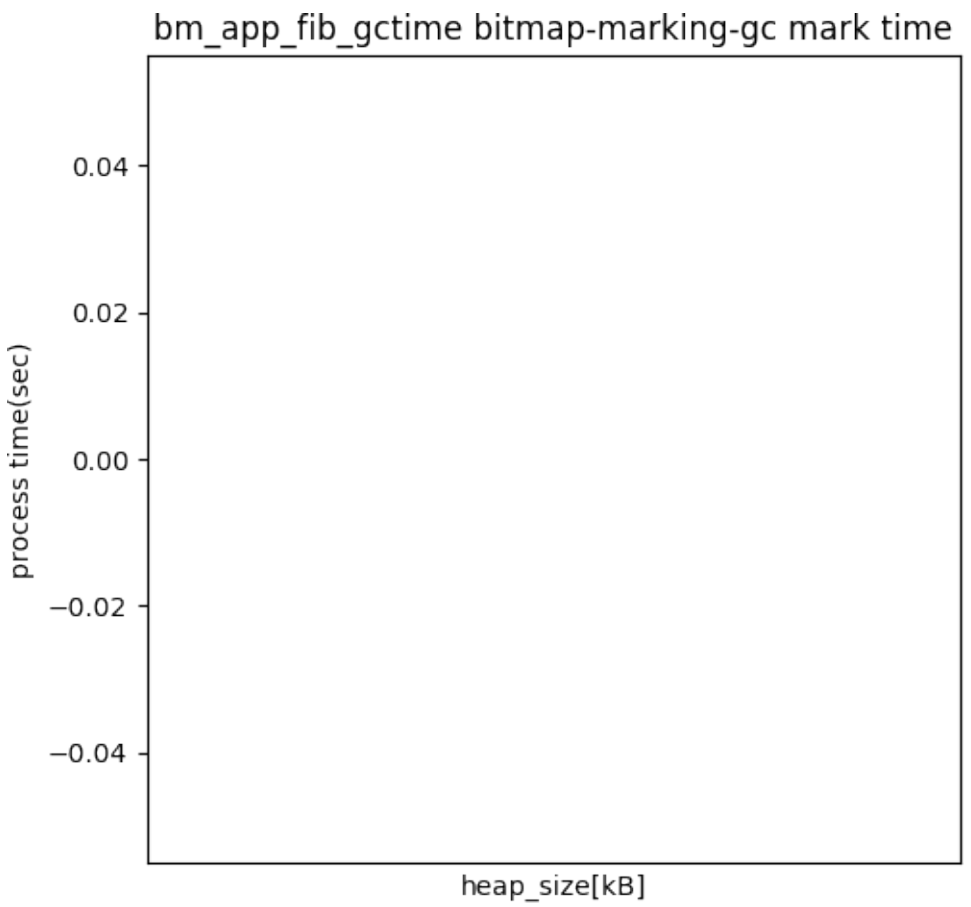
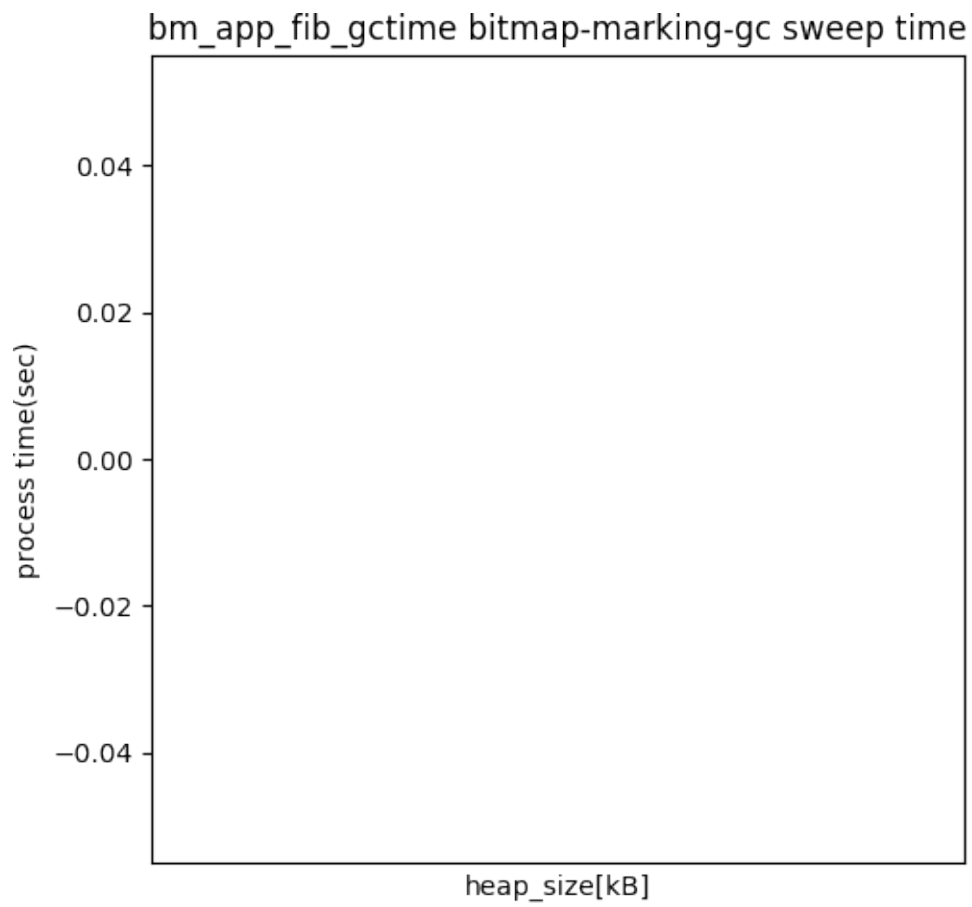
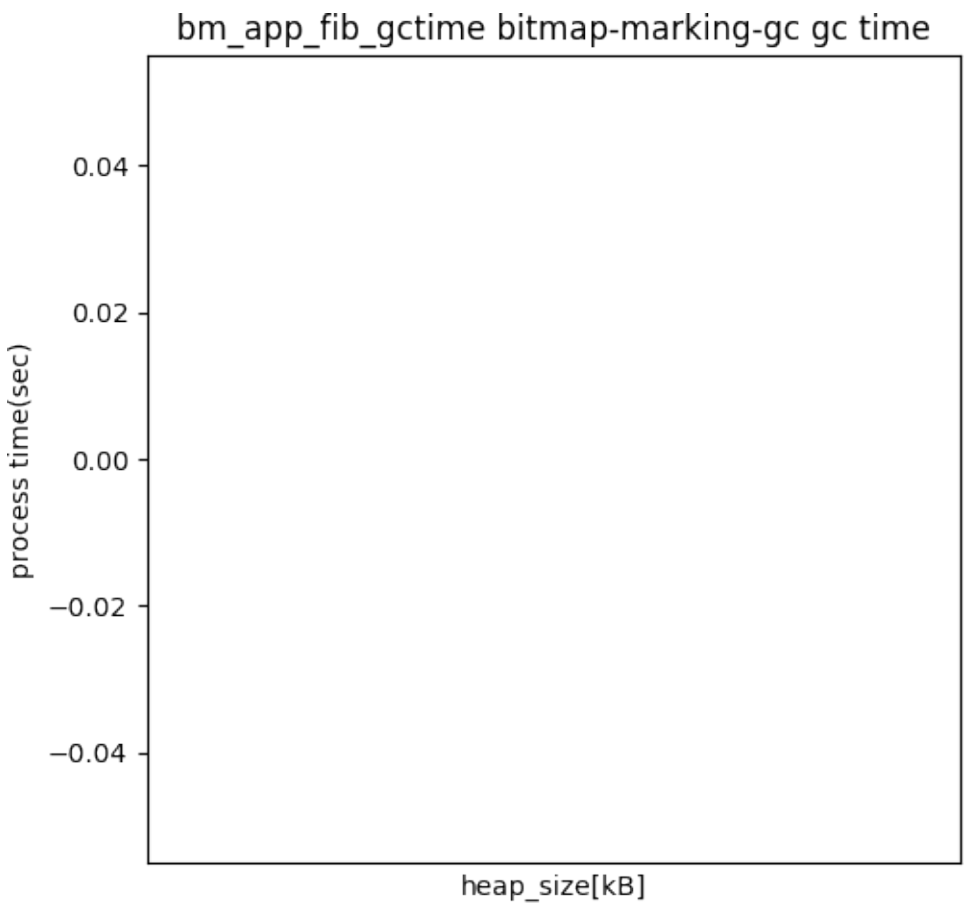
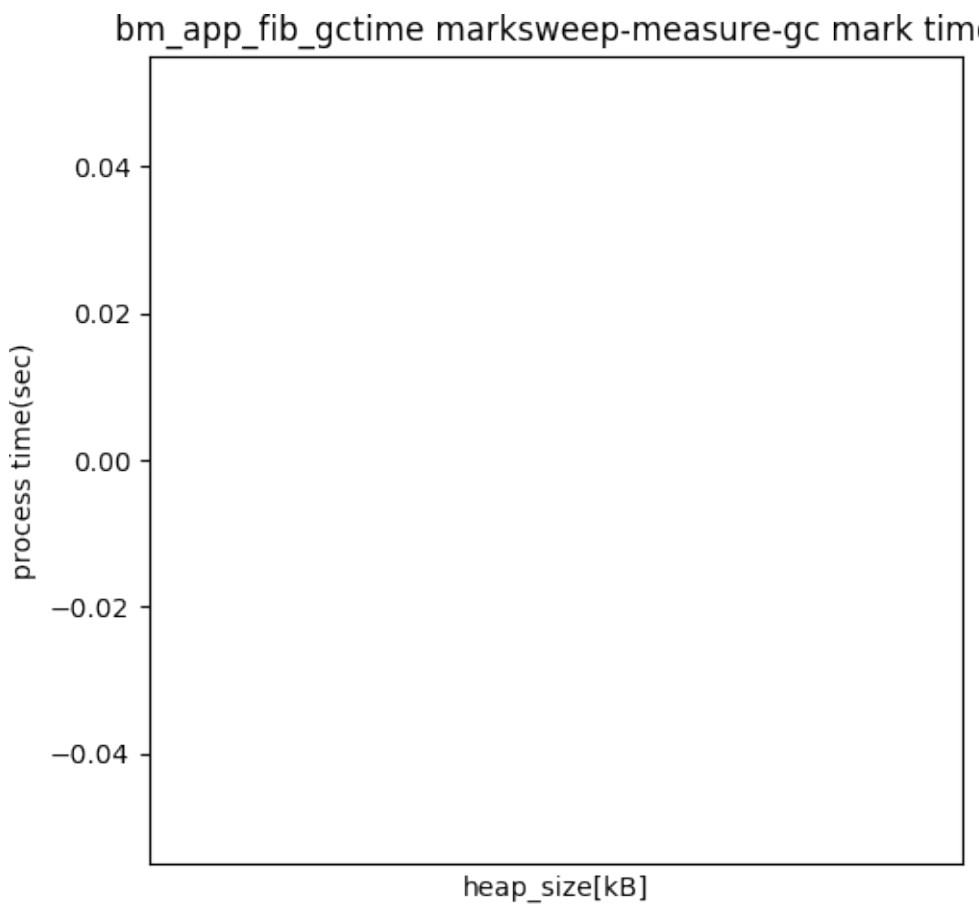
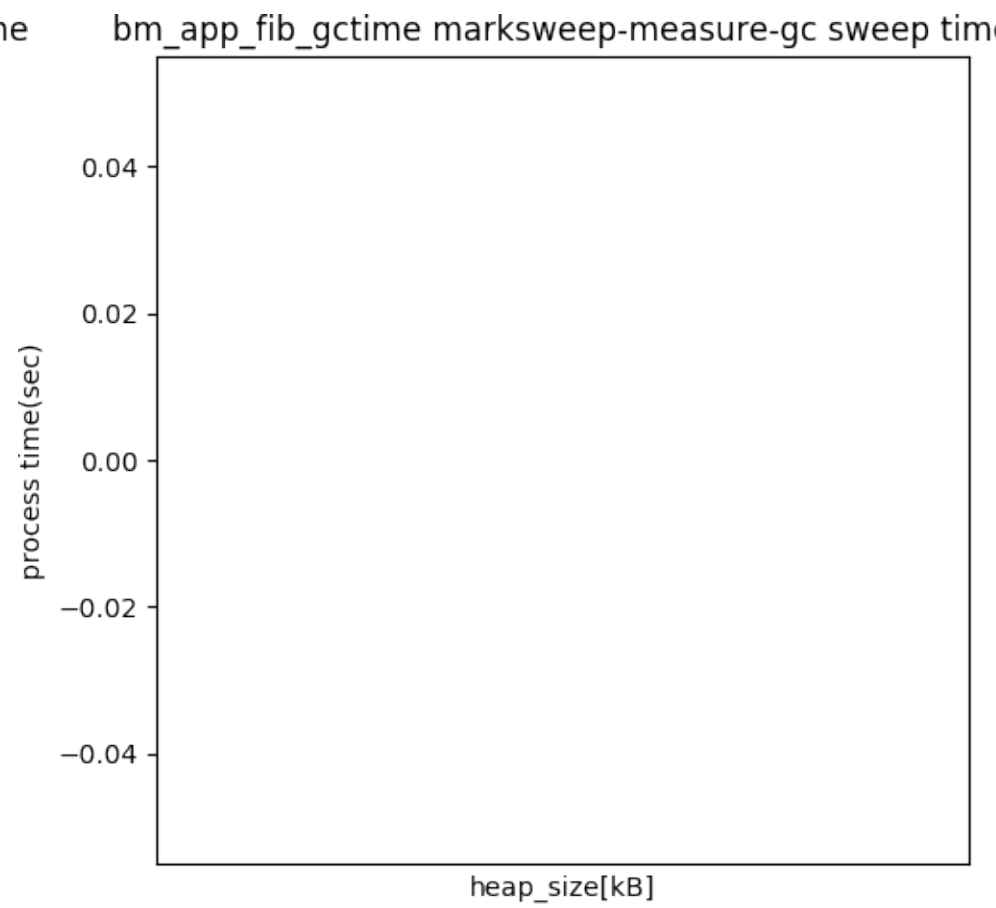
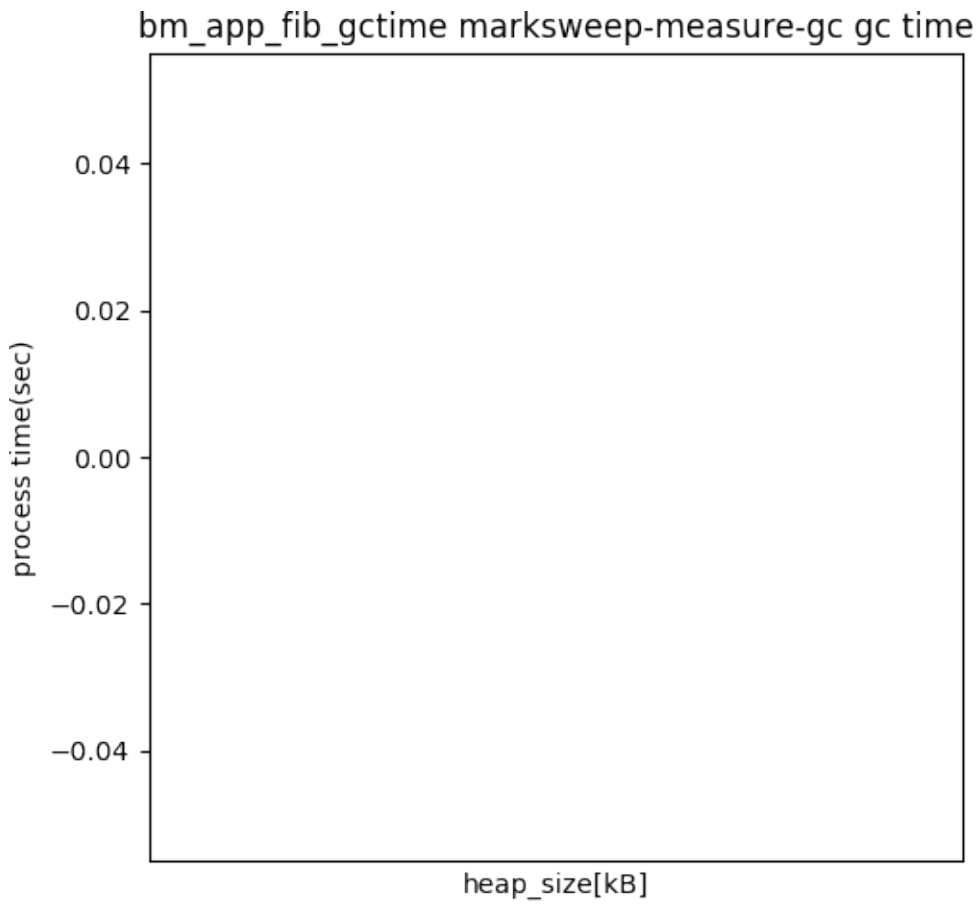

bm_app_fib_gctime bitmap-marking-gc mark time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

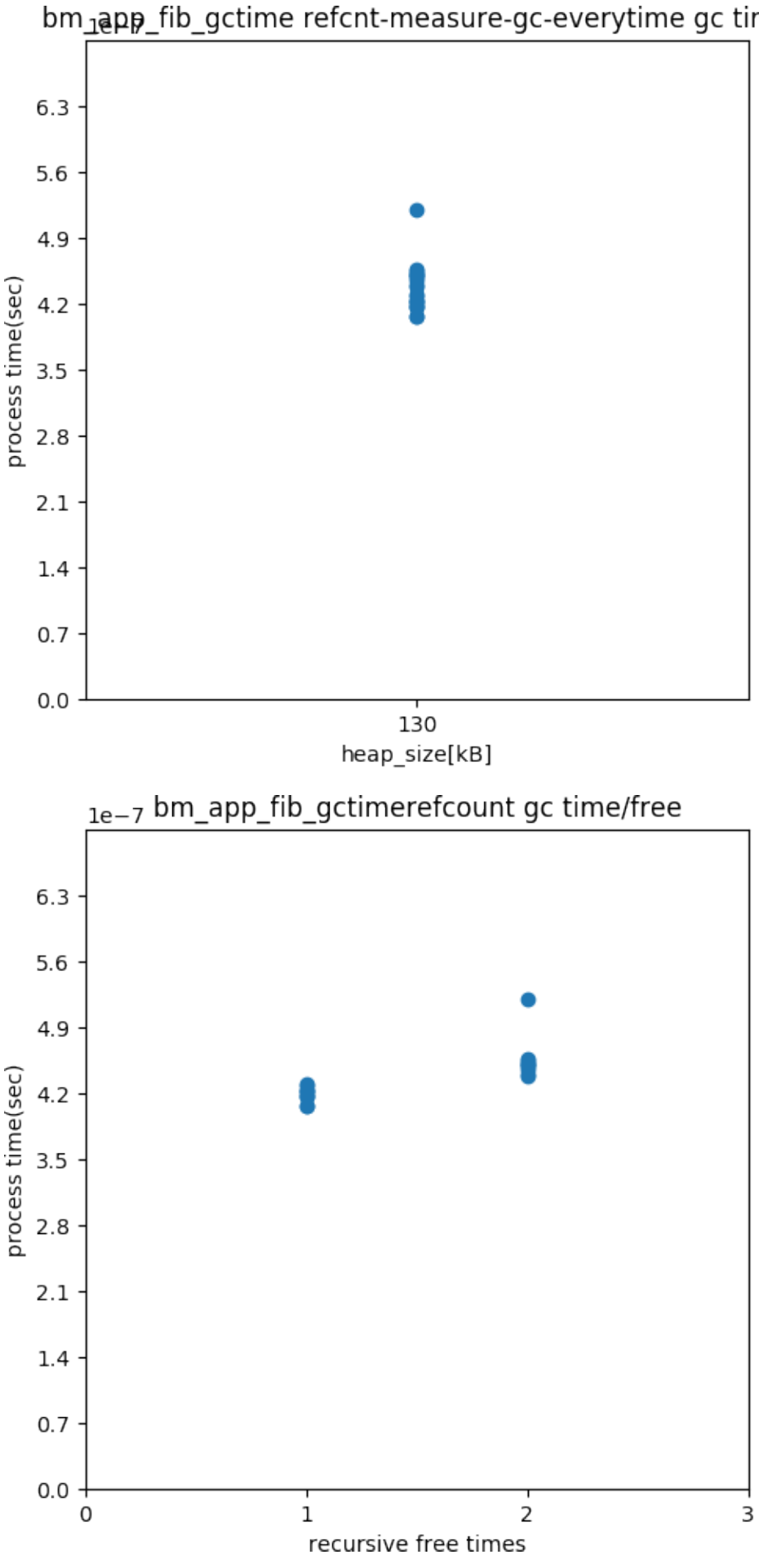

bm_app_fib_gctime bitmap-marking-gc sweep time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

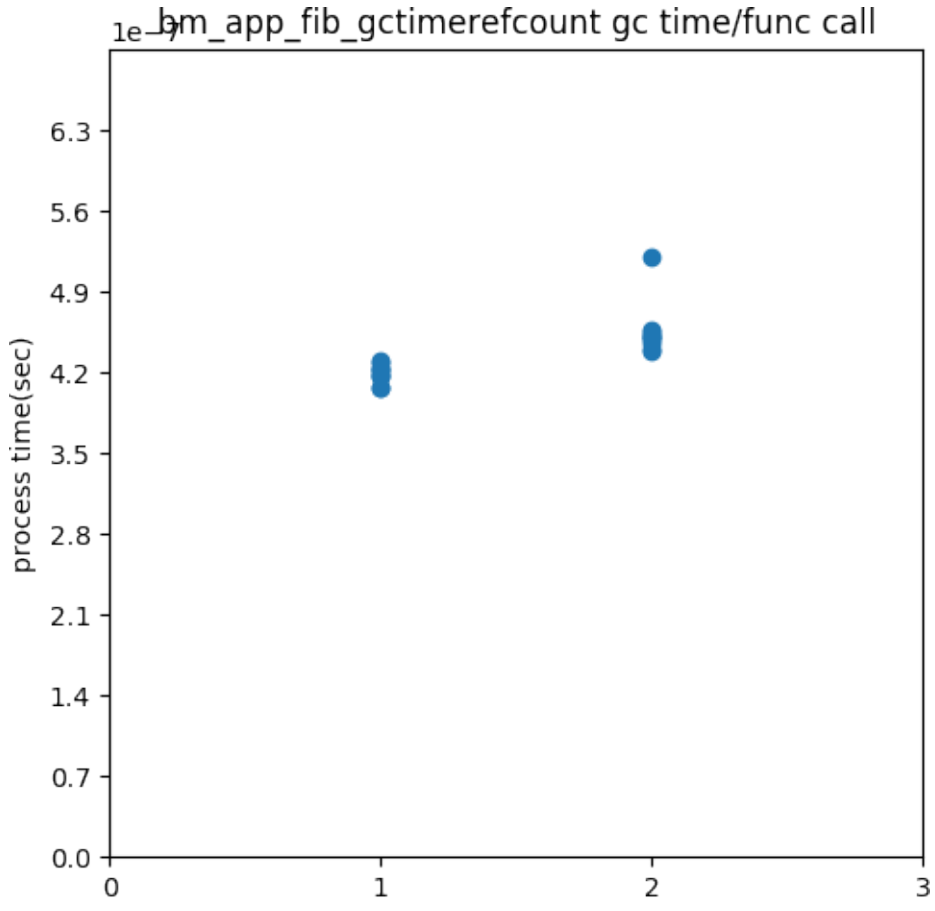

bm_app_fib_gctime bitmap-marking-gc gc time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]


bm_app_fib_gctime marksweep-measure-gc mark time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

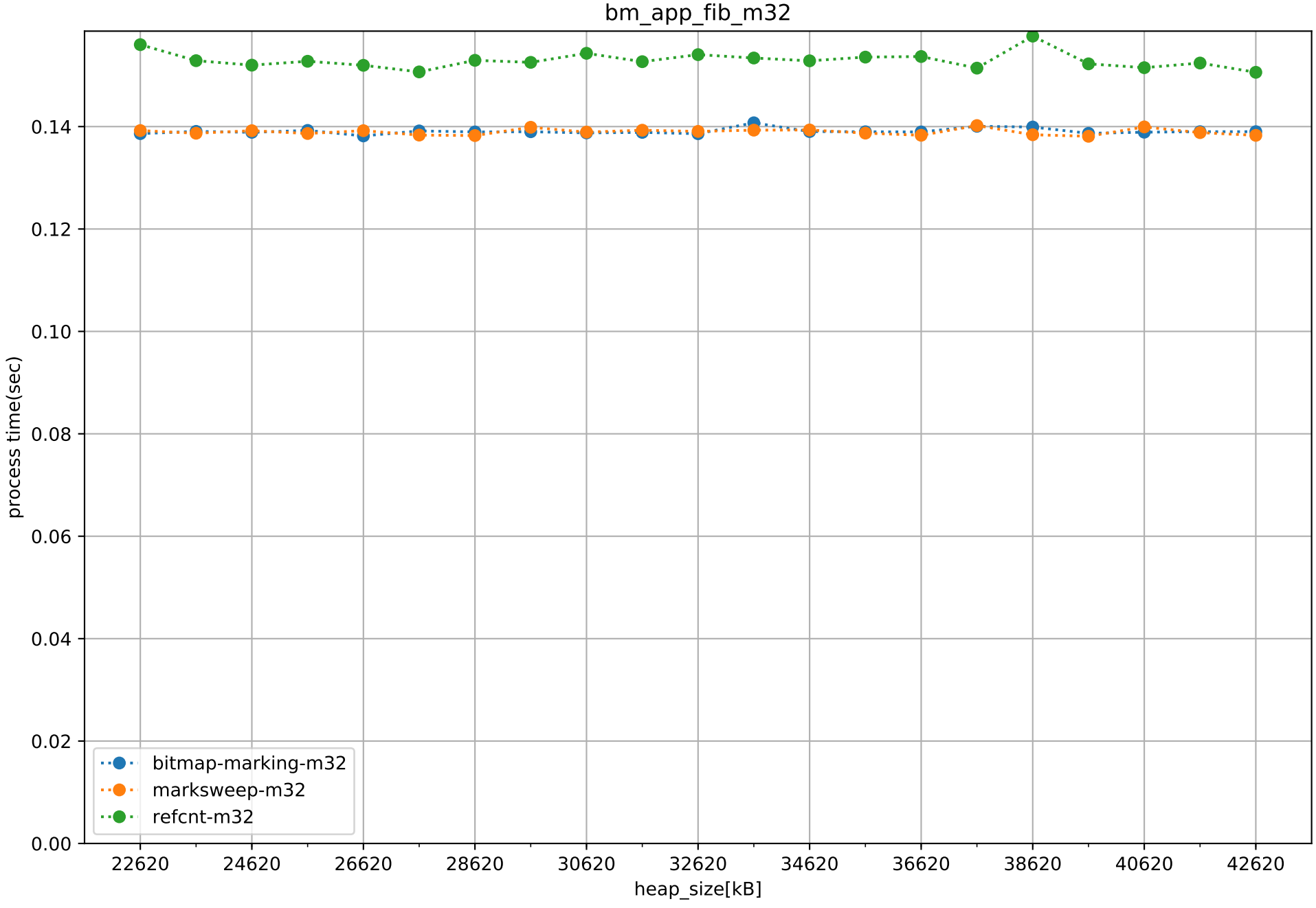

bm_app_fib_gctime marksweep-measure-gc sweep time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

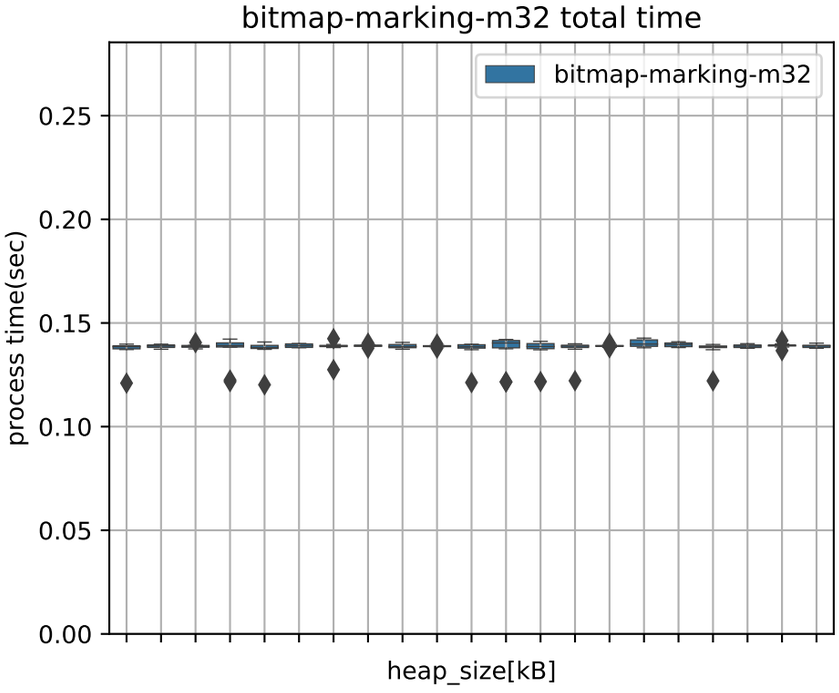

bm_app_fib_gctime marksweep-measure-gc gc time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

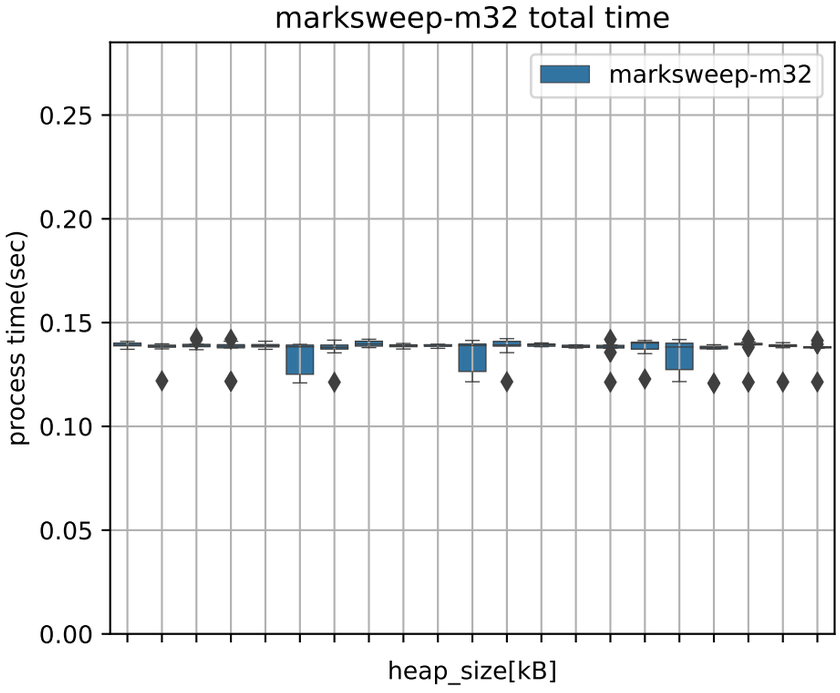

bm_app_fib_gctime refcnt-measure-gc-everytime gc time
1e−7
6.3
5.6
4.9
4.2
3.5
2.8
2.1
1.4
0.7
0.0
process time(sec)
130
heap_size[kB]

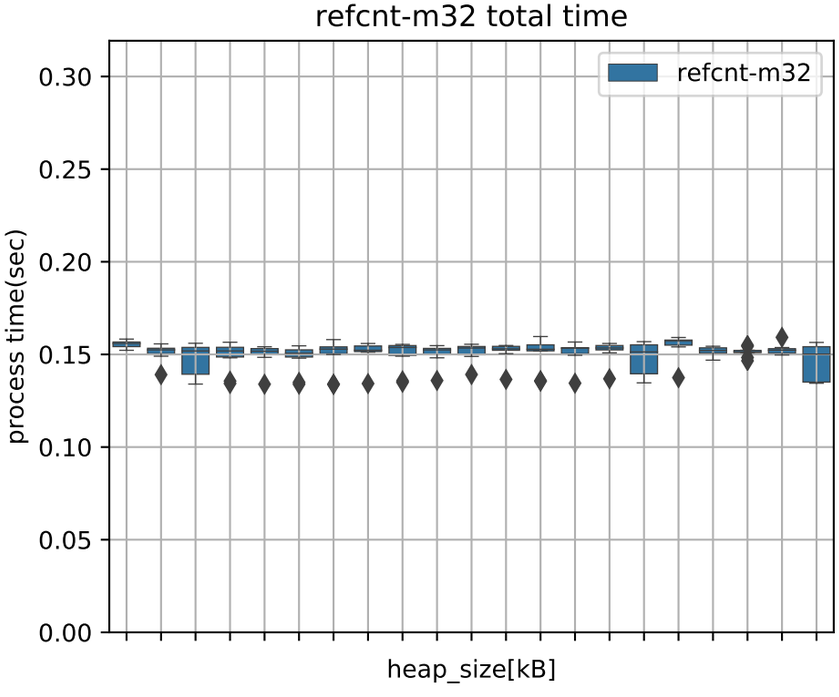

bm_app_fib_gctimerefcount gc time/func call
1e−7
6.3
5.6
4.9
4.2
3.5
2.8
2.1
1.4
0.7
0.0
process time(sec)
0
1
2
3
recursive dec_ref_counter times

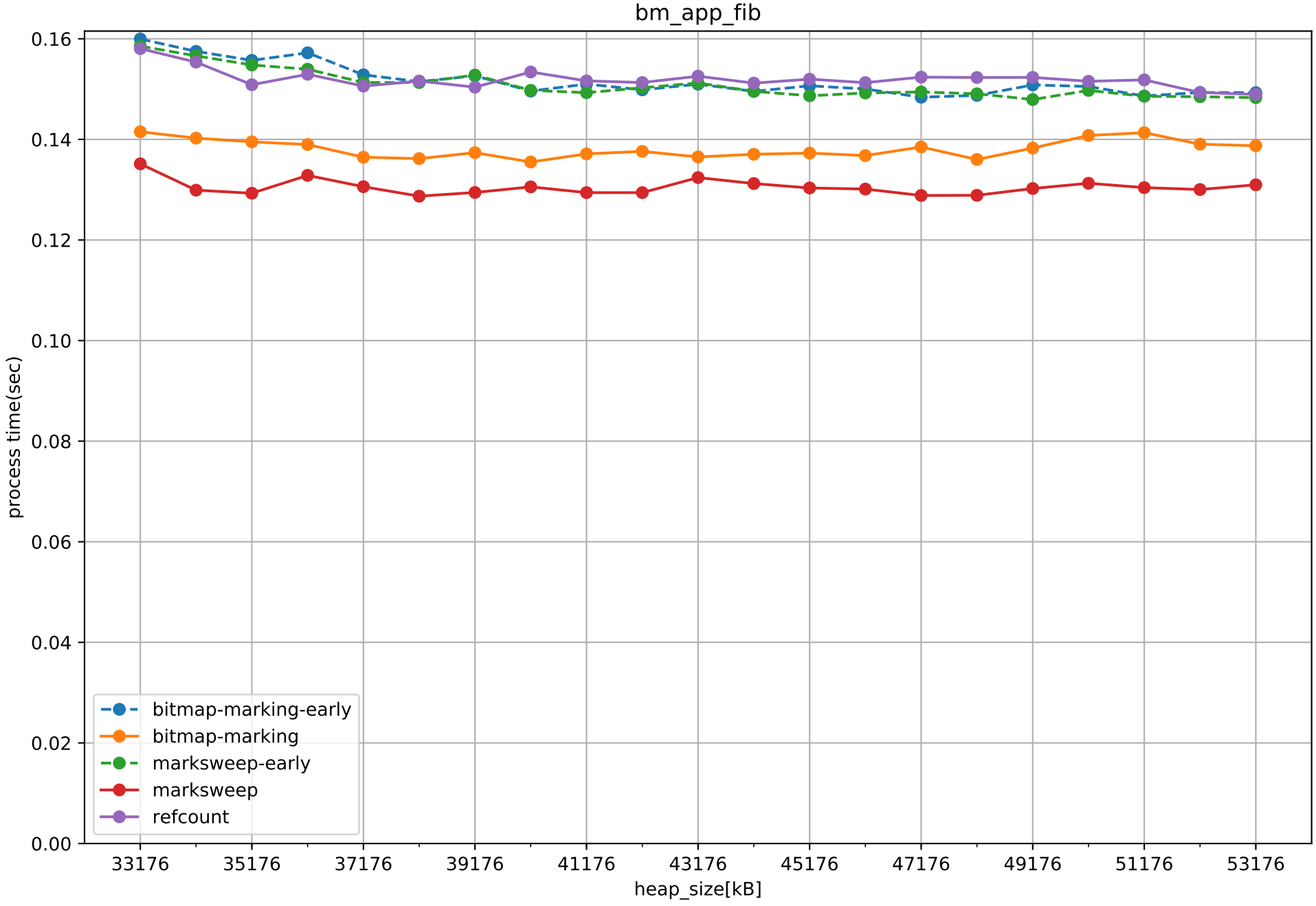
1e−7 bm_app_fib_gctimerefcount gc time/free
6.3
5.6
4.9
4.2
3.5
2.8
2.1
1.4
0.7
0.0
process time(sec)
0
1
2
3
recursive free times

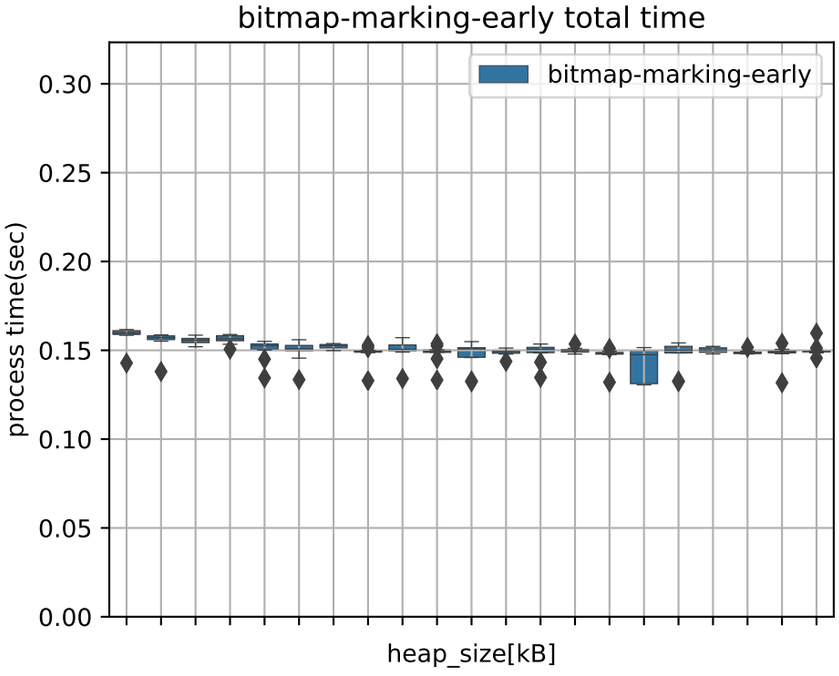

bm_app_fib_m32
process time(sec)
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
22620
24620
26620
28620
30620
32620
34620
36620
38620
40620
42620
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

