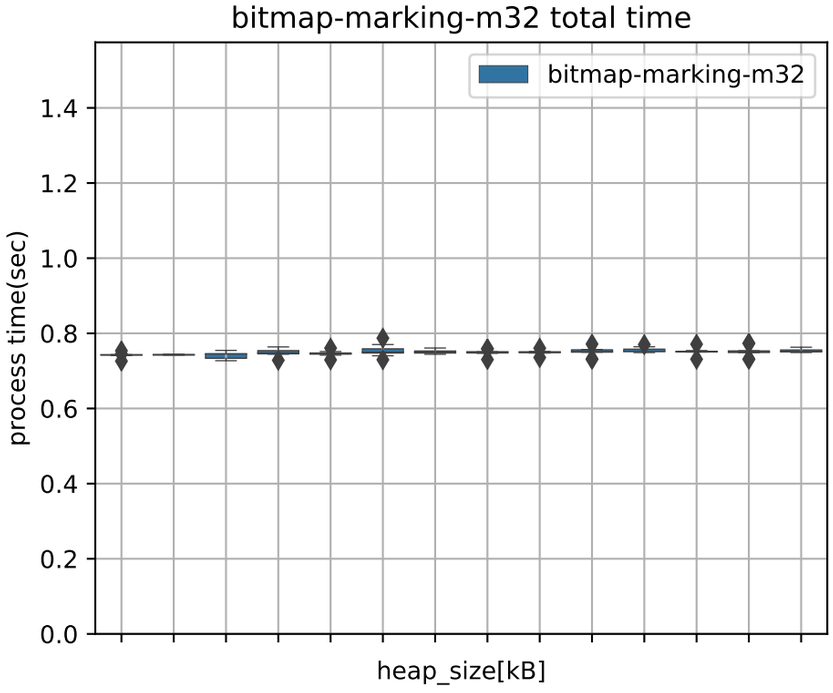

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]

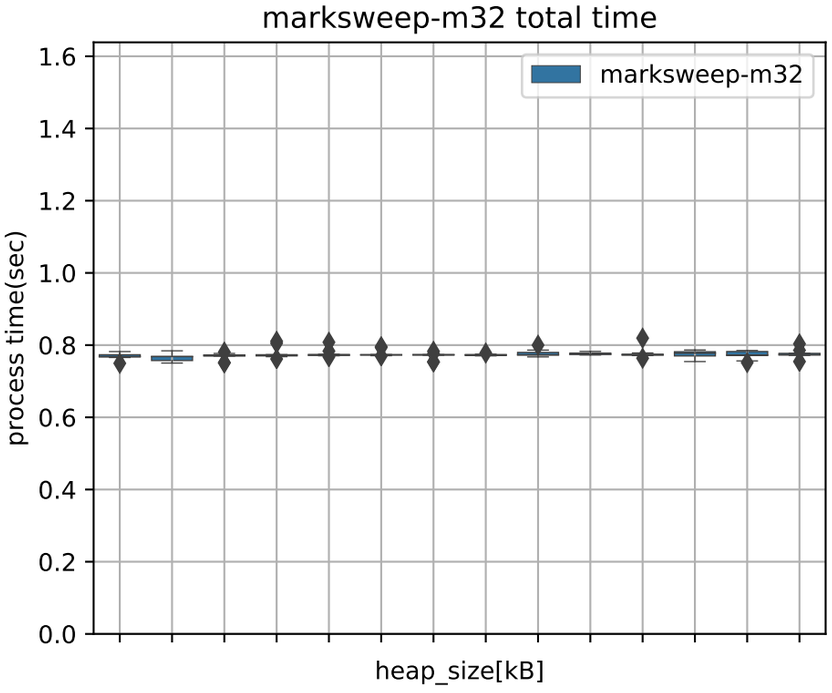

marksweep total time
marksweep
process time(sec)
heap_size[kB]

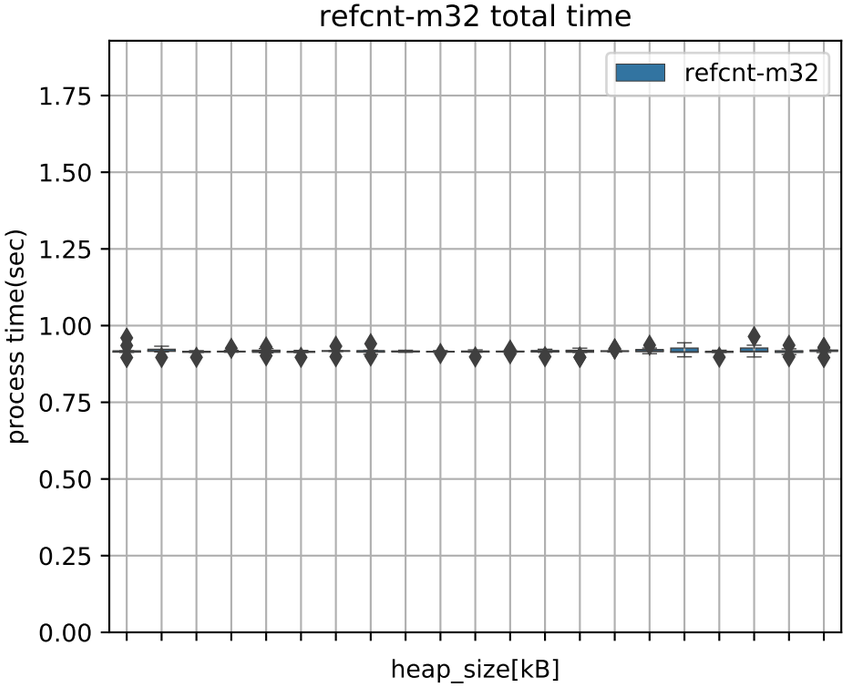

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]

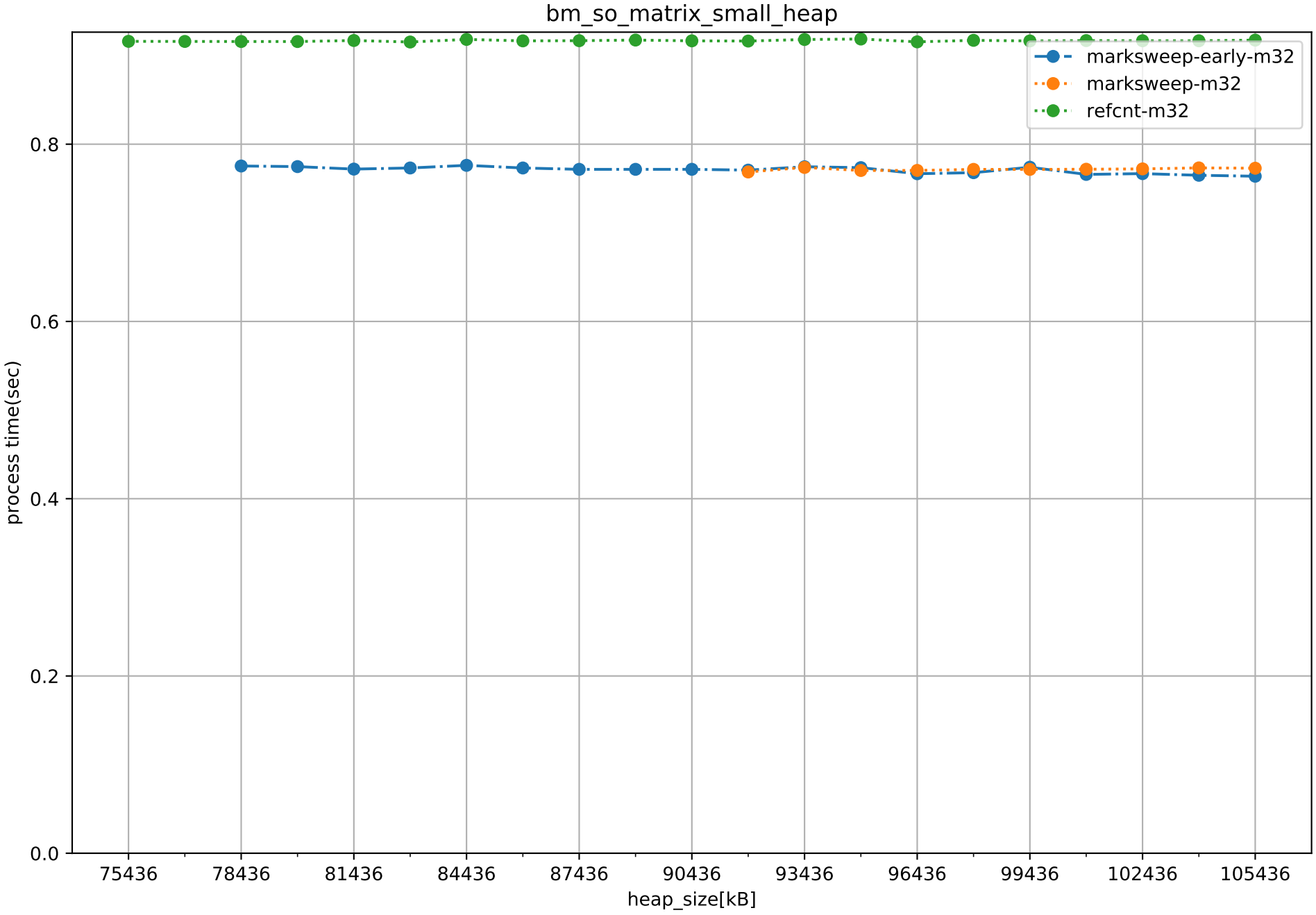

refcount total time
refcount
process time(sec)
heap_size[kB]

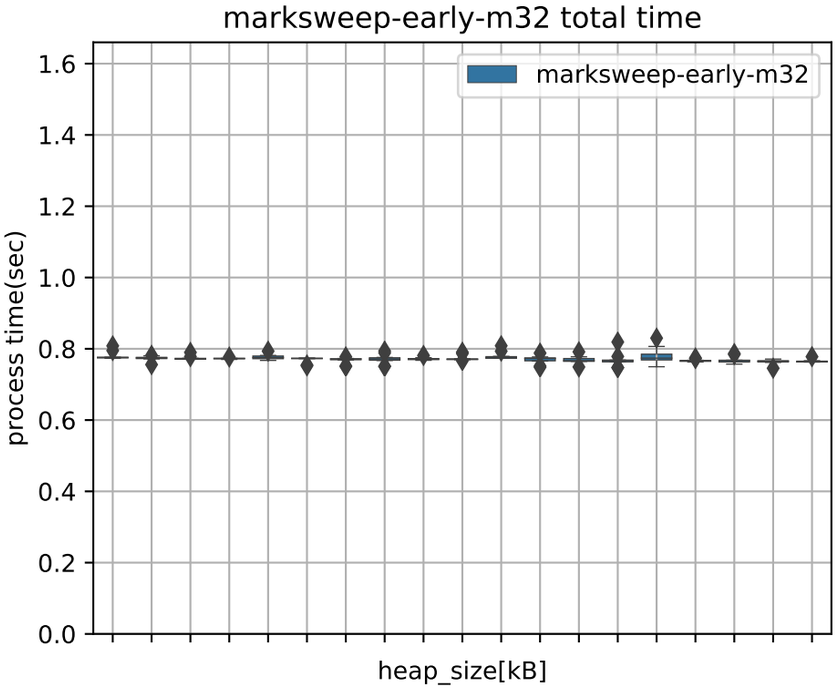

bm_so_matrix_m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
75436
80436
85436
90436
95436
100436
105436
110436
115436
120436
125436
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

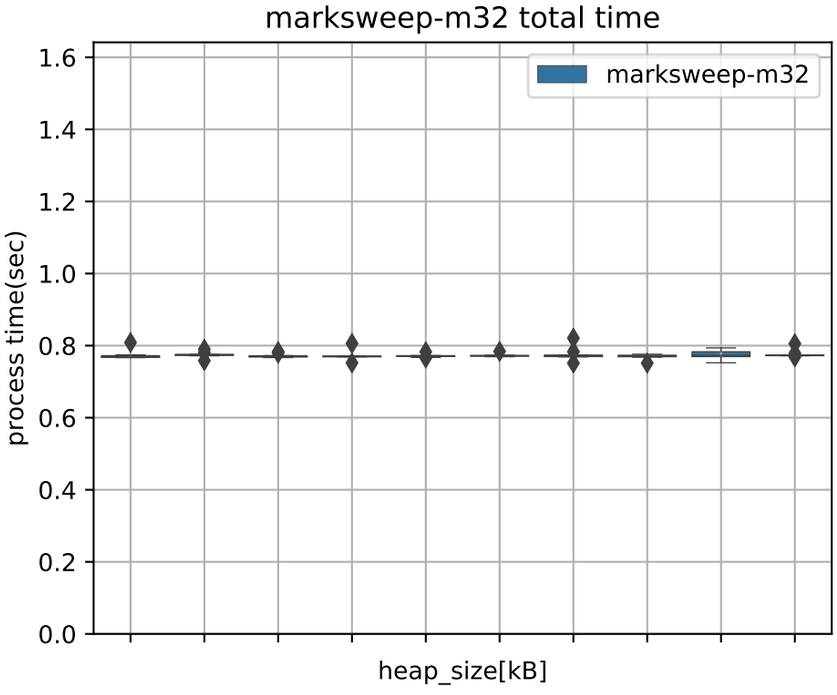

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
heap_size[kB]

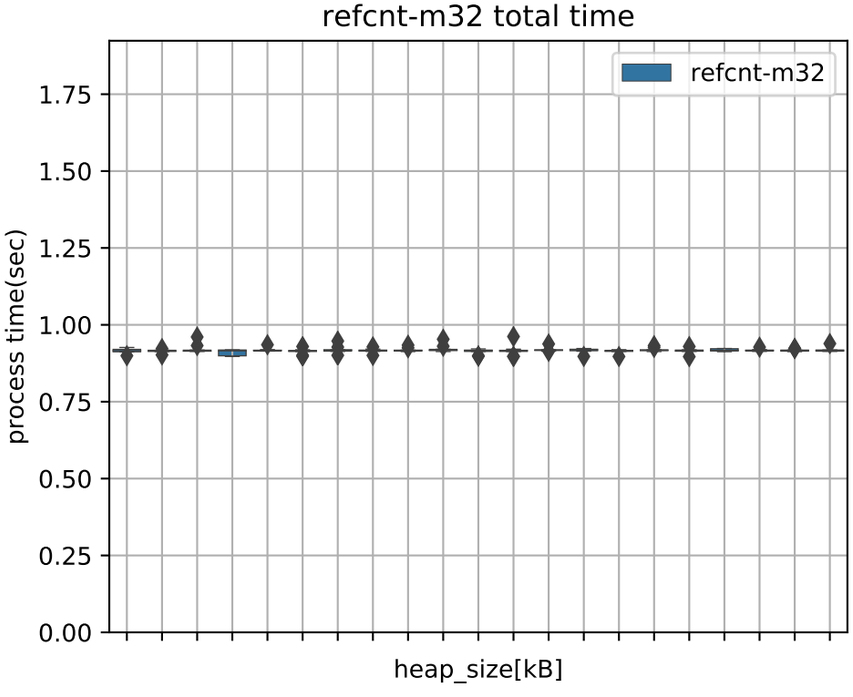

marksweep-m32 total time
marksweep-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
heap_size[kB]

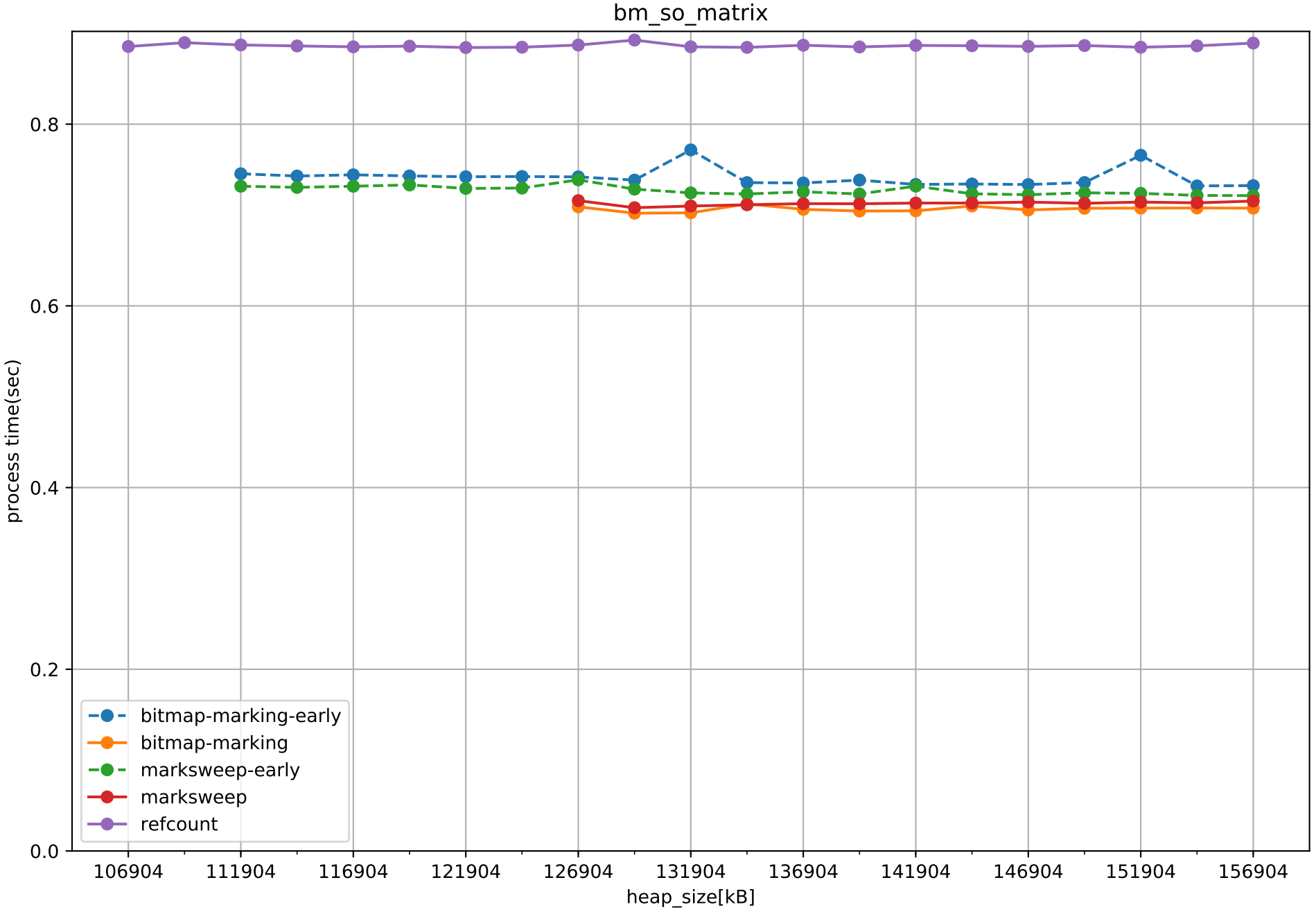

refcnt-m32 total time
refcnt-m32
process time(sec)
0.00
0.25
0.50
0.75
1.00
1.25
1.50
1.75
heap_size[kB]