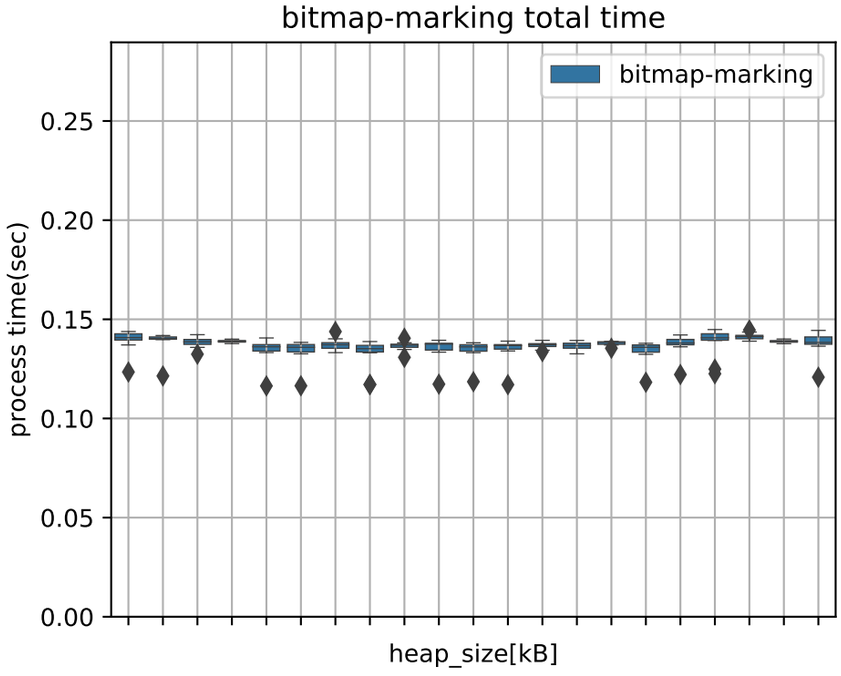

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.25
0.20
0.15
0.10
0.05
0.00
heap_size[kB]

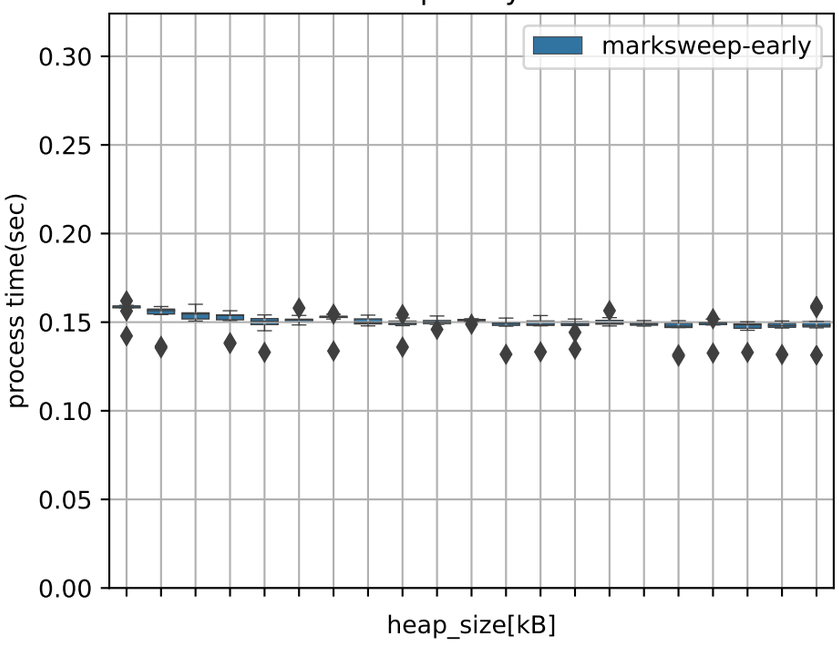

marksweep-m32 total time
marksweep-m32
process time(sec)
0.25
0.20
0.15
0.10
0.05
0.00
heap_size[kB]

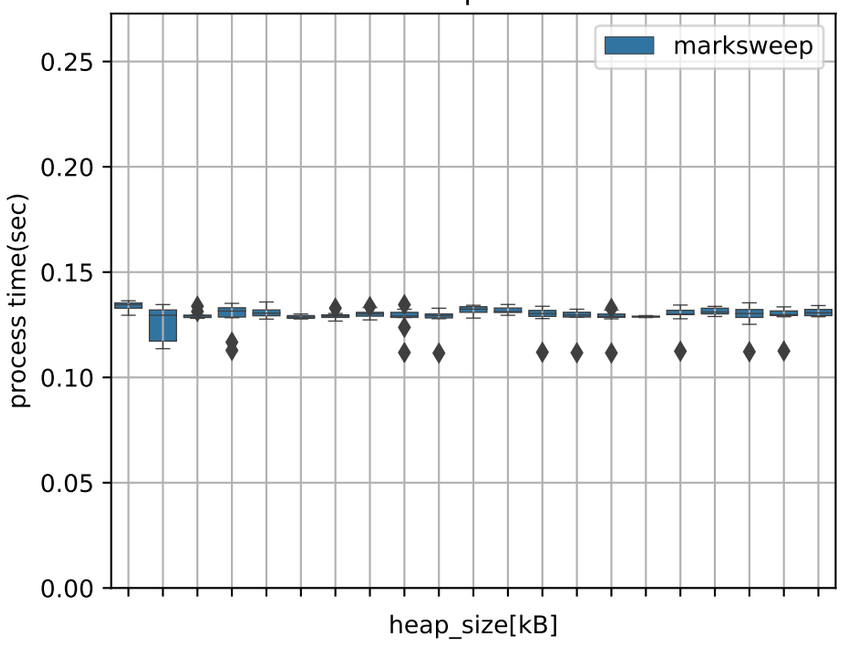

refcnt-m32 total time
refcnt-m32
process time(sec)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
heap_size[kB]

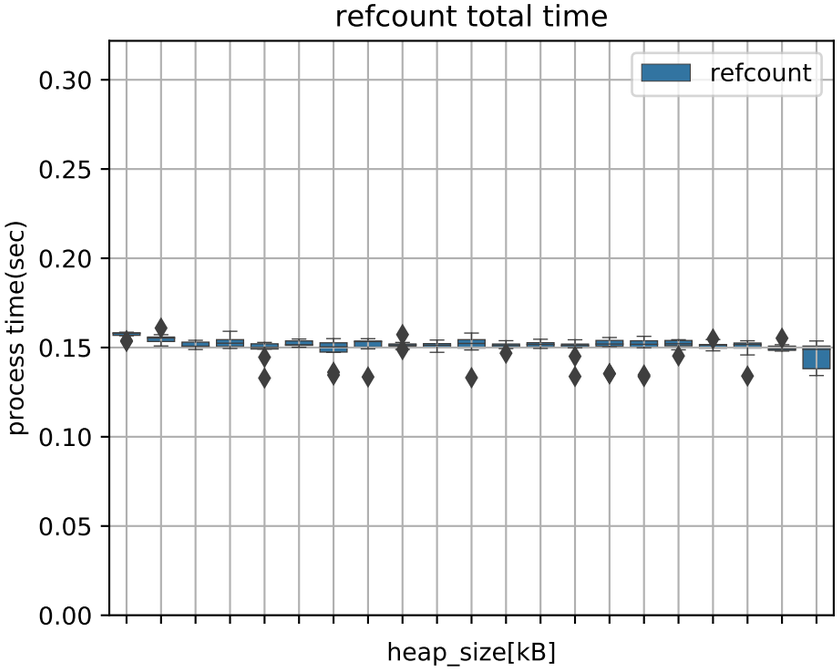

bm_app_fib
process time(sec)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
33176
35176
37176
39176
41176
43176
45176
47176
49176
51176
53176
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

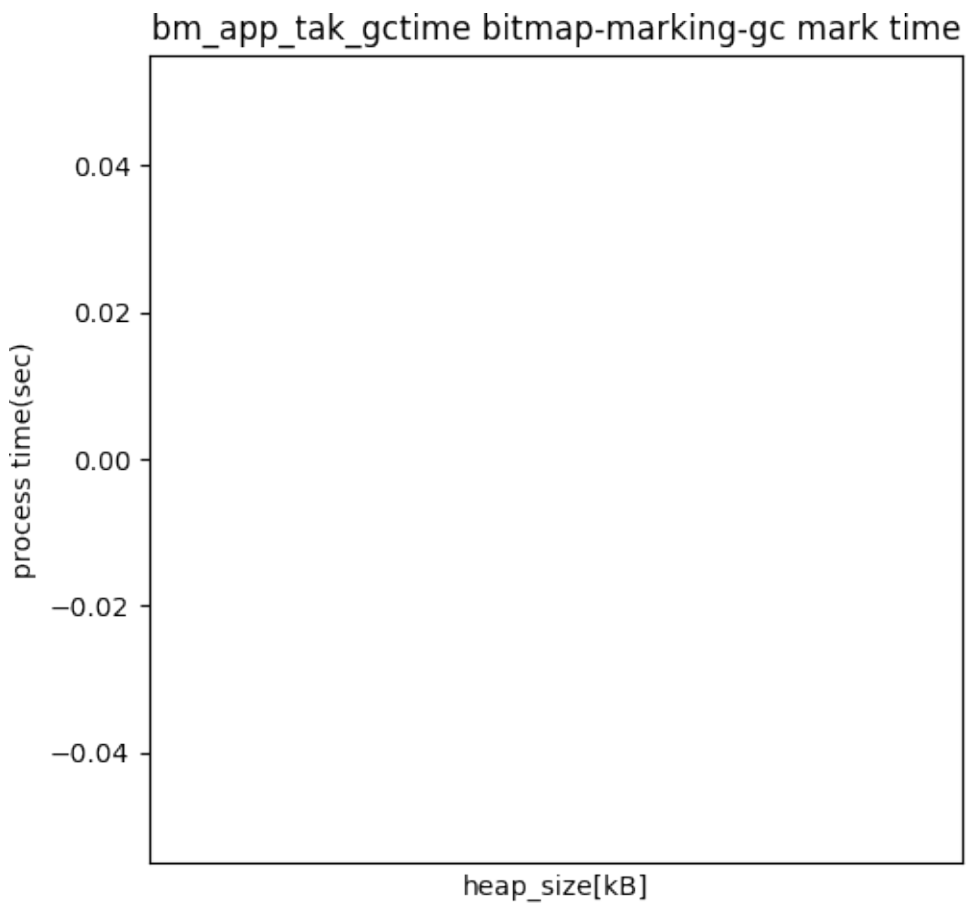

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

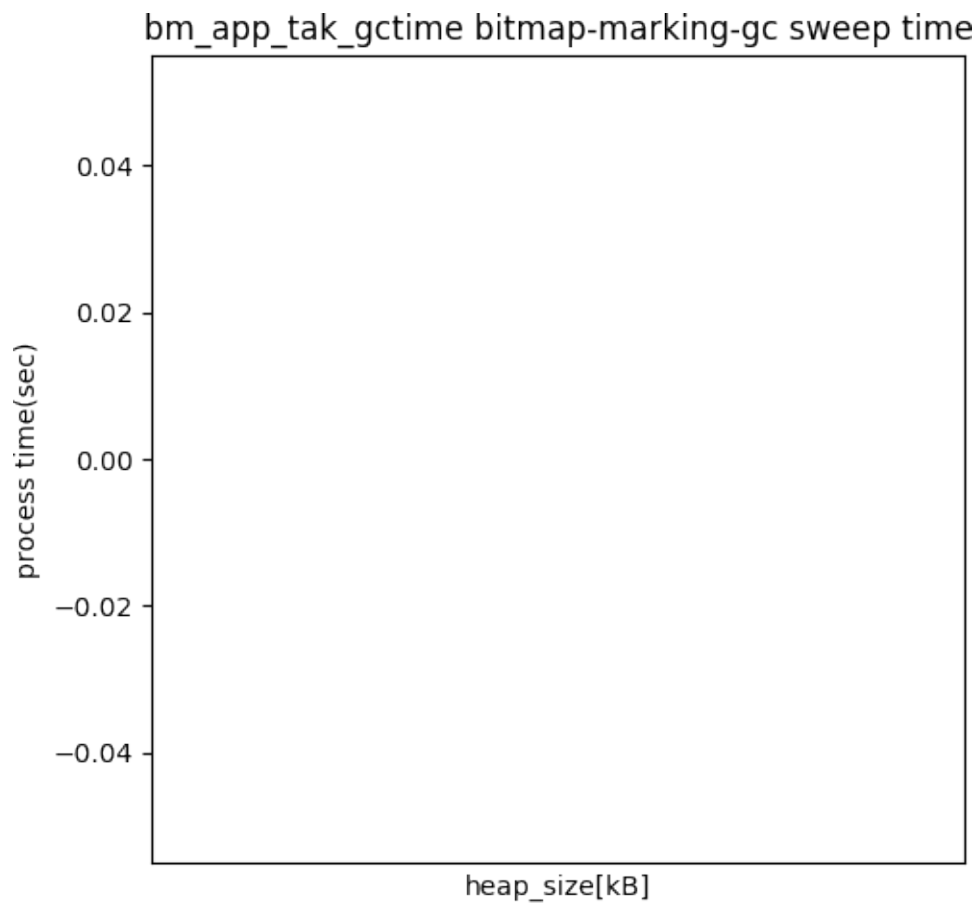

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]

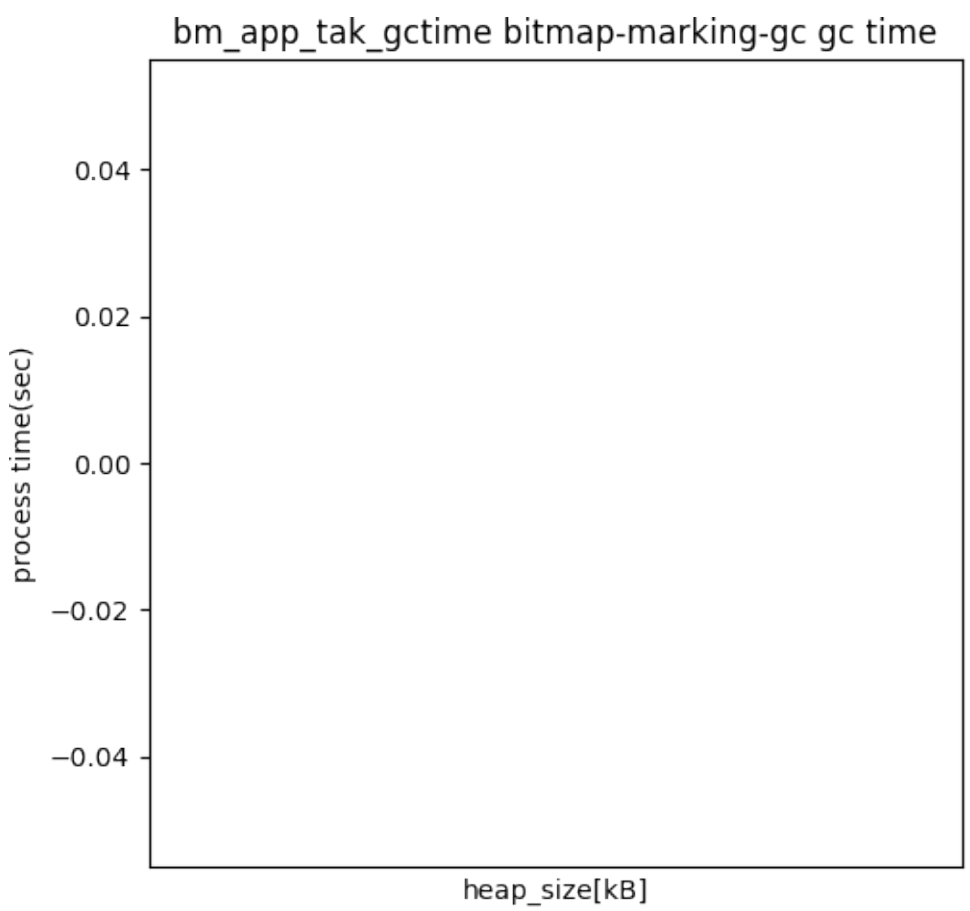

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

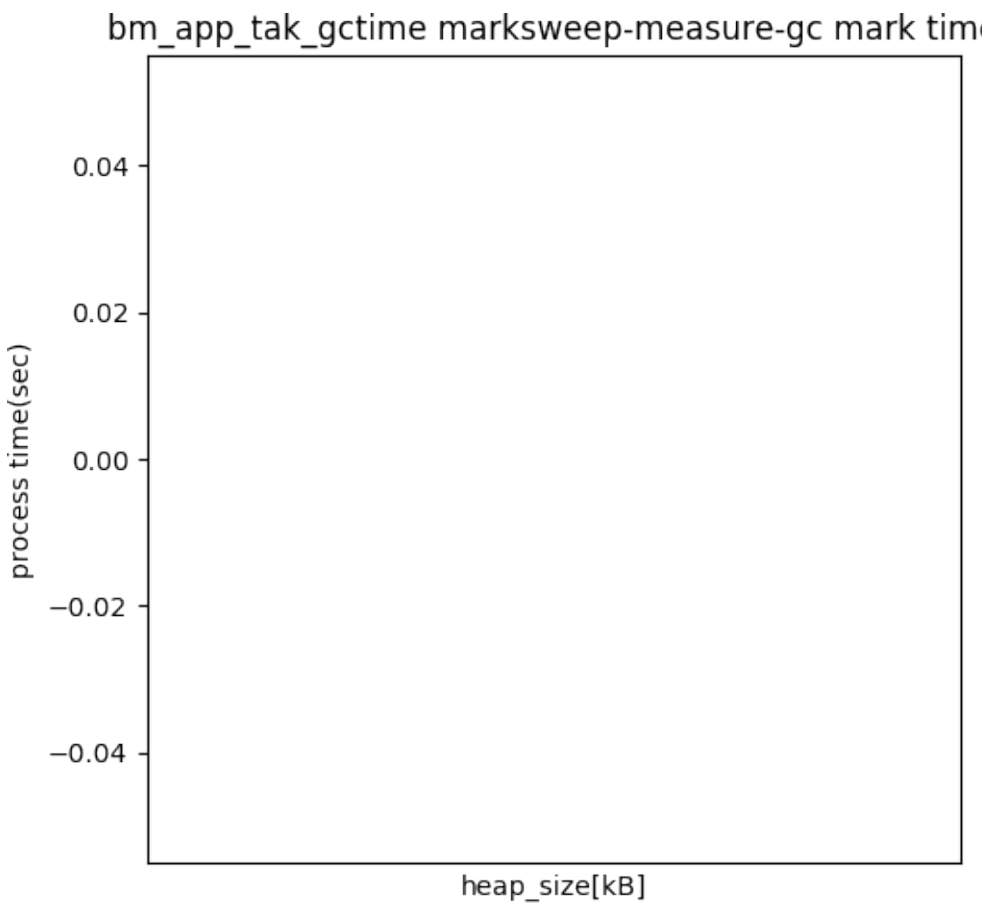

marksweep total time
marksweep
process time(sec)
heap_size[kB]

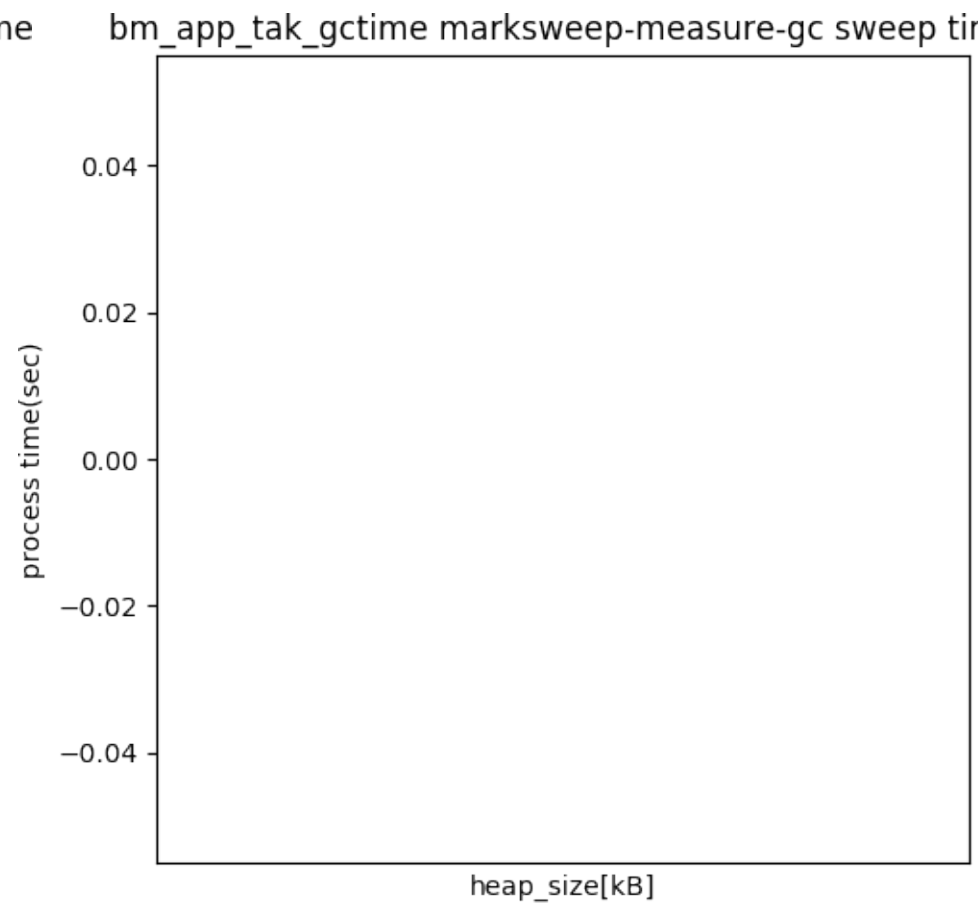

refcount total time
refcount
process time(sec)
heap_size[kB]

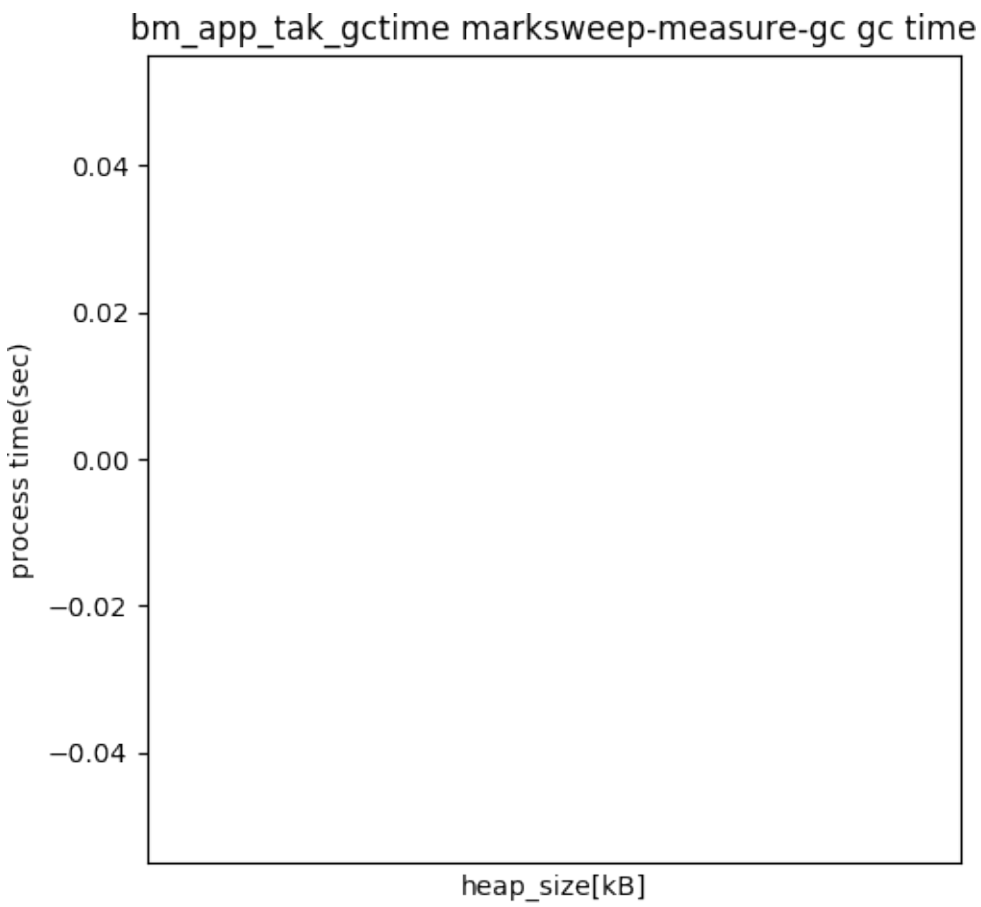

bm_app_tak_gctime bitmap-marking-gc mark time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

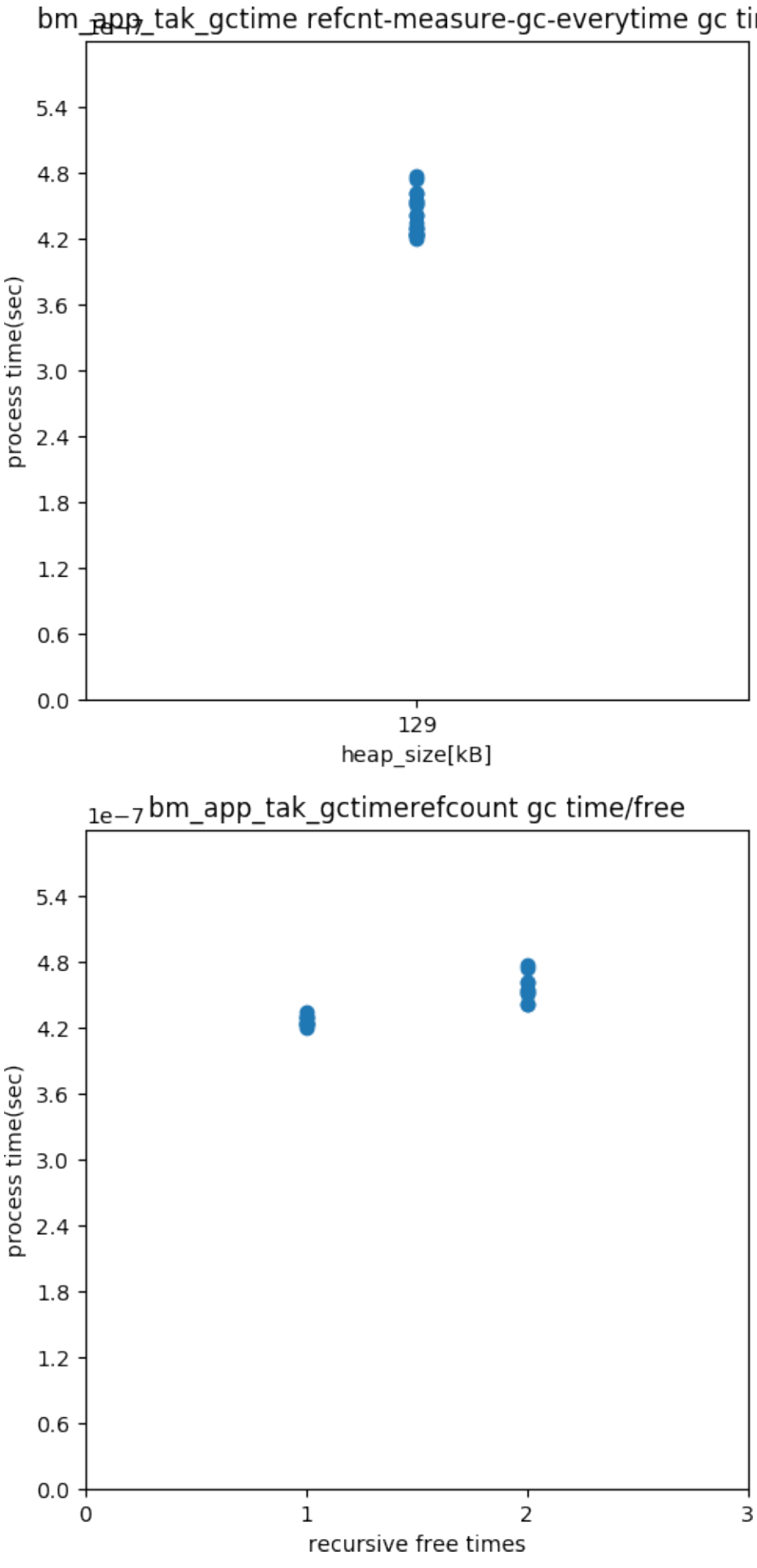

bm_app_tak_gctime bitmap-marking-gc sweep time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

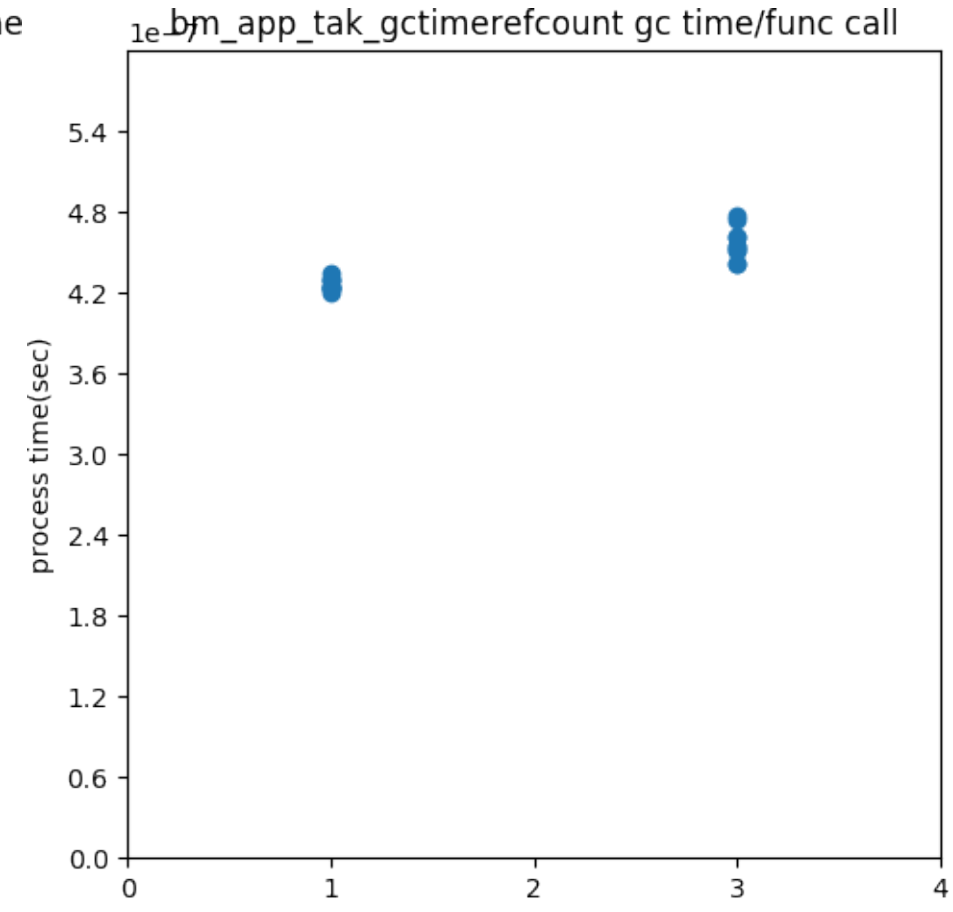

bm_app_tak_gctime bitmap-marking-gc gc time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]


bm_app_tak_gctime marksweep-measure-gc mark time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

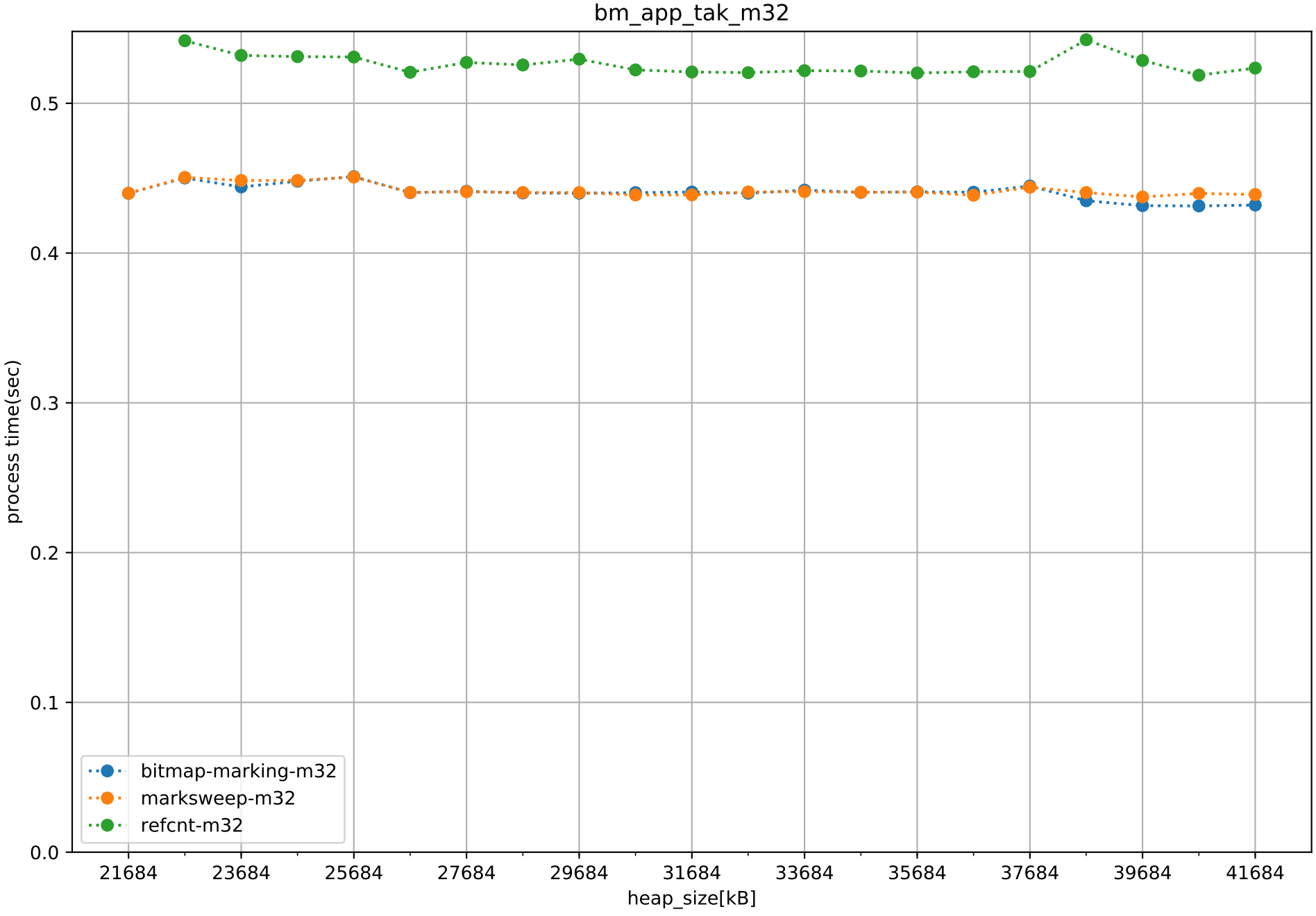

bm_app_tak_gctime marksweep-measure-gc sweep time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

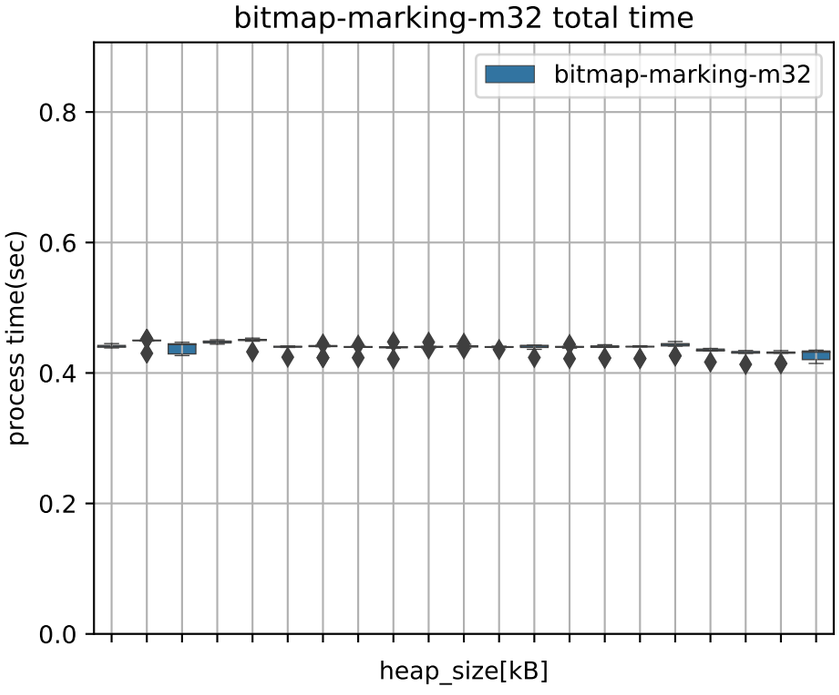

bm_app_tak_gctime marksweep-measure-gc gc time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

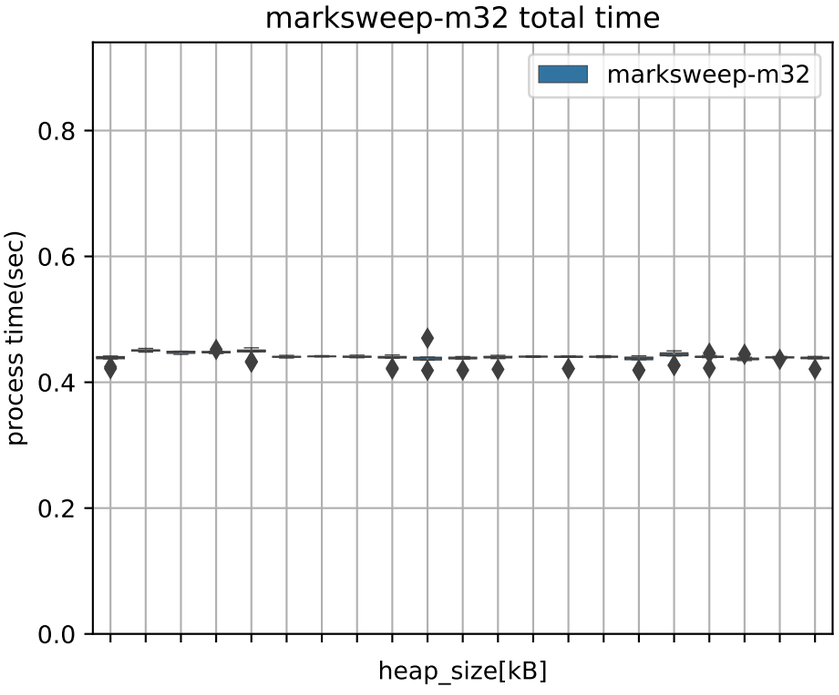

bm_app_tak_gctime refcnt-measure-gc-everytime gc time
1e−7
process time(sec)
0.0
0.6
1.2
1.8
2.4
3.0
3.6
4.2
4.8
5.4
129
heap_size[kB]

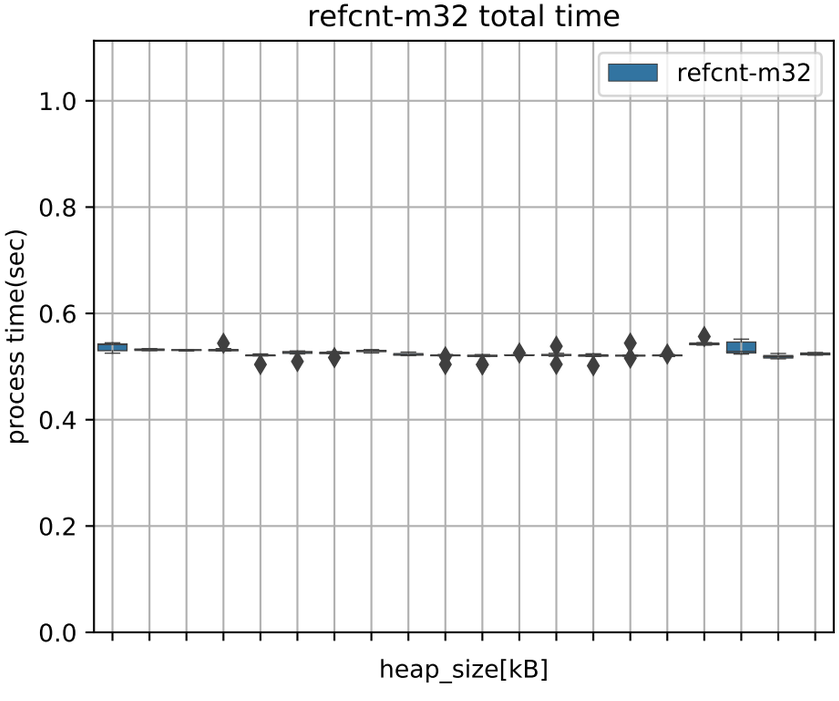

bm_app_tak_gctimerefcount gc time/func call
1e−7
process time(sec)
0.0
0.6
1.2
1.8
2.4
3.0
3.6
4.2
4.8
5.4
0
1
2
3
4
recursive dec_ref_counter times

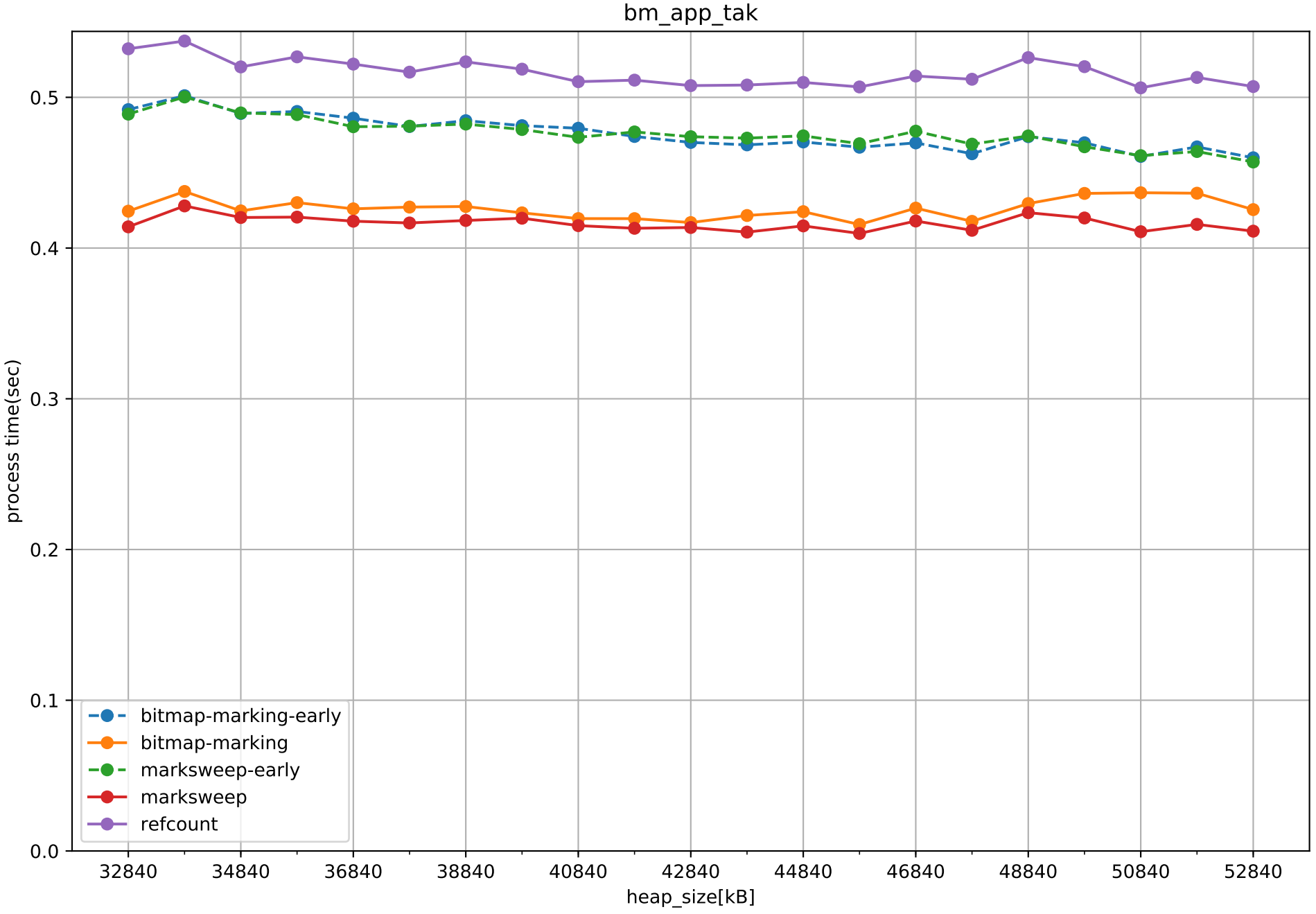
bm_app_tak_gctimerefcount gc time/free
1e−7
process time(sec)
0.0
0.6
1.2
1.8
2.4
3.0
3.6
4.2
4.8
5.4
0
1
2
3
recursive free times

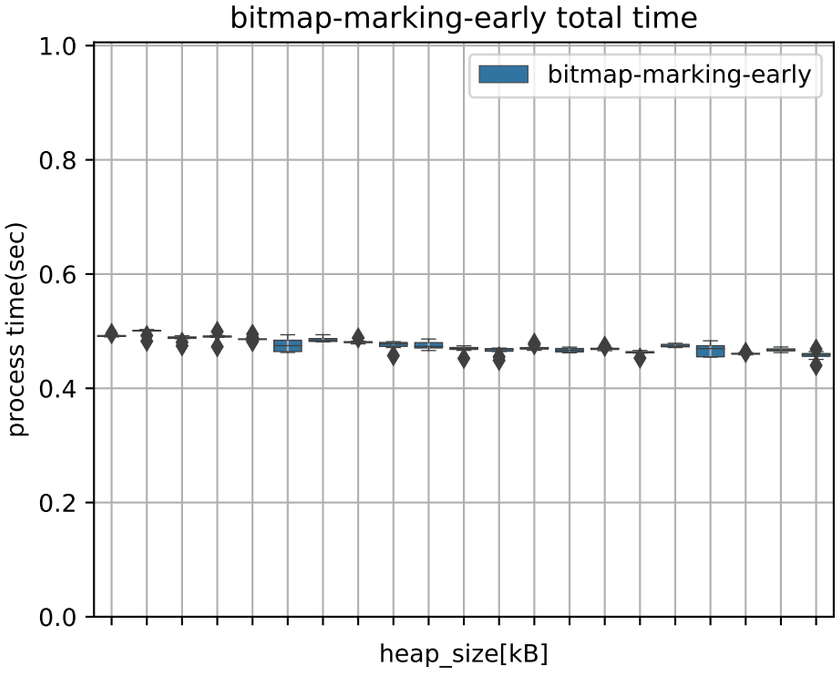

bm_app_tak_m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
21684
23684
25684
27684
29684
31684
33684
35684
37684
39684
41684
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

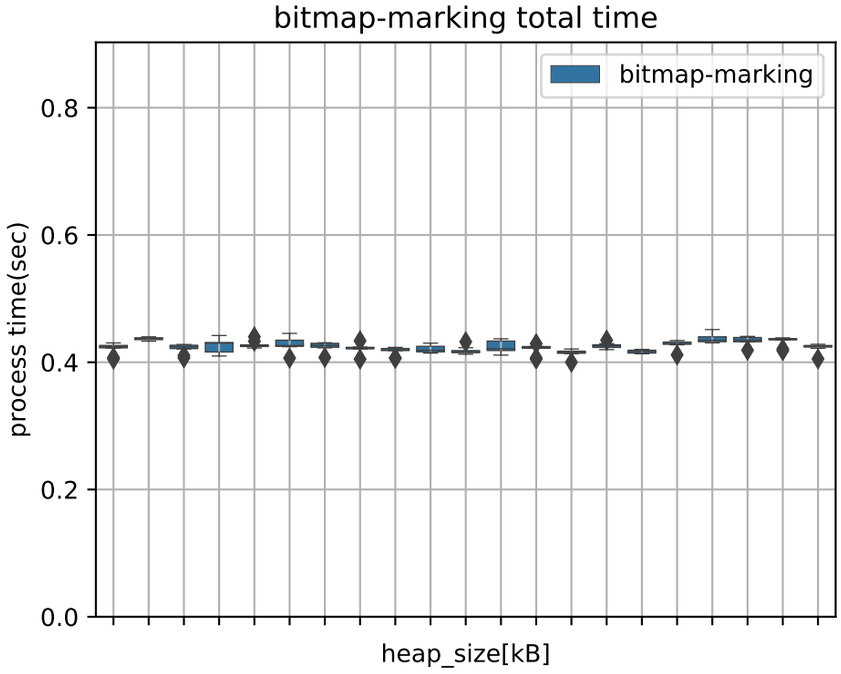

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
heap_size[kB]

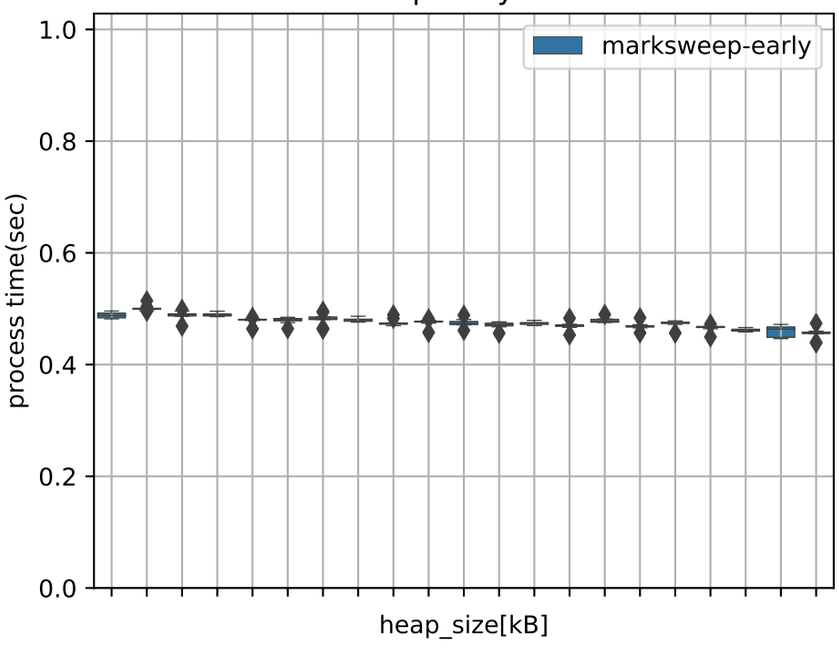

marksweep-m32 total time
marksweep-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
heap_size[kB]

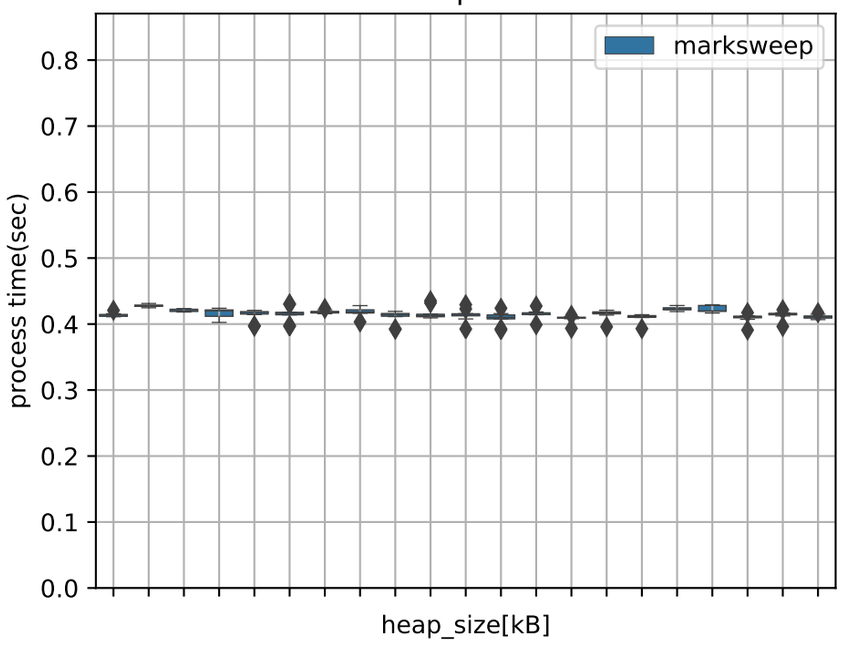

refcnt-m32 total time
refcnt-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
1.0
heap_size[kB]

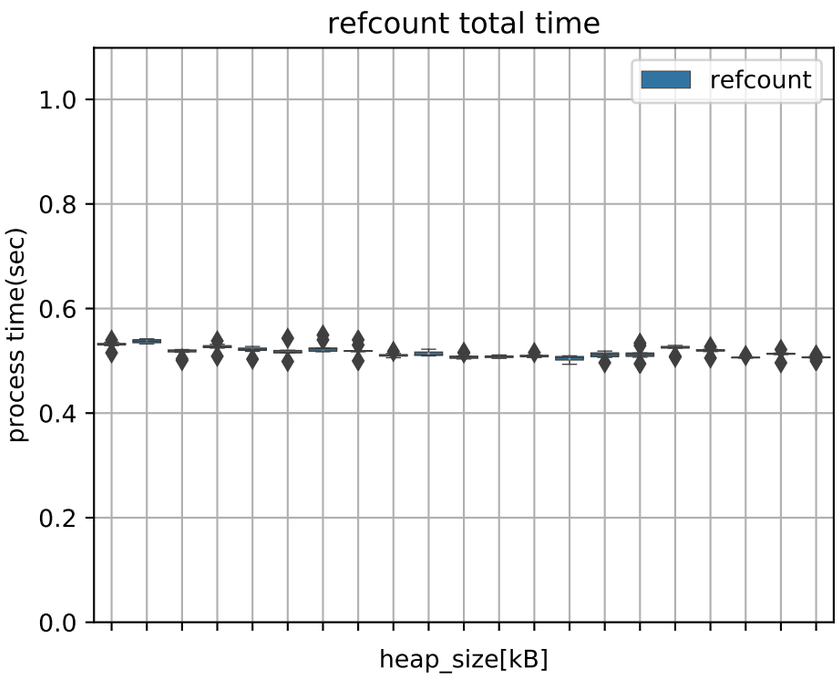

bm_app_tak
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
32840
34840
36840
38840
40840
42840
44840
46840
48840
50840
52840
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

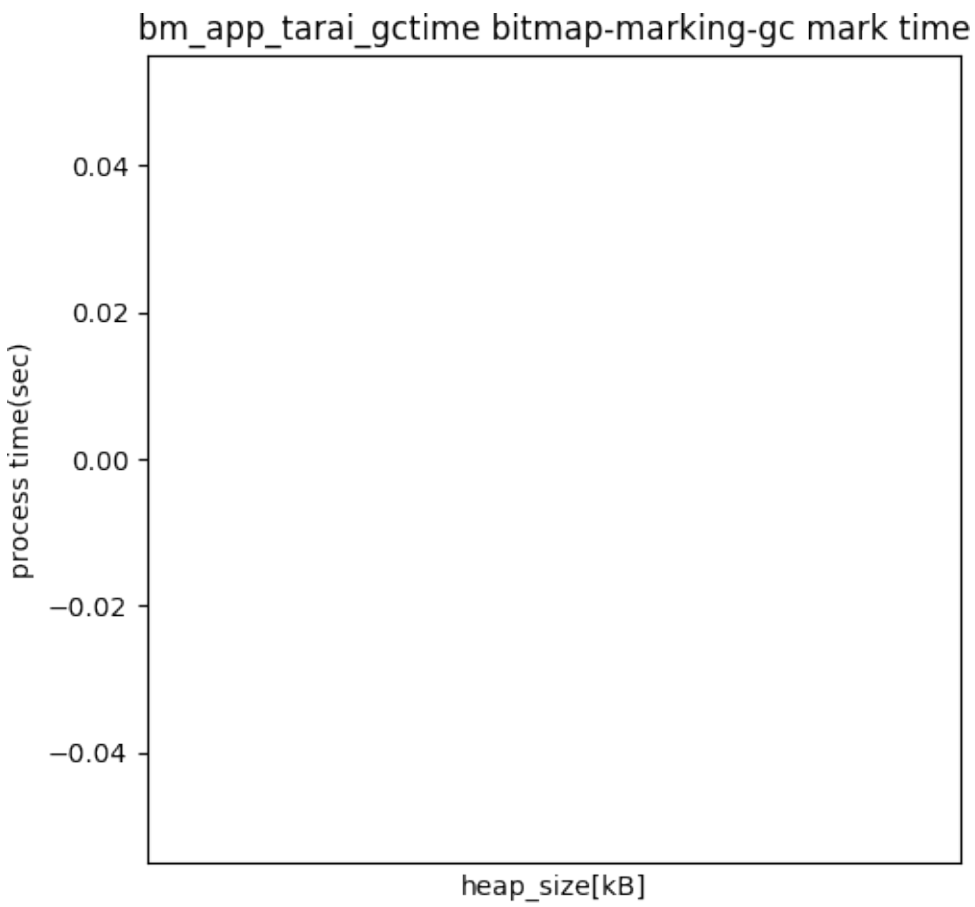

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

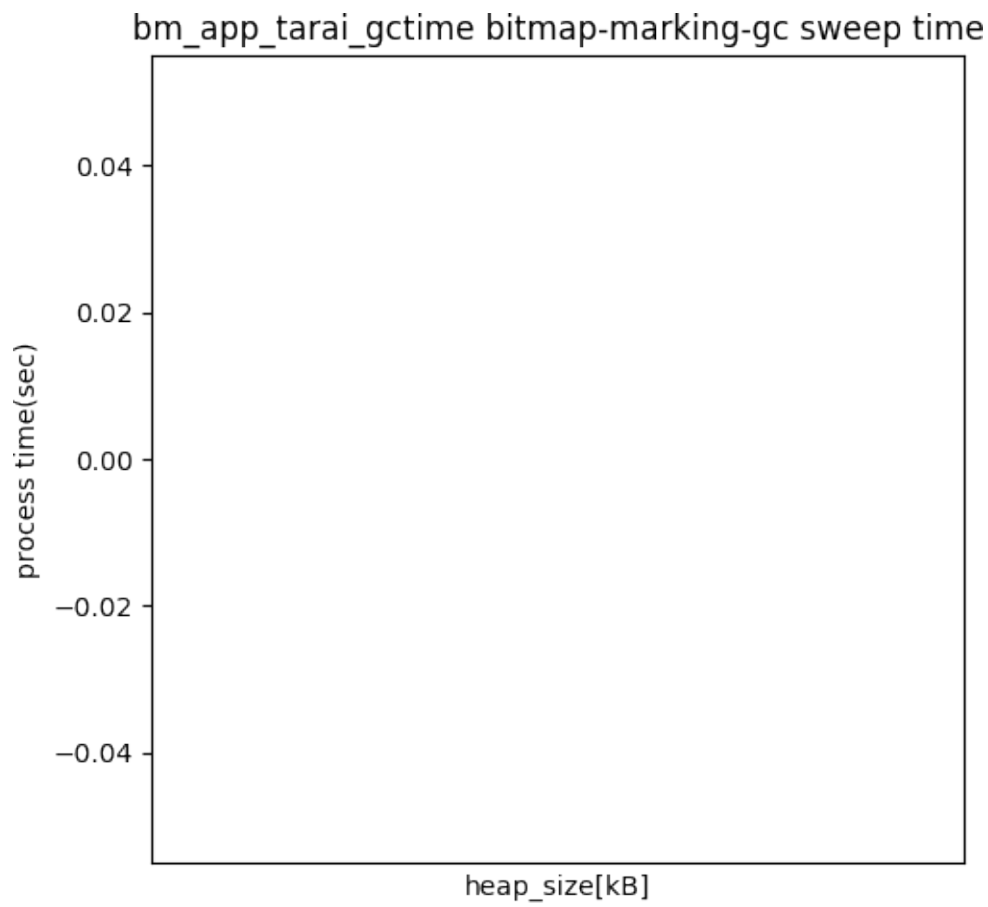

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]

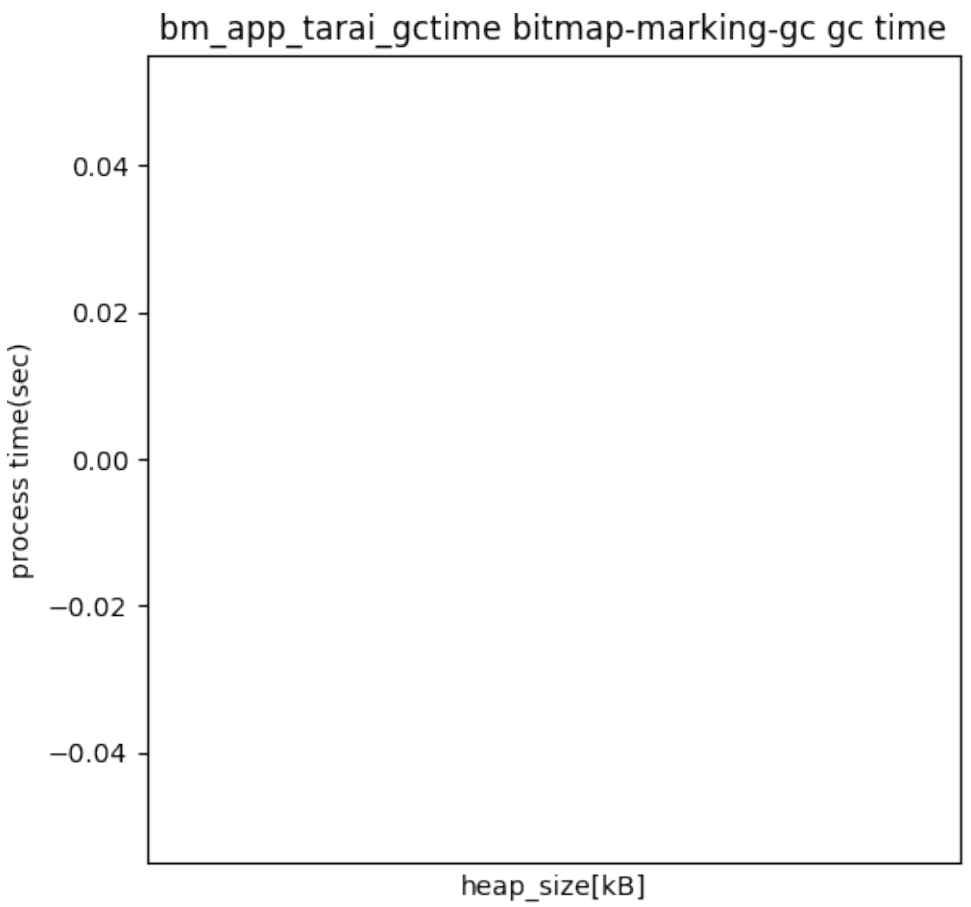

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

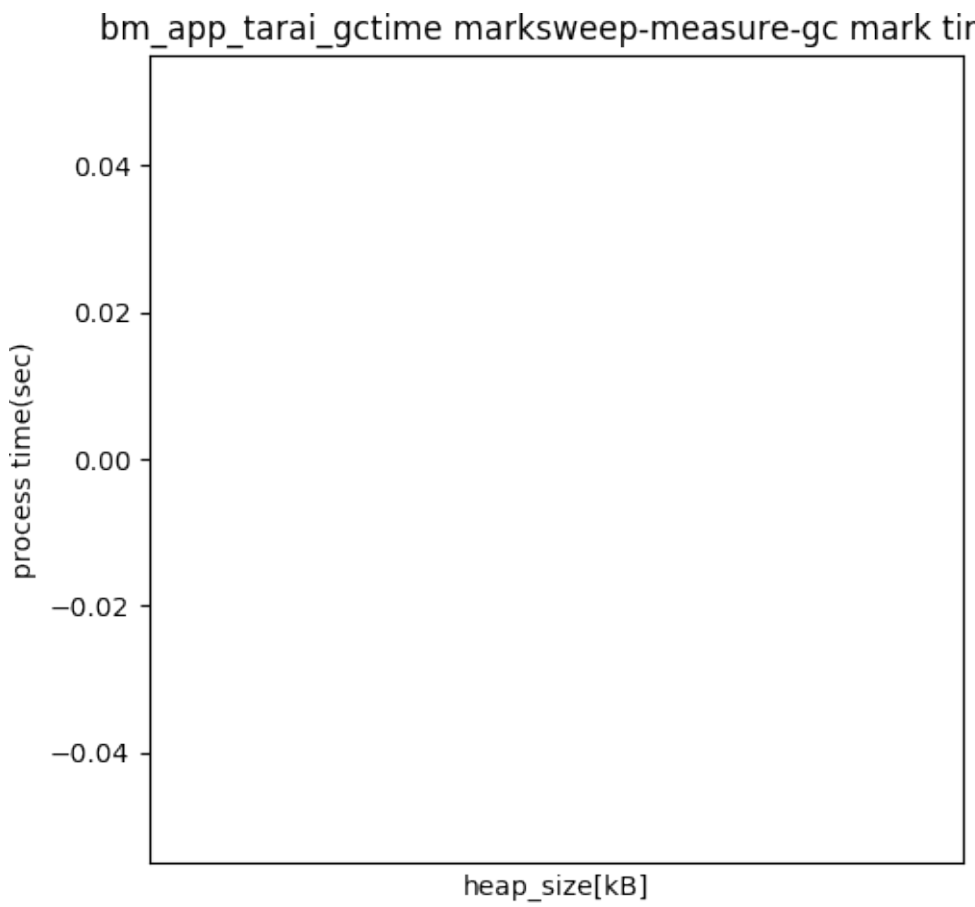

marksweep total time
marksweep
process time(sec)
heap_size[kB]

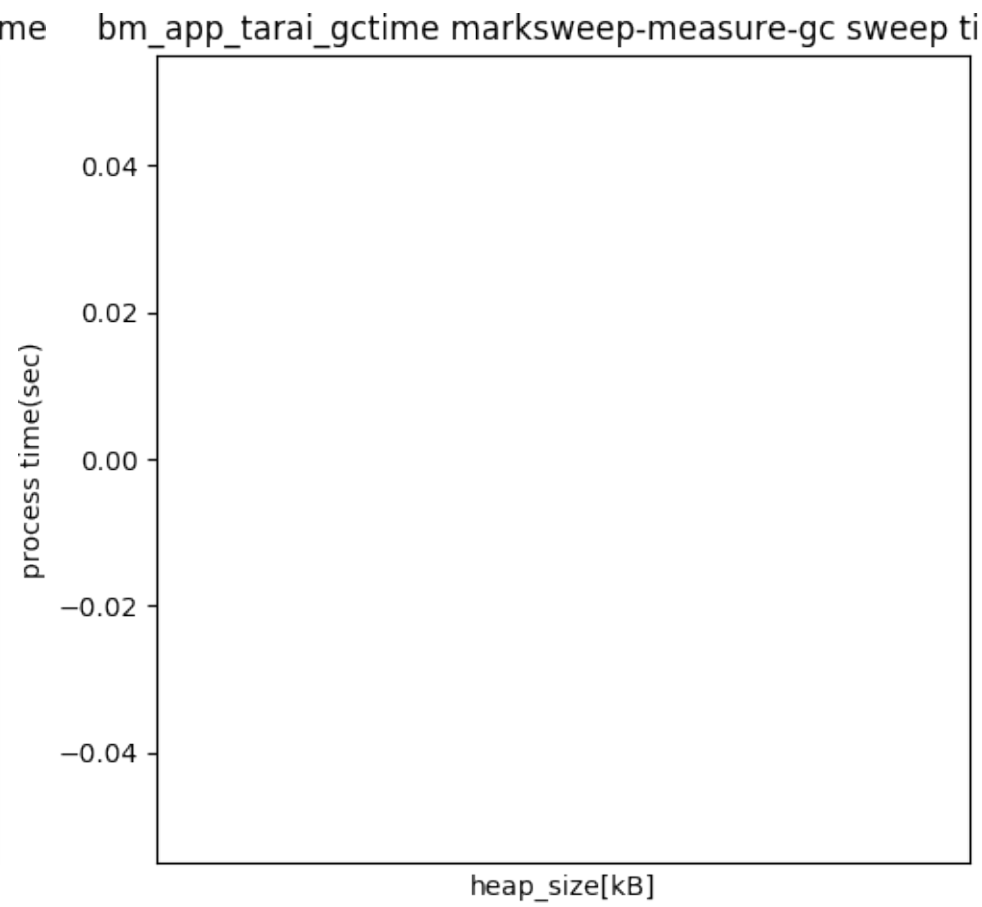

refcount total time
refcount
process time(sec)
heap_size[kB]

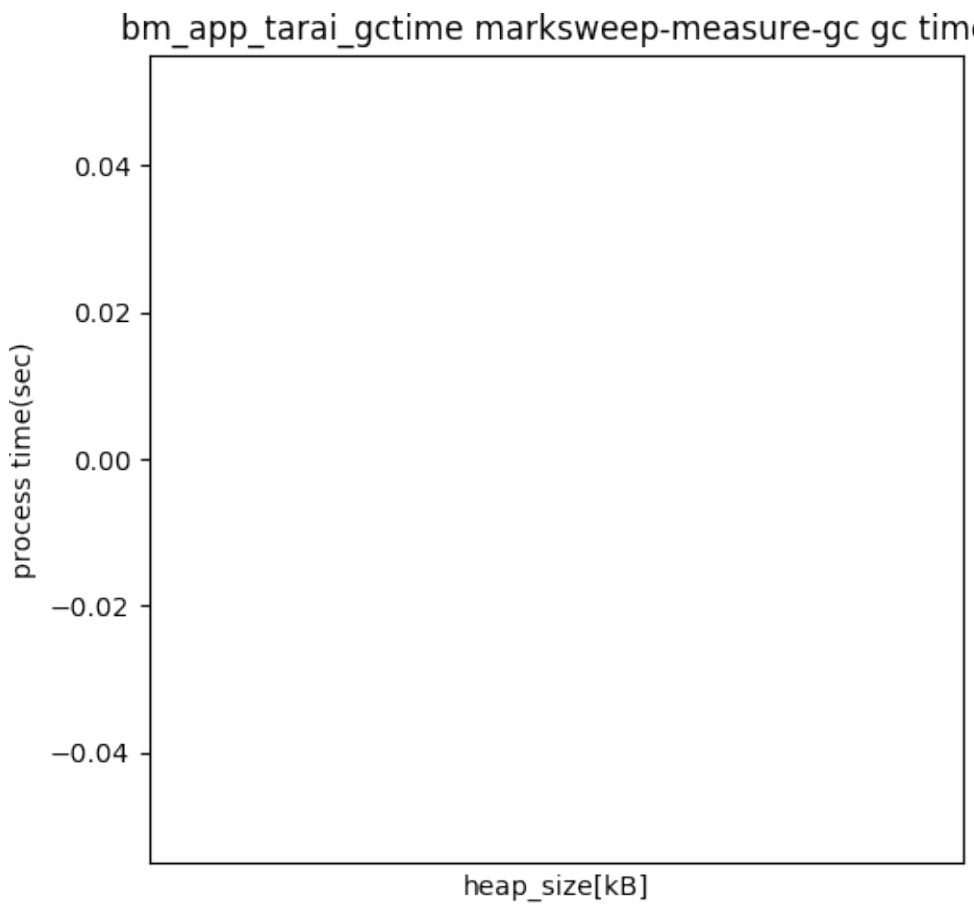

bm_app_tarai_gctime bitmap-marking-gc mark time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

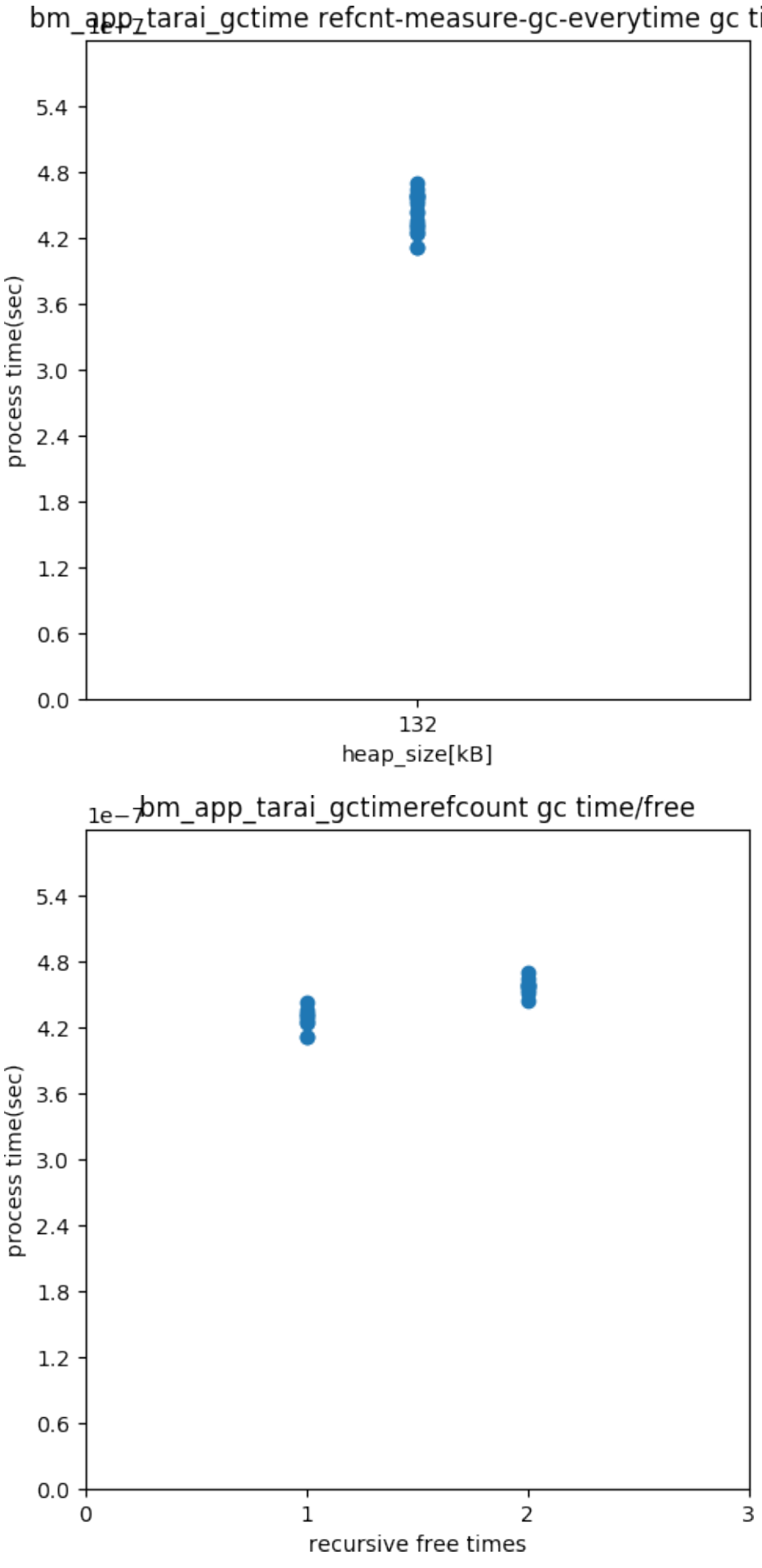

bm_app_tarai_gctime bitmap-marking-gc sweep time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

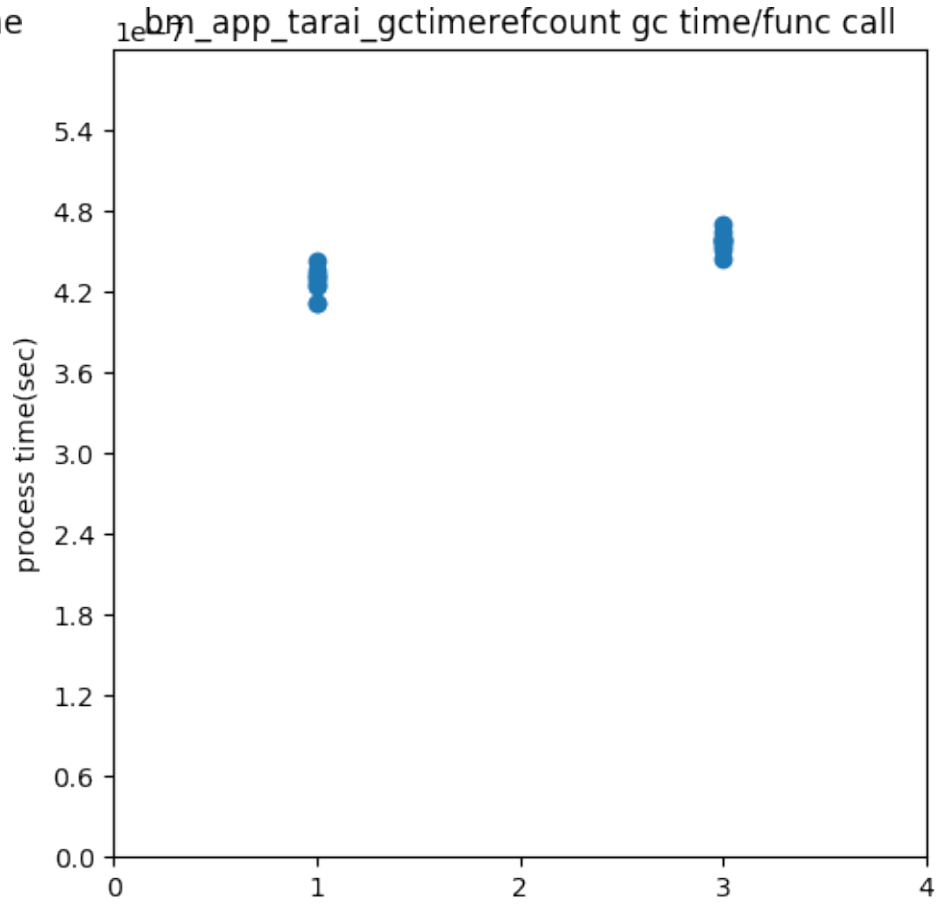

bm_app_tarai_gctime bitmap-marking-gc gc time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]


bm_app_tarai_gctime marksweep-measure-gc mark time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