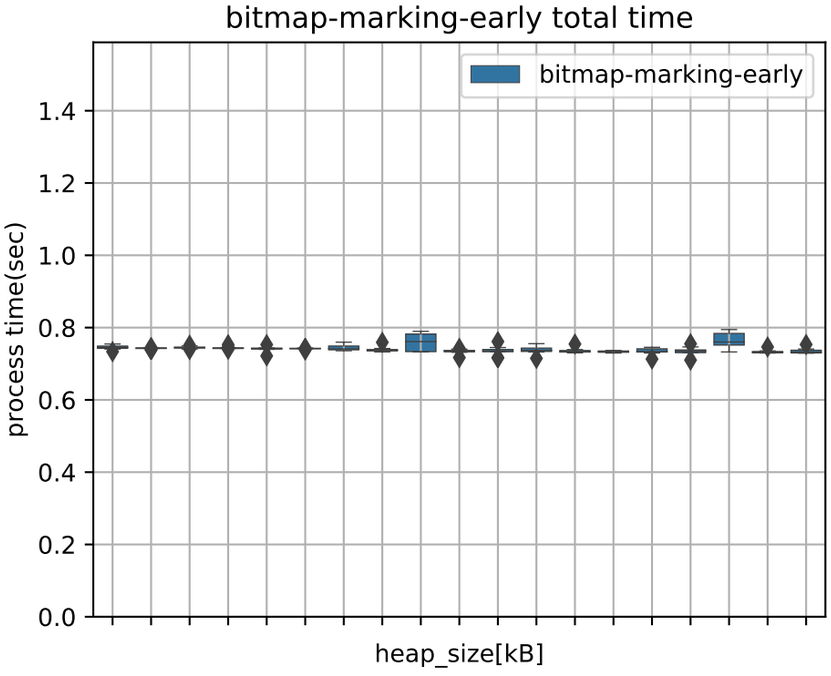

bm_so_matrix_small_heap
marksweep-early-m32
marksweep-m32
refcnt-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
75436
78436
81436
84436
87436
90436
93436
96436
99436
102436
105436
heap_size[kB]

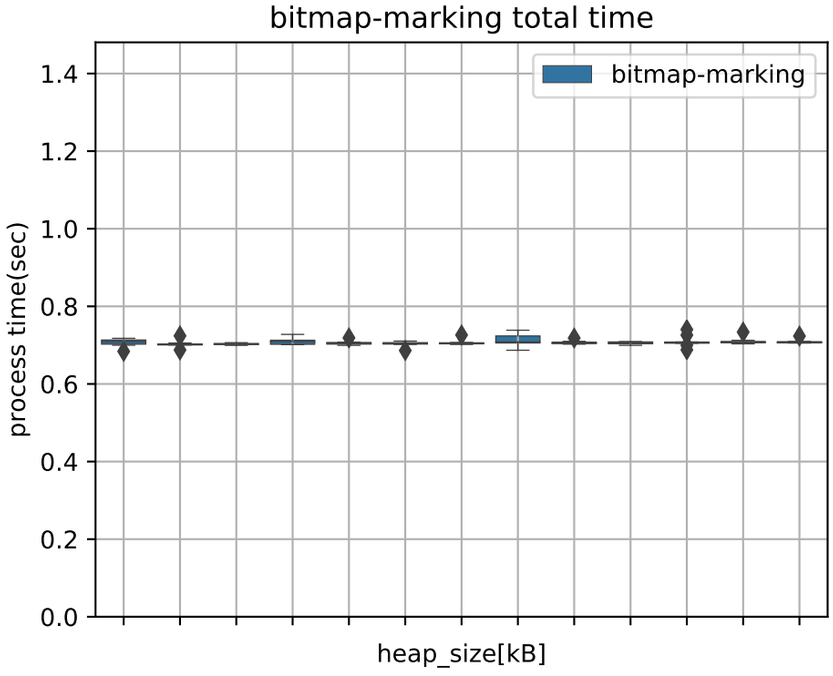

marksweep-early-m32 total time
marksweep-early-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

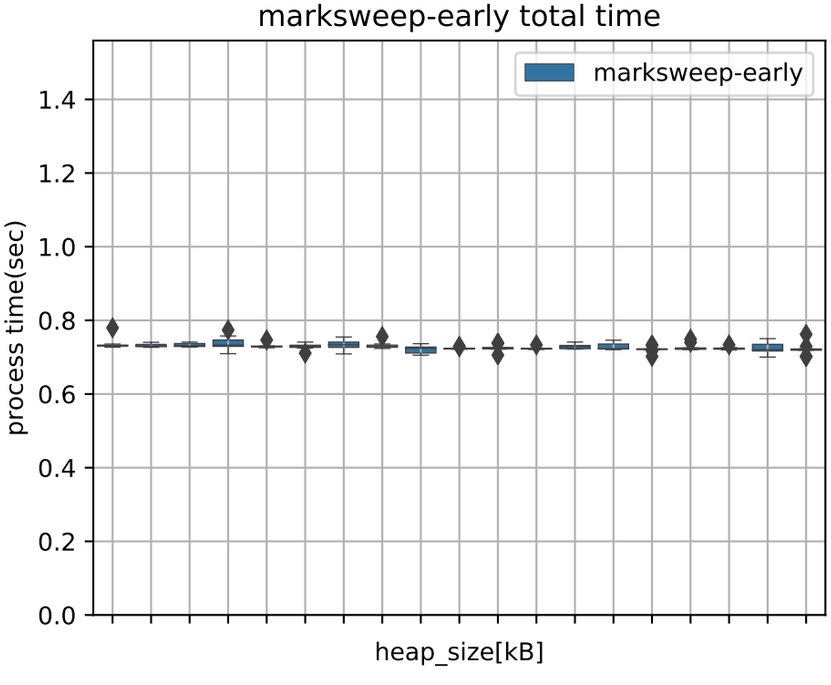

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

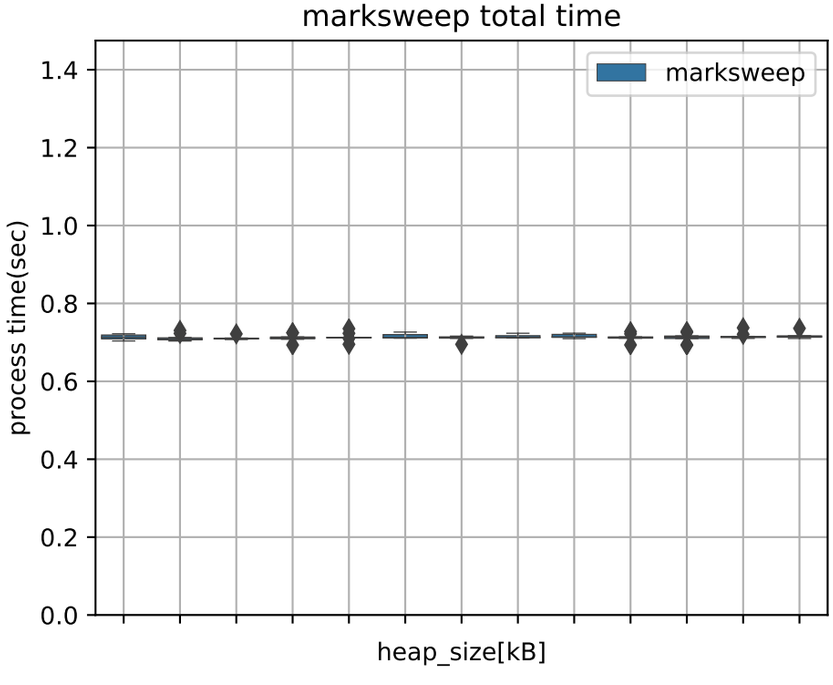

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.00
0.25
0.50
0.75
1.00
1.25
1.50
1.75

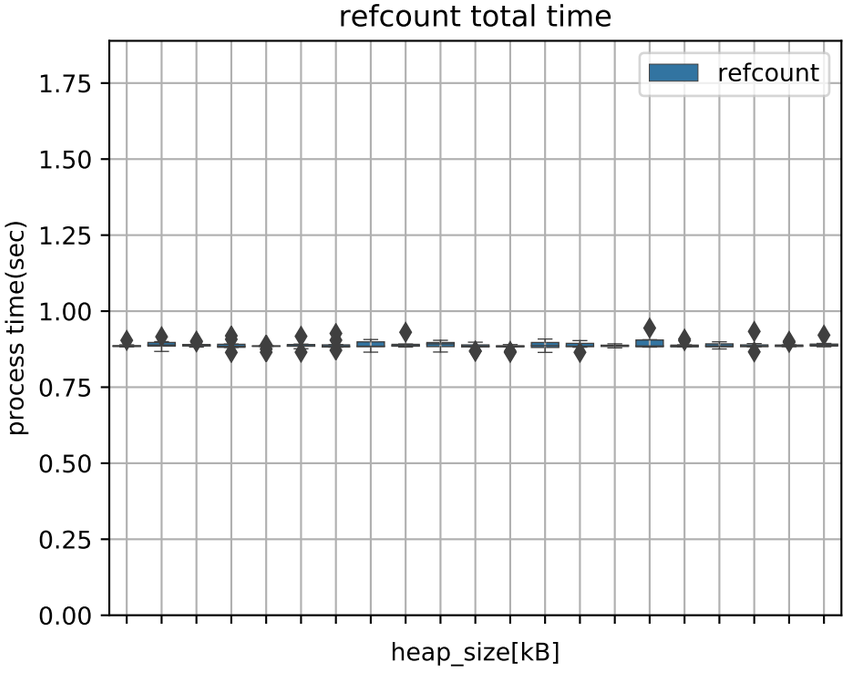

bm_so_matrix
process time(sec)
0.0
0.2
0.4
0.6
0.8
106904
111904
116904
121904
126904
131904
136904
141904
146904
151904
156904
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

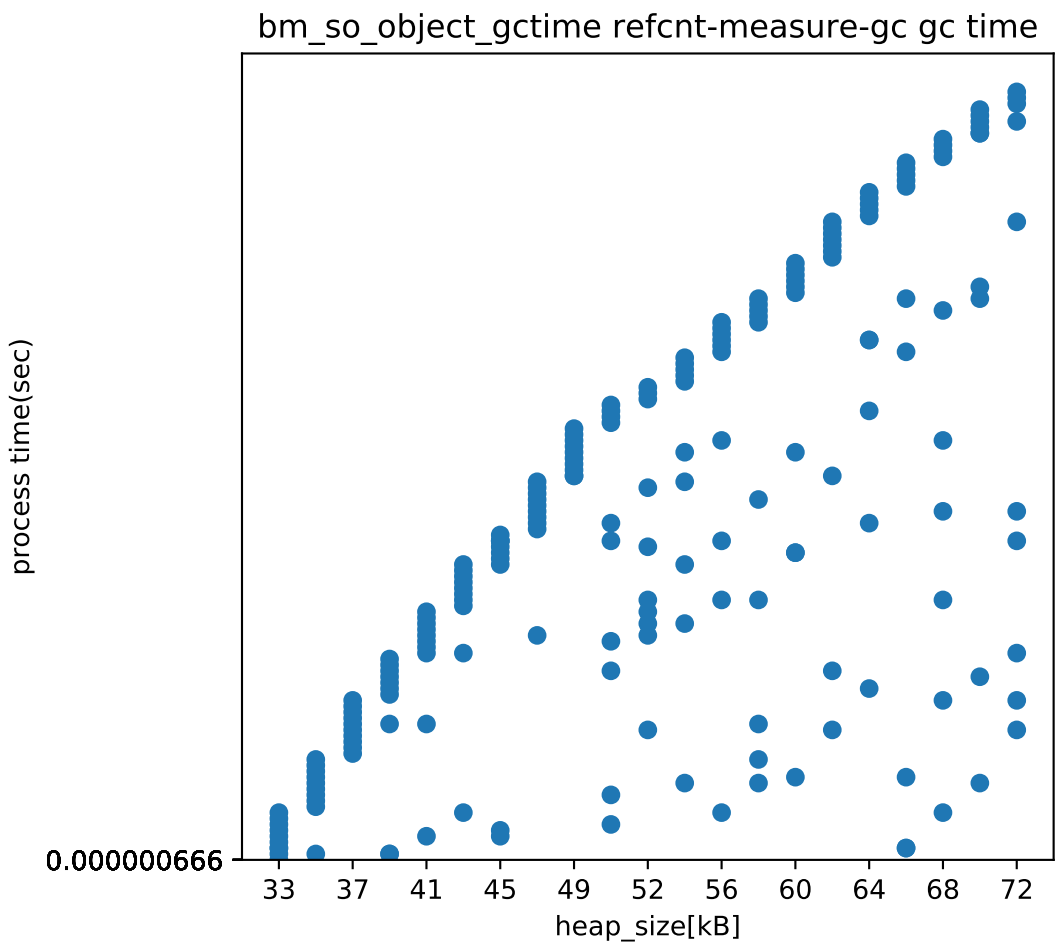

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

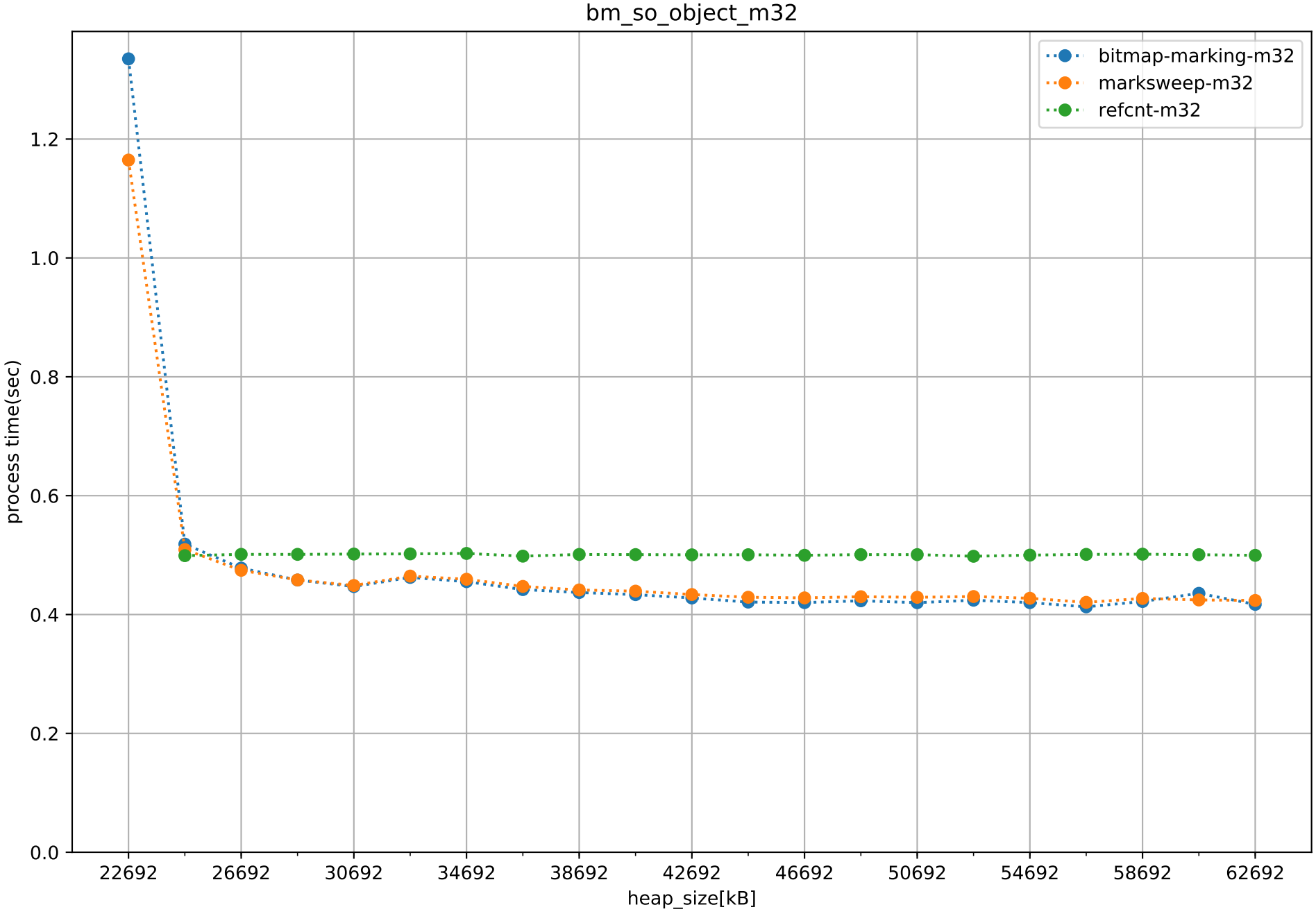

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]