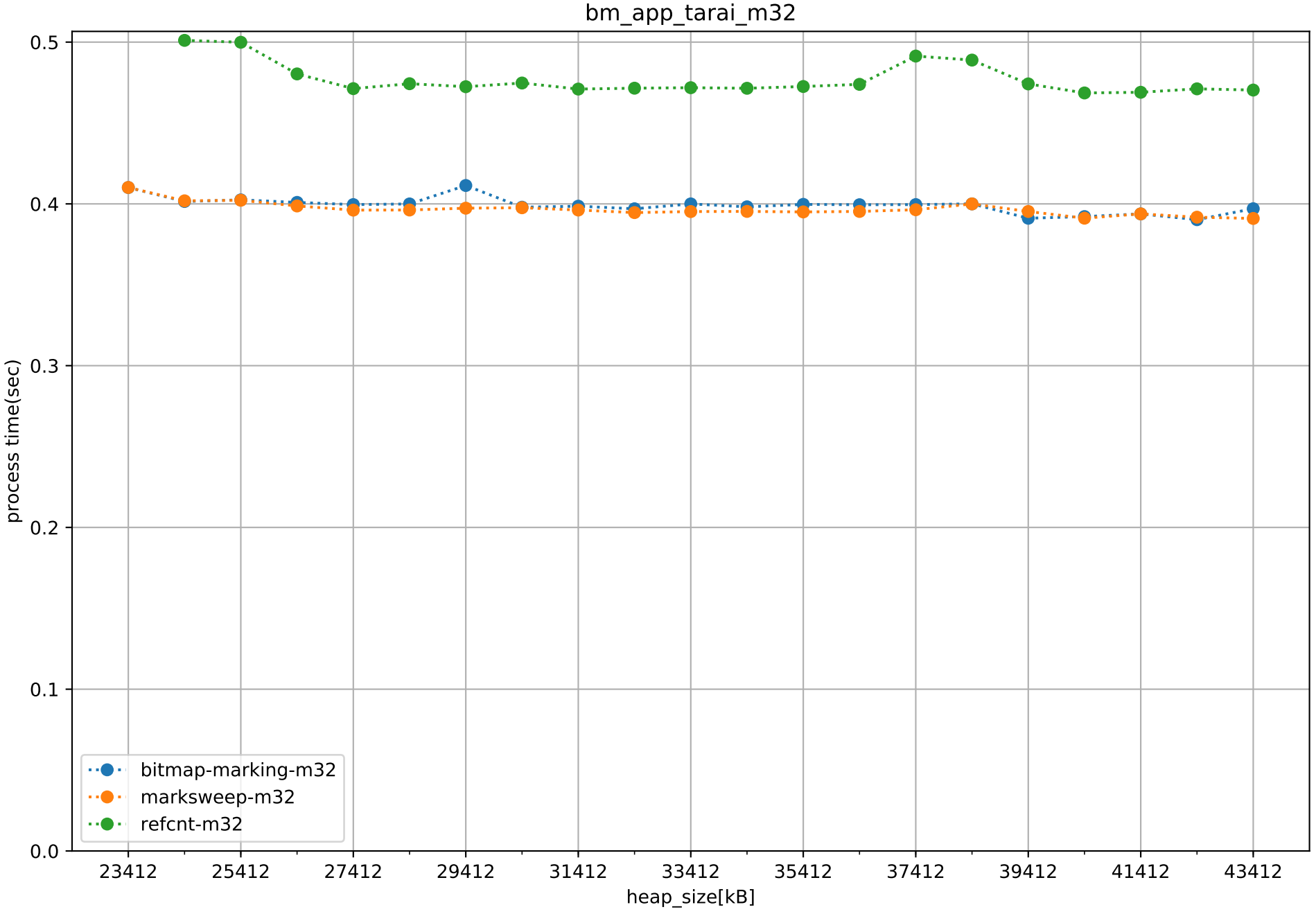

bm_app_tarai_gctime marksweep-measure-gc sweep time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

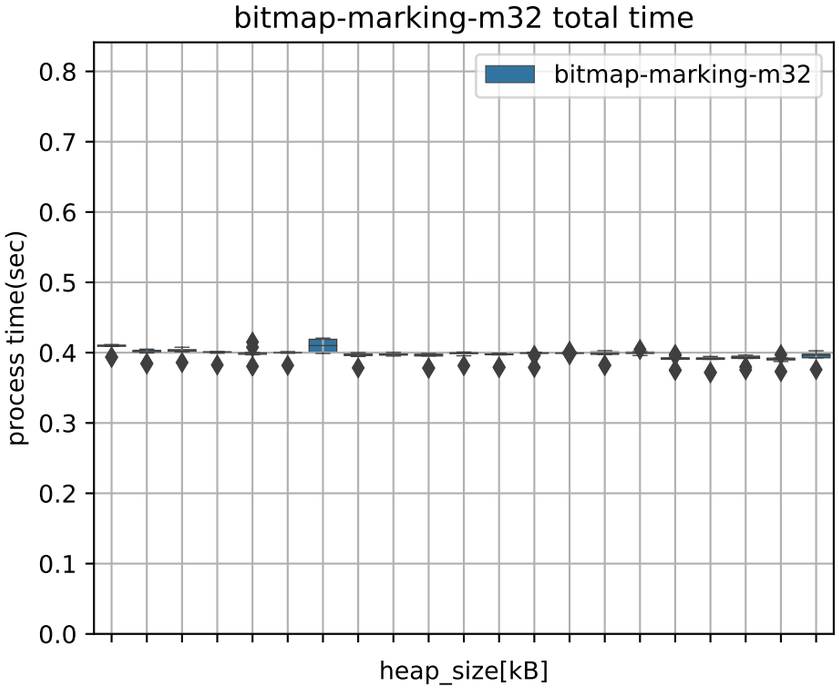

bm_app_tarai_gctime marksweep-measure-gc gc time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

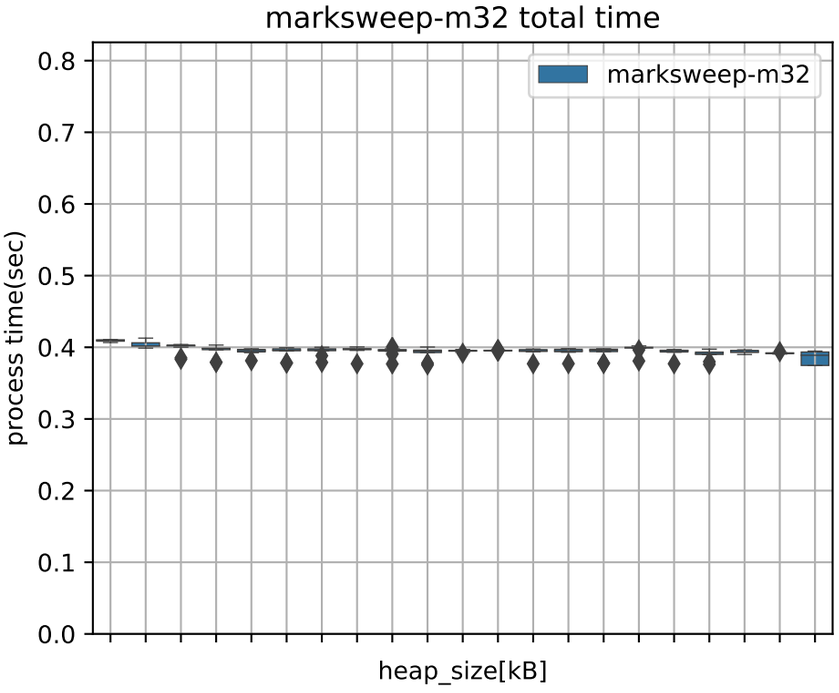

bm_app_tarai_gctime refcnt-measure-gc-everytime gc time
1e+2
process time(sec)
5.4
4.8
4.2
3.6
3.0
2.4
1.8
1.2
0.6
0.0
132
heap_size[kB]

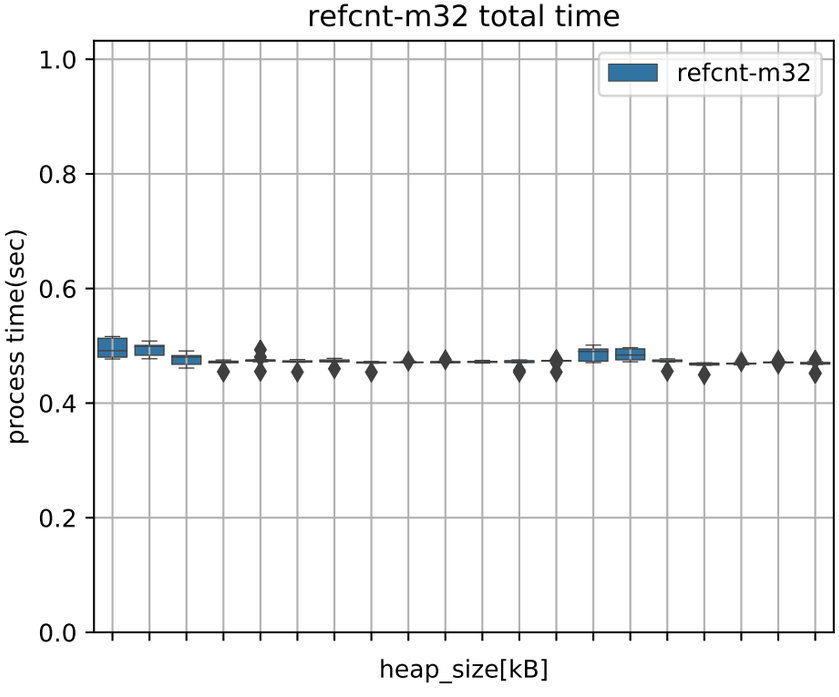

bm_app_tarai_gctimerefcount gc time/func call
1e−7
process time(sec)
5.4
4.8
4.2
3.6
3.0
2.4
1.8
1.2
0.6
0.0
0
1
2
3
4
recursive dec_ref_counter times

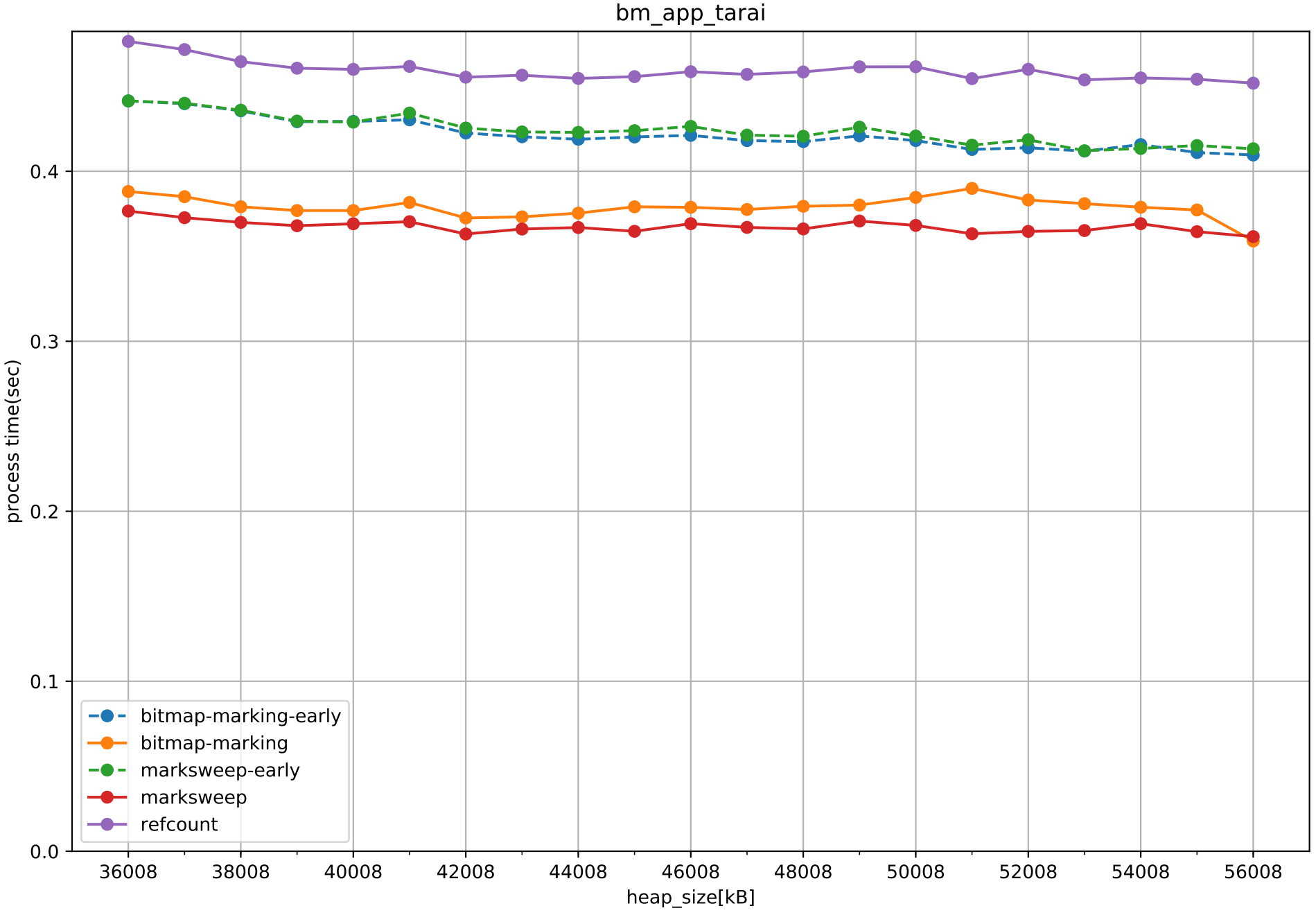
bm_app_tarai_gctimerefcount gc time/free
1e−7
process time(sec)
5.4
4.8
4.2
3.6
3.0
2.4
1.8
1.2
0.6
0.0
0
1
2
3
recursive free times

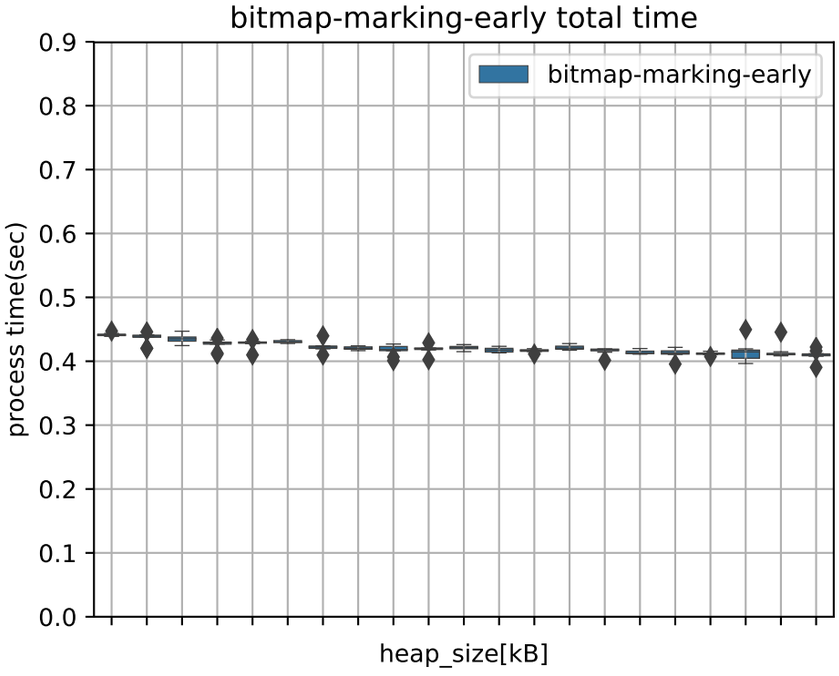

bm_app_tarai_m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
23412
25412
27412
29412
31412
33412
35412
37412
39412
41412
43412
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

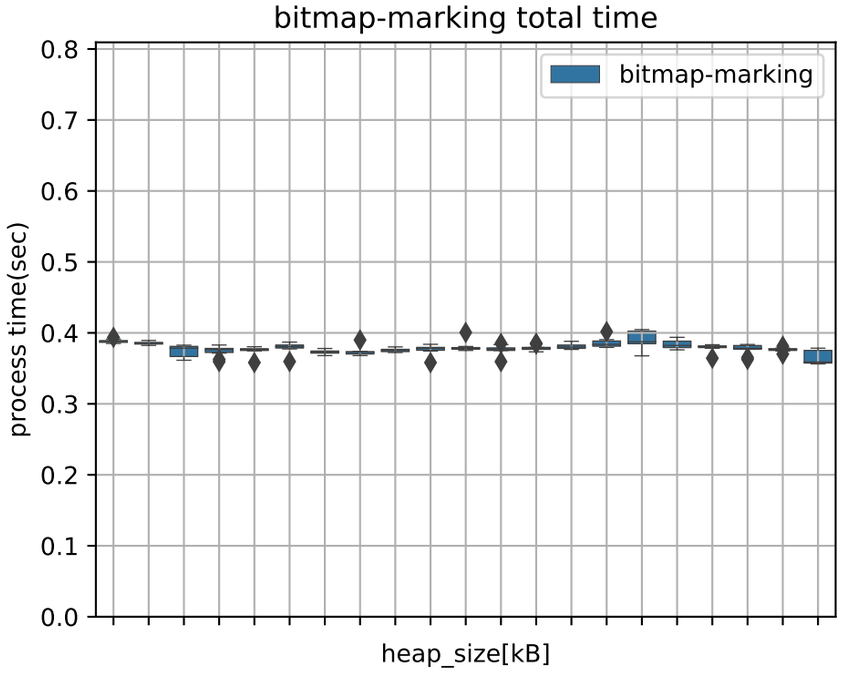

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8

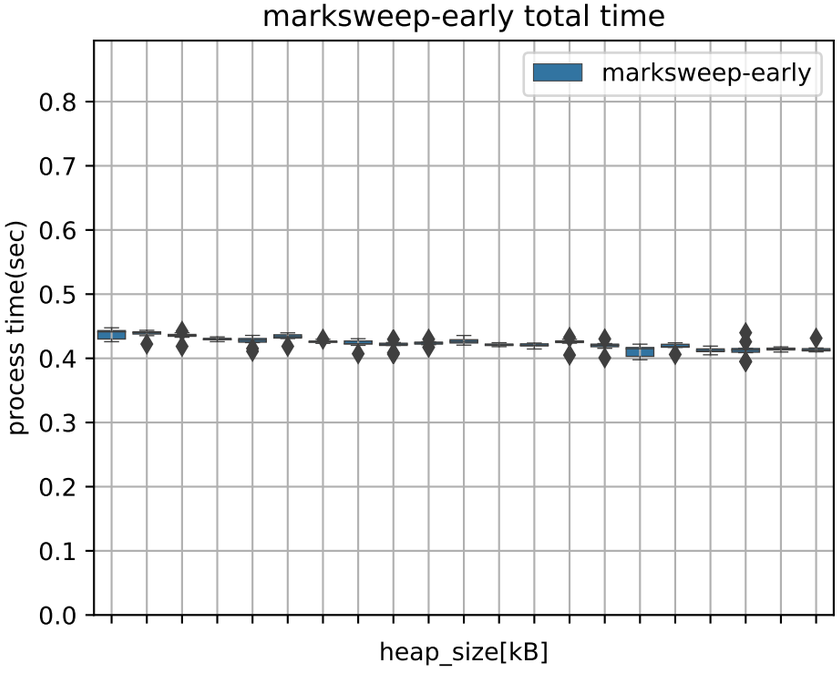

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8

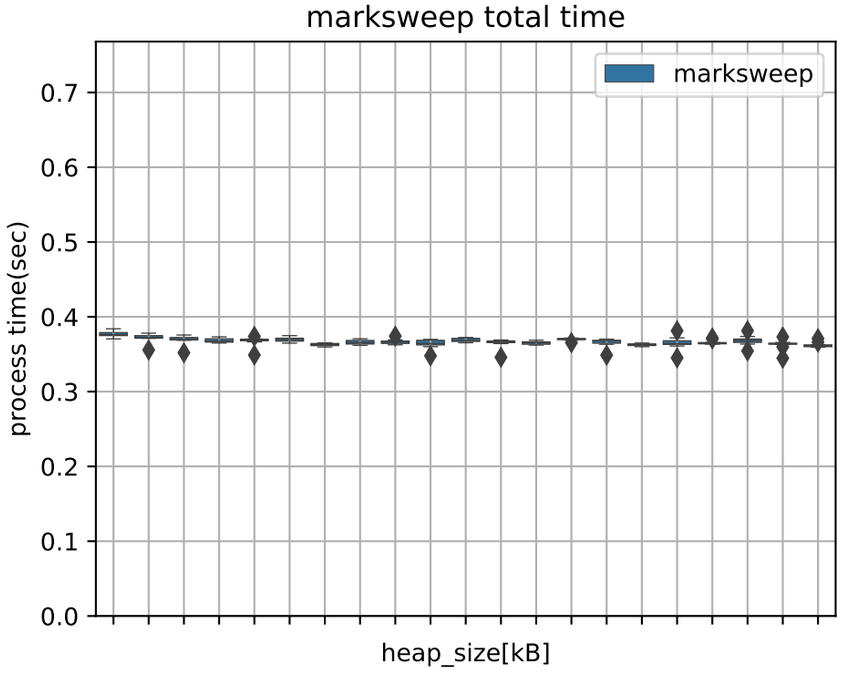

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0

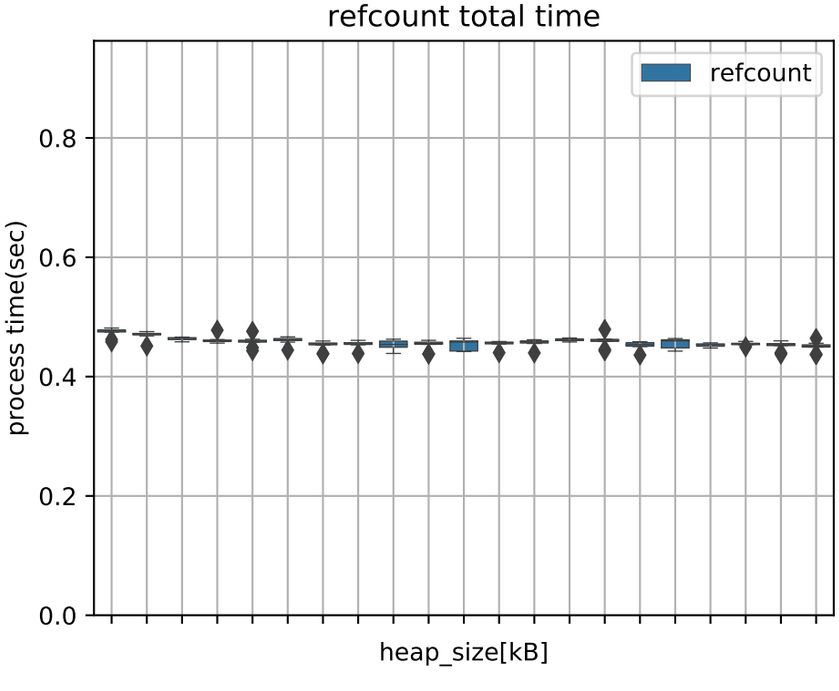

bm_app_tarai
process time(sec)
0.0
0.1
0.2
0.3
0.4
36008
38008
40008
42008
44008
46008
48008
50008
52008
54008
56008
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

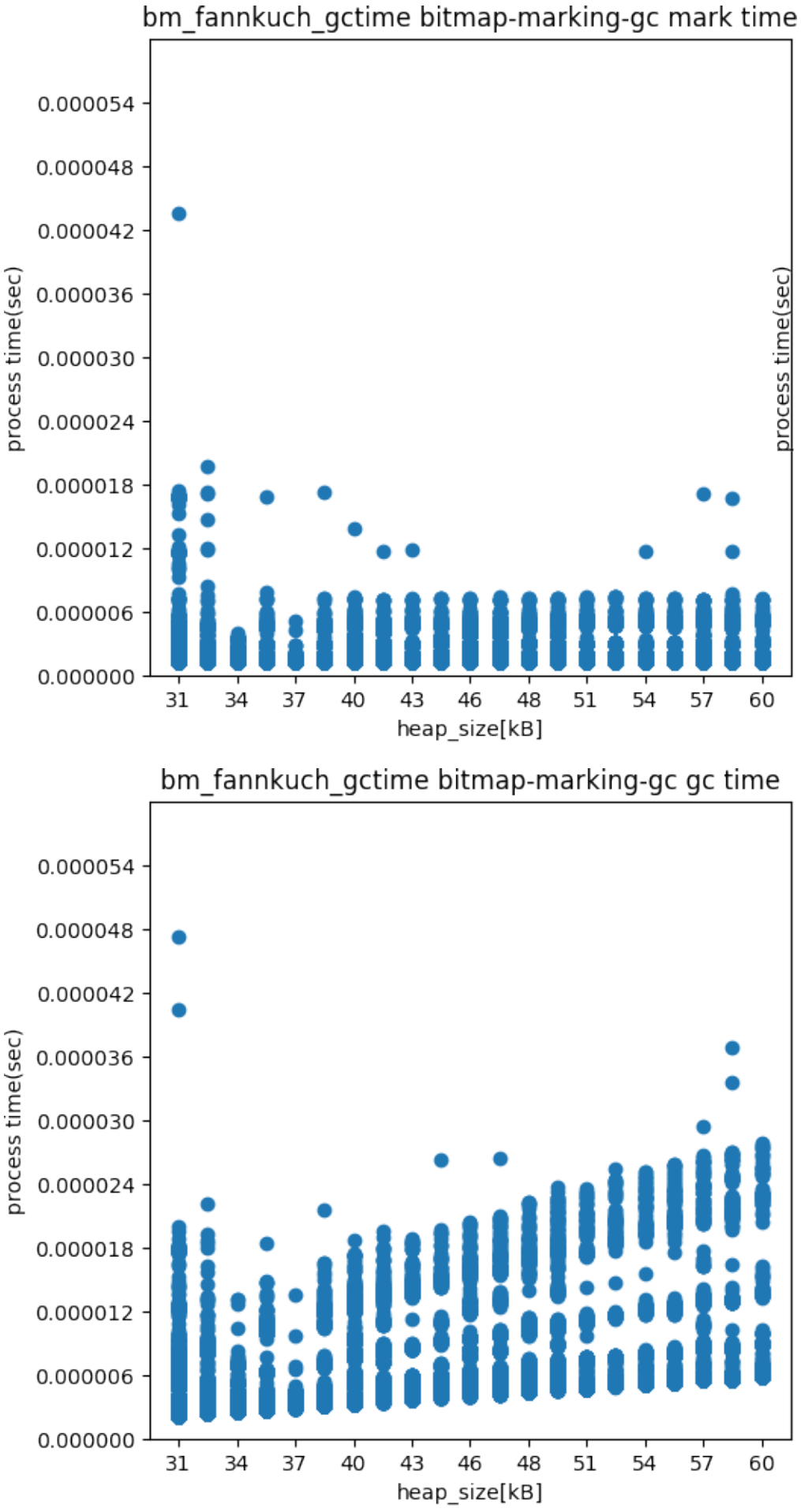

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

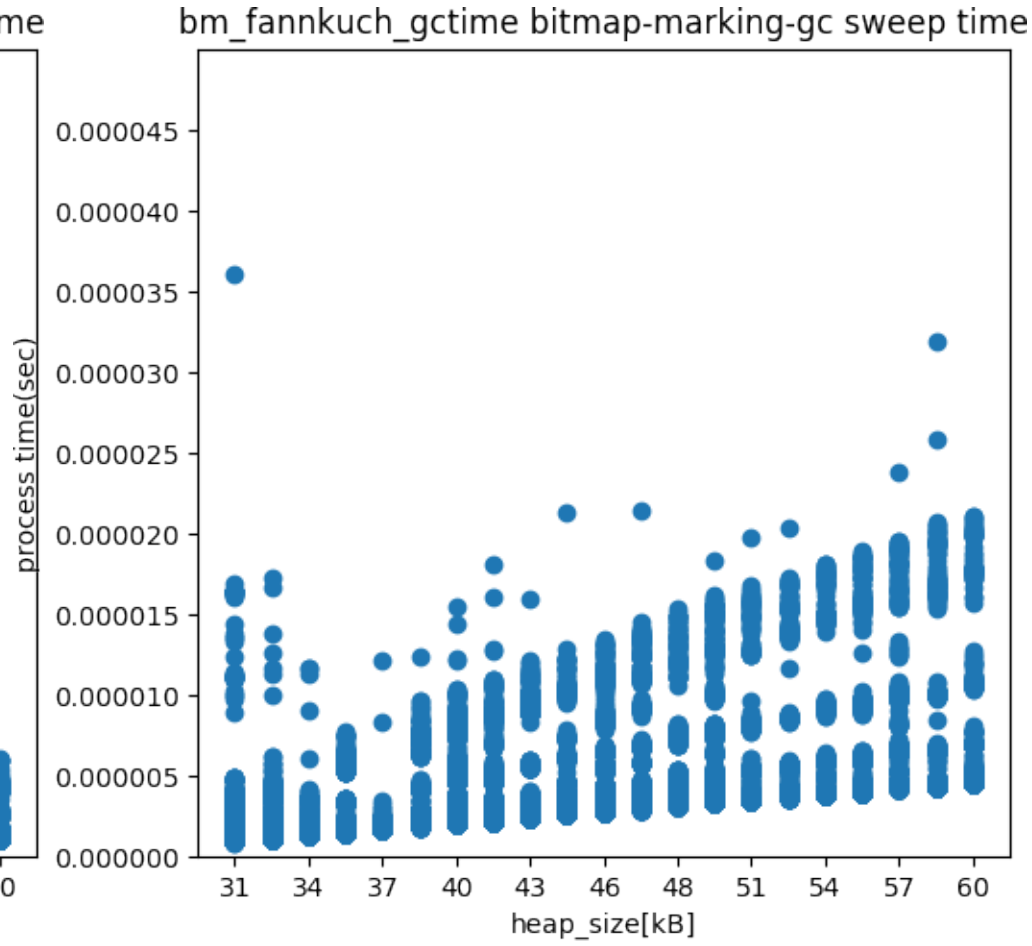

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

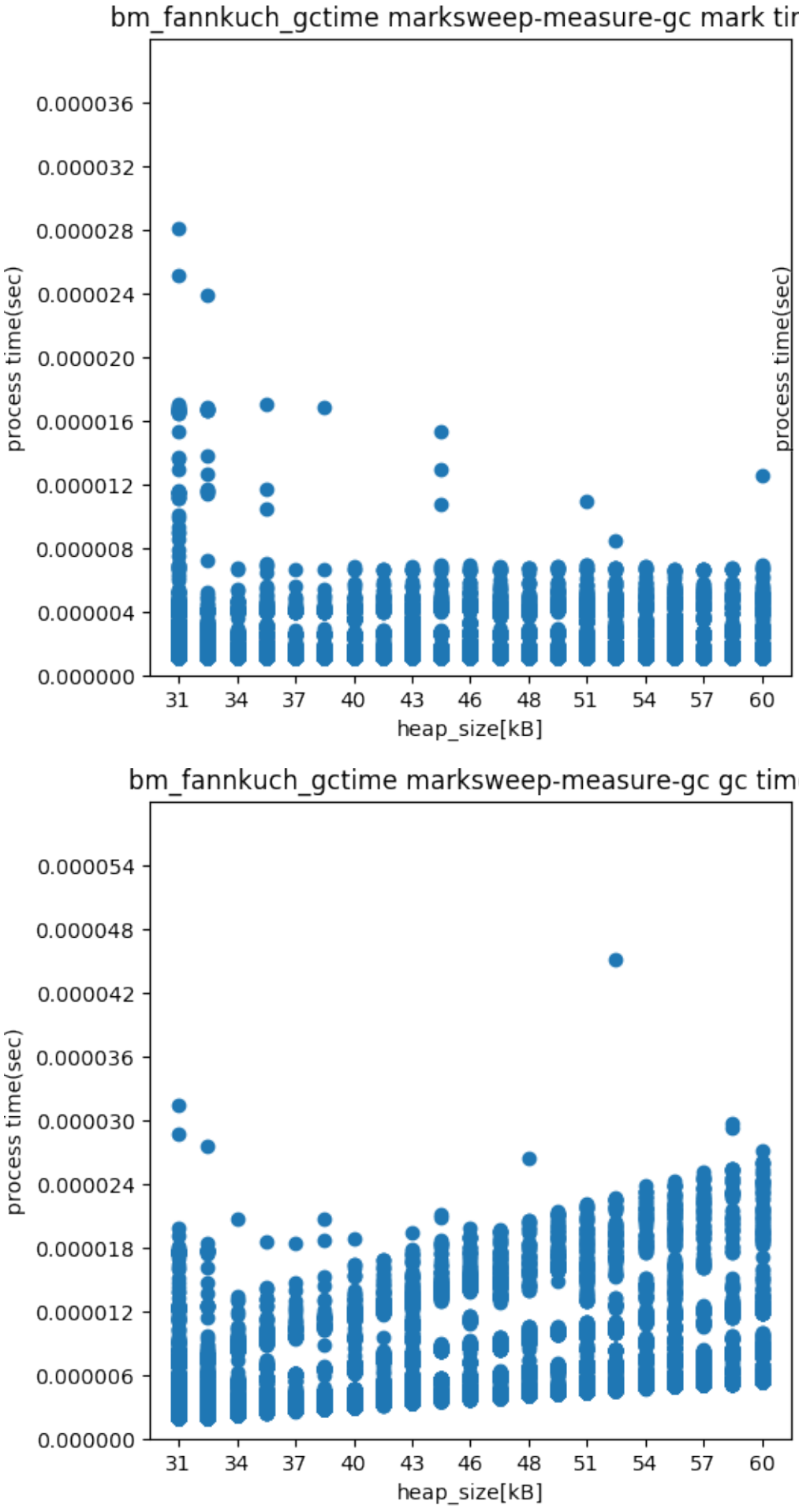

marksweep total time
marksweep
process time(sec)
heap_size[kB]

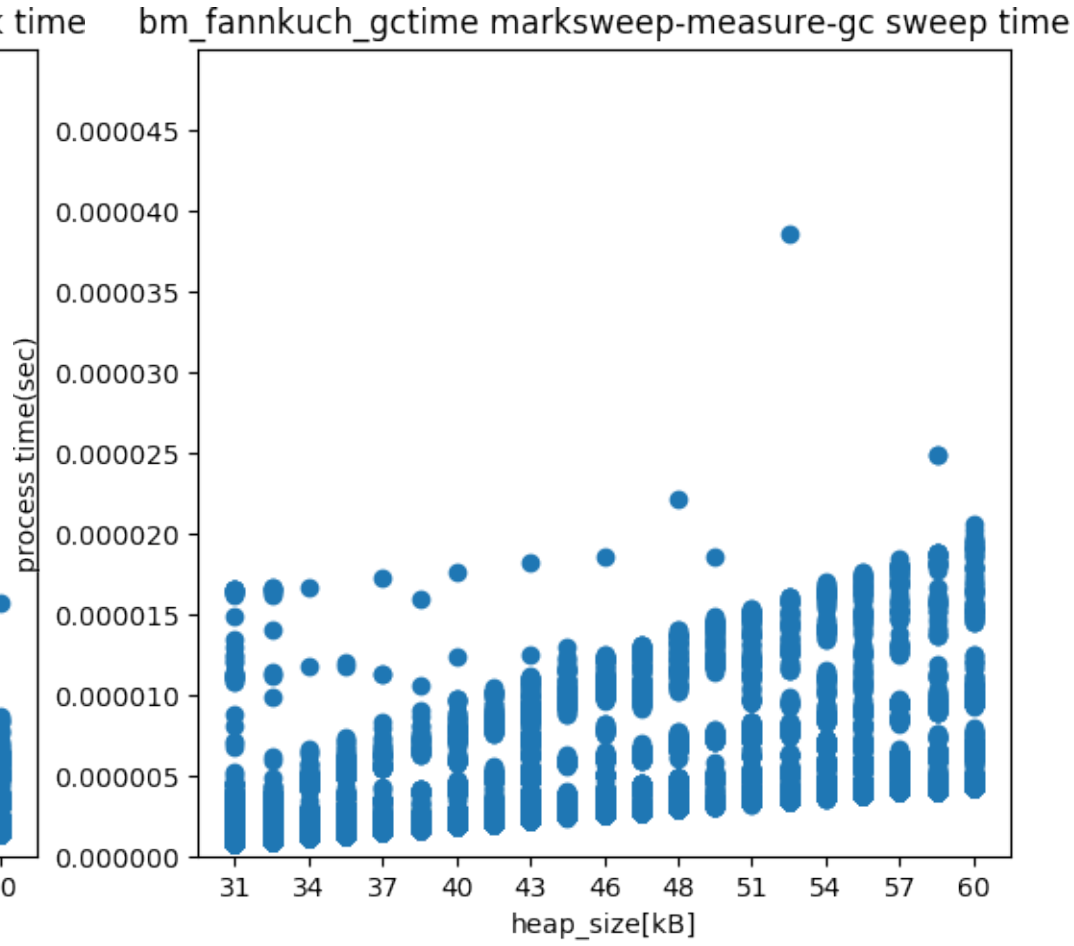

refcount total time
refcount
process time(sec)
heap_size[kB]


bm_fannkuch_gctime bitmap-marking-gc mark time
process time(sec)
0.000000
0.000006
0.000012
0.000018
0.000024
0.000030
0.000036
0.000042
0.000048
0.000054
31
34
37
40
43
46
48
51
54
57
60
heap_size[kB]

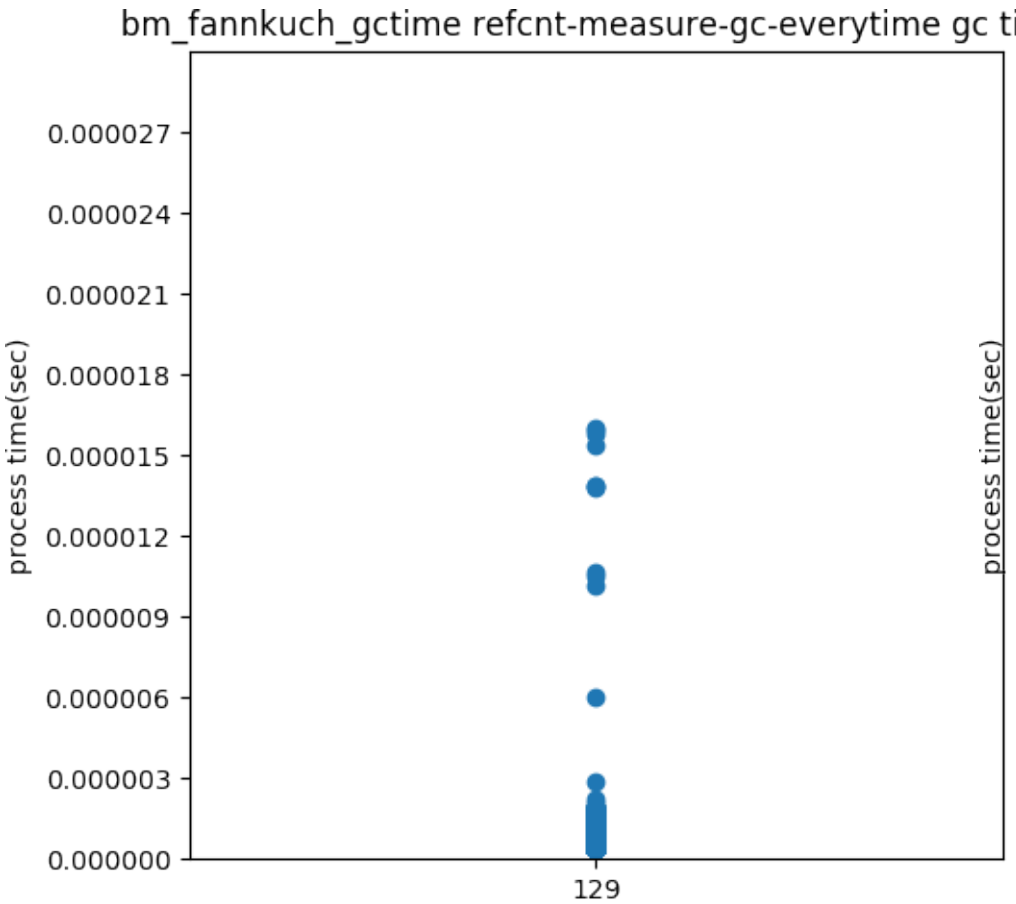

bm_fannkuch_gctime bitmap-marking-gc sweep time
process time(sec)
0.000000
0.000005
0.000010
0.000015
0.000020
0.000025
0.000030
0.000035
0.000040
0.000045
31
34
37
40
43
46
48
51
54
57
60
heap_size[kB]