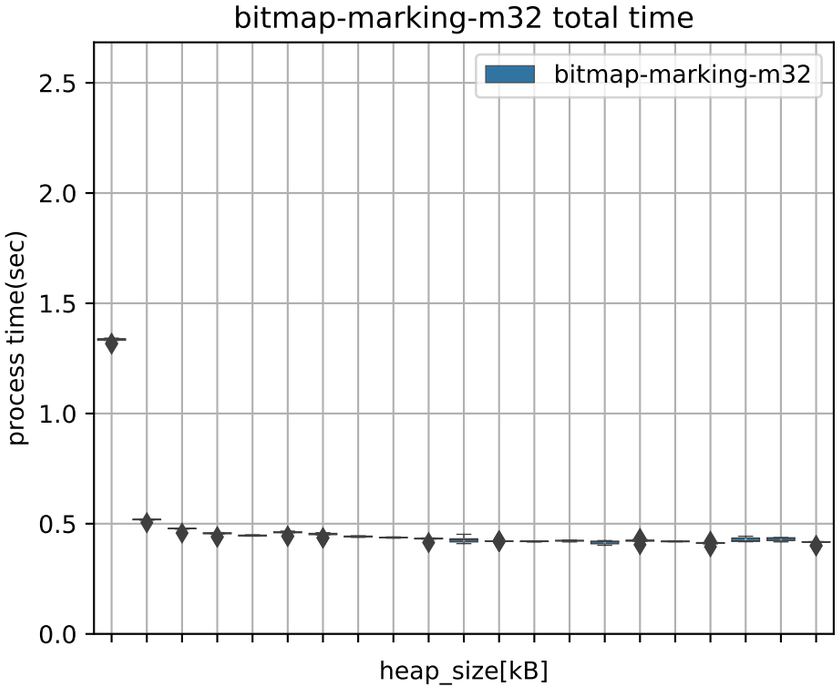

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

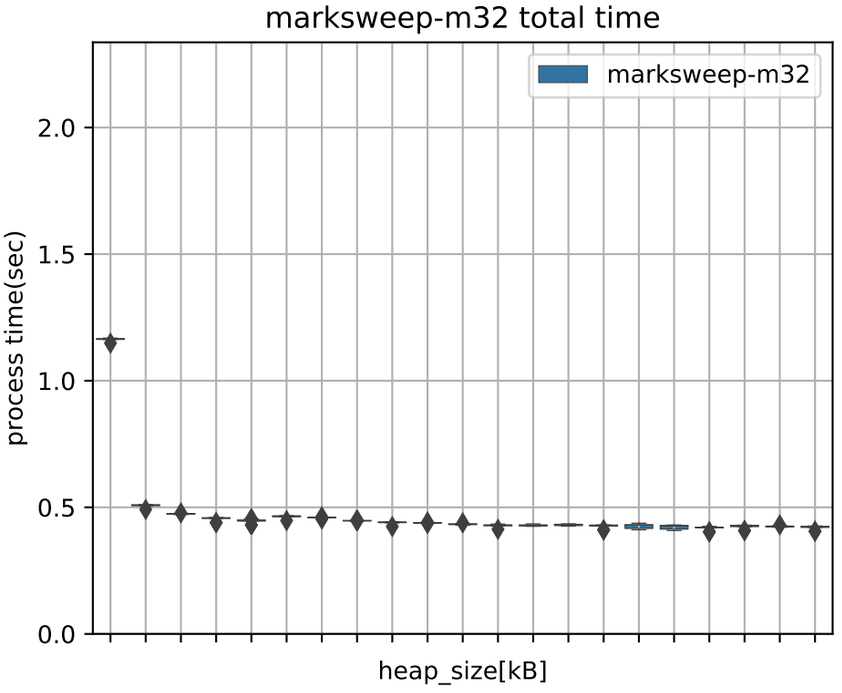

marksweep total time
marksweep
process time(sec)
heap_size[kB]

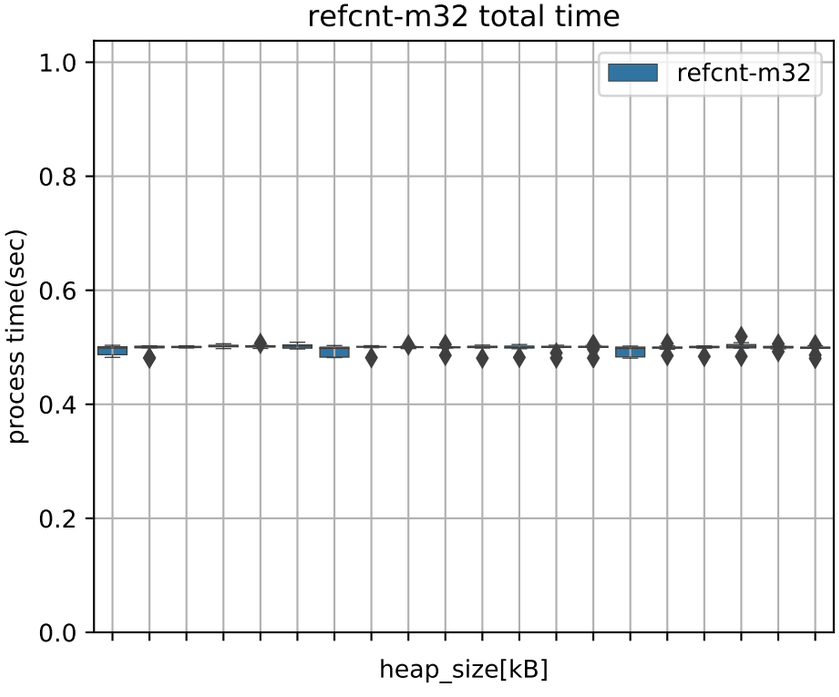

refcount total time
refcount
process time(sec)
heap_size[kB]

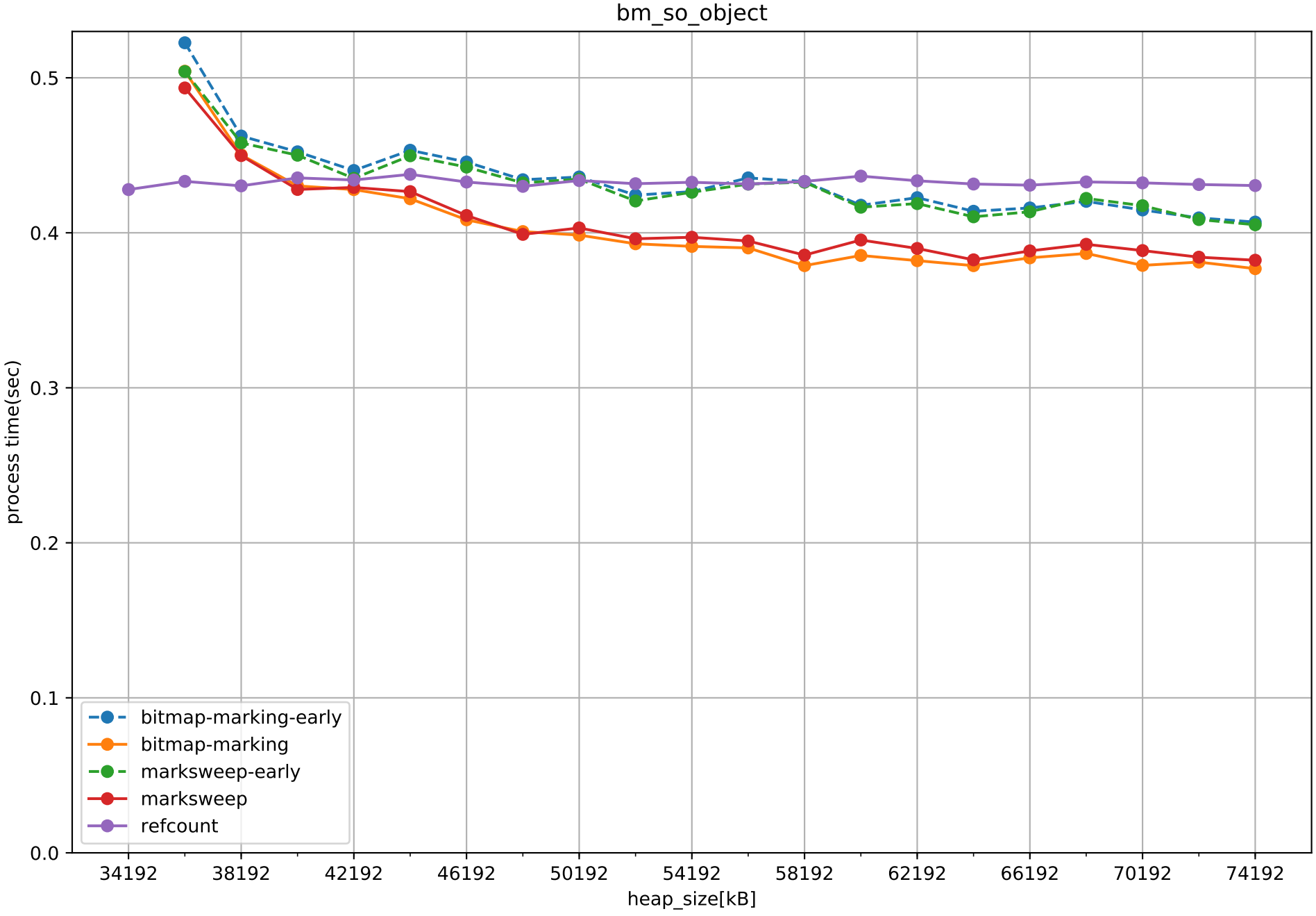

bm_so_object_gctime refcnt-measure-gc gc time
process time(sec)
0.000000666
33
37
41
45
49
52
56
60
64
68
72
heap_size[kB]

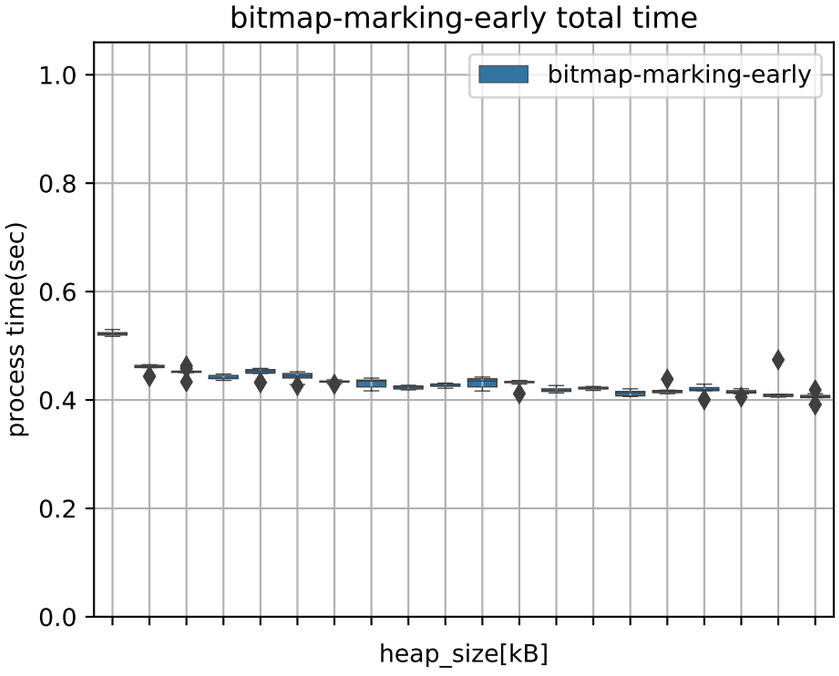

bm_so_object_m32
bitmap-marking-m32
marksweep-m32
refcnt-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
22692
26692
30692
34692
38692
42692
46692
50692
54692
58692
62692
heap_size[kB]

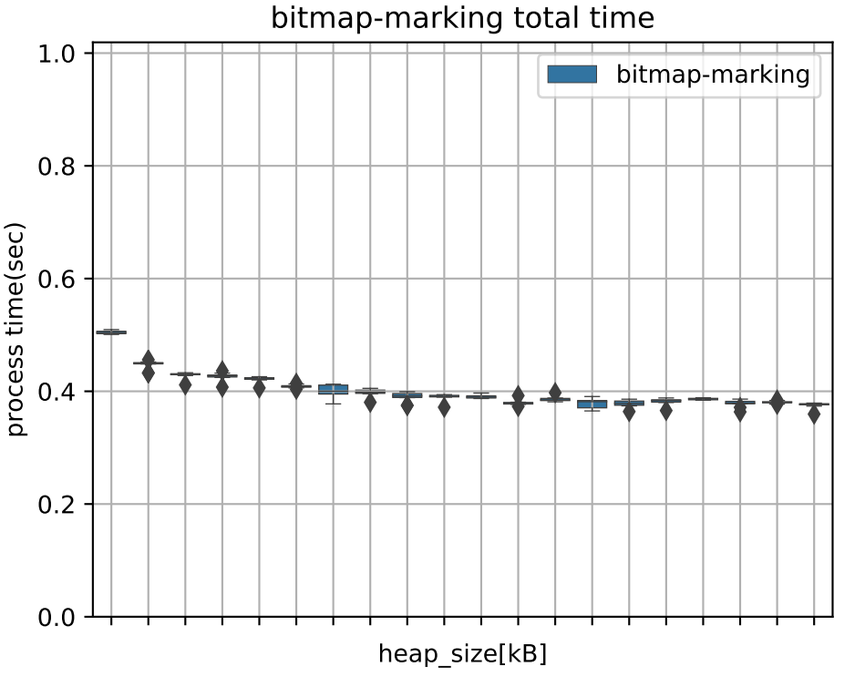

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0
2.5

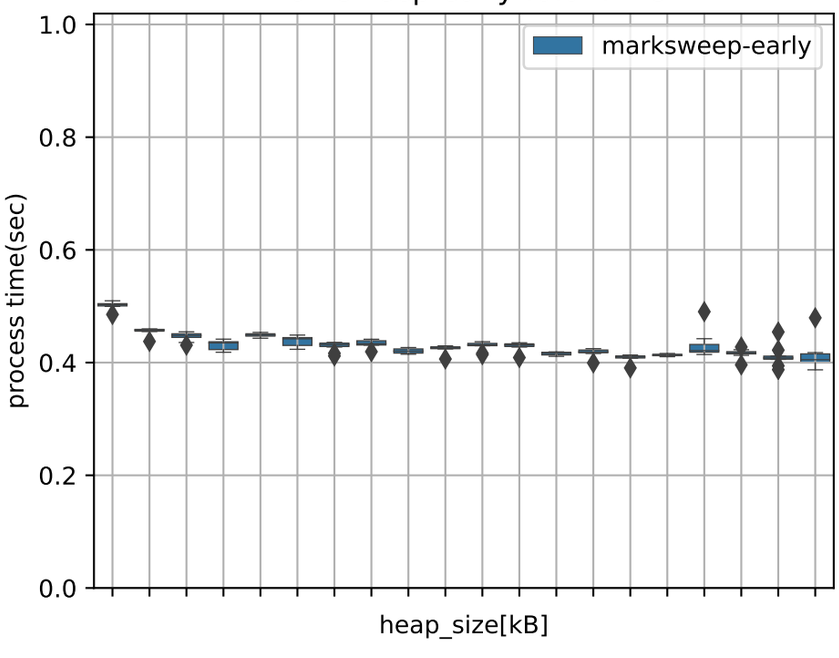

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0

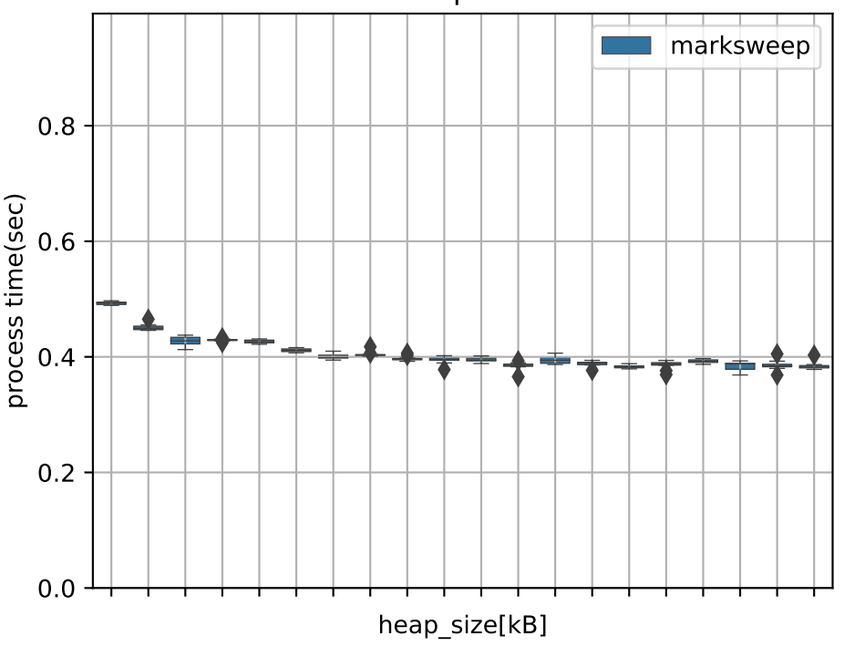

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0

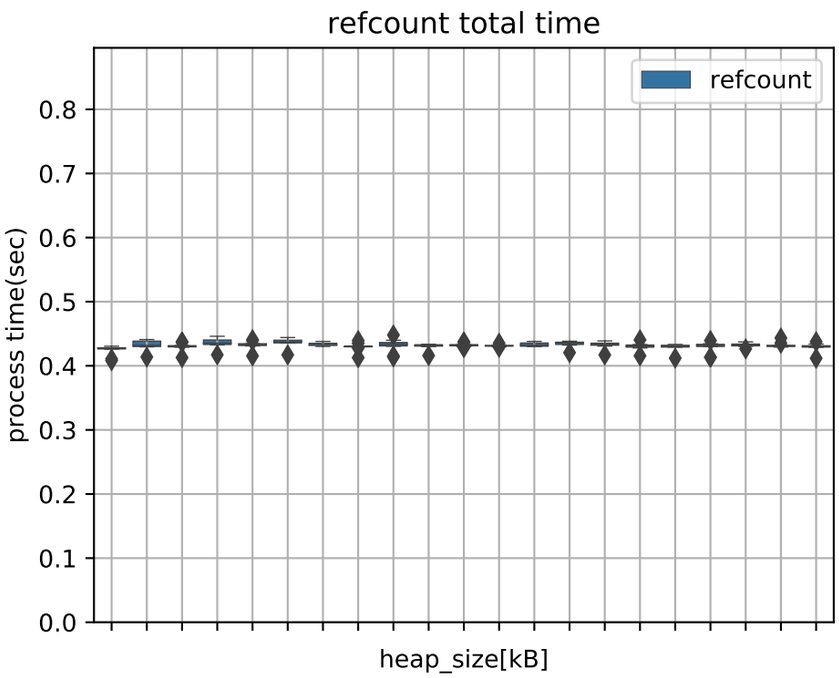

bm_so_object
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
34192
38192
42192
46192
50192
54192
58192
62192
66192
70192
74192
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