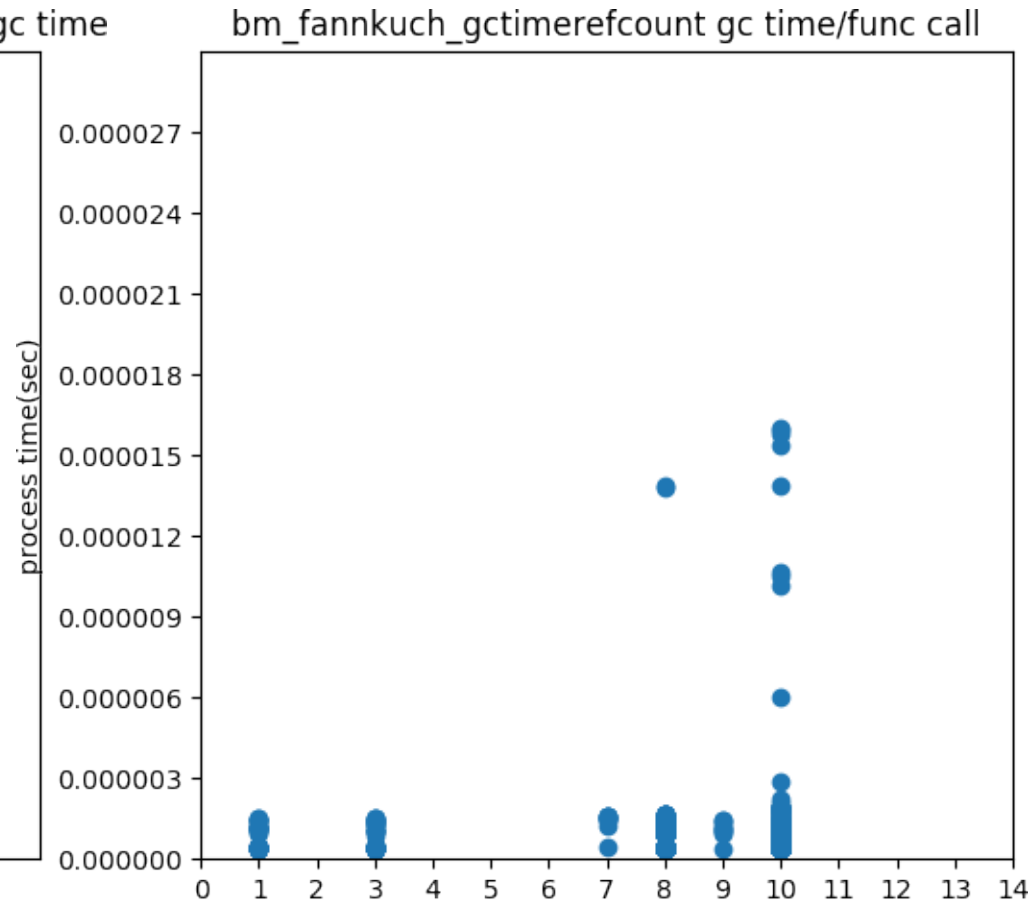
bm_fannkuch_gctime bitmap-marking-gc gc time
process time(sec)
0.000000
0.000006
0.000012
0.000018
0.000024
0.000030
0.000036
0.000042
0.000048
0.000054
31
34
37
40
43
46
48
51
54
57
60
heap_size[kB]

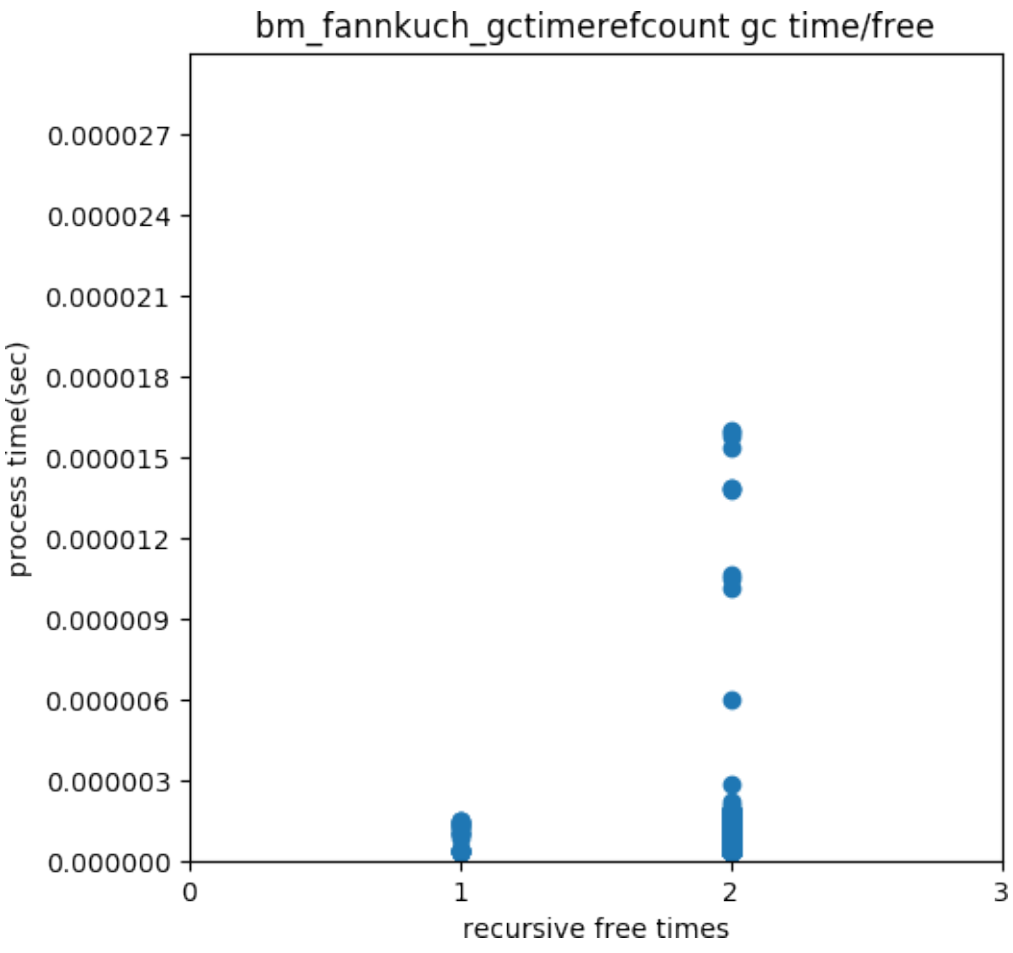

bm_fannkuch_gctime marksweep-measure-gc mark time
process time(sec)
0.000000
0.000004
0.000008
0.000012
0.000016
0.000020
0.000024
0.000028
0.000032
0.000036
31
34
37
40
43
46
48
51
54
57
60
heap_size[kB]

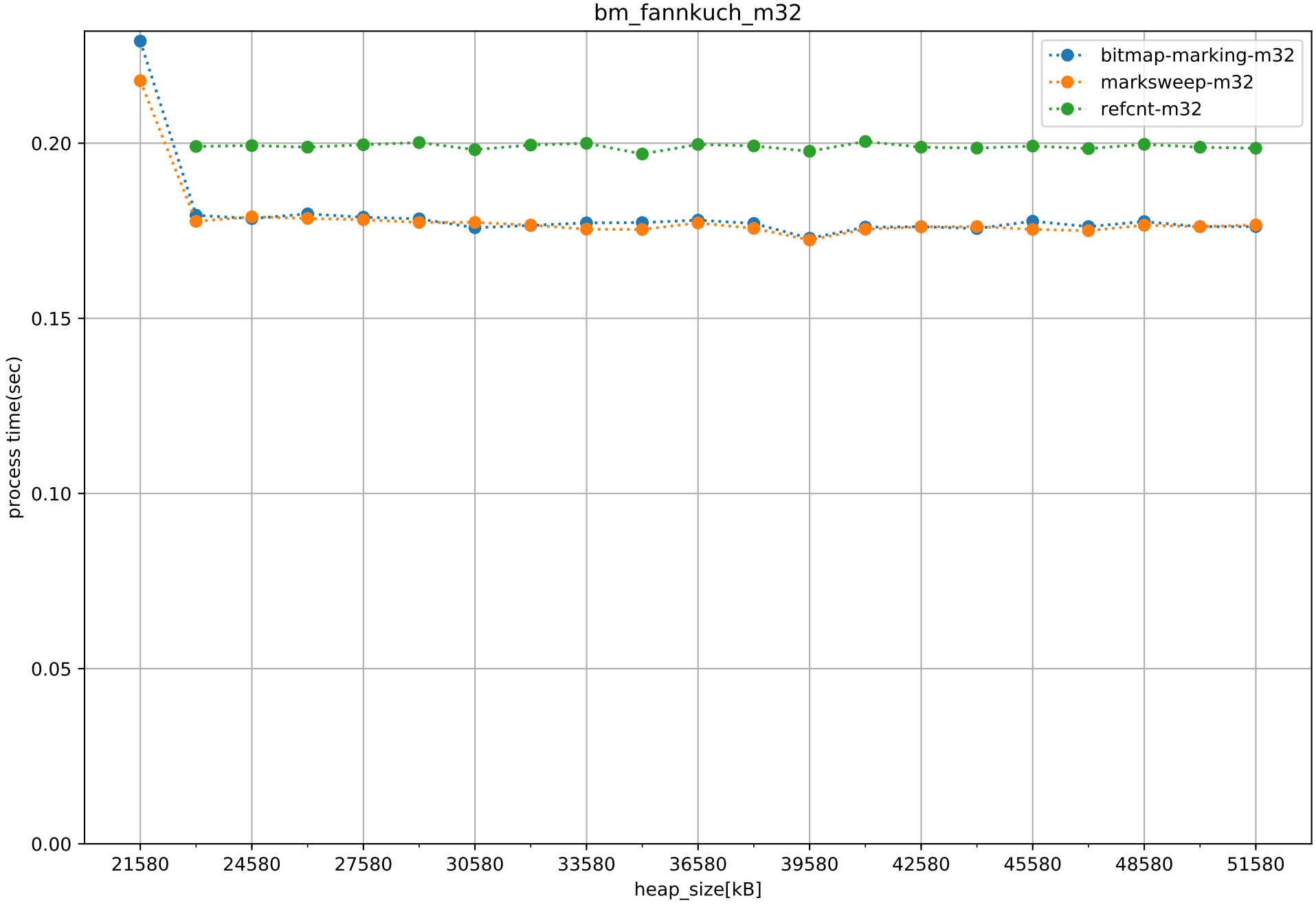

bm_fannkuch_gctime marksweep-measure-gc sweep time
process time(sec)
0.000000
0.000005
0.000010
0.000015
0.000020
0.000025
0.000030
0.000035
0.000040
0.000045
31
34
37
40
43
46
48
51
54
57
60
heap_size[kB]

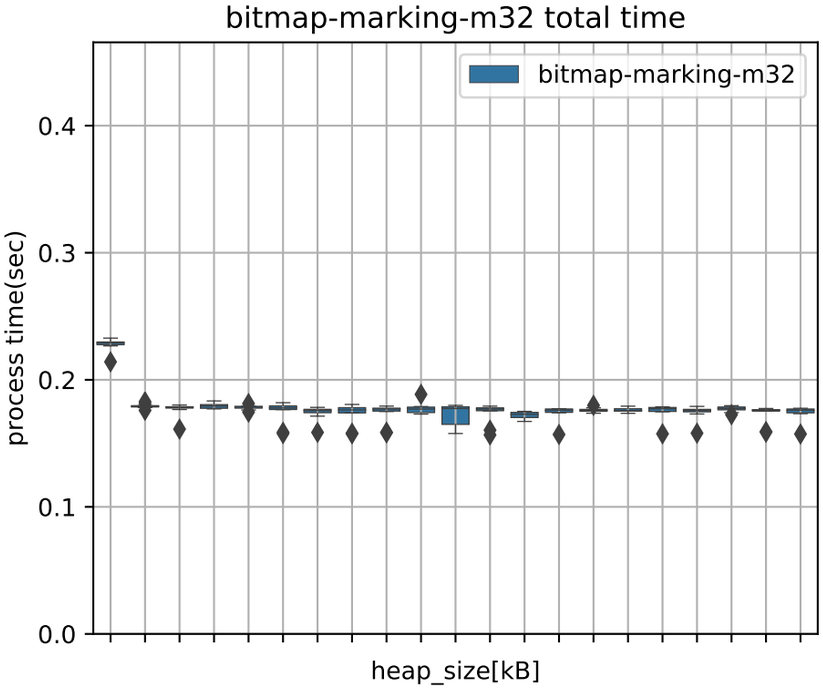
bm_fannkuch_gctime marksweep-measure-gc gc time
process time(sec)
0.000000
0.000006
0.000012
0.000018
0.000024
0.000030
0.000036
0.000042
0.000048
0.000054
31
34
37
40
43
46
48
51
54
57
60
heap_size[kB]

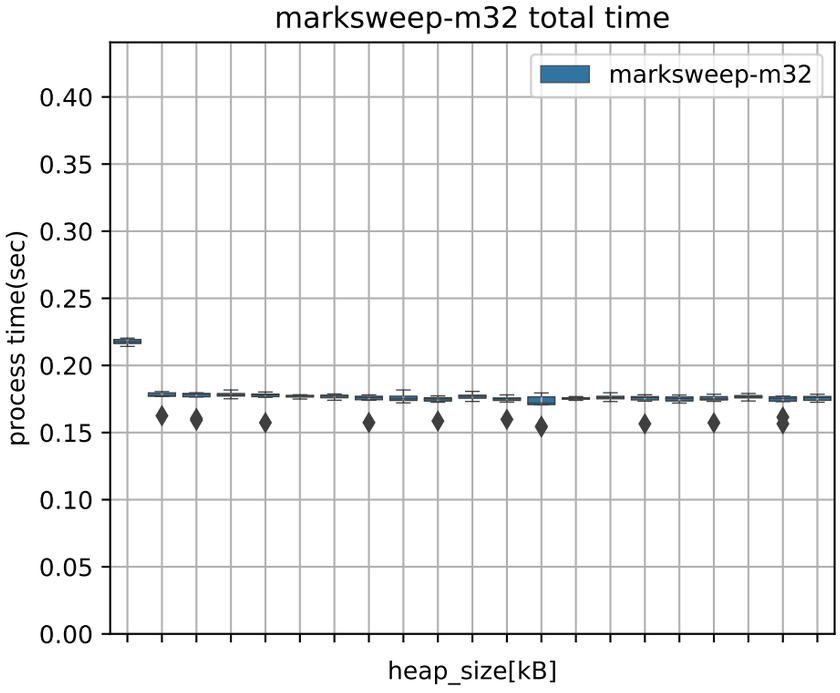

bm_fannkuch_gctime refcnt-measure-gc-everytime gc time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
129
heap_size[kB]

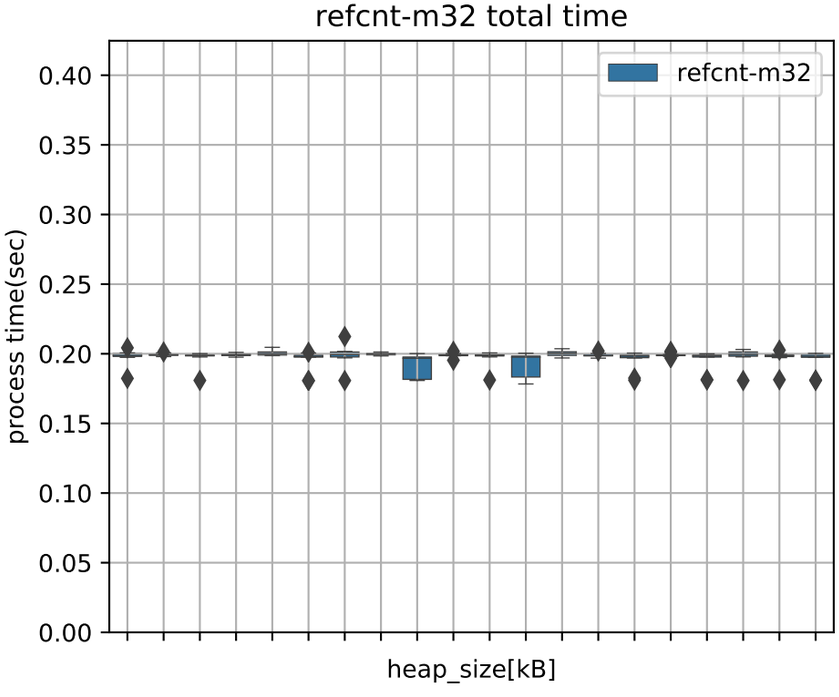

bm_fannkuch_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
recursive dec_ref_counter times

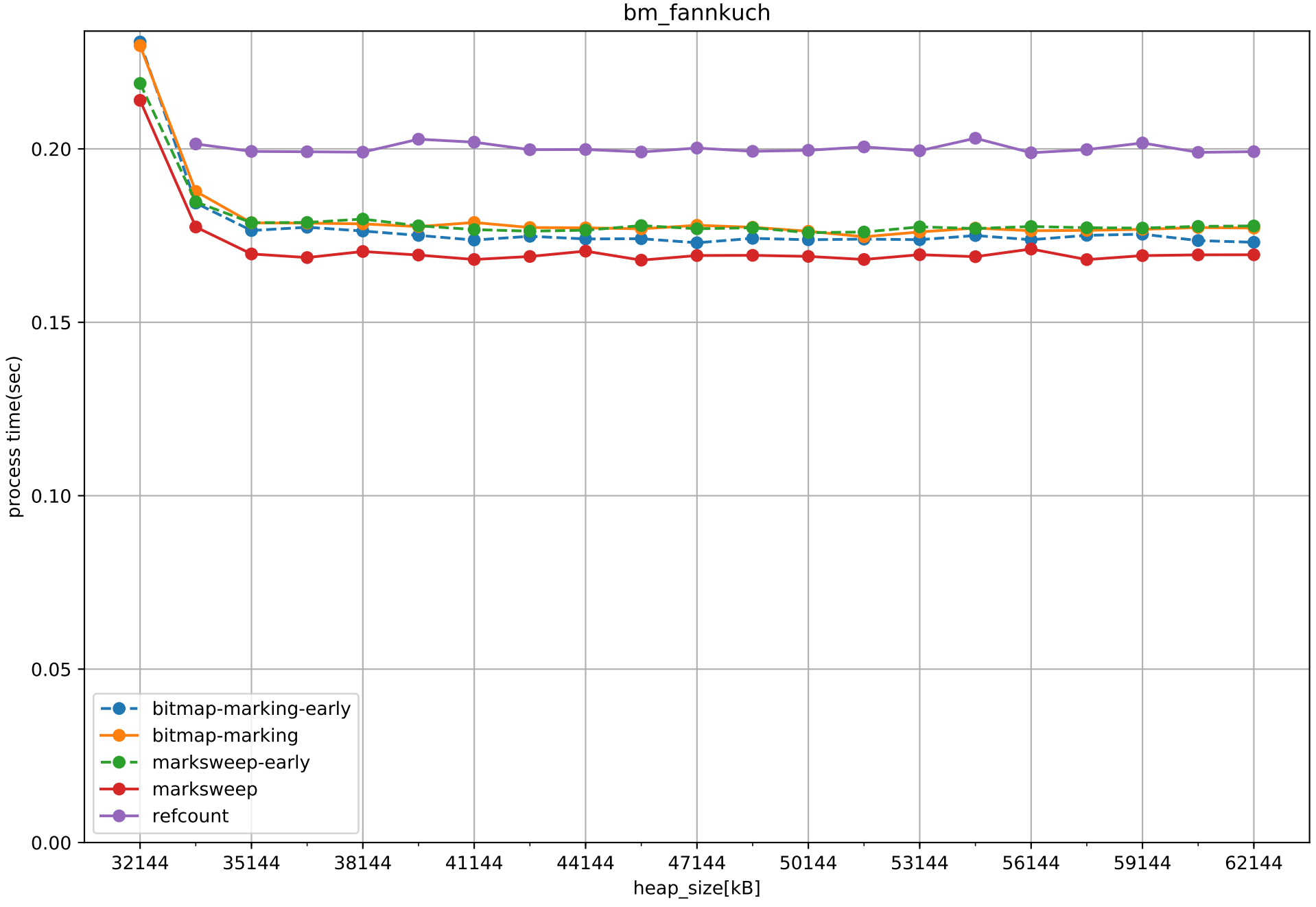

bm_fannkuch_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0 1 2 3
recursive free times

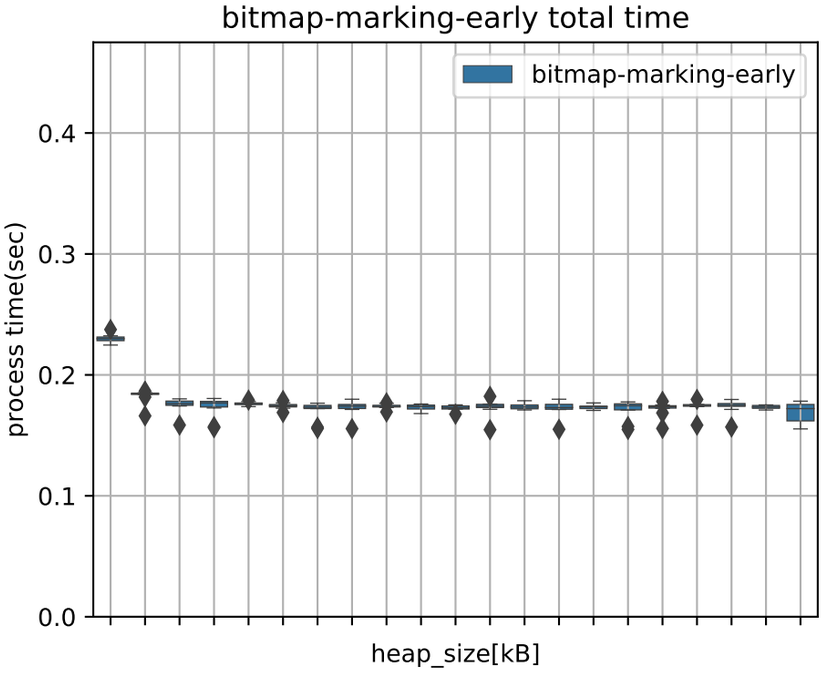

bm_fannkuch_m32
bitmap-marking-m32
marksweep-m32
refcnt-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
21580
24580
27580
30580
33580
36580
39580
42580
45580
48580
51580
heap_size[kB]

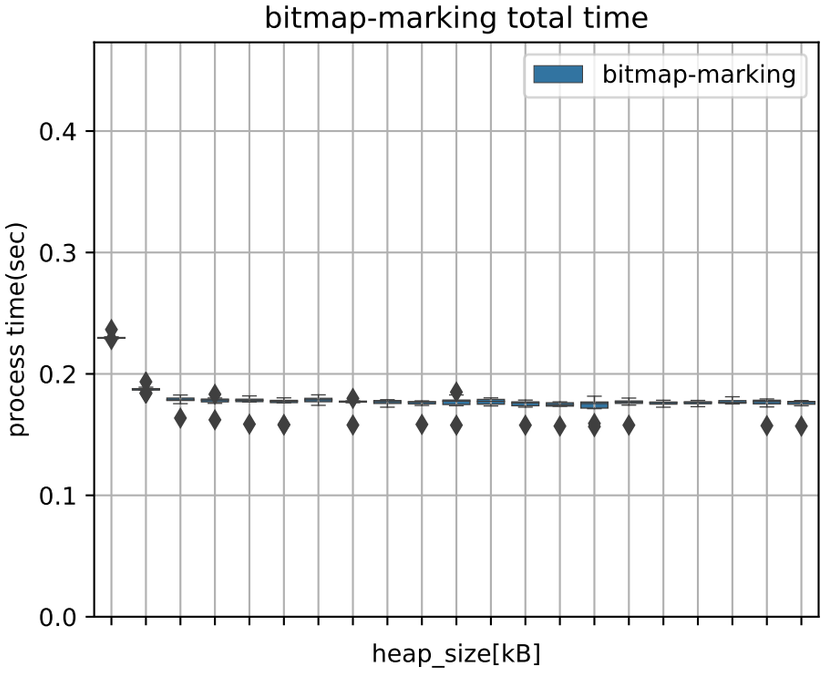

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
heap_size[kB]

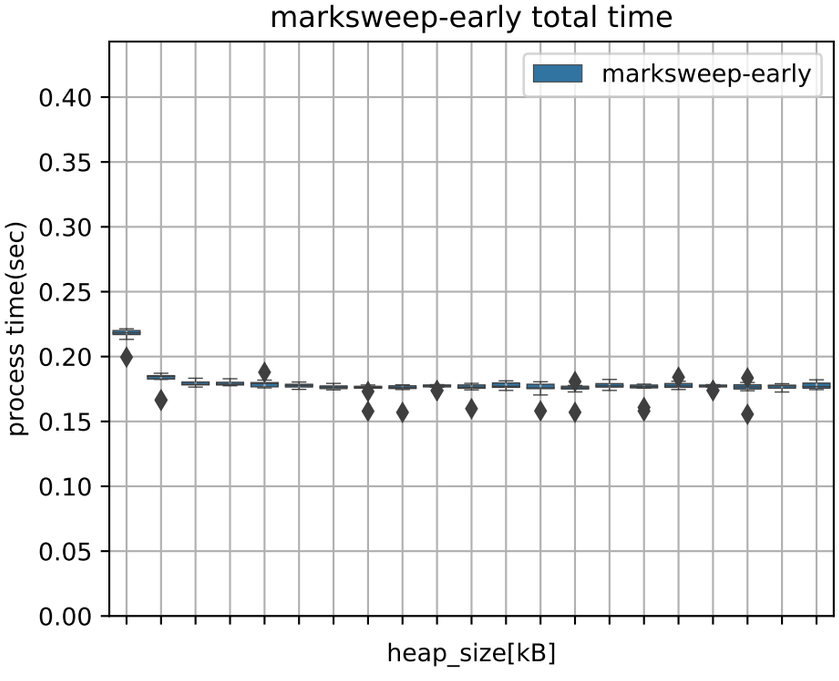

marksweep-m32 total time
marksweep-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
heap_size[kB]

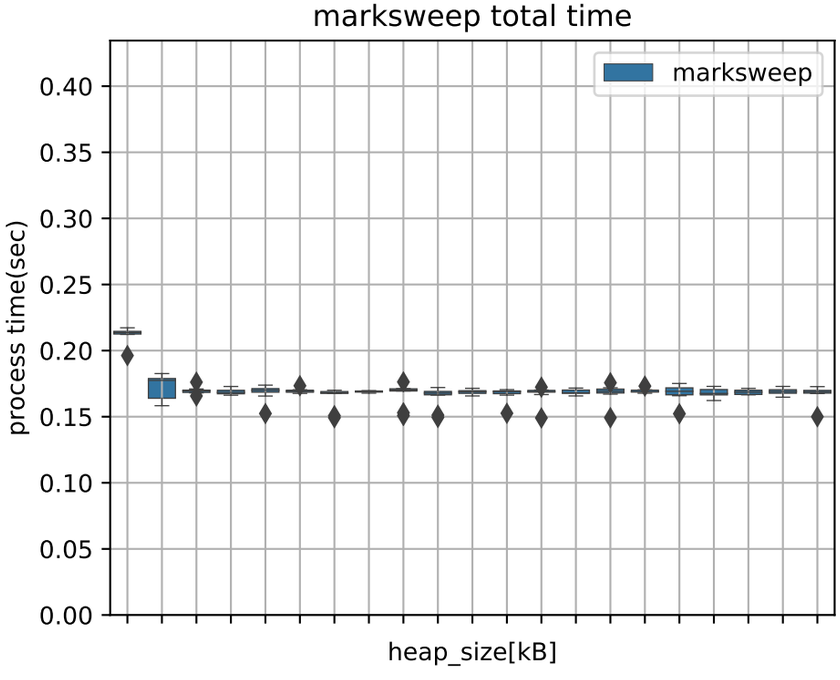

refcnt-m32 total time
refcnt-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
heap_size[kB]

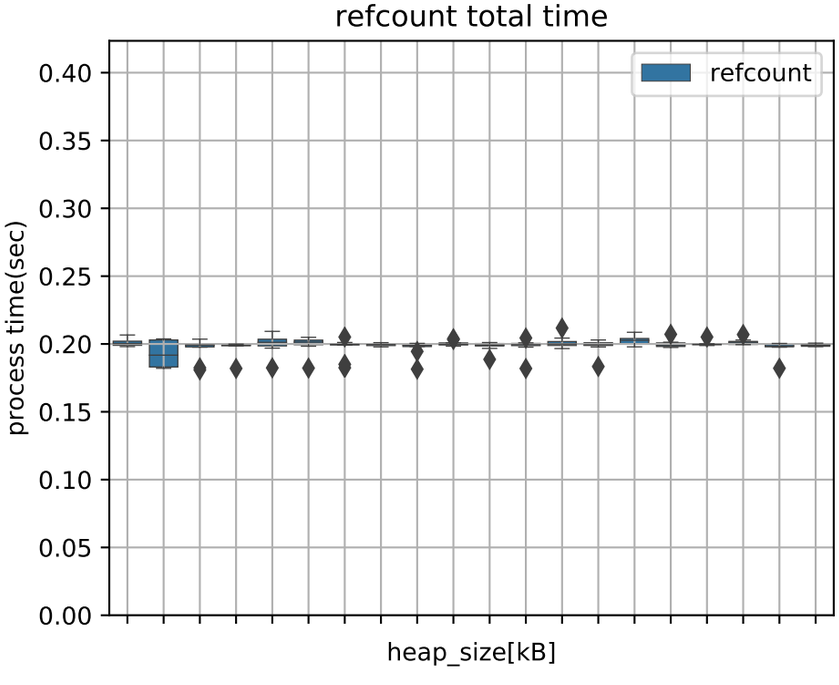

bm_fannkuch
process time(sec)
0.00
0.05
0.10
0.15
0.20
32144
35144
38144
41144
44144
47144
50144
53144
56144
59144
62144
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

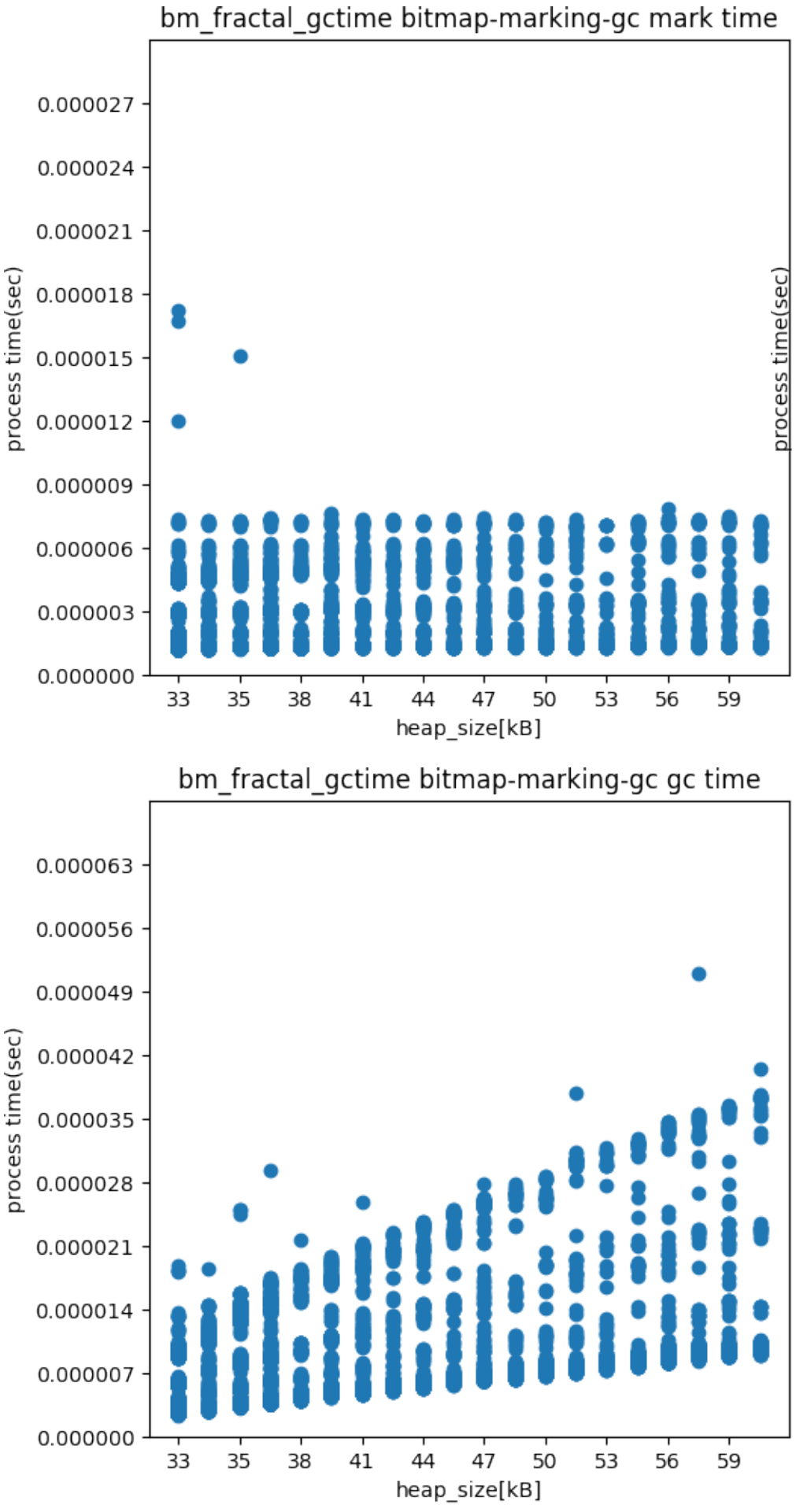

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

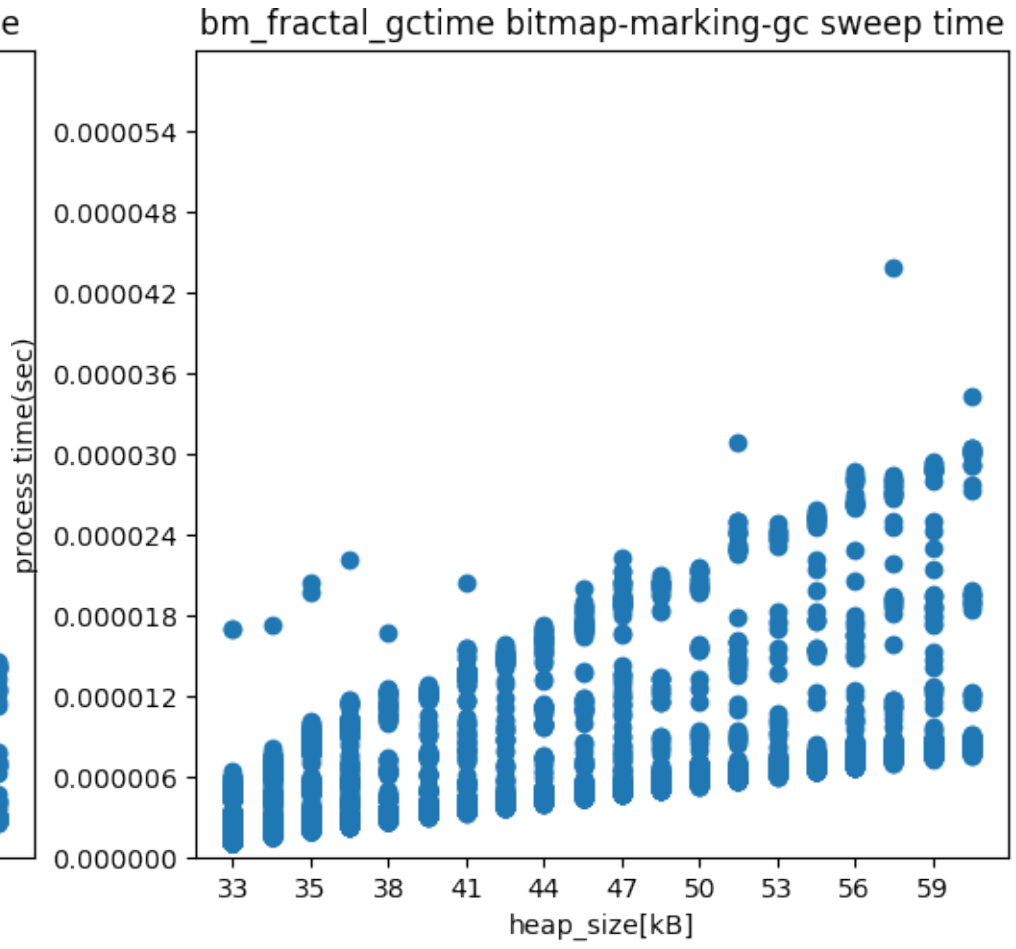

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

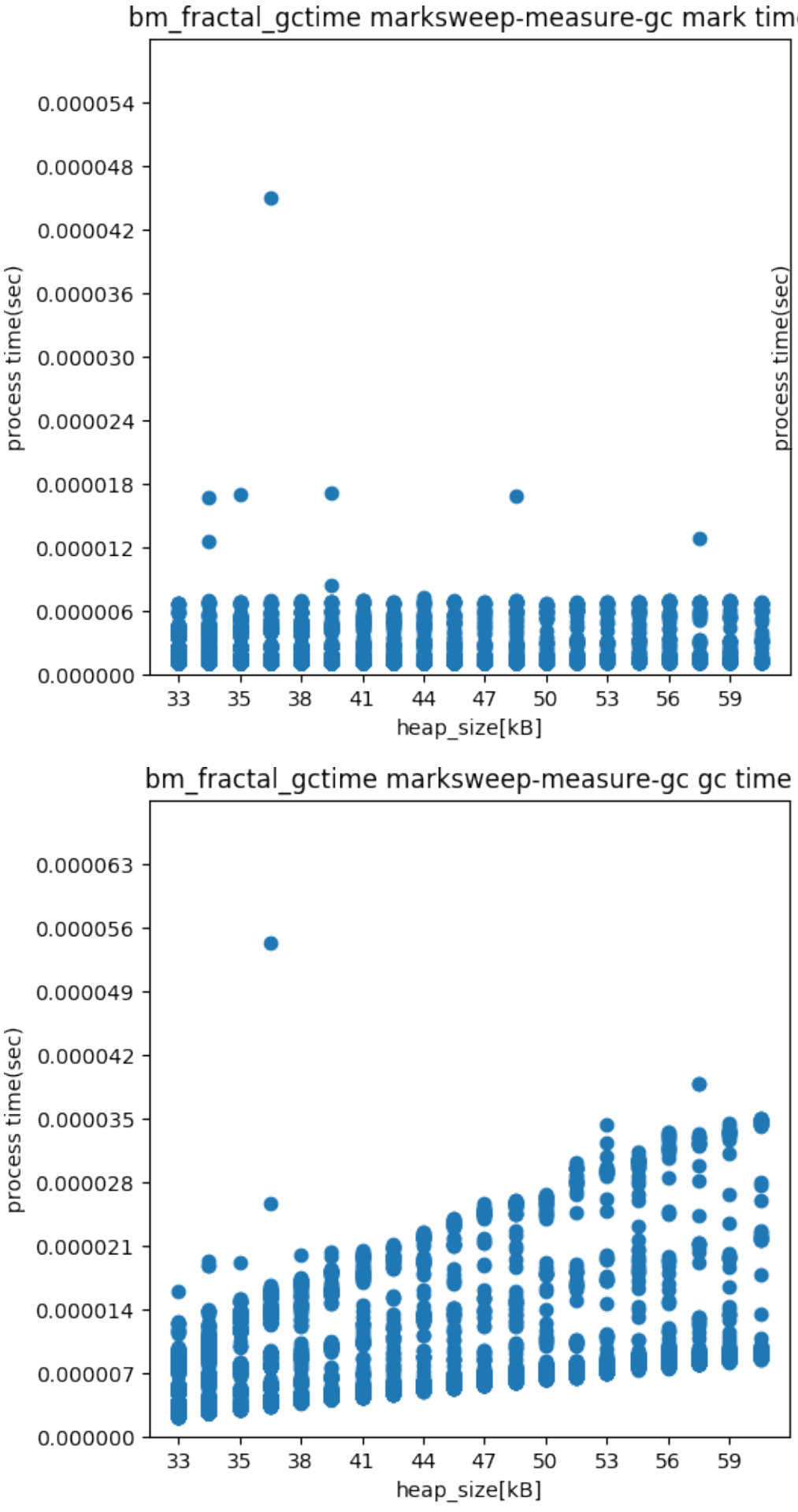

marksweep total time
marksweep
process time(sec)
heap_size[kB]