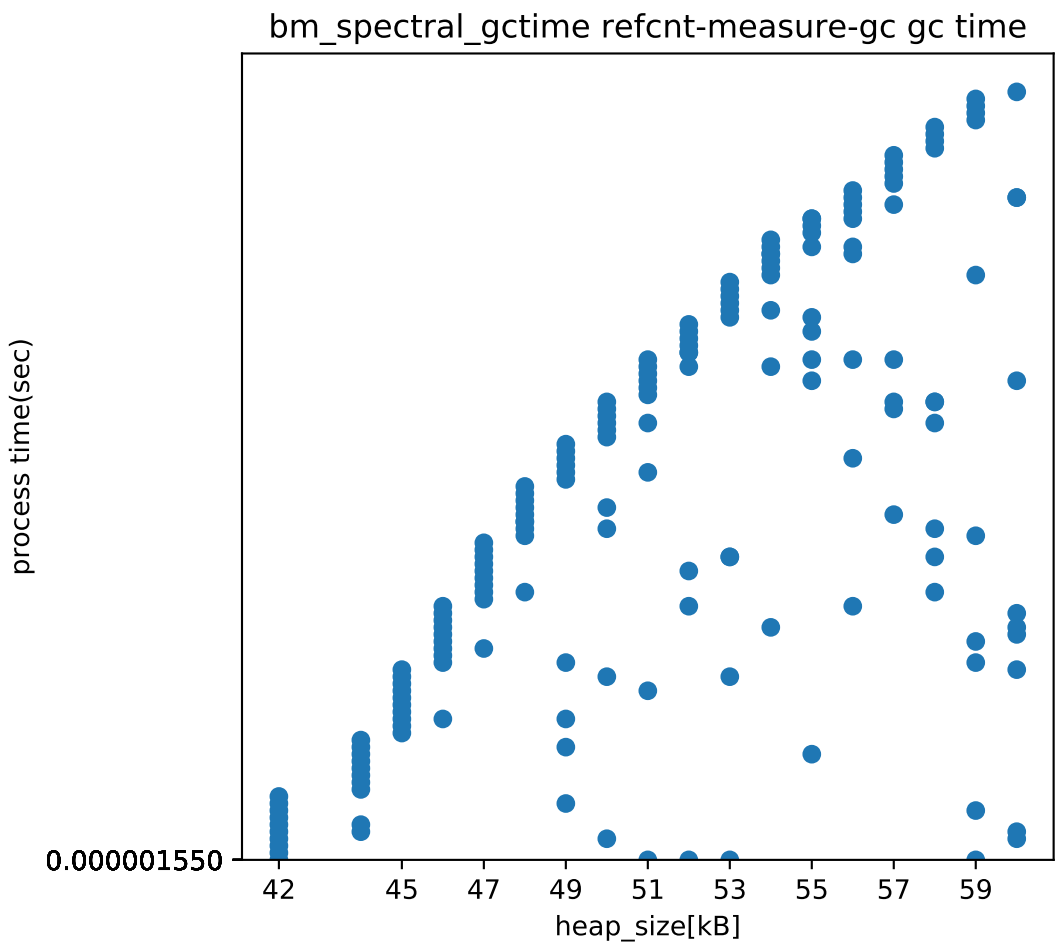

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

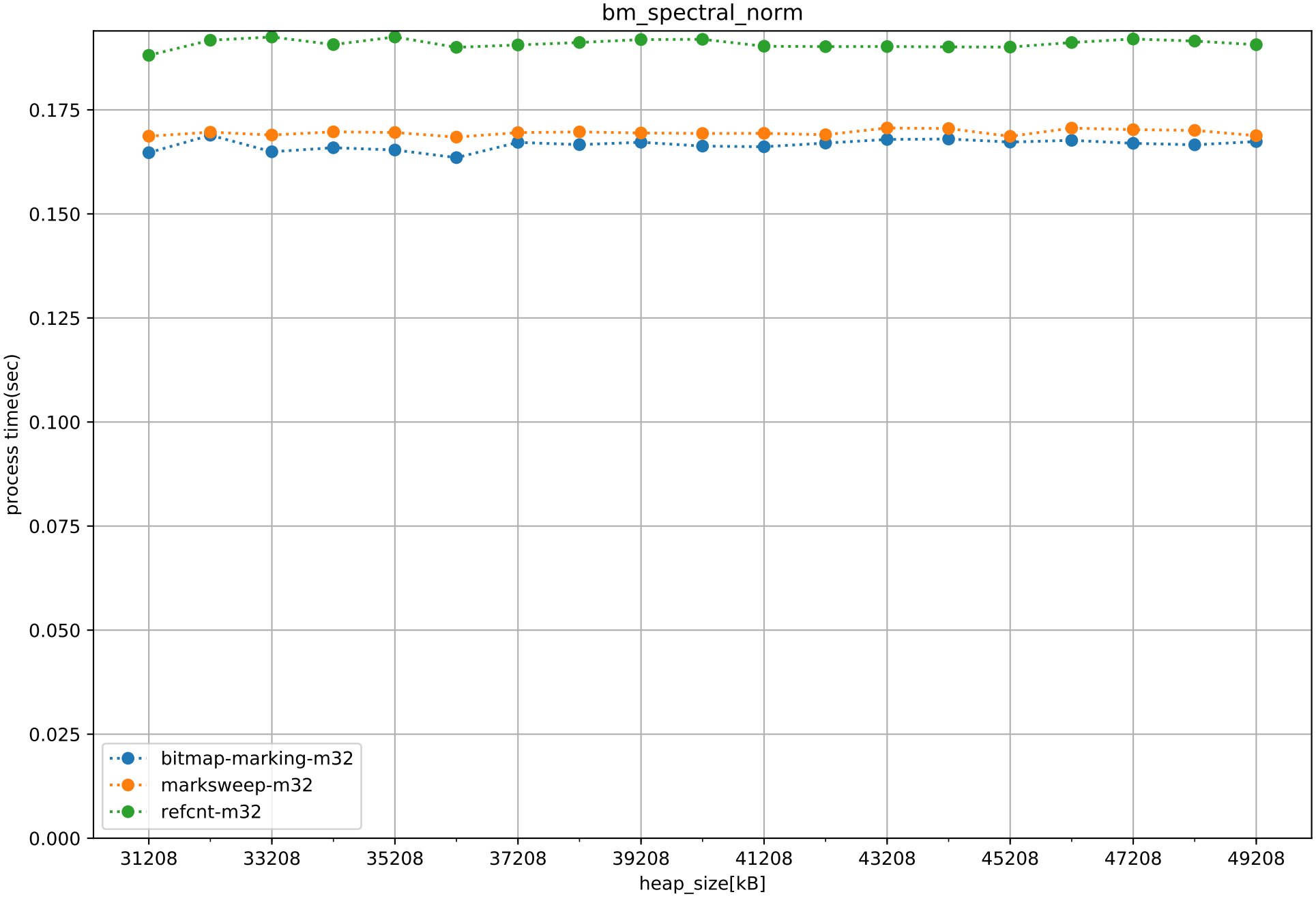

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]

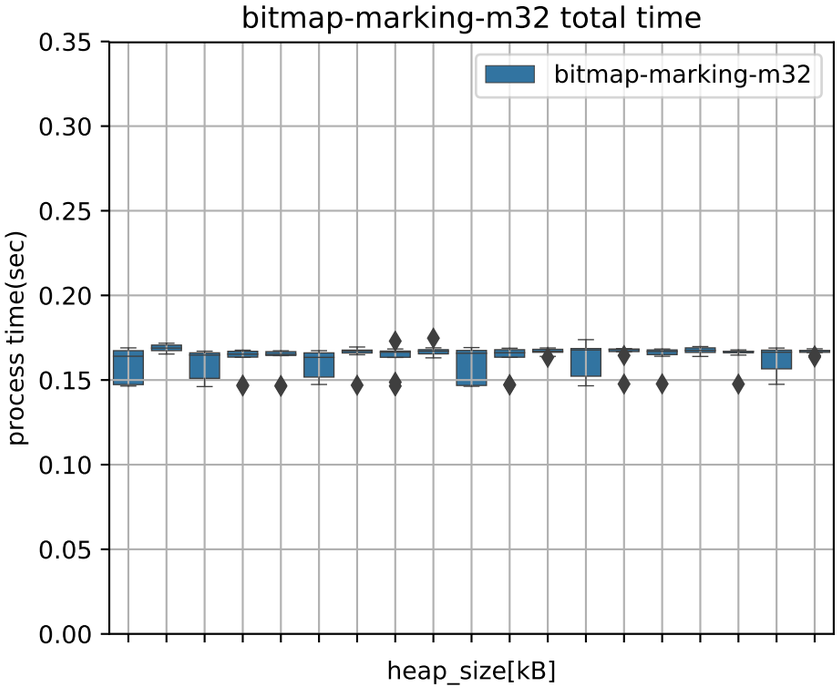

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

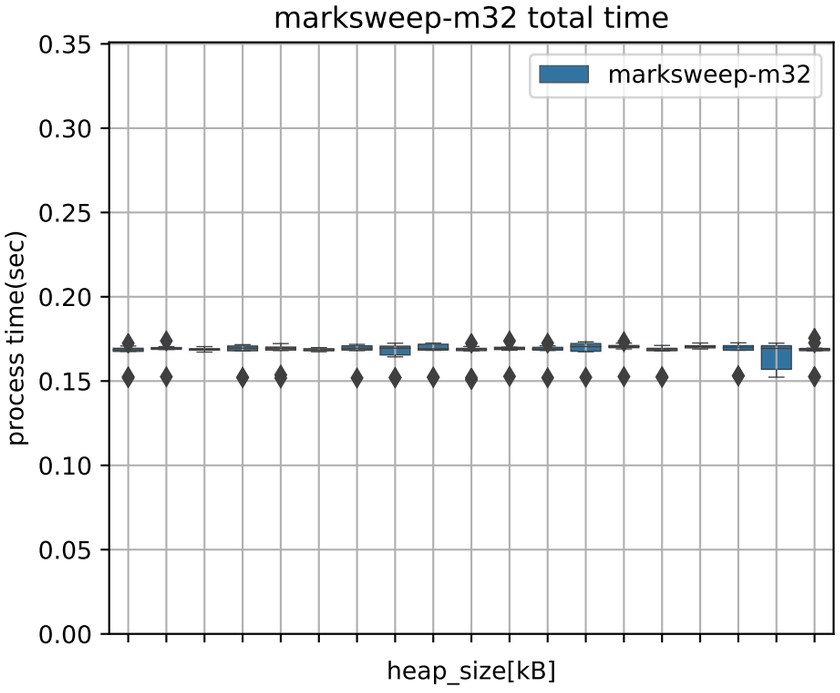

marksweep total time
marksweep
process time(sec)
heap_size[kB]

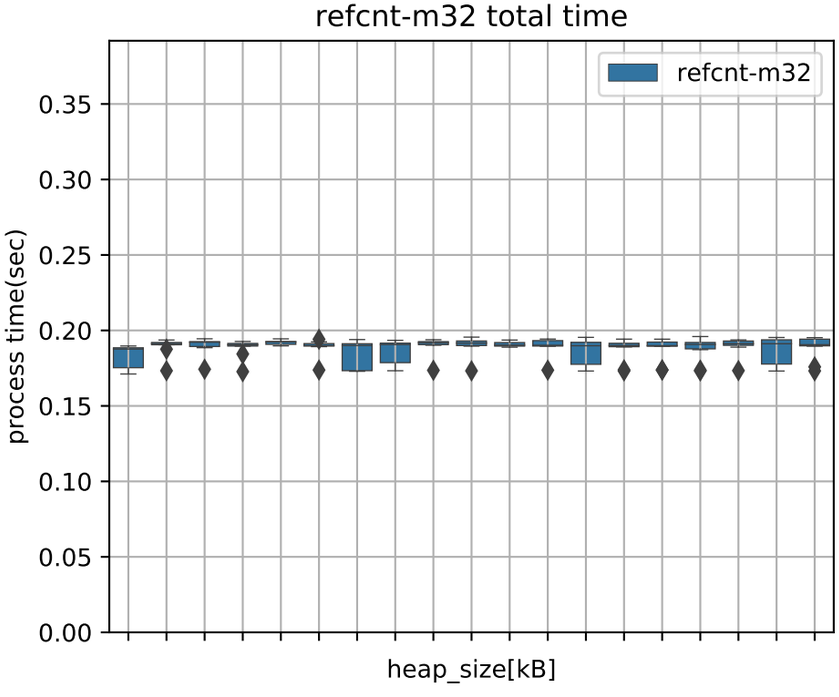

refcount total time
refcount
process time(sec)
heap_size[kB]

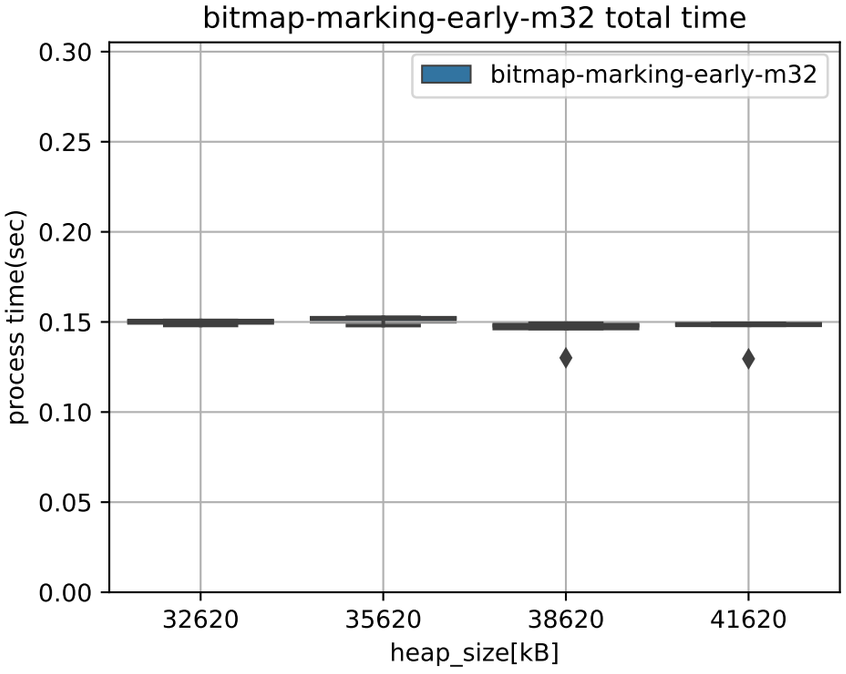

bm_spectral_gctime refcnt-measure-gc gc time
process time(sec)
0.000001550
42
45
47
49
51
53
55
57
59
heap_size[kB]

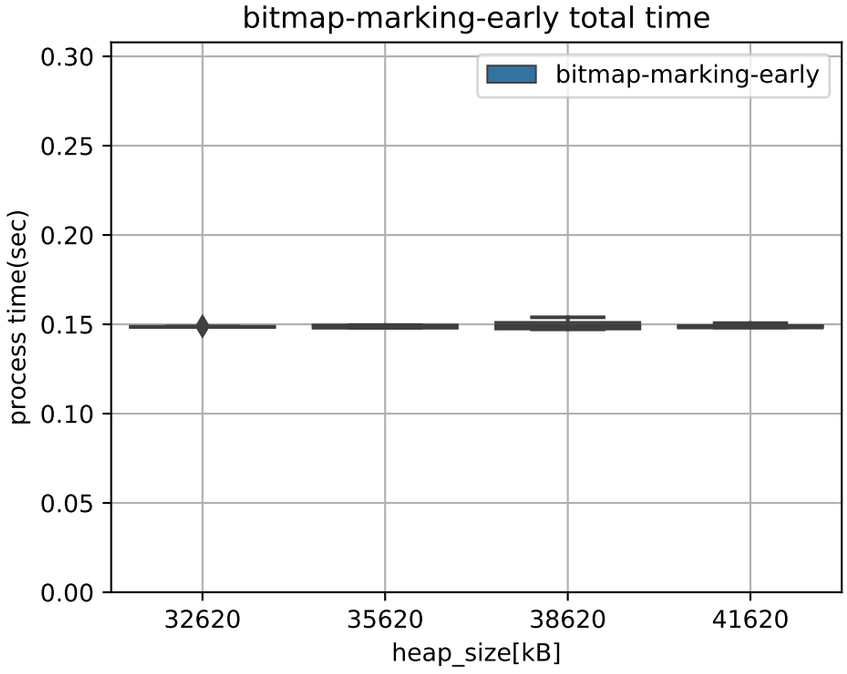

bm_spectral_norm
process time(sec)
0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
31208
33208
35208
37208
39208
41208
43208
45208
47208
49208
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

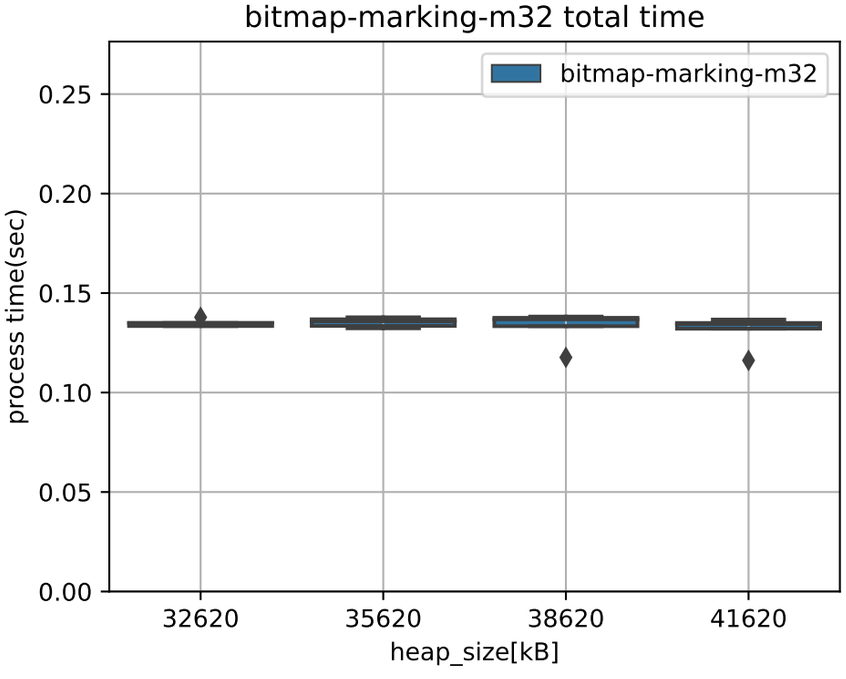

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
heap_size[kB]

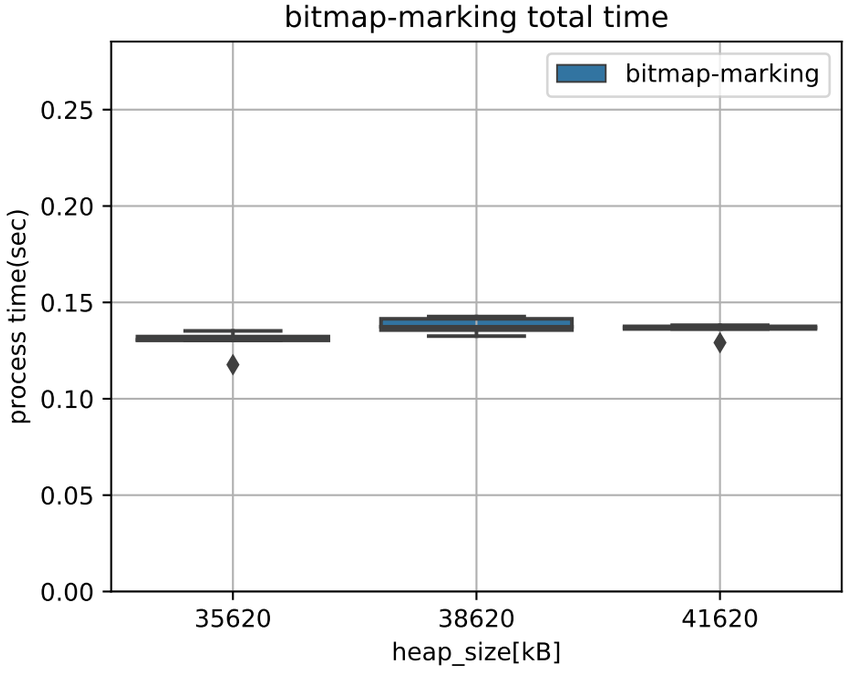

marksweep-m32 total time
marksweep-m32
process time(sec)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
heap_size[kB]


refcnt-m32 total time
refcnt-m32
process time(sec)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
heap_size[kB]


bitmap-marking-early-m32 total time
bitmap-marking-early-m32
process time(sec)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
32620
35620
38620
41620
heap_size[kB]


bitmap-marking-early total time
bitmap-marking-early
process time(sec)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
32620
35620
38620
41620
heap_size[kB]


bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.25
0.20
0.15
0.10
0.05
0.00
32620
35620
38620
41620
heap_size[kB]


bitmap-marking total time
bitmap-marking
process time(sec)
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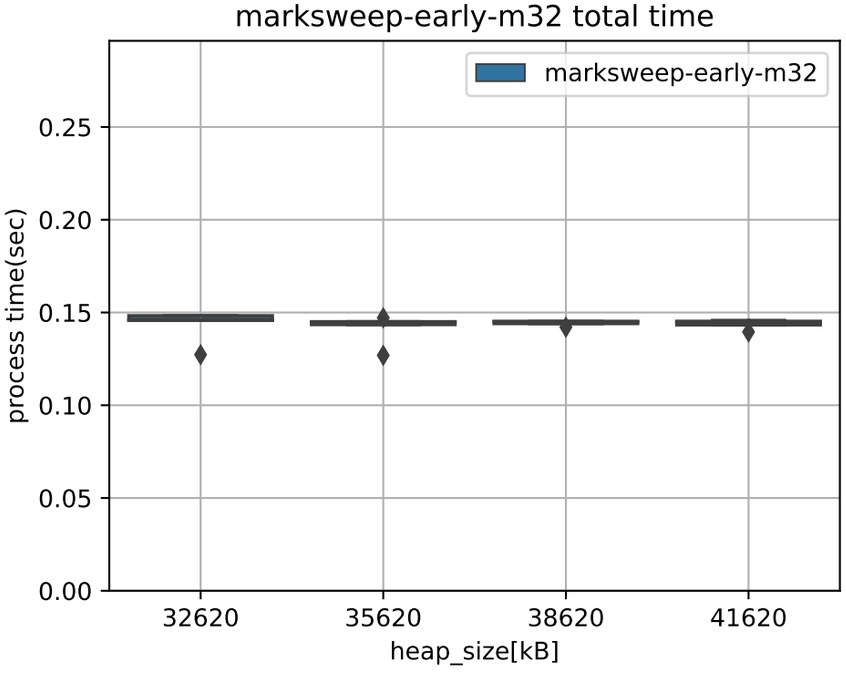
0.20
0.15
0.10
0.05
0.00
35620
38620
41620
heap_size[kB]


marksweep-early-m32 total time
marksweep-early-m32
process time(sec)
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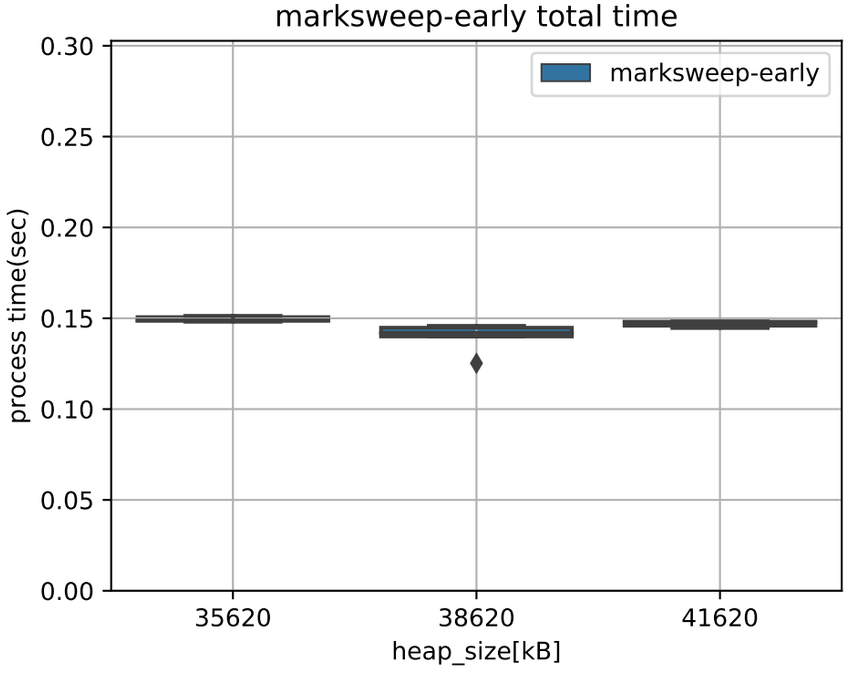
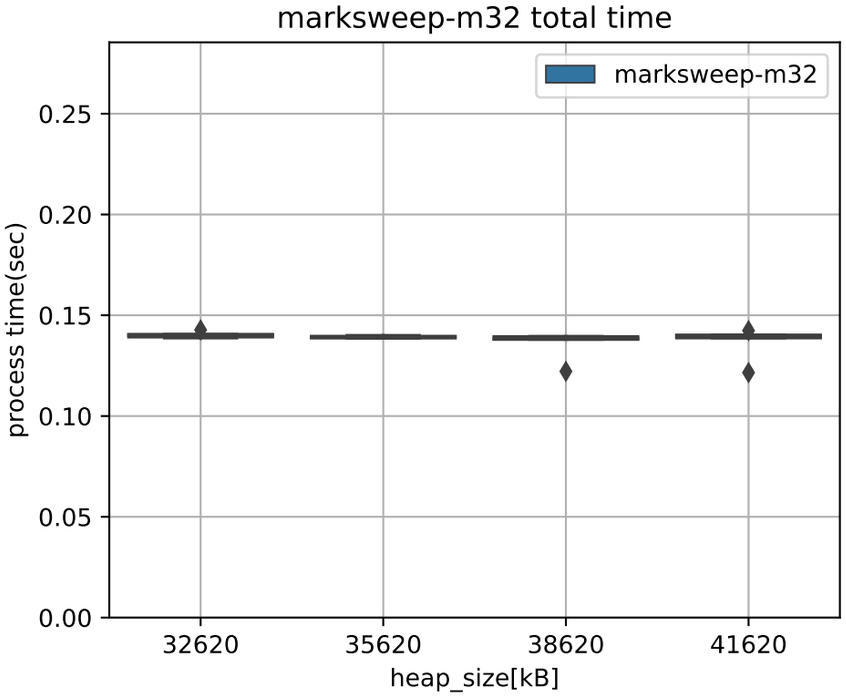
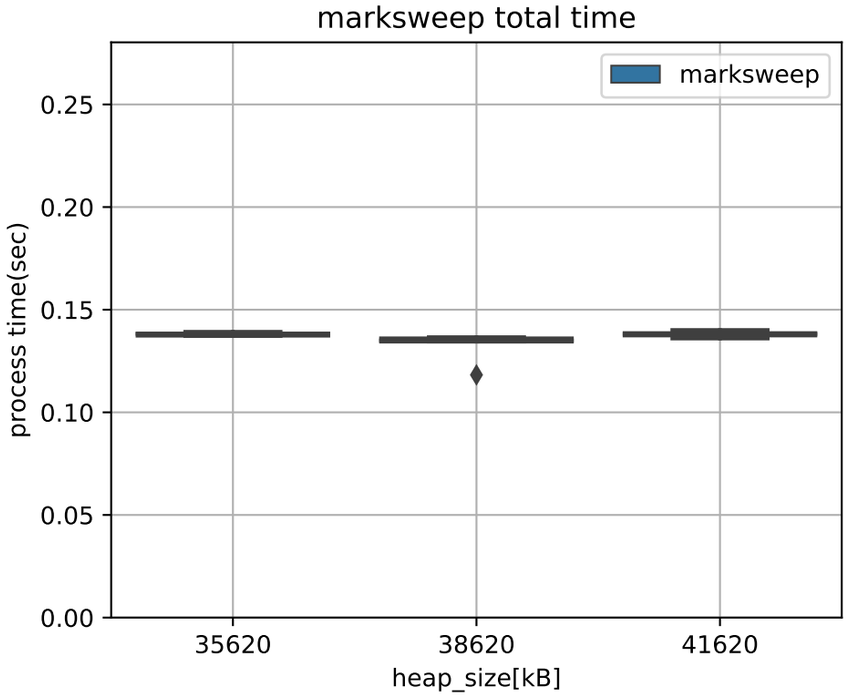
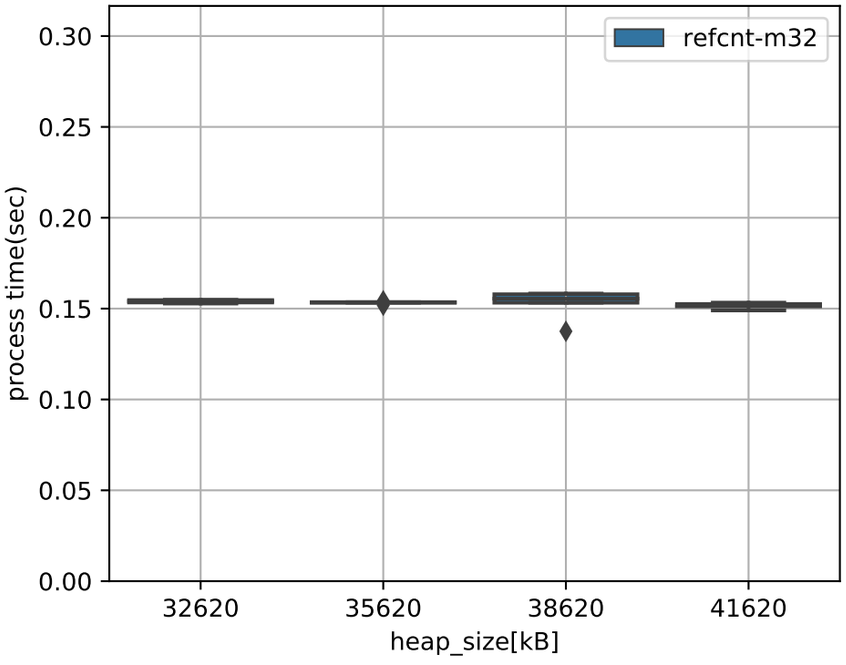
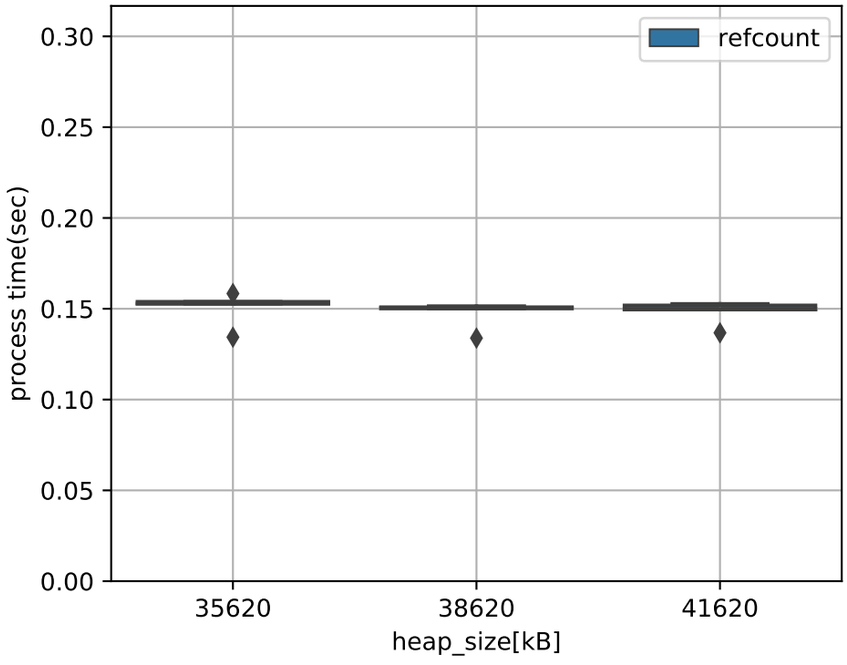
0.20
0.15
0.10
0.05
0.00
32620
35620
38620
41620
heap_size[kB]

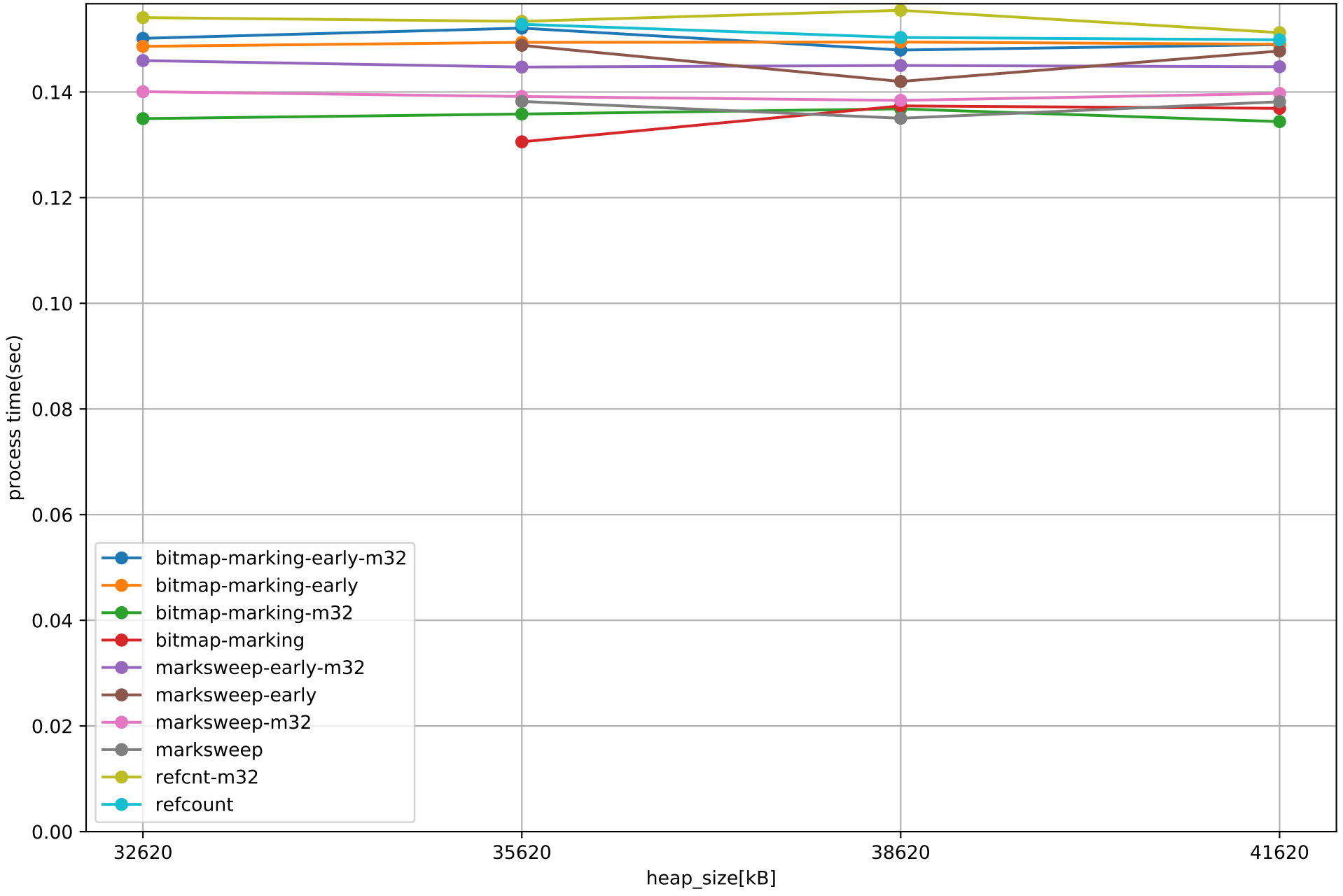

marksweep-early total time
marksweep-early
process time(sec)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
35620
38620
41620
heap_size[kB]