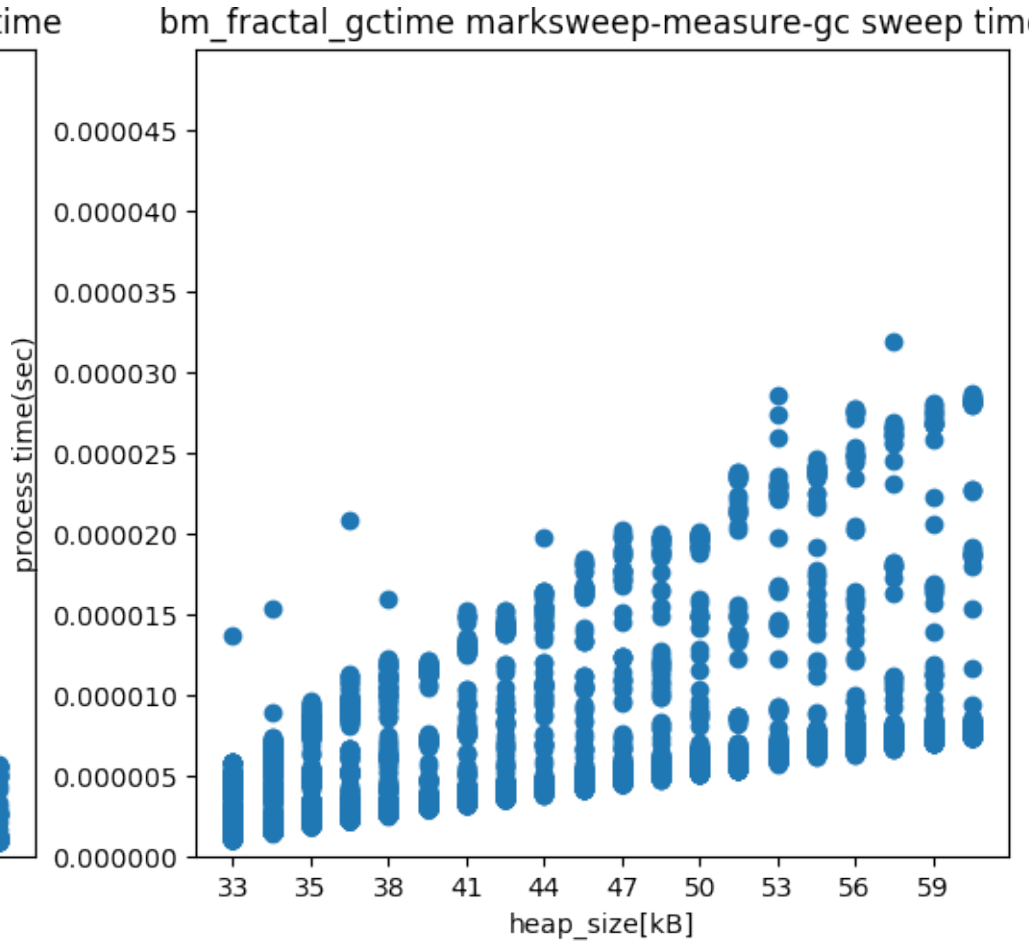

refcount total time
refcount
process time(sec)
heap_size[kB]


bm_fractal_gctime bitmap-marking-gc mark time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
33 35 38 41 44 47 50 53 56 59
heap_size[kB]

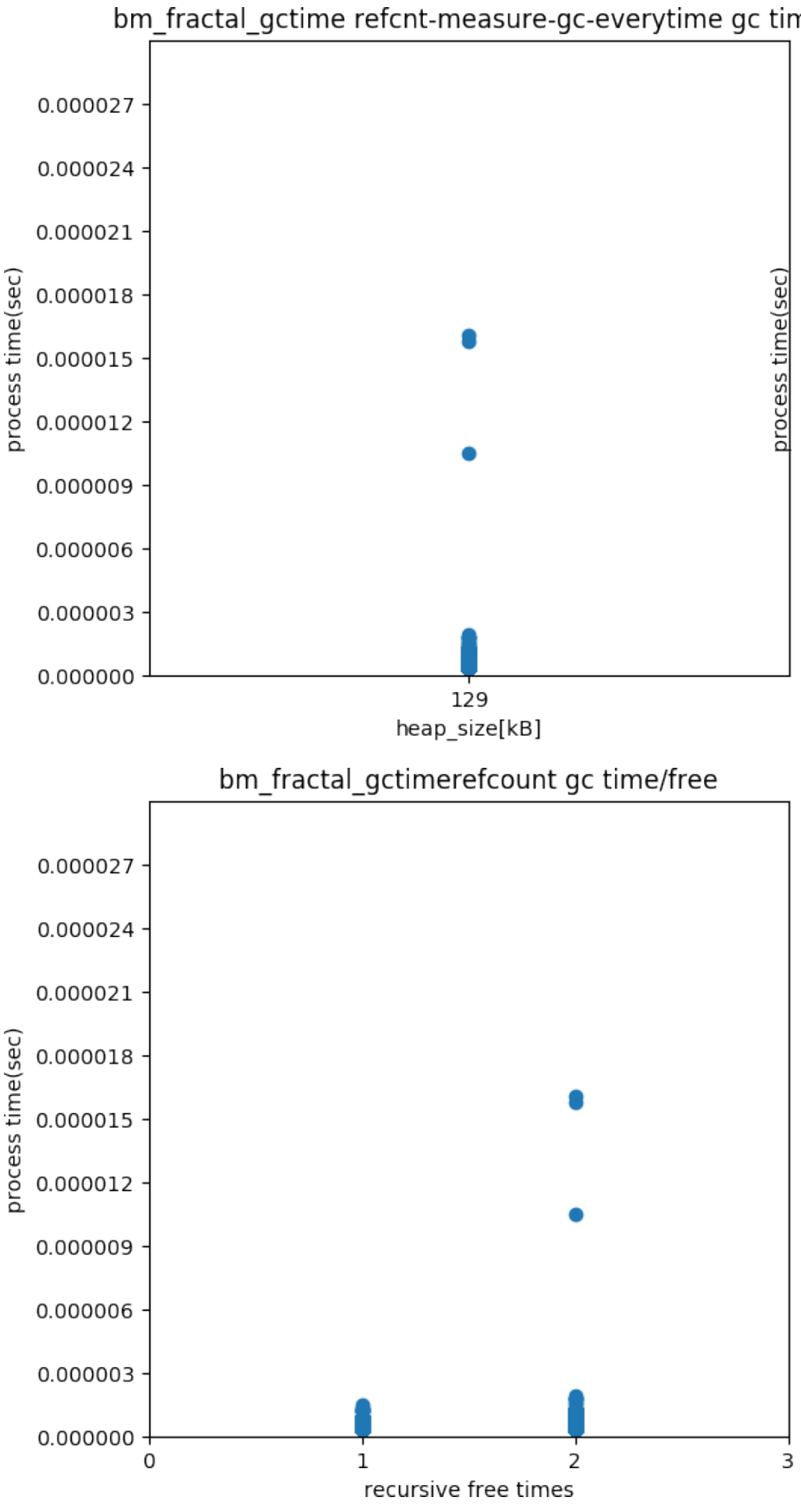

bm_fractal_gctime bitmap-marking-gc sweep time
process time(sec)
0.000054
0.000048
0.000042
0.000036
0.000030
0.000024
0.000018
0.000012
0.000006
0.000000
33 35 38 41 44 47 50 53 56 59
heap_size[kB]

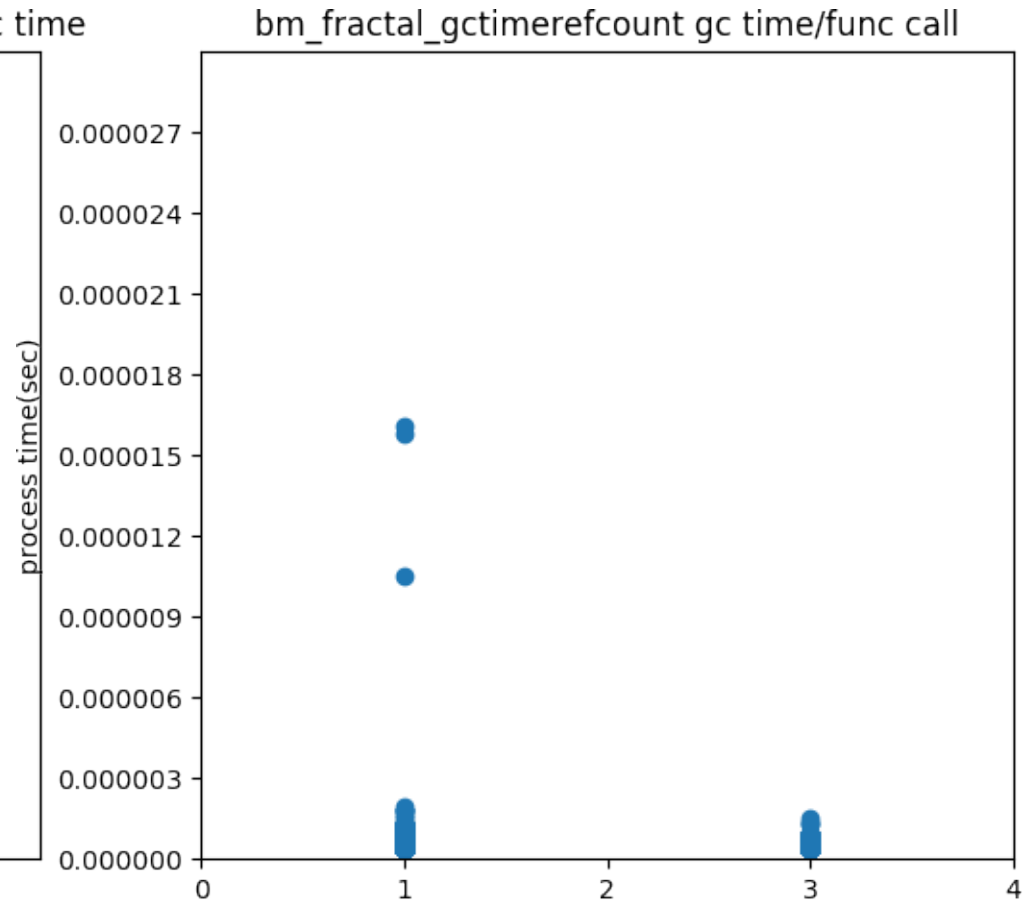
bm_fractal_gctime bitmap-marking-gc gc time
process time(sec)
0.000063
0.000056
0.000049
0.000042
0.000035
0.000028
0.000021
0.000014
0.000007
0.000000
33 35 38 41 44 47 50 53 56 59
heap_size[kB]


bm_fractal_gctime marksweep-measure-gc mark time
process time(sec)
0.000054
0.000048
0.000042
0.000036
0.000030
0.000024
0.000018
0.000012
0.000006
0.000000
33 35 38 41 44 47 50 53 56 59
heap_size[kB]

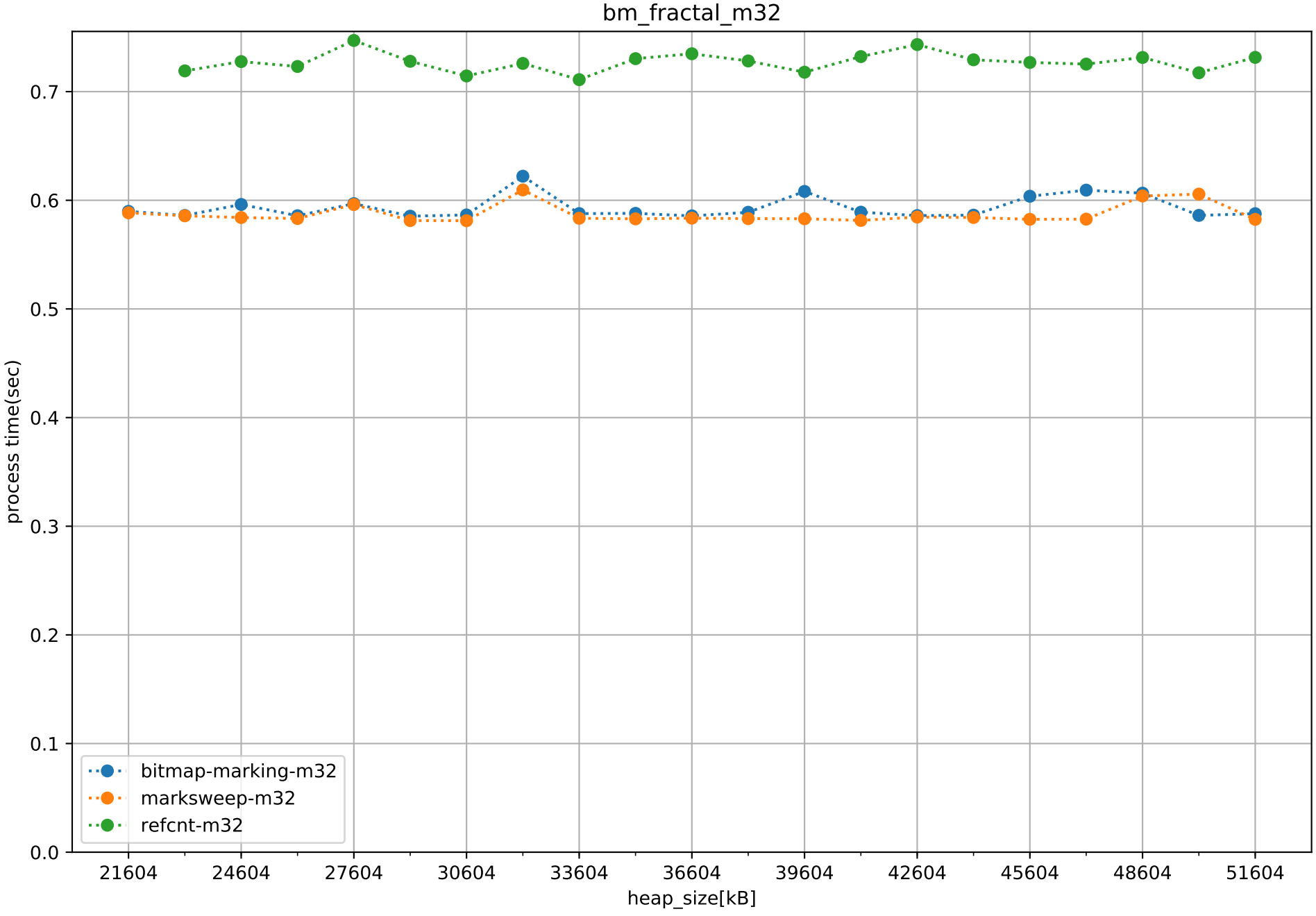

bm_fractal_gctime marksweep-measure-gc sweep time
process time(sec)
0.000045
0.000040
0.000035
0.000030
0.000025
0.000020
0.000015
0.000010
0.000005
0.000000
33 35 38 41 44 47 50 53 56 59
heap_size[kB]

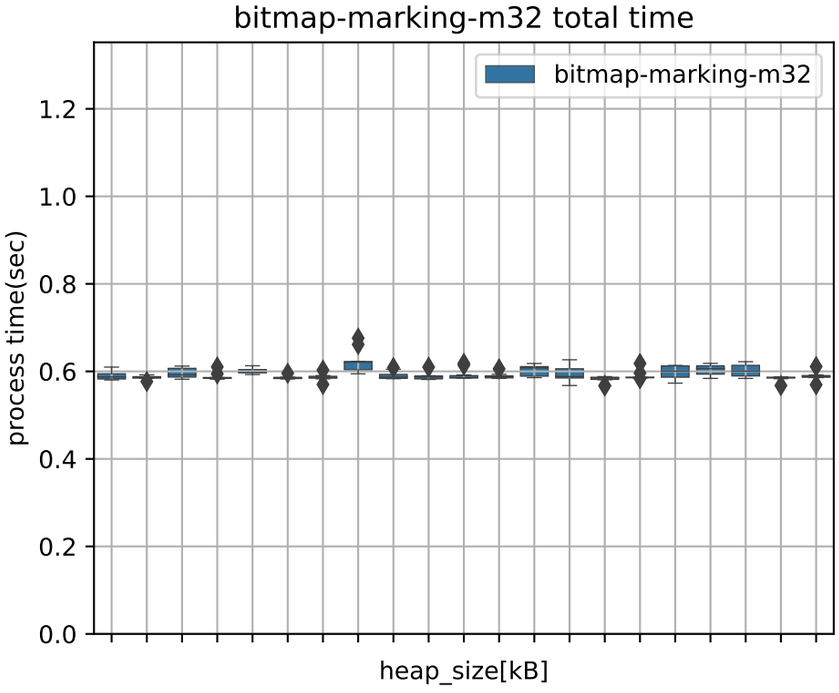
bm_fractal_gctime marksweep-measure-gc gc time
process time(sec)
0.000063
0.000056
0.000049
0.000042
0.000035
0.000028
0.000021
0.000014
0.000007
0.000000
33 35 38 41 44 47 50 53 56 59
heap_size[kB]

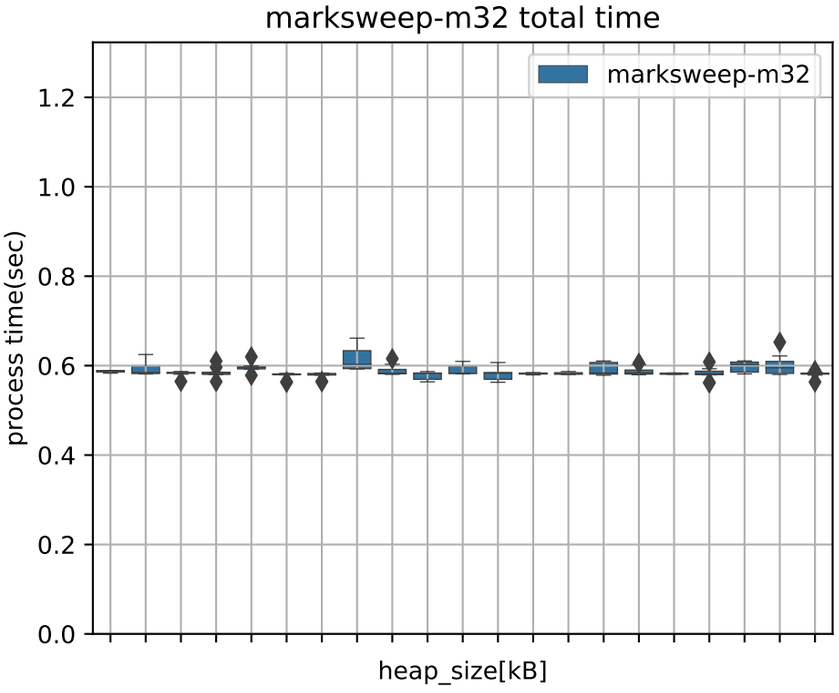

bm_fractal_gctime refcnt-measure-gc-everytime gc time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
129
heap_size[kB]

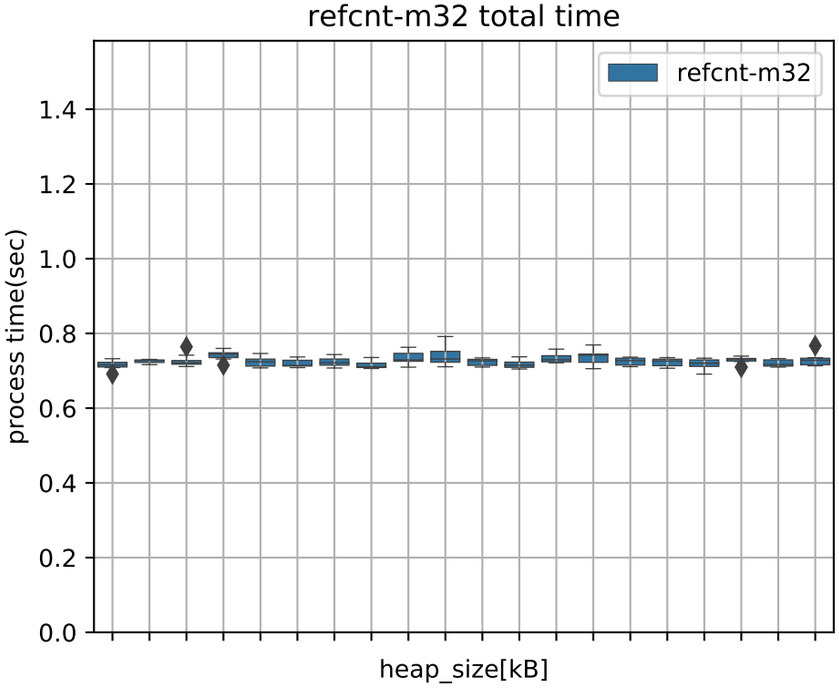

bm_fractal_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
1
2
3
4
recursive dec_ref_counter times

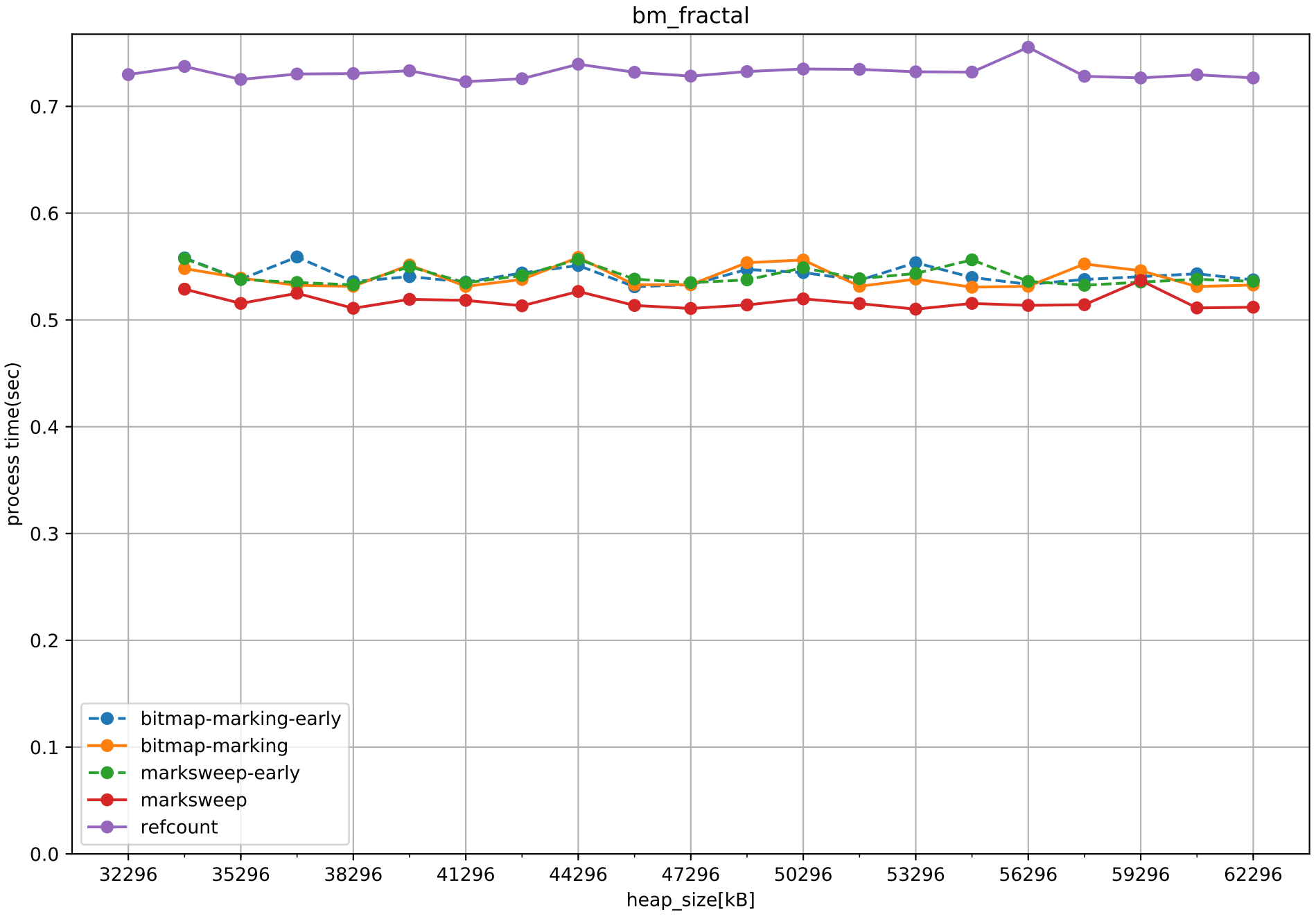
bm_fractal_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
1
2
3
recursive free times

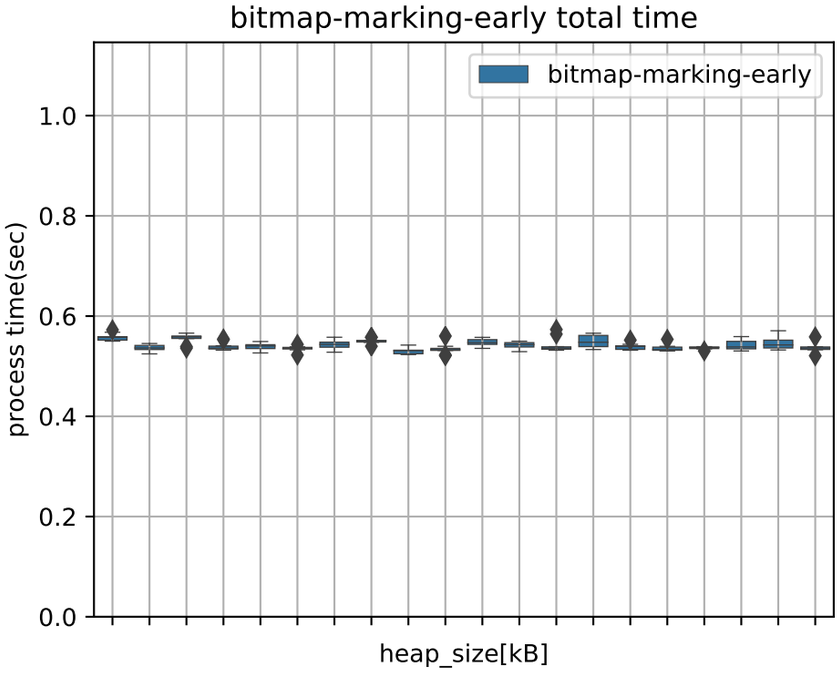

bm_fractal_m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
21604
24604
27604
30604
33604
36604
39604
42604
45604
48604
51604
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

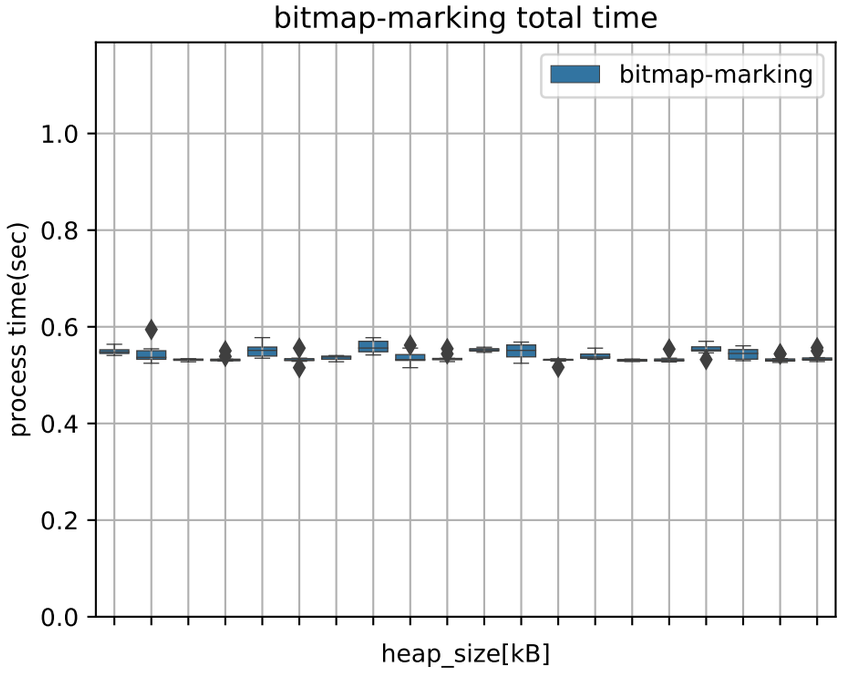

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2

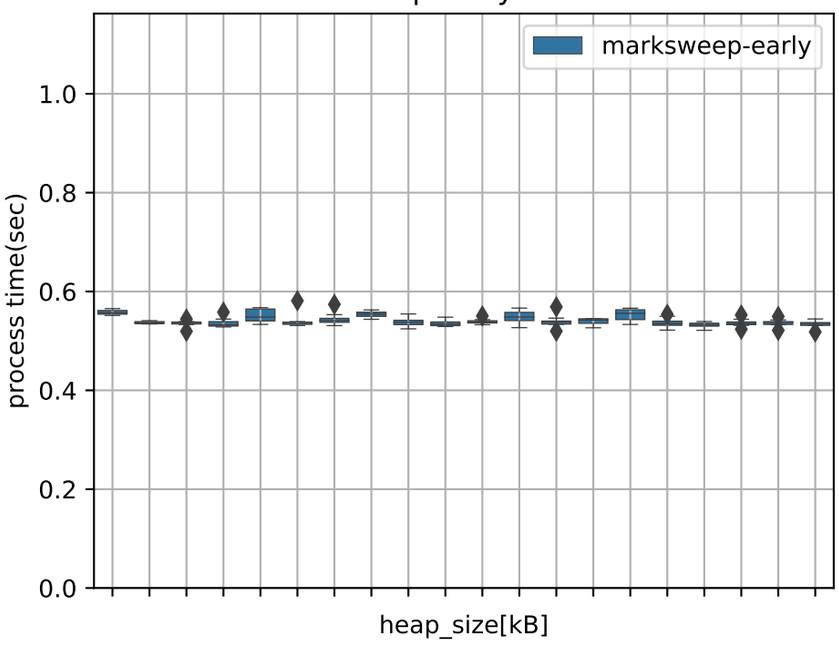

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2

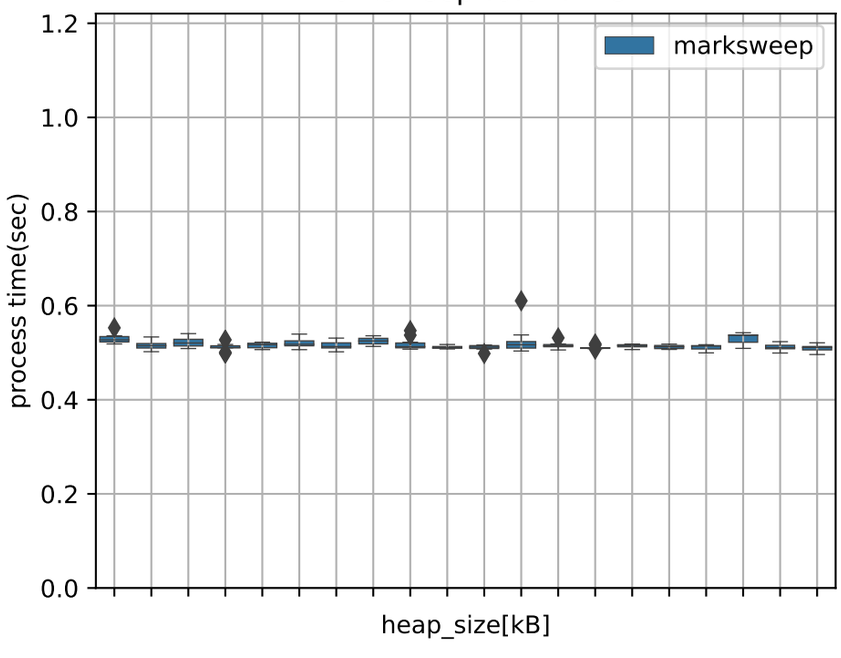

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4

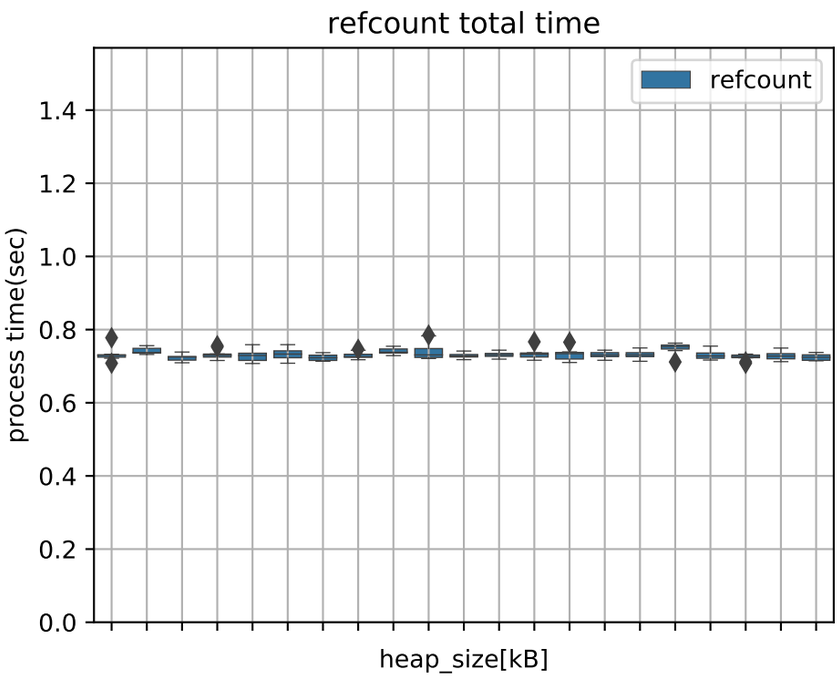

bm_fractal
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
32296
35296
38296
41296
44296
47296
50296
53296
56296
59296
62296
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