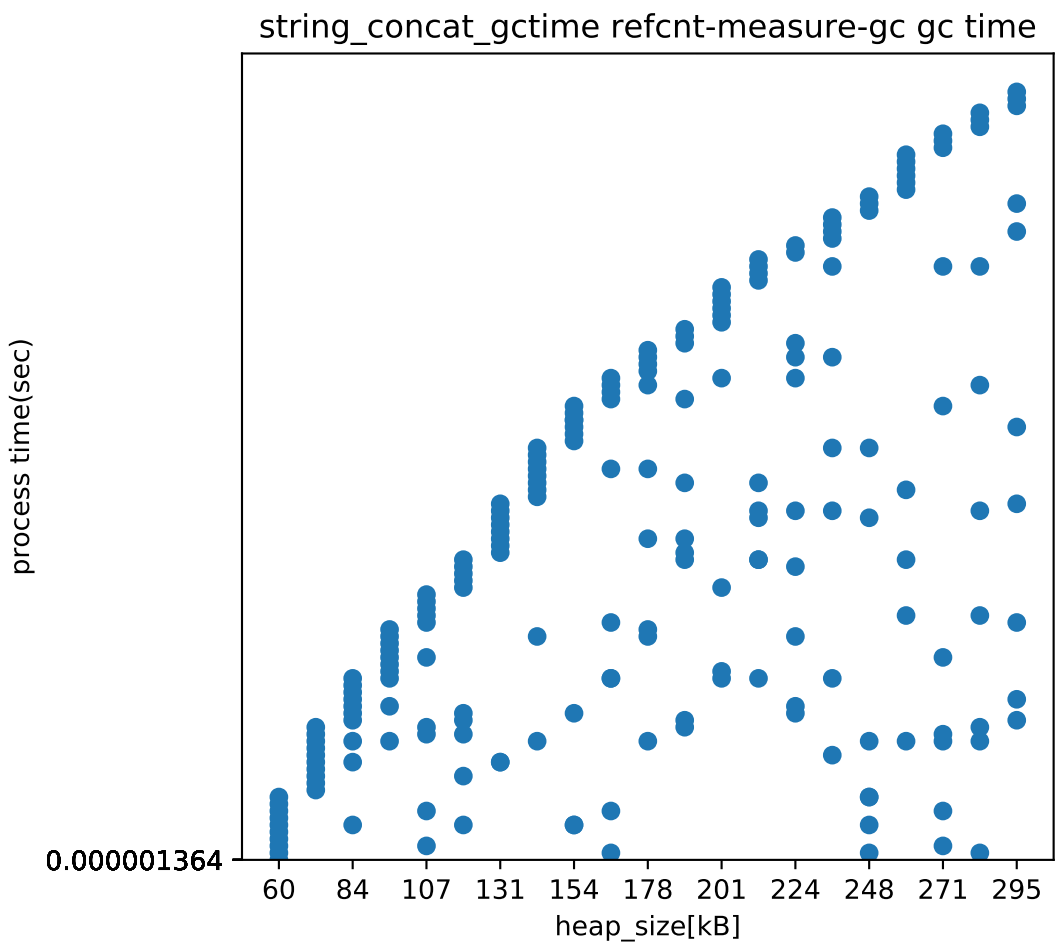

marksweep-m32 total time
marksweep-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
32620
35620
38620
41620
heap_size[kB]


marksweep total time
marksweep
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
35620
38620
41620
heap_size[kB]


refcnt-m32 total time
refcnt-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
32620
35620
38620
41620
heap_size[kB]


refcount total time
refcount
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
35620
38620
41620
heap_size[kB]


process time(sec)
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
32620
35620
38620
41620
heap_size[kB]
bitmap-marking-early-m32
bitmap-marking-early
bitmap-marking-m32
bitmap-marking
marksweep-early-m32
marksweep-early
marksweep-m32
marksweep
refcnt-m32
refcount


string_concat_gctime refcnt-measure-gc gc time
process time(sec)
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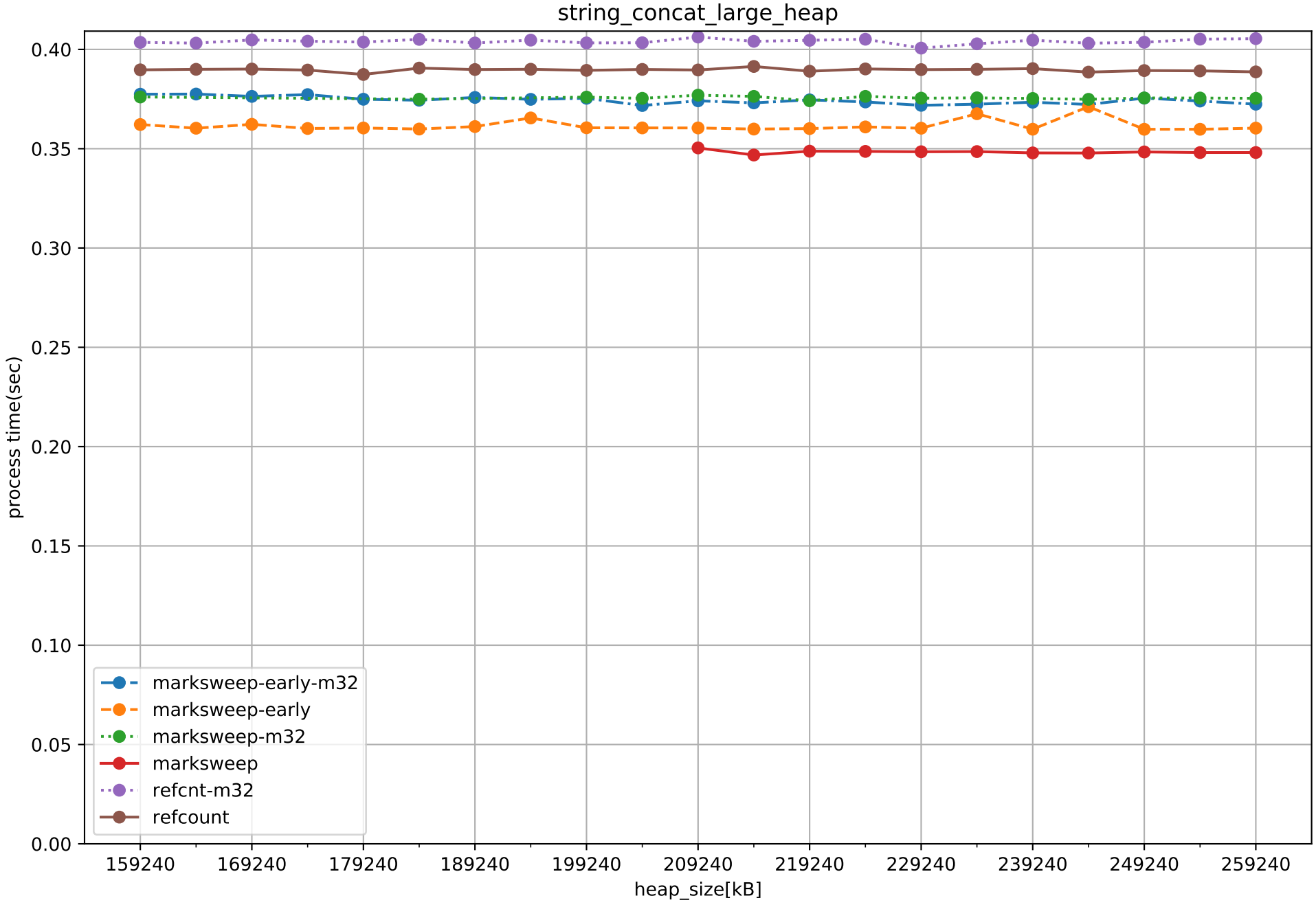
60
84
107
131
154
178
201
224
248
271
295
heap_size[kB]


string_concat_large_heap
process time(sec)
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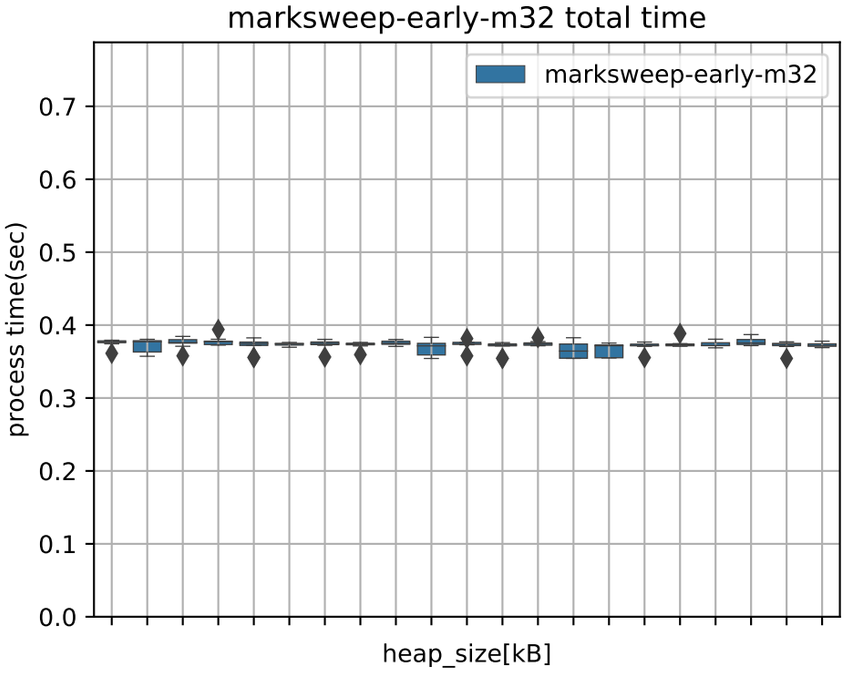
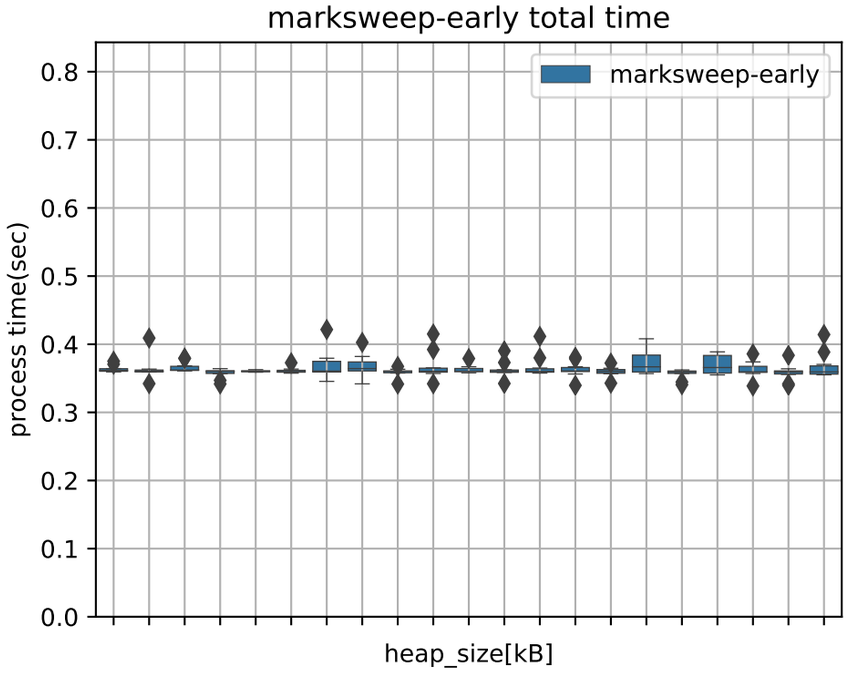
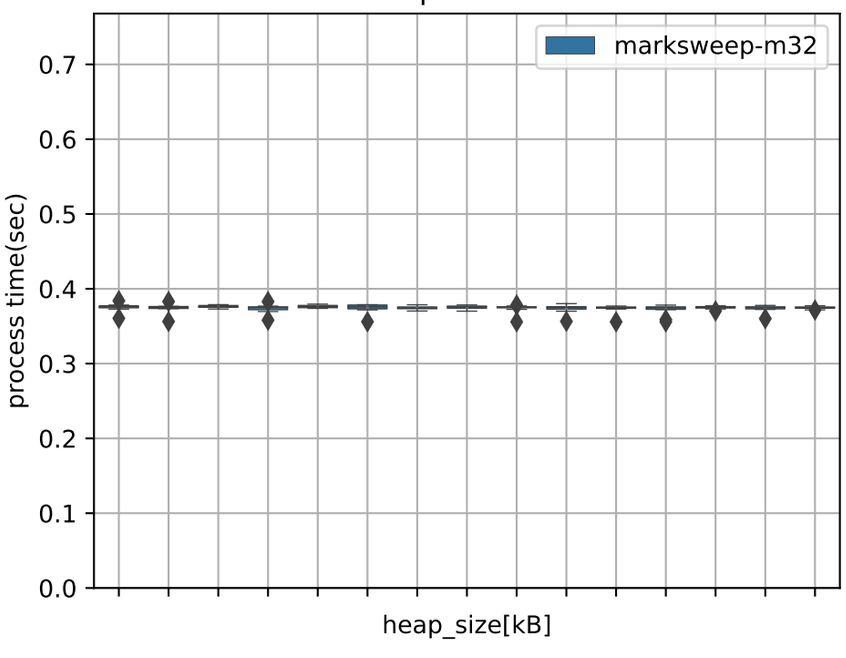
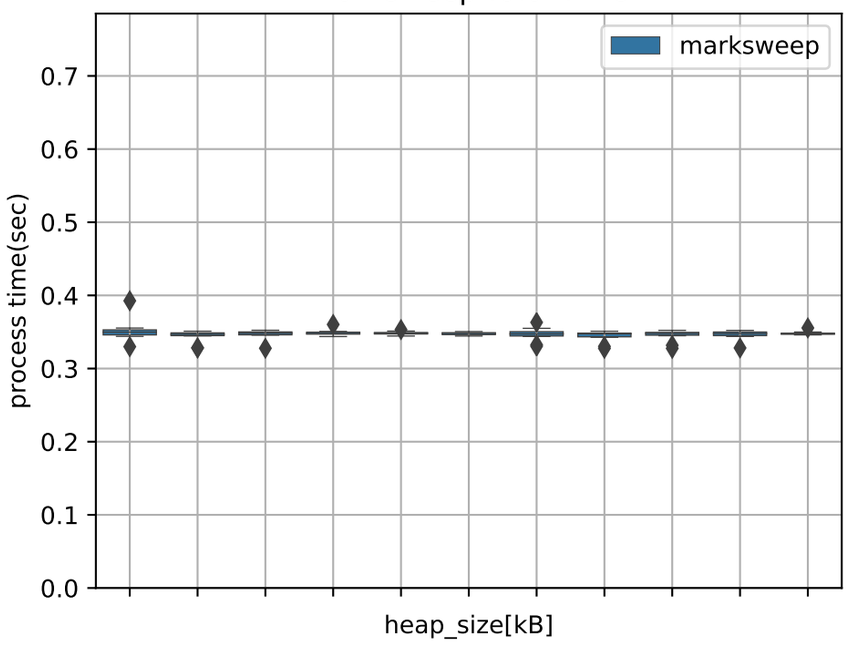
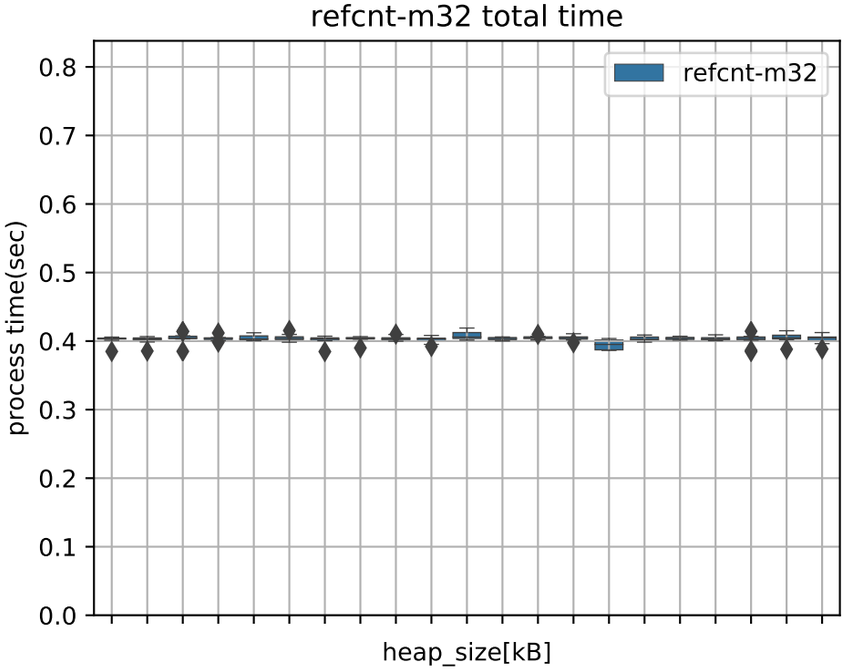
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
159240
169240
179240
189240
199240
209240
219240
229240
239240
249240
259240
heap_size[kB]
marksweep-early-m32
marksweep-early
marksweep-m32
marksweep
refcnt-m32
refcount

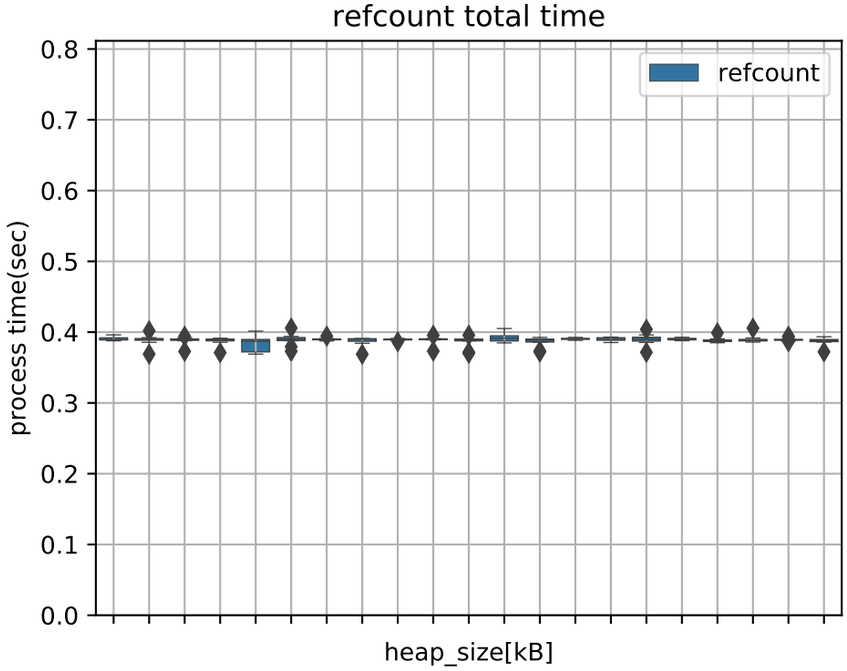

marksweep-early-m32 total time
marksweep-early-m32
process time(sec)
heap_size[kB]

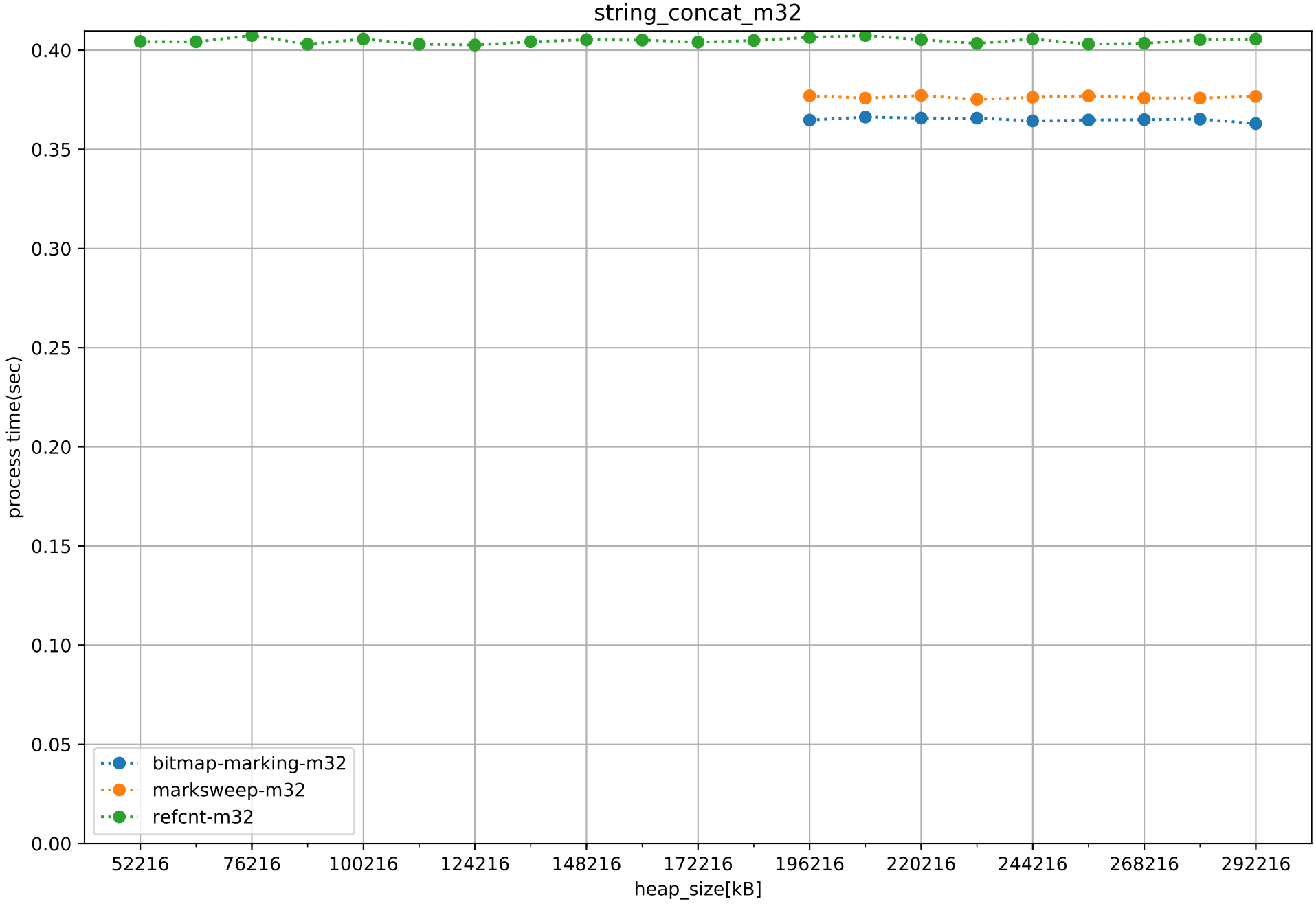

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

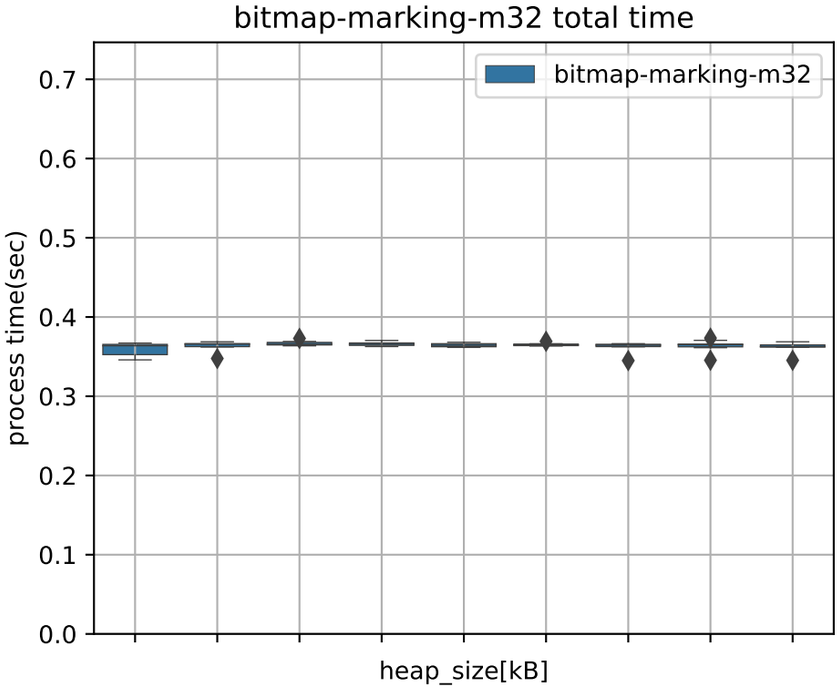

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]

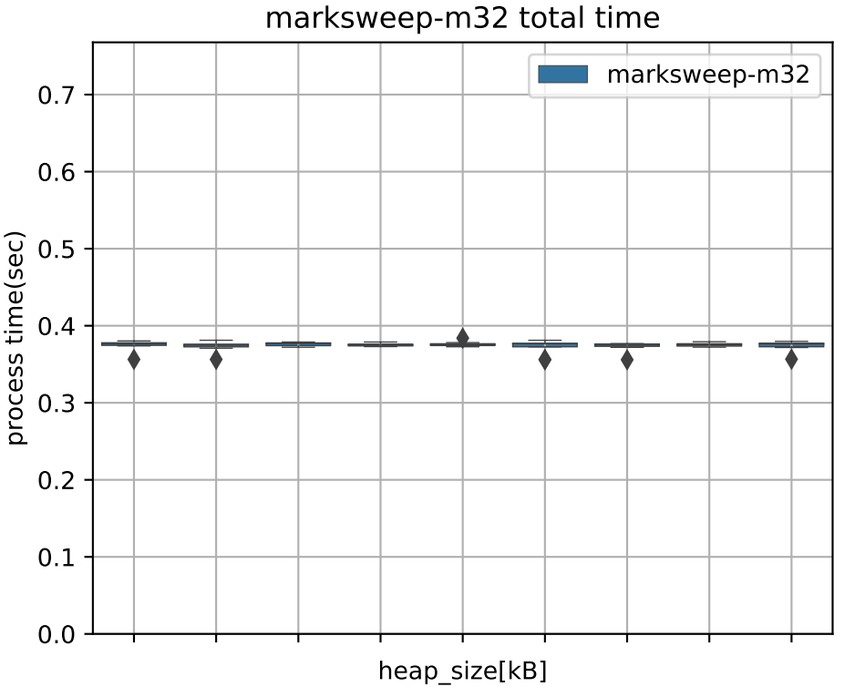

marksweep total time
marksweep
process time(sec)
heap_size[kB]

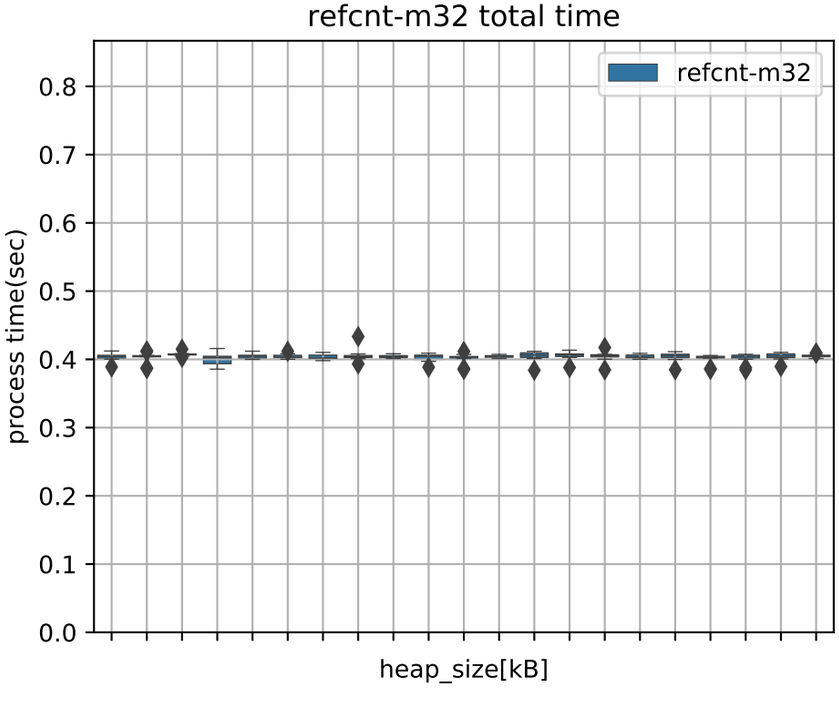

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]

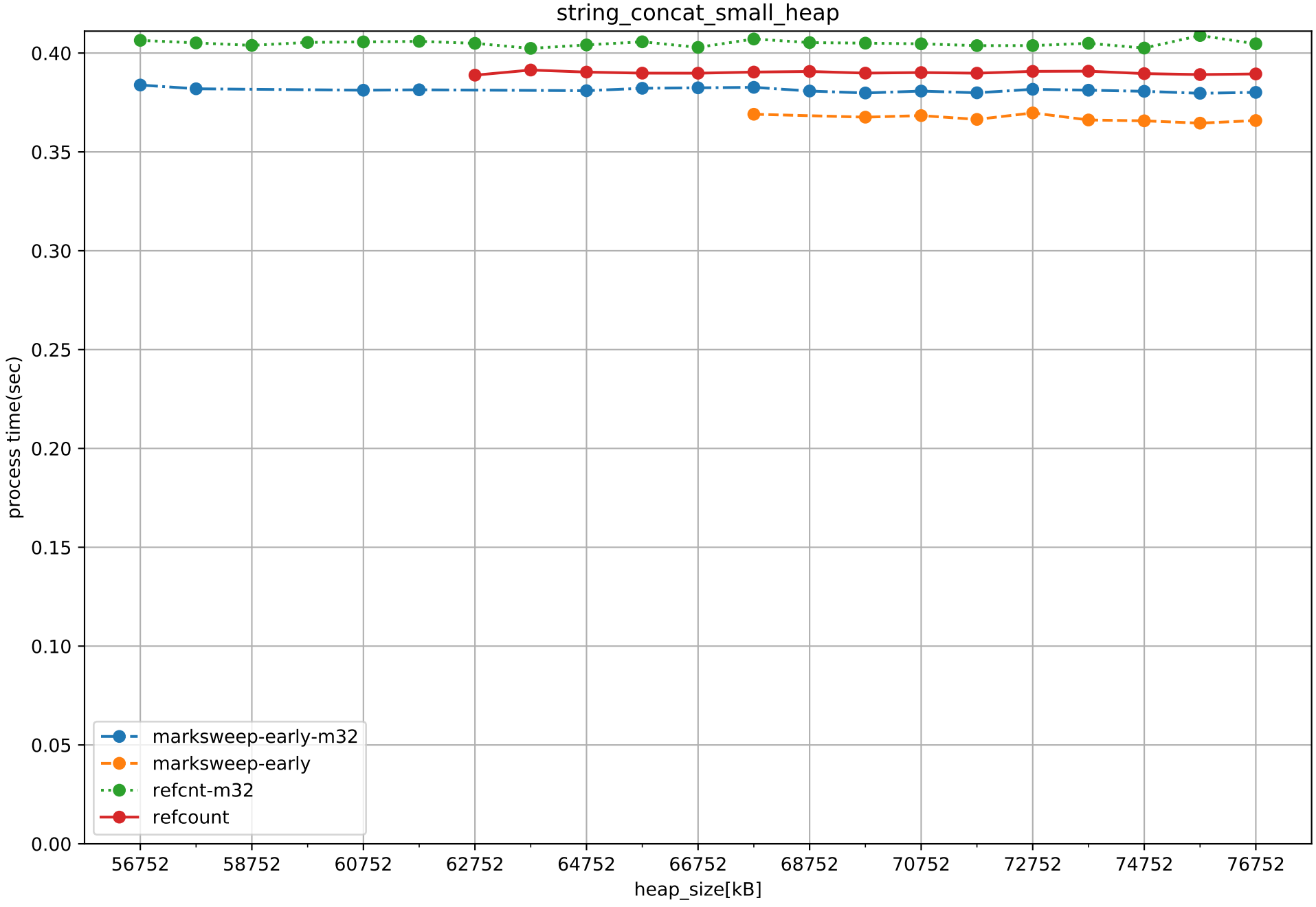

refcount total time
refcount
process time(sec)
heap_size[kB]

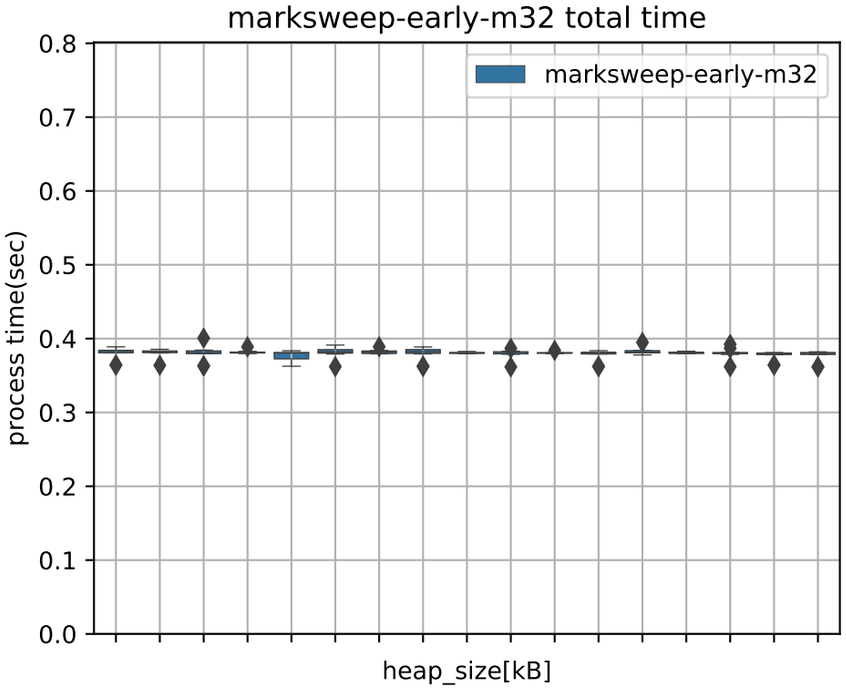

string_concat_m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
52216
76216
100216
124216
148216
172216
196216
220216
244216
268216
292216
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

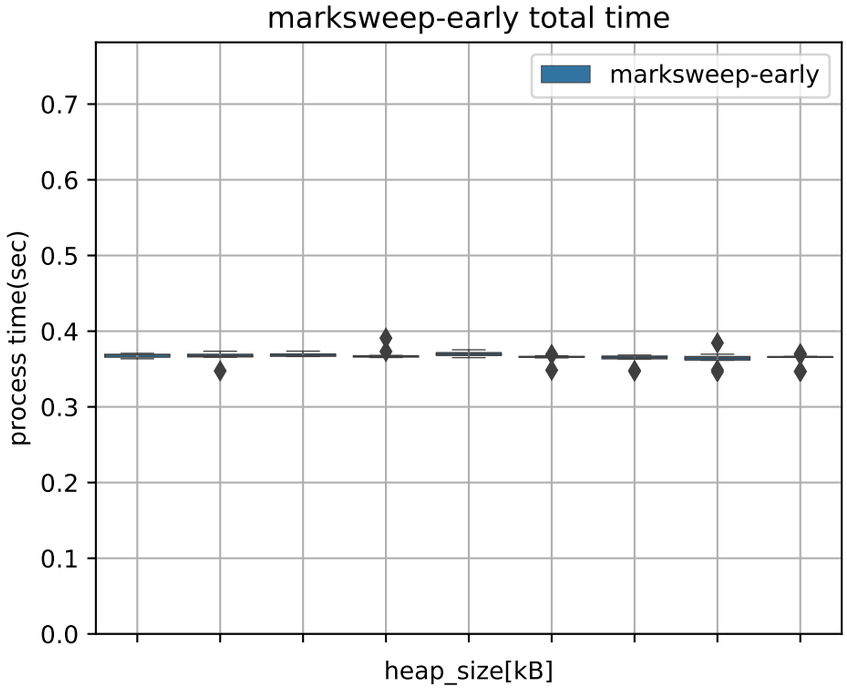

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
heap_size[kB]