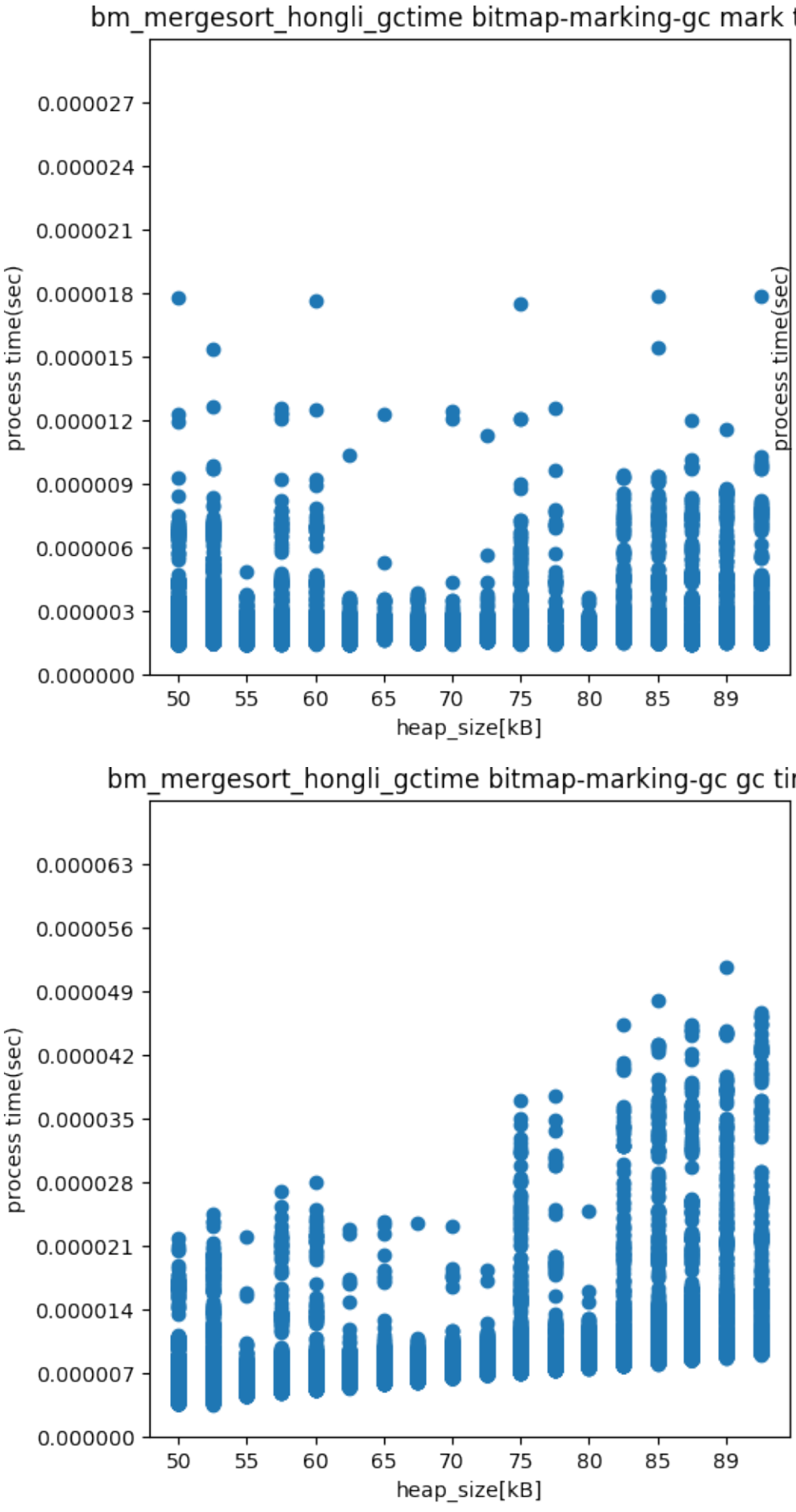

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

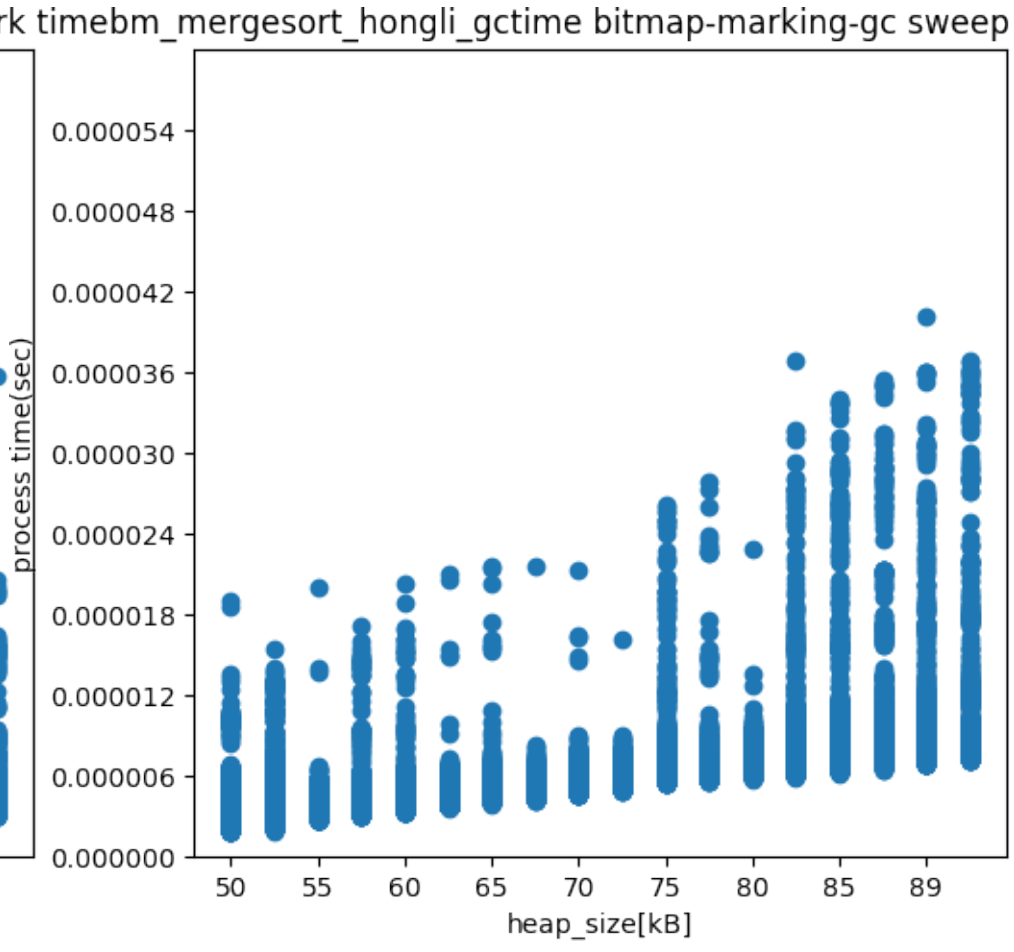

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

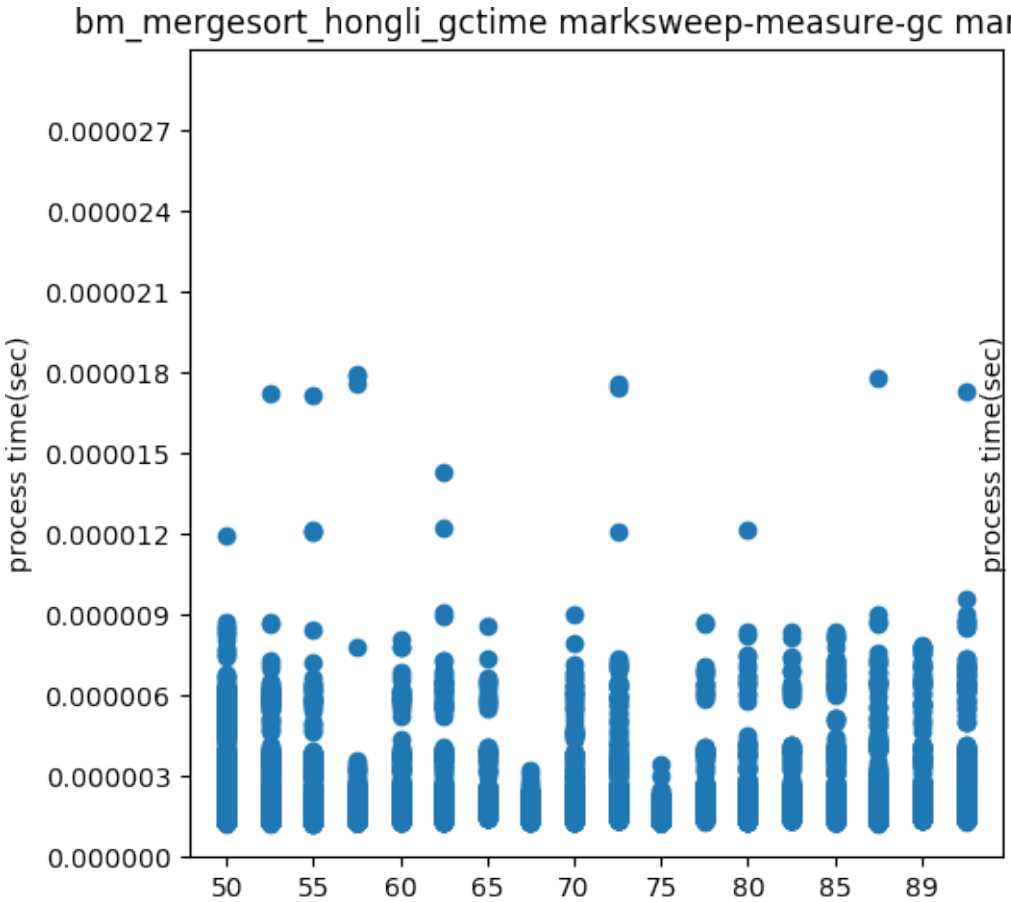

marksweep total time
marksweep
process time(sec)
heap_size[kB]

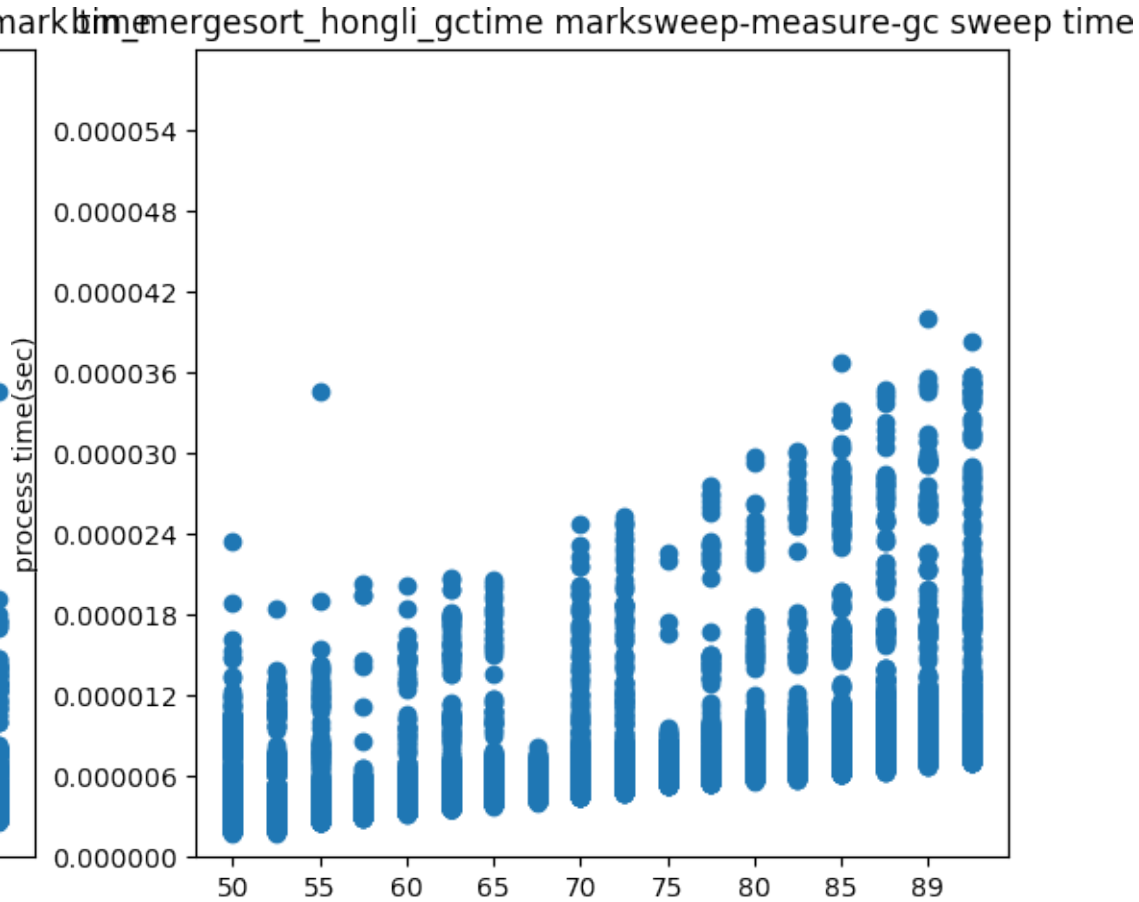

refcount total time
refcount
process time(sec)
heap_size[kB]

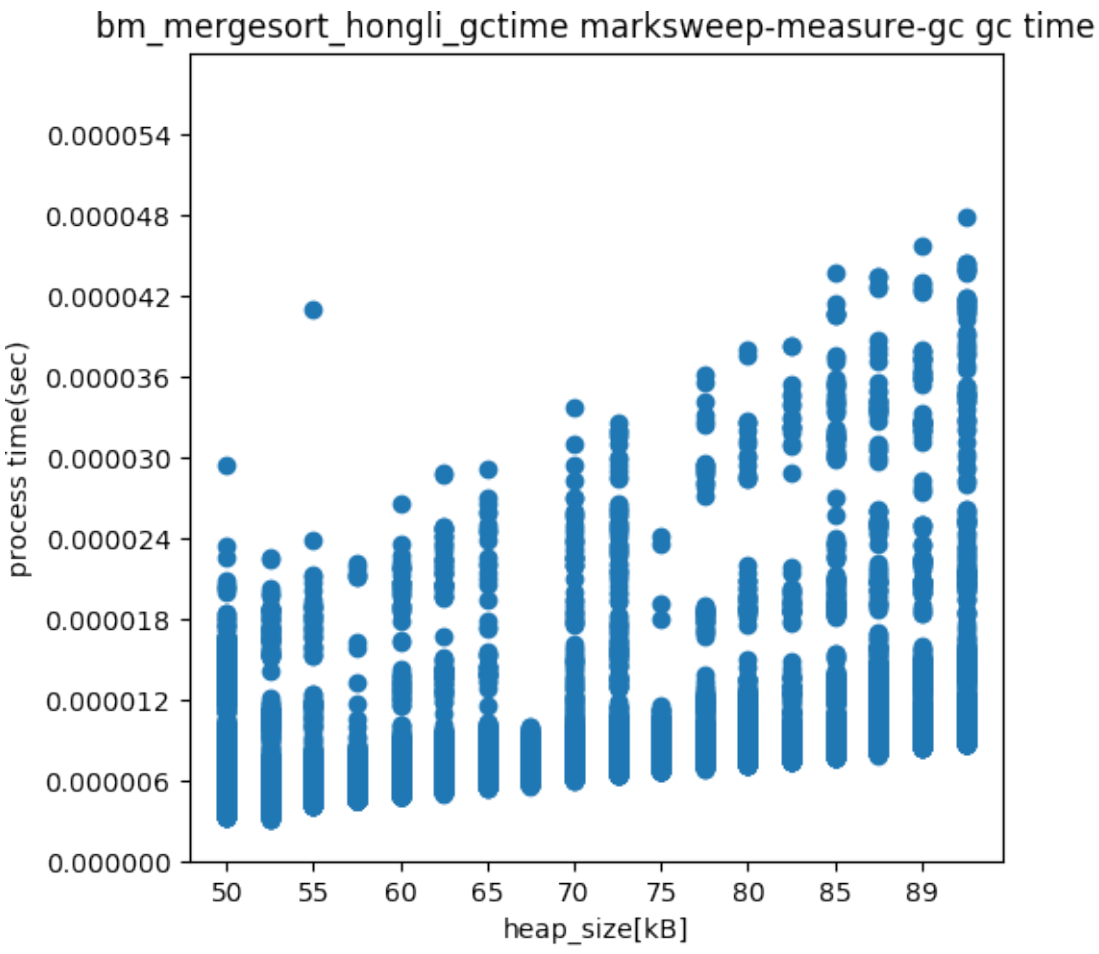

bm_mergesort_hongli_gctime bitmap-marking-gc mark time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
50
55
60
65
70
75
80
85
89
heap_size[kB]

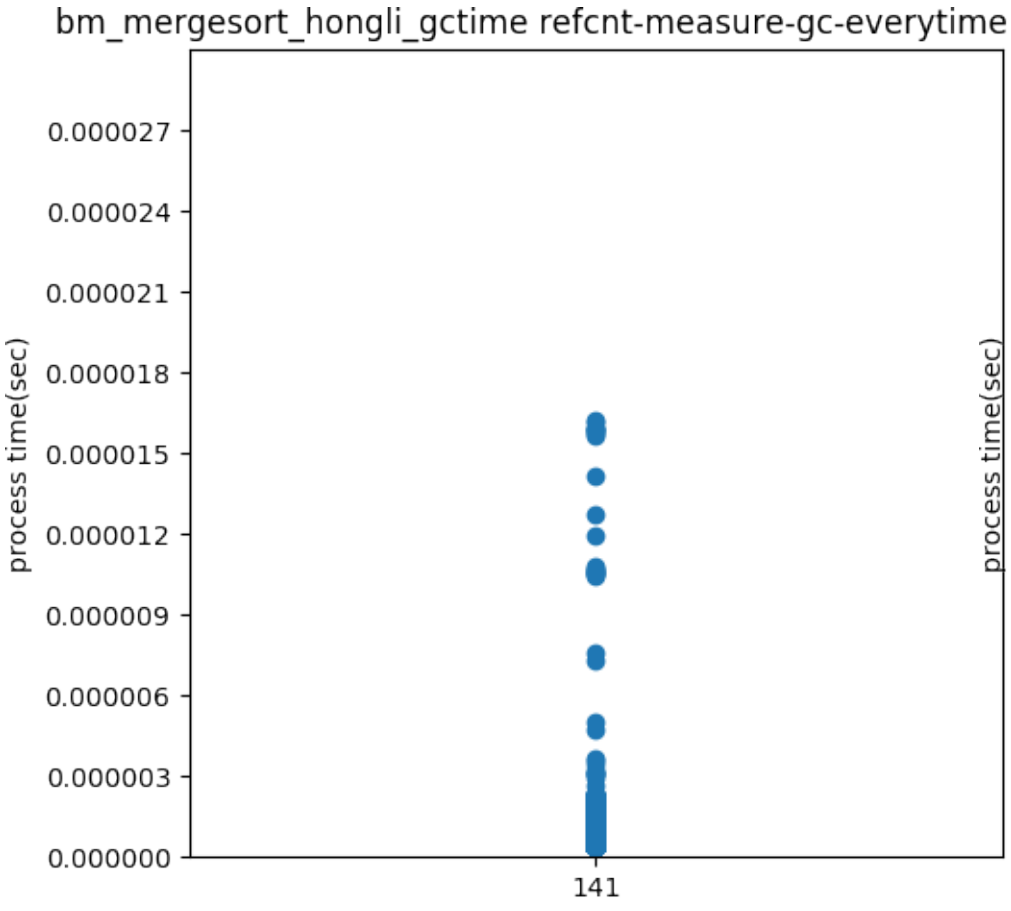

bm_mergesort_hongli_gctime bitmap-marking-gc sweep time
process time(sec)
0.000054
0.000048
0.000042
0.000036
0.000030
0.000024
0.000018
0.000012
0.000006
0.000000
50
55
60
65
70
75
80
85
89
heap_size[kB]

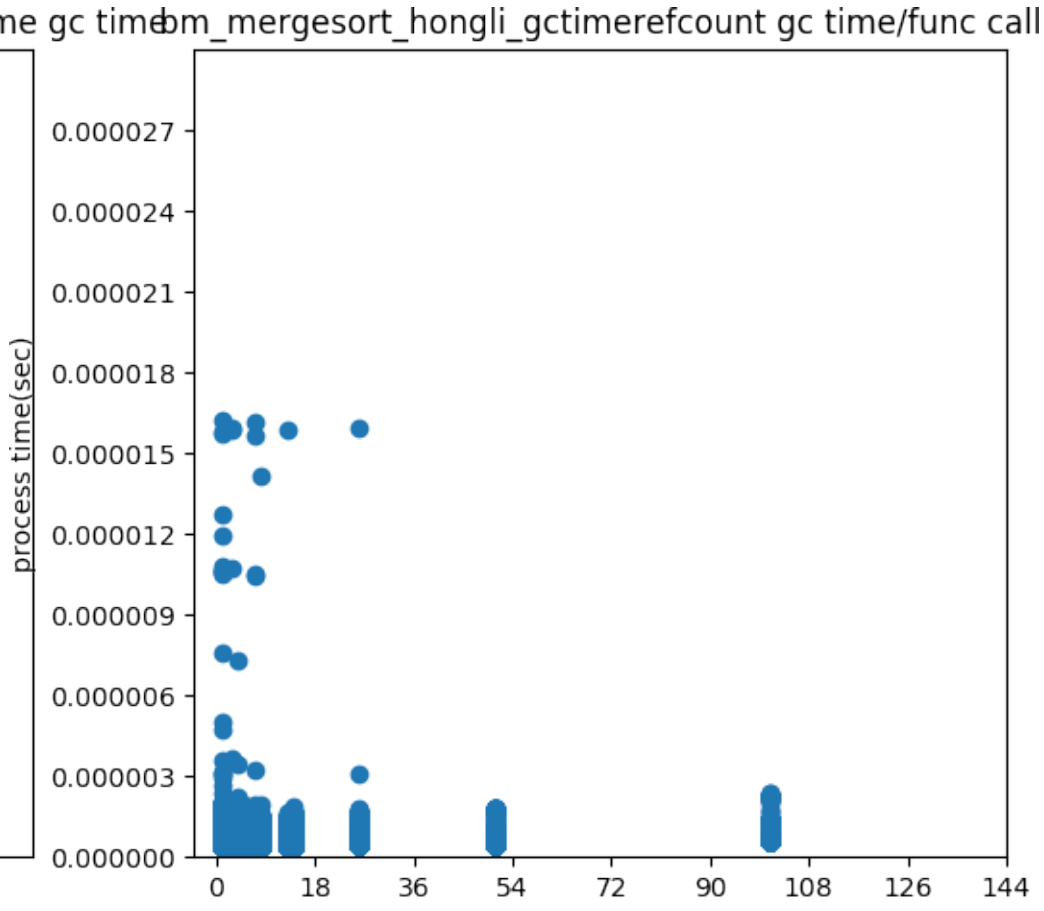
bm_mergesort_hongli_gctime bitmap-marking-gc gc time
process time(sec)
0.000063
0.000056
0.000049
0.000042
0.000035
0.000028
0.000021
0.000014
0.000007
0.000000
50
55
60
65
70
75
80
85
89
heap_size[kB]

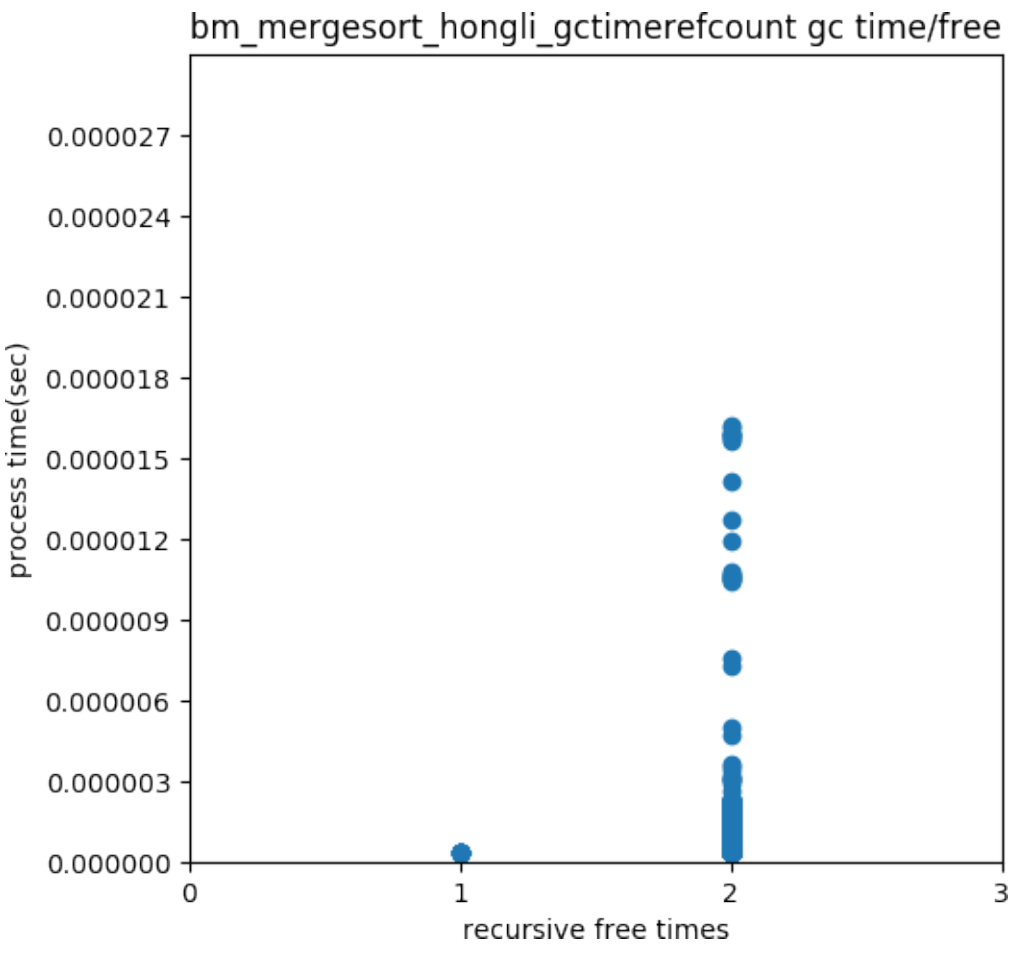

bm_mergesort_hongli_gctime marksweep-measure-gc mark time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
50
55
60
65
70
75
80
85
89
heap_size[kB]

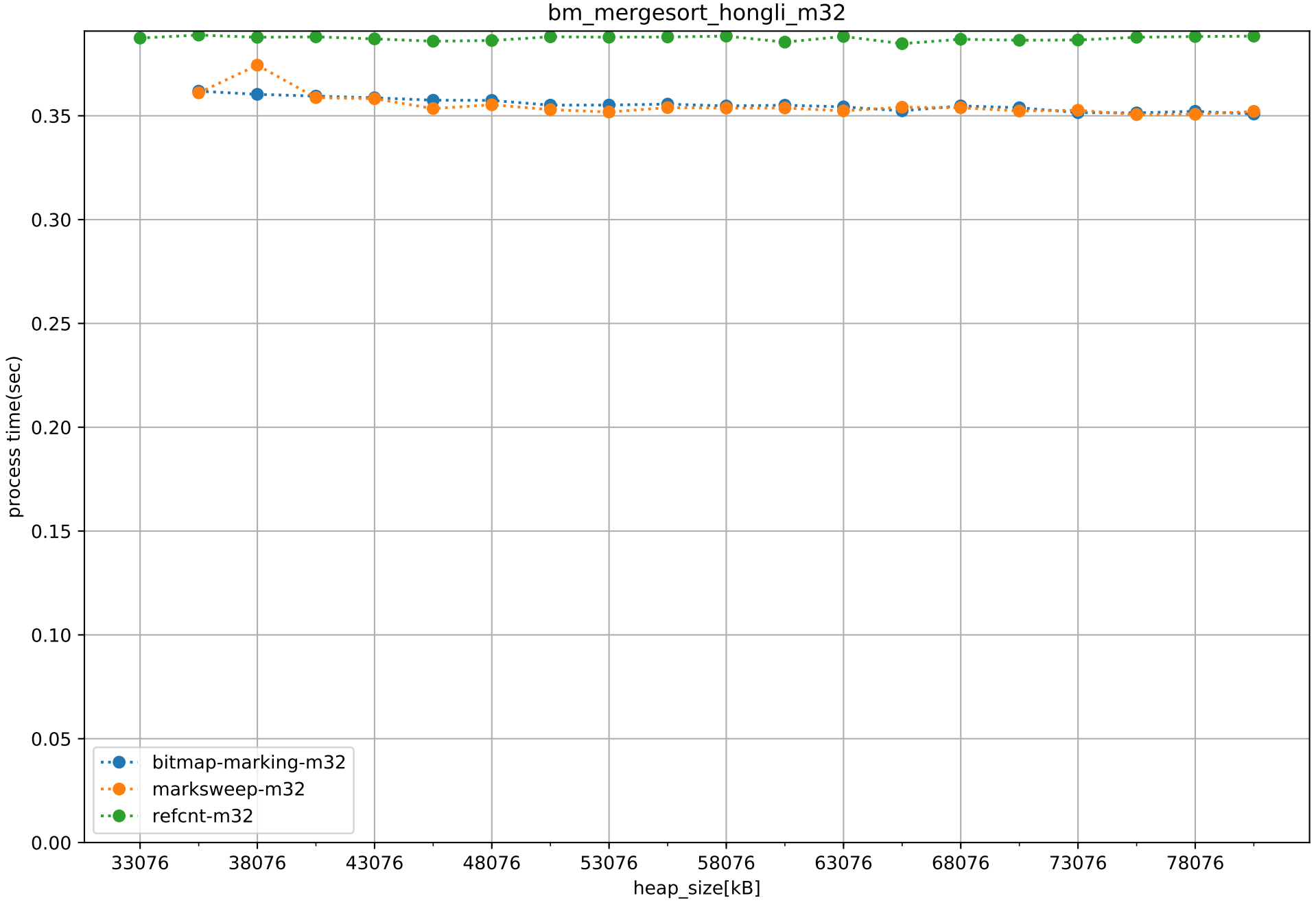

bm_mergesort_hongli_gctime marksweep-measure-gc sweep time
process time(sec)
0.000054
0.000048
0.000042
0.000036
0.000030
0.000024
0.000018
0.000012
0.000006
0.000000
50
55
60
65
70
75
80
85
89
heap_size[kB]

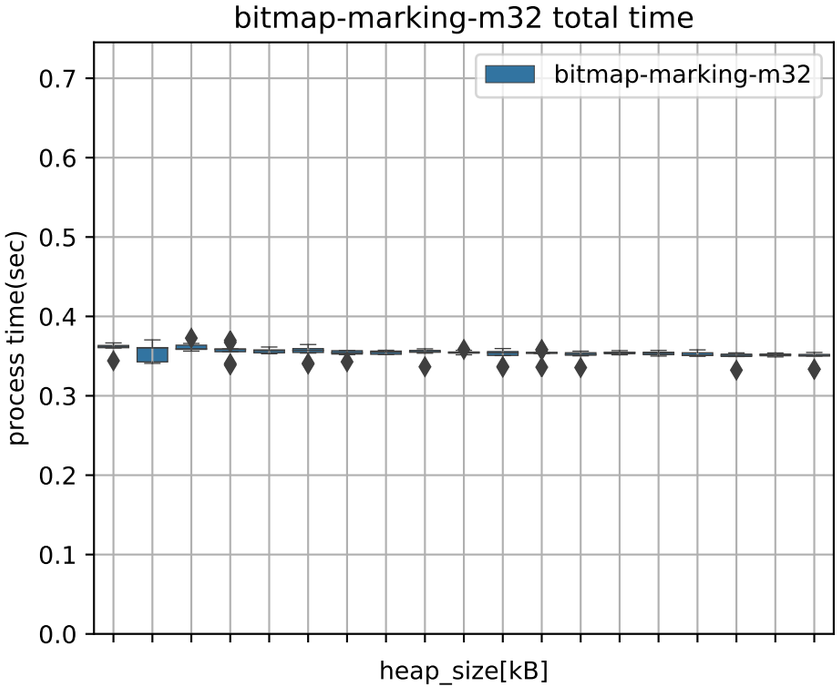

bm_mergesort_hongli_gctime marksweep-measure-gc gc time
process time(sec)
0.000054
0.000048
0.000042
0.000036
0.000030
0.000024
0.000018
0.000012
0.000006
0.000000
50
55
60
65
70
75
80
85
89
heap_size[kB]

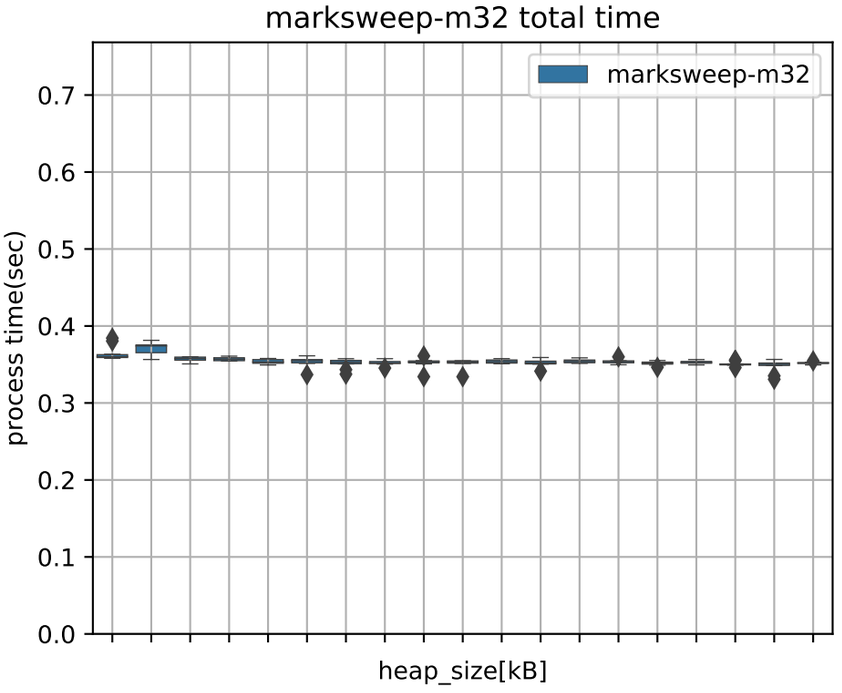

bm_mergesort_hongli_gctime refcnt-measure-gc-everytime gc time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
141
heap_size[kB]

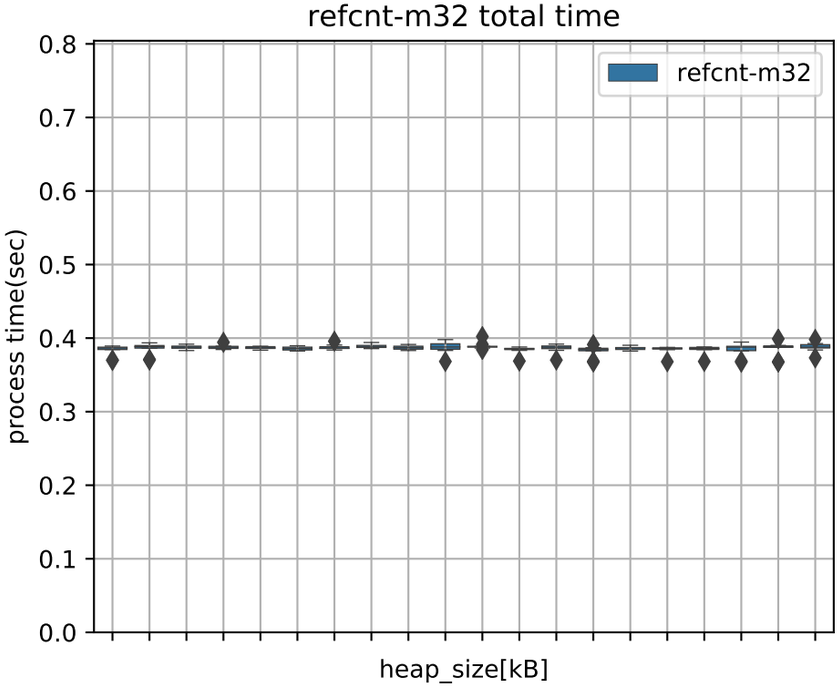

bm_mergesort_hongli_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
18
36
54
72
90
108
126
144
recursive dec_ref_counter times

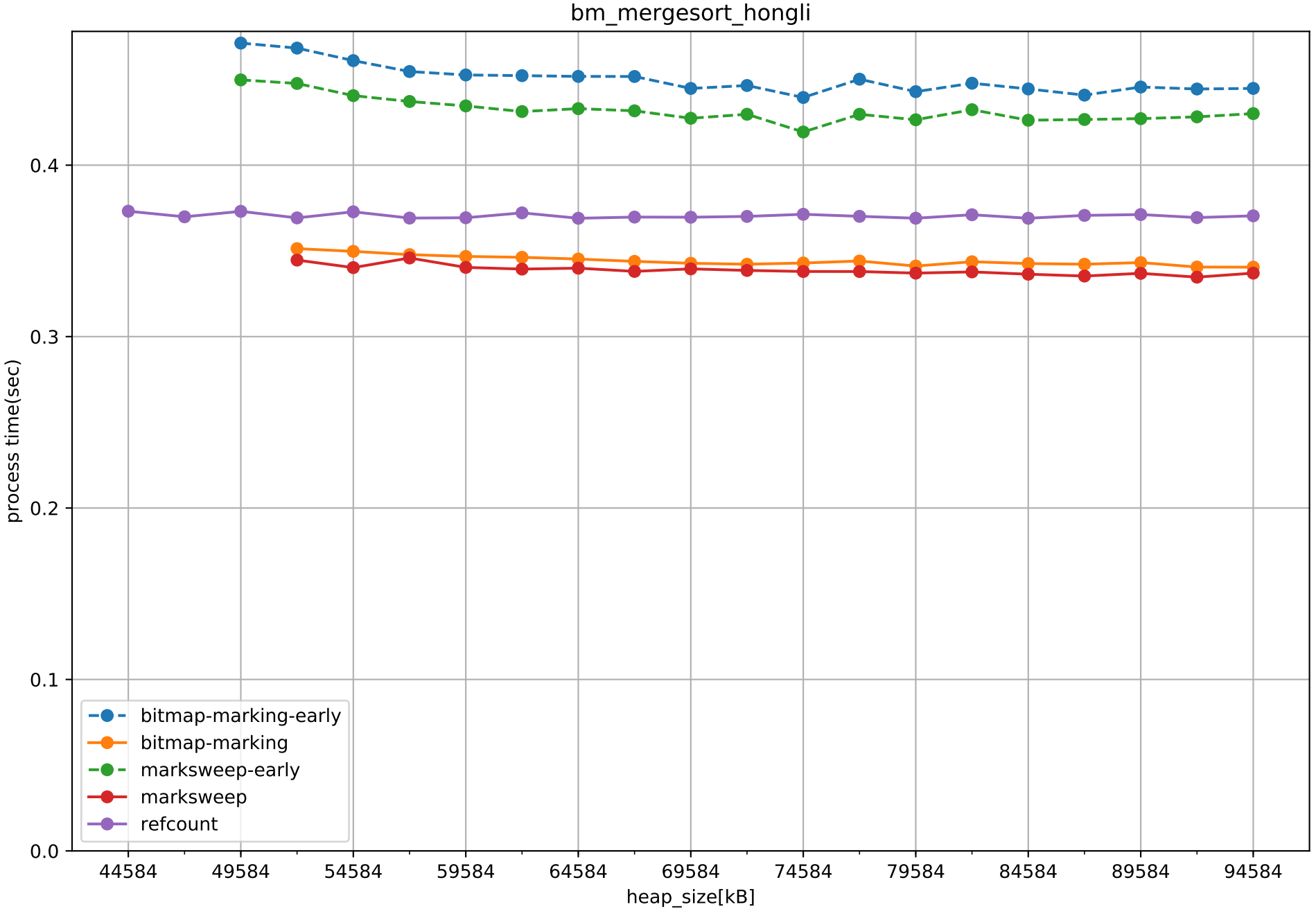

bm_mergesort_hongli_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
1
2
3
recursive free times

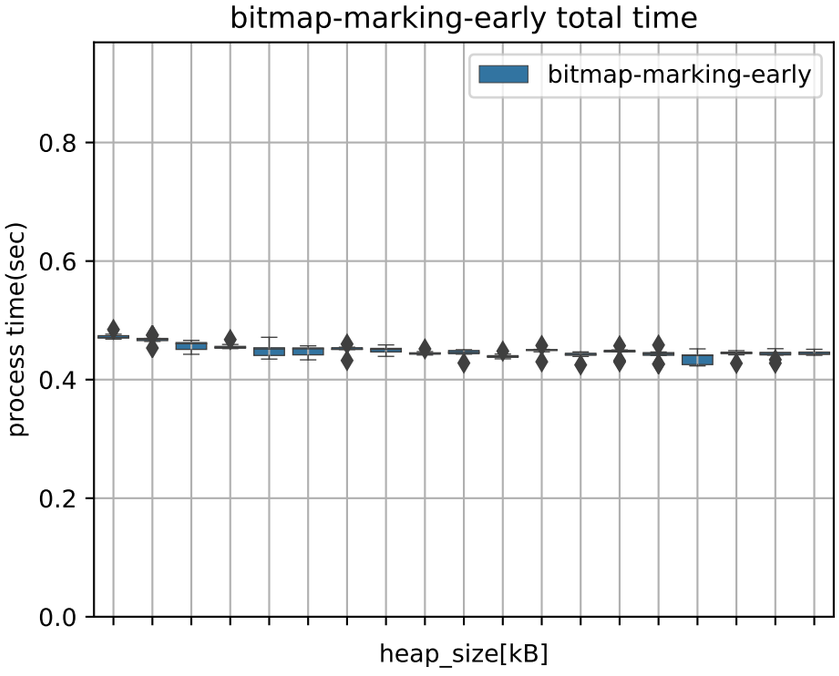

bm_mergesort_hongli_m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
33076
38076
43076
48076
53076
58076
63076
68076
73076
78076
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