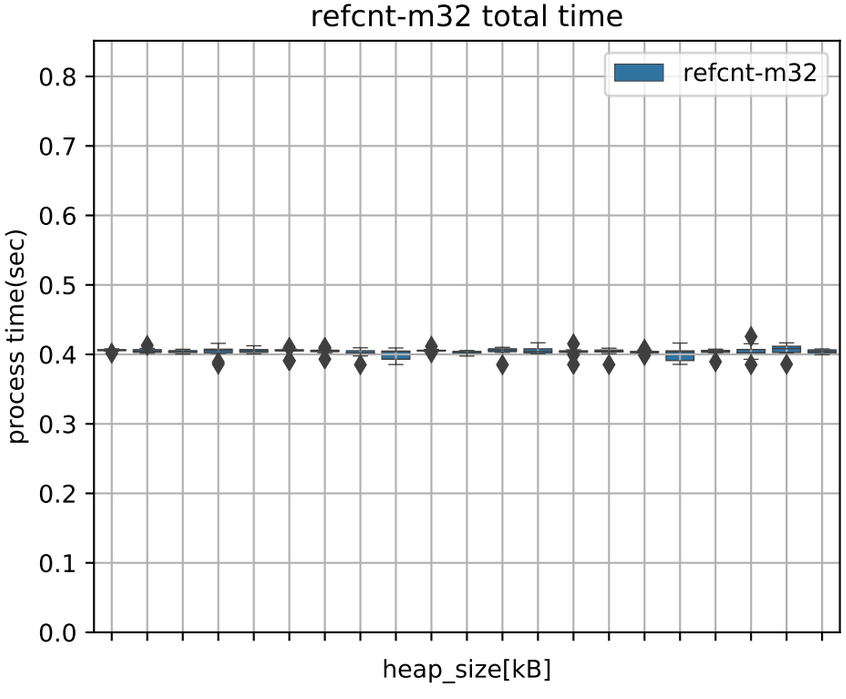

marksweep-m32 total time
marksweep-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
heap_size[kB]

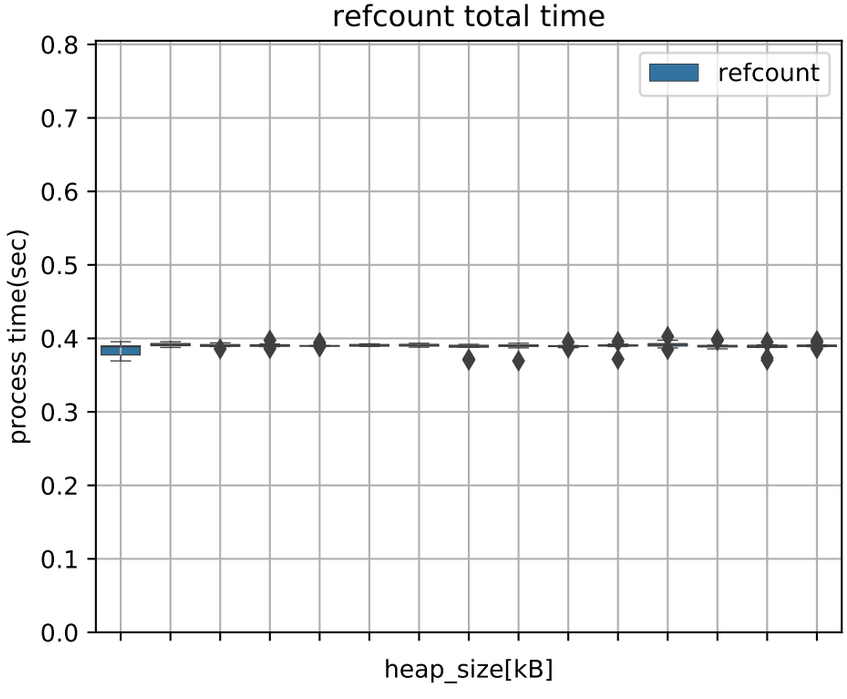

refcnt-m32 total time
refcnt-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
heap_size[kB]

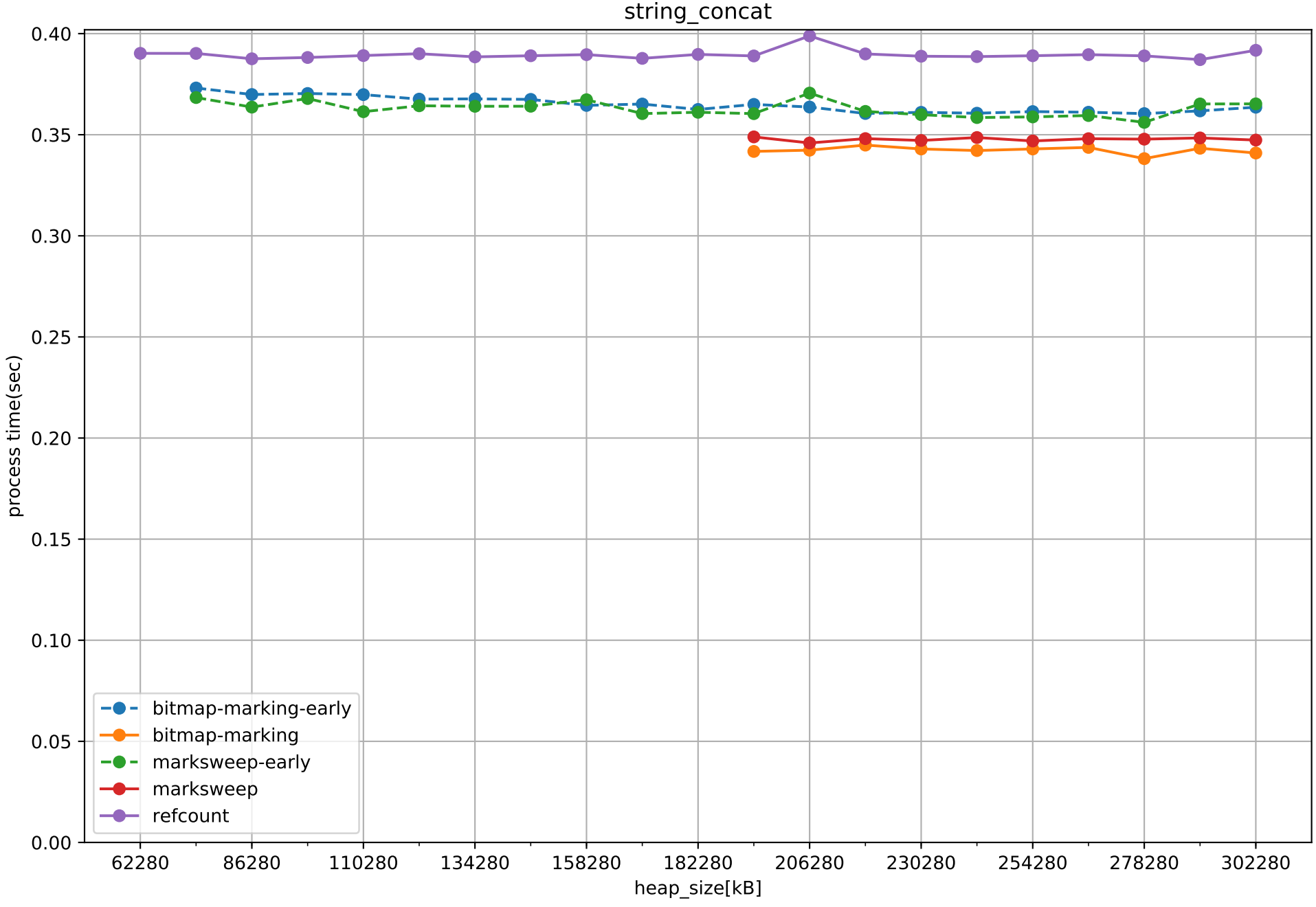

string_concat_small_heap
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
56752
58752
60752
62752
64752
66752
68752
70752
72752
74752
76752
heap_size[kB]
marksweep-early-m32
marksweep-early
refcnt-m32
refcount

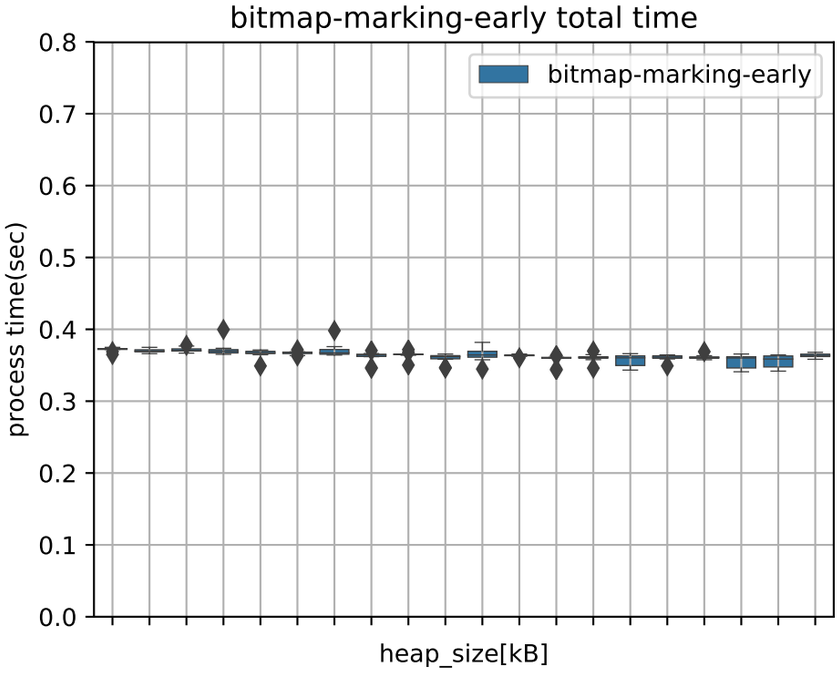

marksweep-early-m32 total time
marksweep-early-m32
process time(sec)
heap_size[kB]
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8

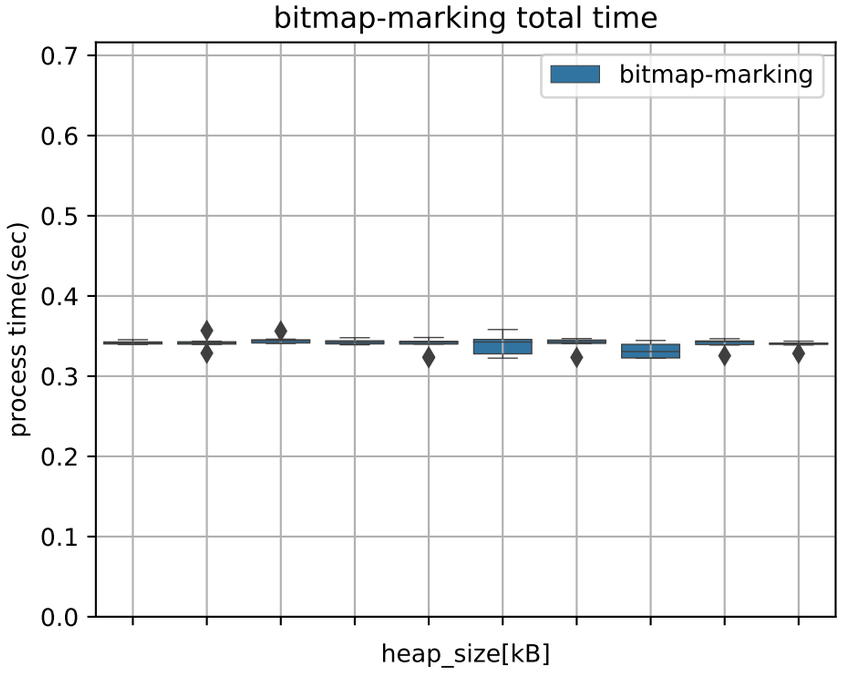

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7

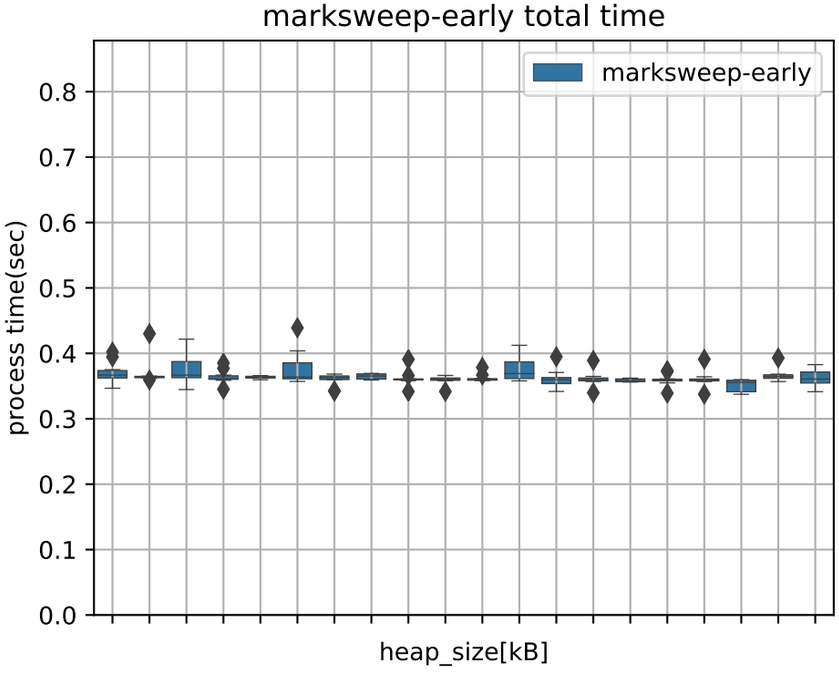

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8

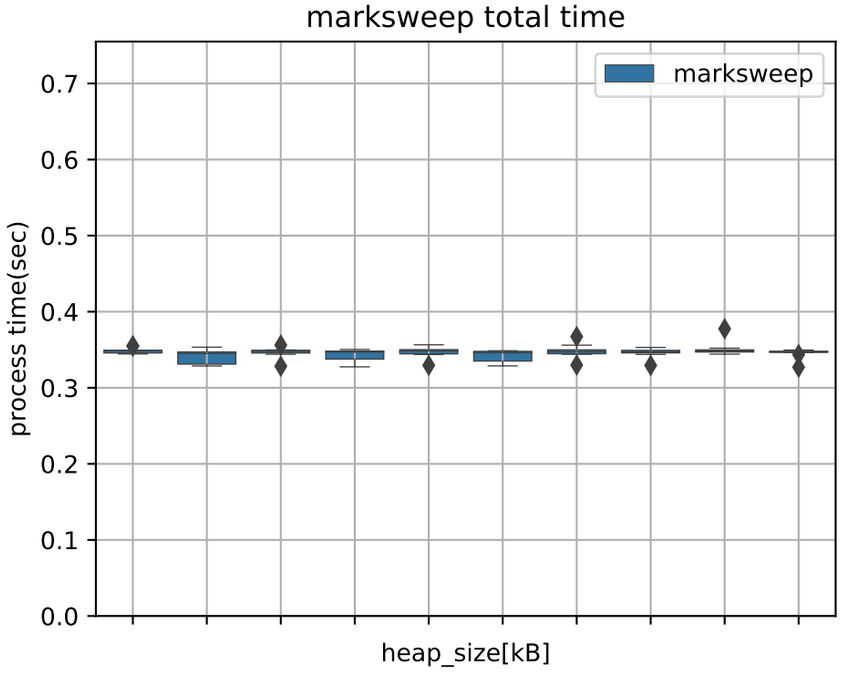

refcount total time
refcount
process time(sec)
heap_size[kB]
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8

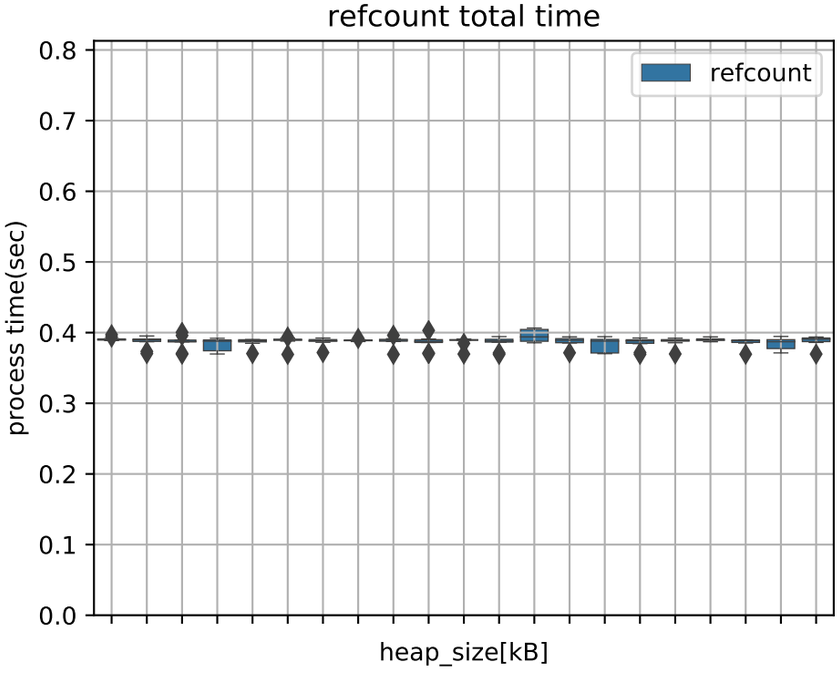

string_concat
process time(sec)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
62280
86280
110280
134280
158280
182280
206280
230280
254280
278280
302280
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount


bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]


bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]


marksweep total time
marksweep
process time(sec)
heap_size[kB]


refcount total time
refcount
process time(sec)
heap_size[kB]