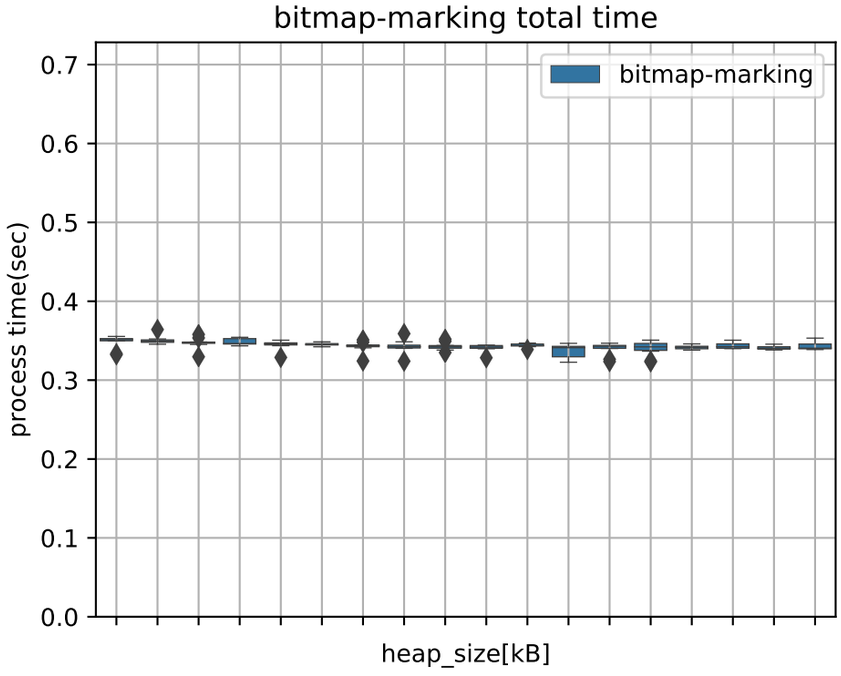

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
heap_size[kB]

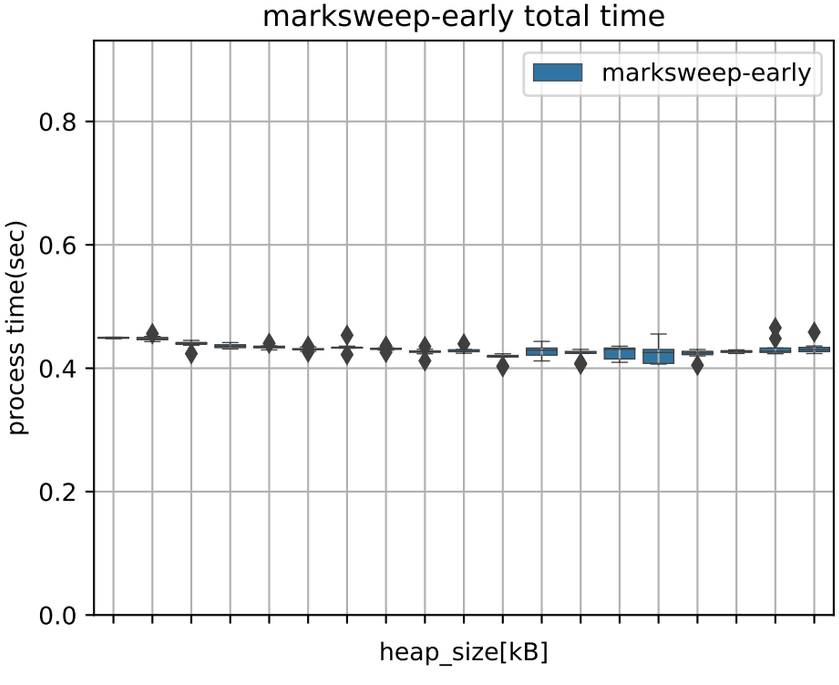

marksweep-m32 total time
marksweep-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
heap_size[kB]

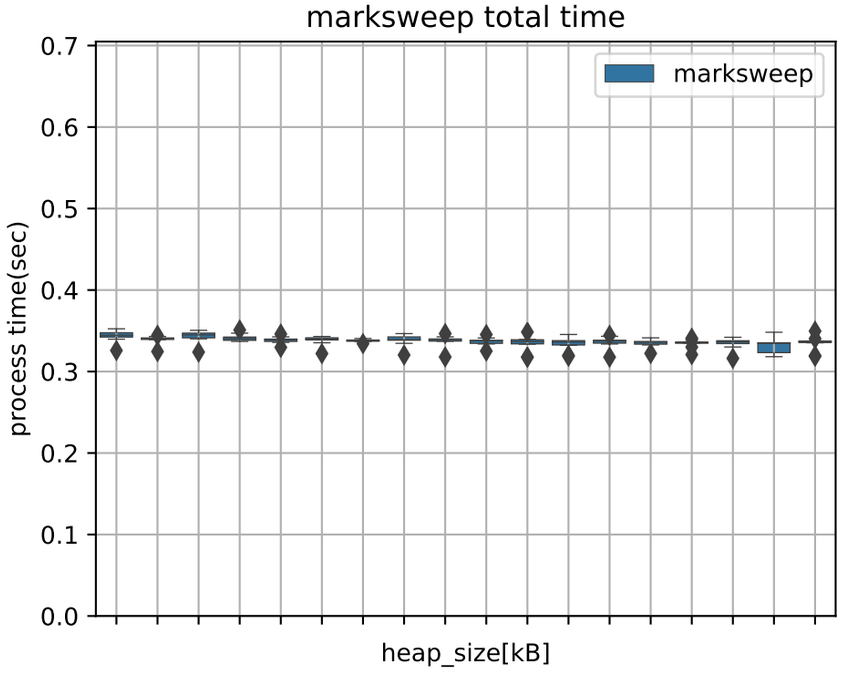

refcnt-m32 total time
refcnt-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
heap_size[kB]

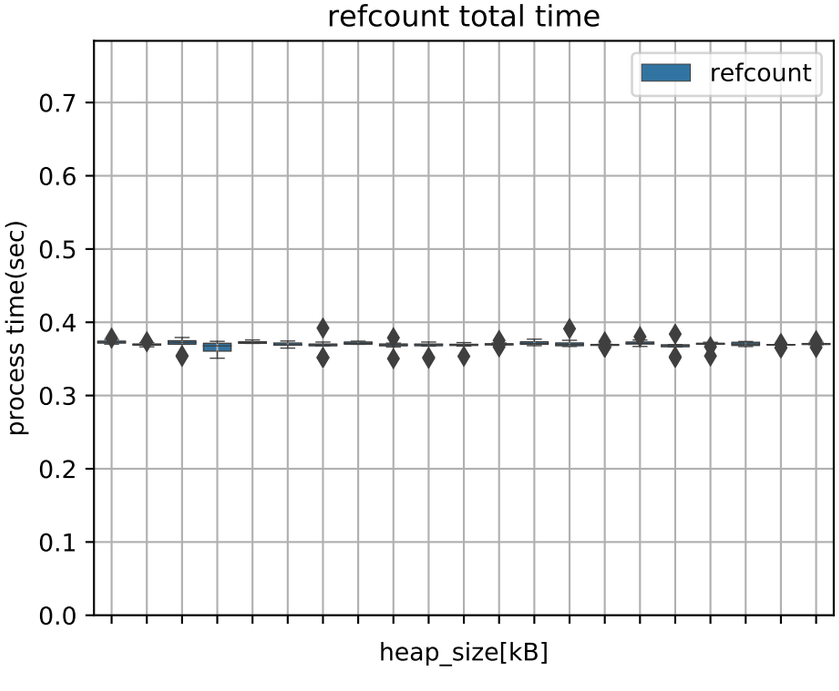

bm_mergesort_hongli
process time(sec)
0.0
0.1
0.2
0.3
0.4
44584
49584
54584
59584
64584
69584
74584
79584
84584
89584
94584
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

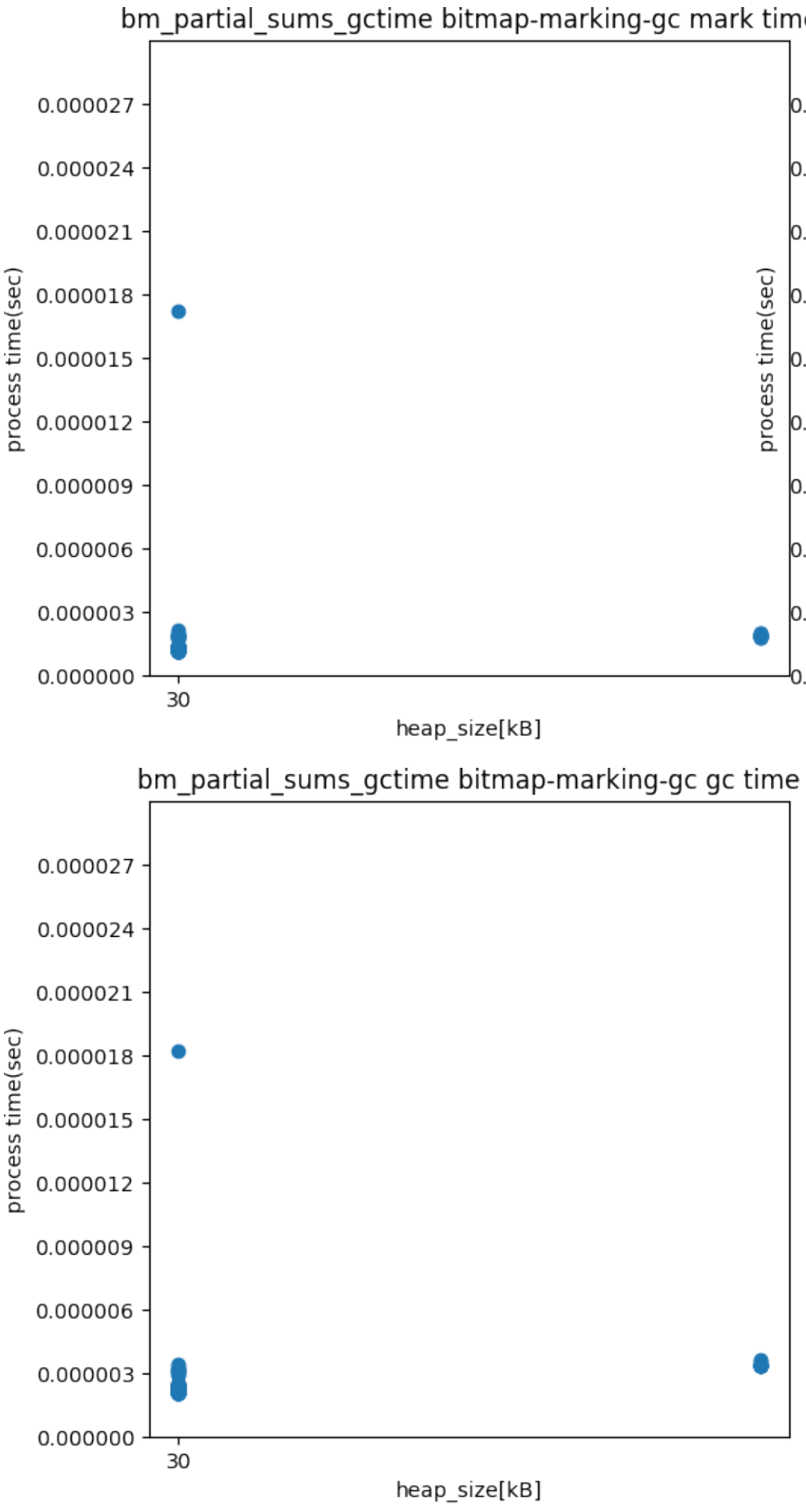

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

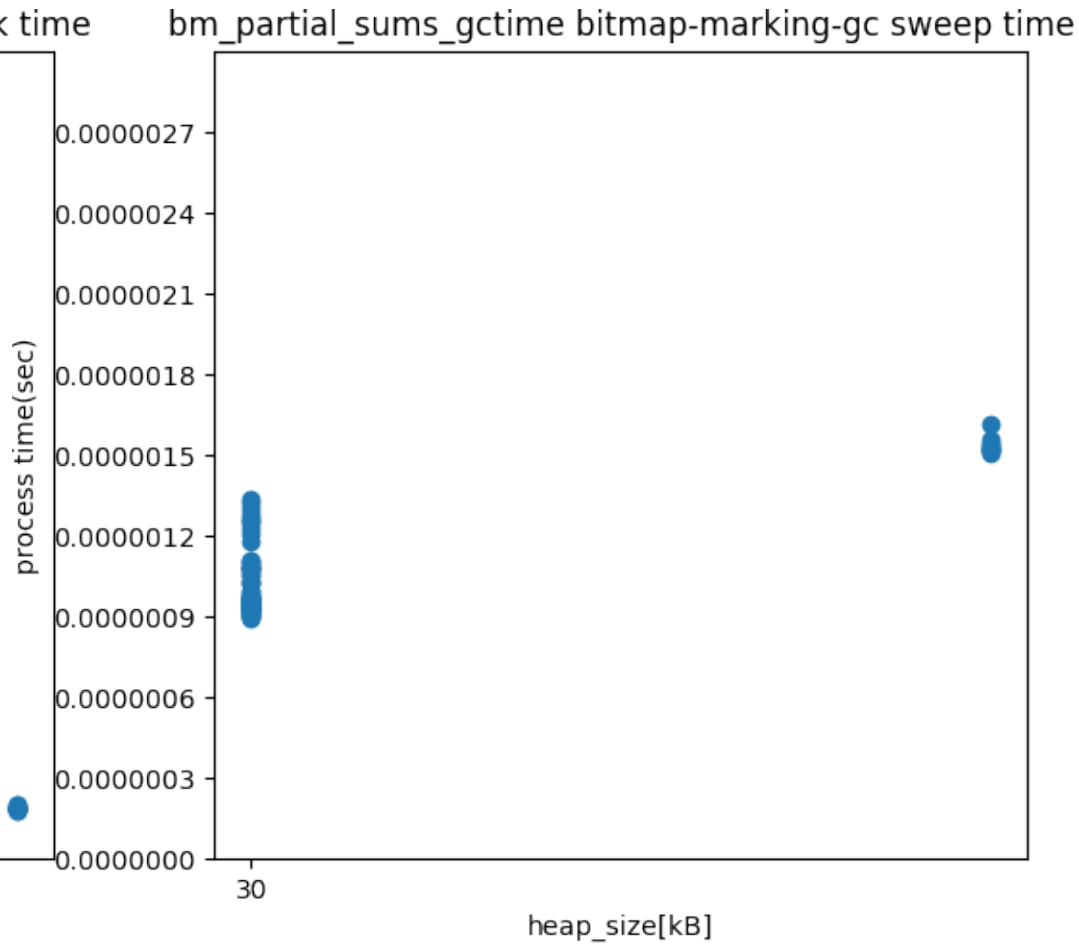

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

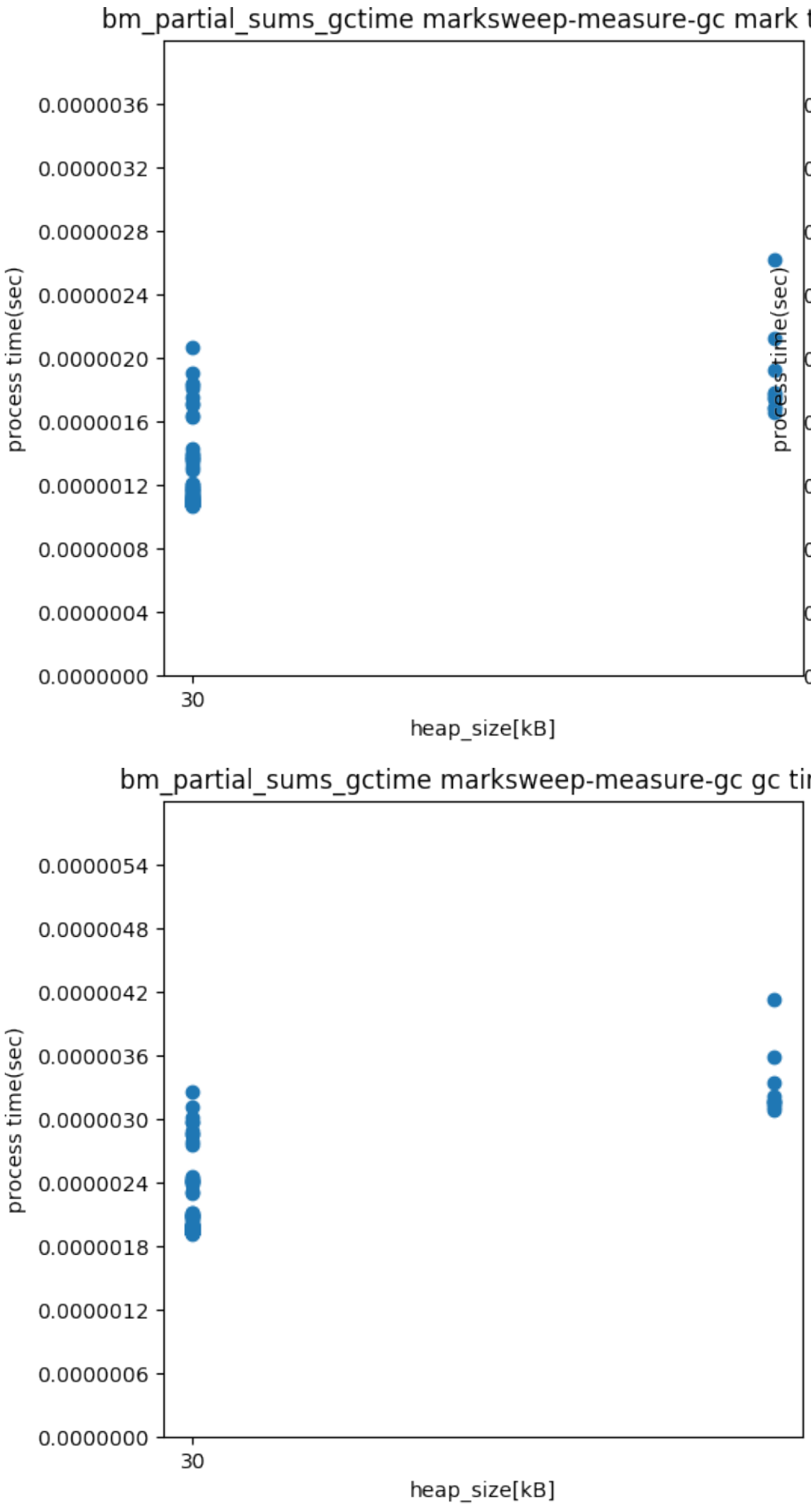

marksweep total time
marksweep
process time(sec)
heap_size[kB]

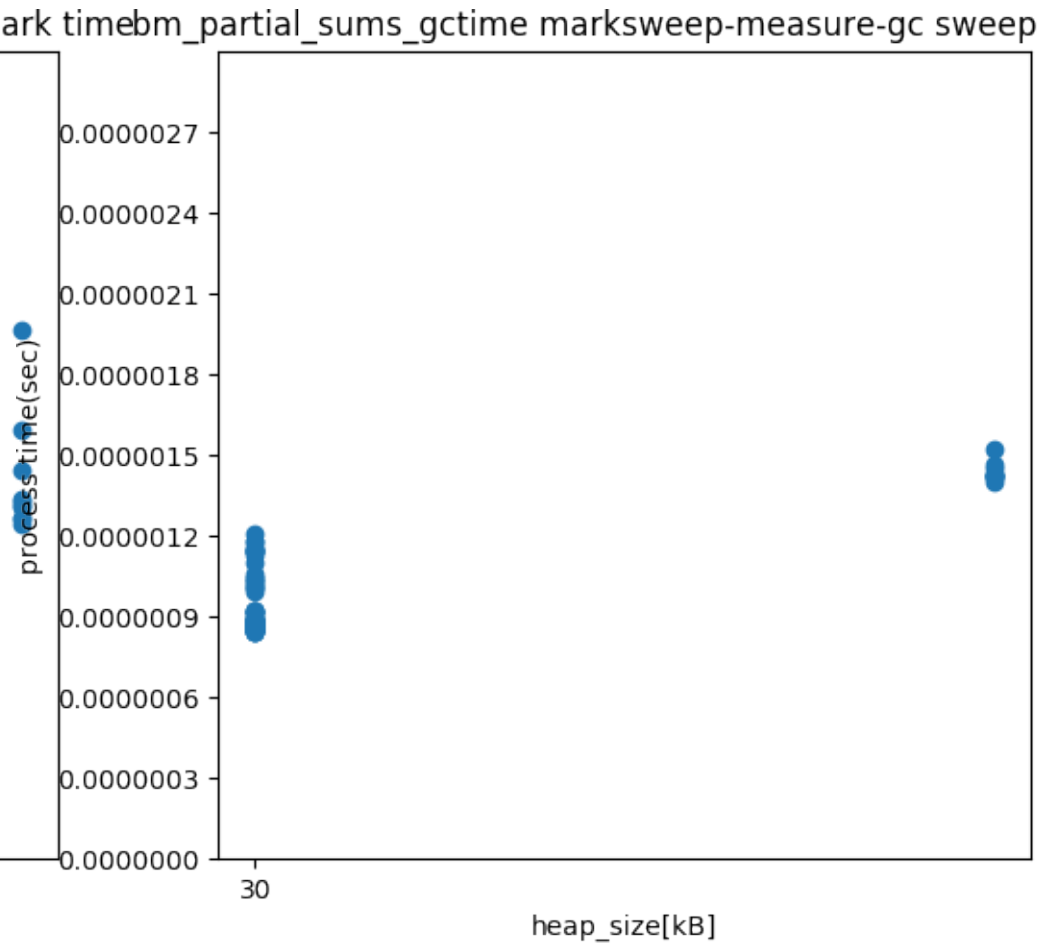

refcount total time
refcount
process time(sec)
heap_size[kB]


bm_partial_sums_gctime bitmap-marking-gc mark time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
30
heap_size[kB]

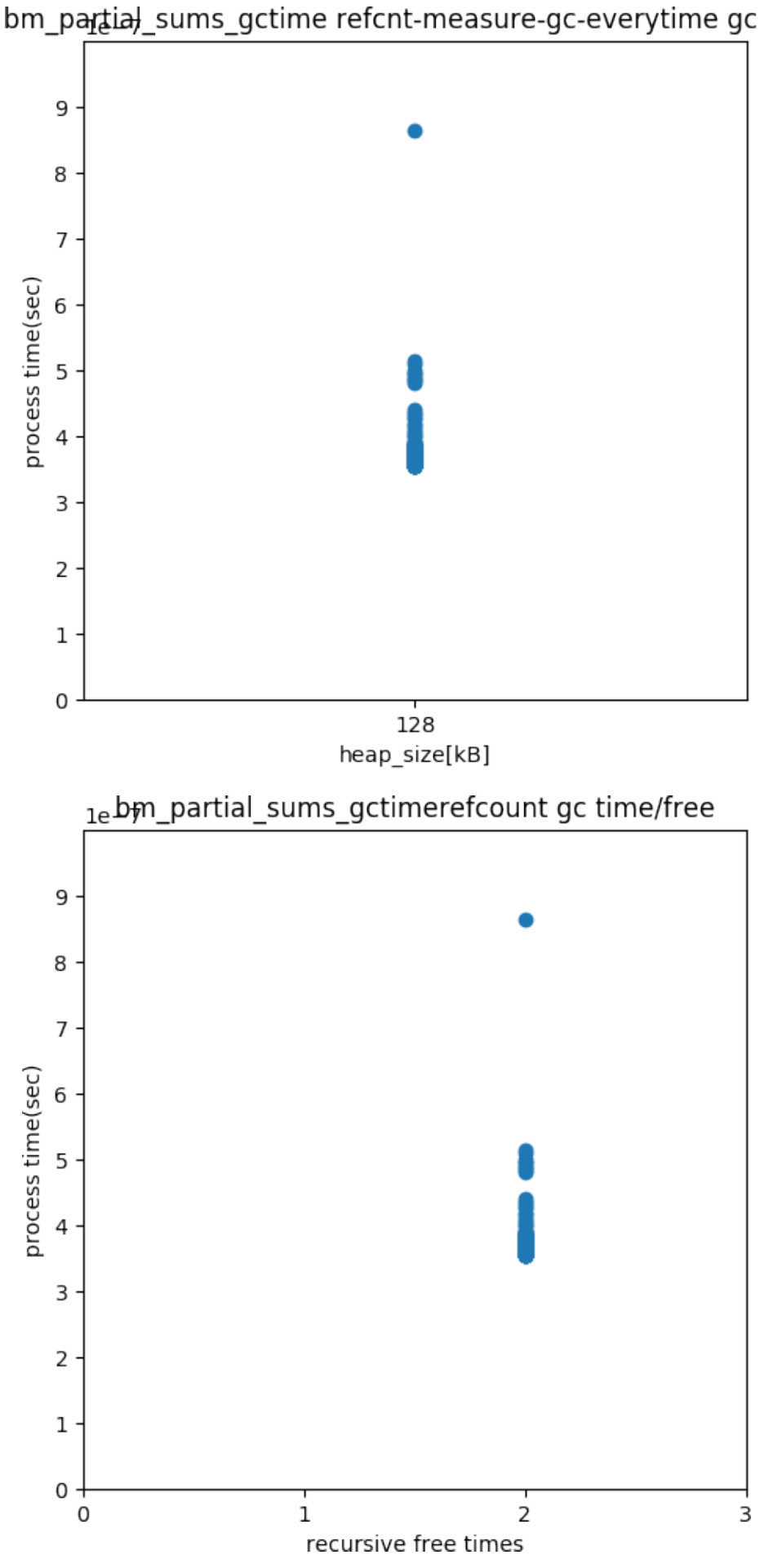

bm_partial_sums_gctime bitmap-marking-gc sweep time
process time(sec)
0.0000027
0.0000024
0.0000021
0.0000018
0.0000015
0.0000012
0.0000009
0.0000006
0.0000003
0.0000000
30
heap_size[kB]

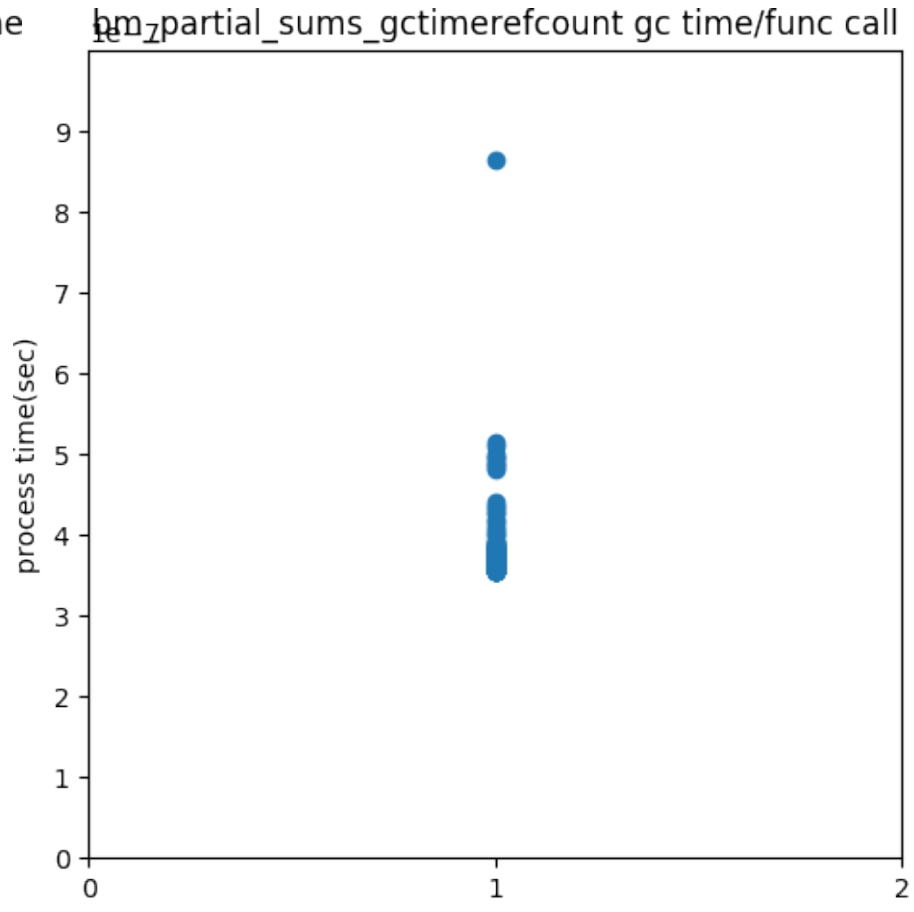
bm_partial_sums_gctime bitmap-marking-gc gc time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
30
heap_size[kB]


bm_partial_sums_gctime marksweep-measure-gc mark time
process time(sec)
0.0000036
0.0000032
0.0000028
0.0000024
0.0000020
0.0000016
0.0000012
0.0000008
0.0000004
0.0000000
30
heap_size[kB]

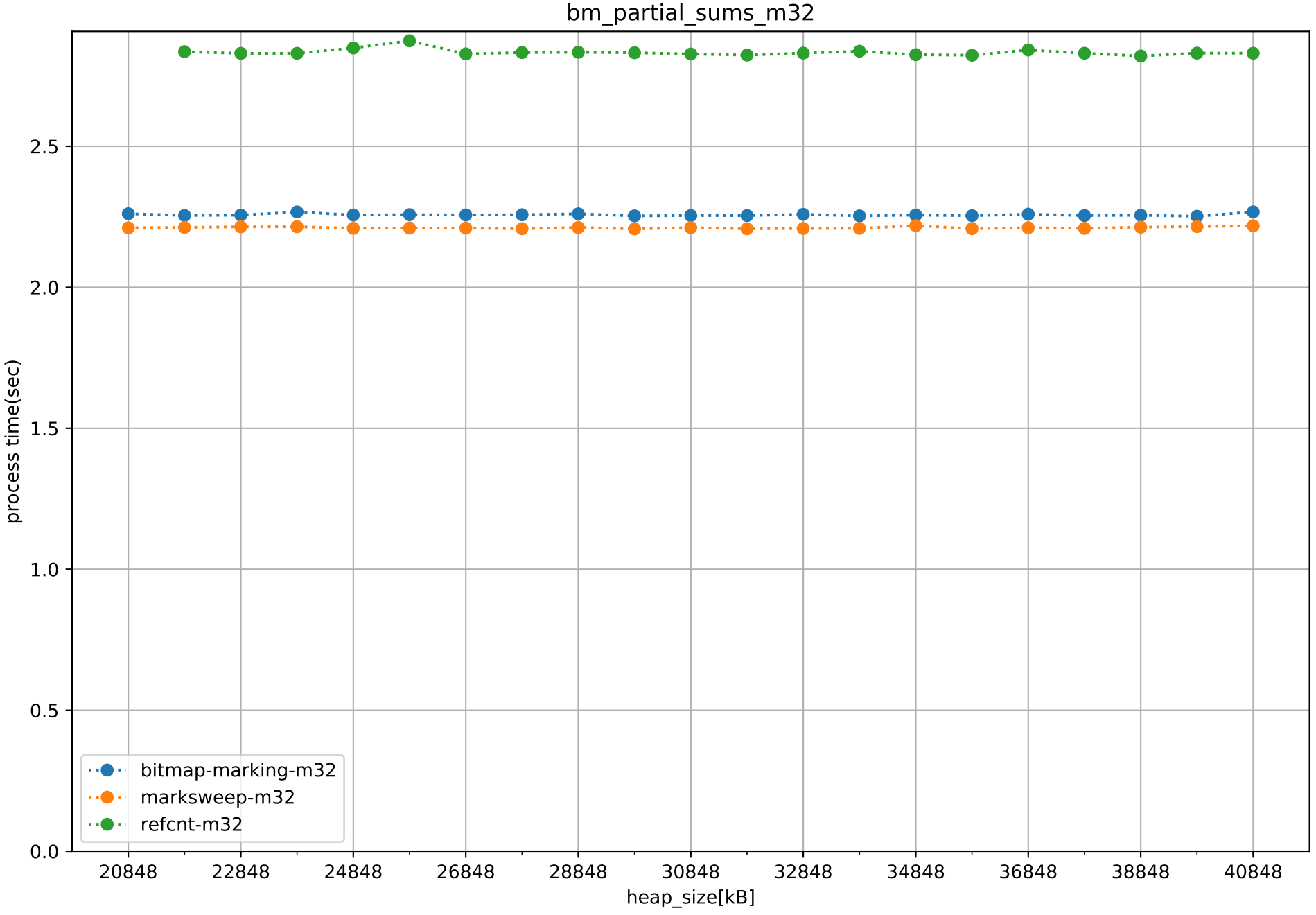

bm_partial_sums_gctime marksweep-measure-gc sweep time
process time(sec)
0.0000027
0.0000024
0.0000021
0.0000018
0.0000015
0.0000012
0.0000009
0.0000006
0.0000003
0.0000000
30
heap_size[kB]

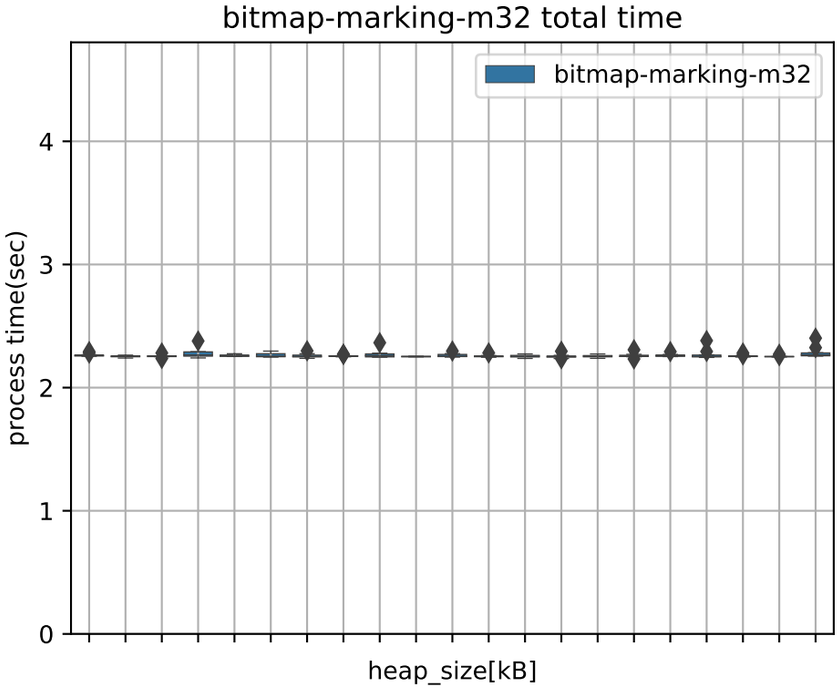
bm_partial_sums_gctime marksweep-measure-gc gc time
process time(sec)
0.0000054
0.0000048
0.0000042
0.0000036
0.0000030
0.0000024
0.0000018
0.0000012
0.0000006
0.0000000
30
heap_size[kB]

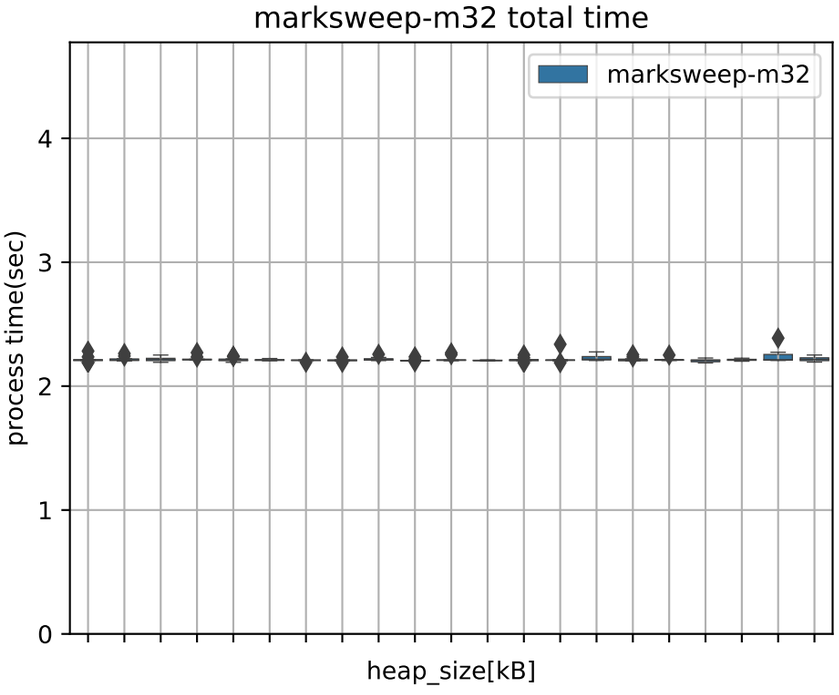

bm_partial_sums_gctime refcnt-measure-gc-everytime gc time
1e7
process time(sec)
heap_size[kB]

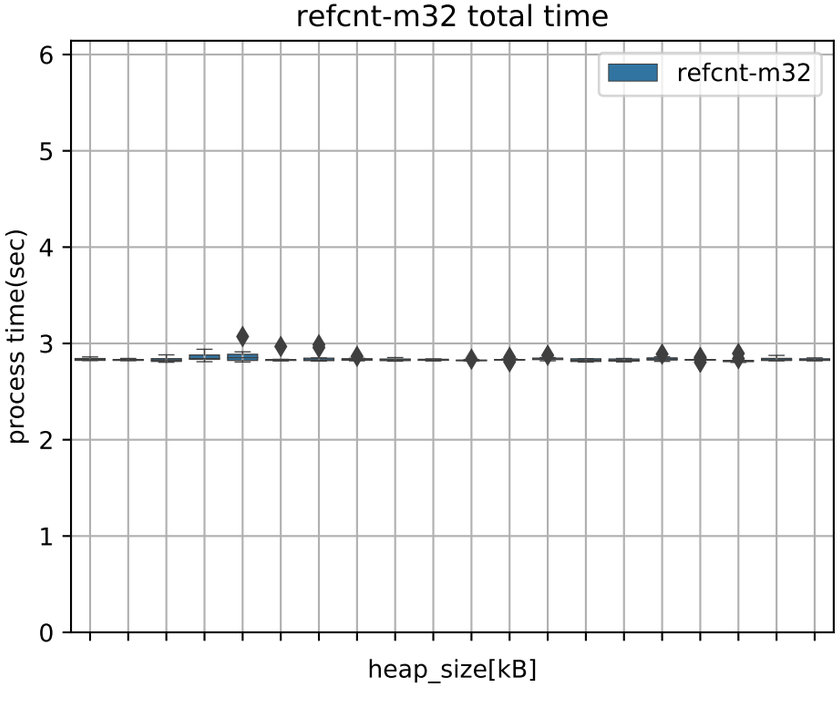

bm_partial_sums_gctimerefcount gc time/func call
1e7
process time(sec)
recursive dec_ref_counter times

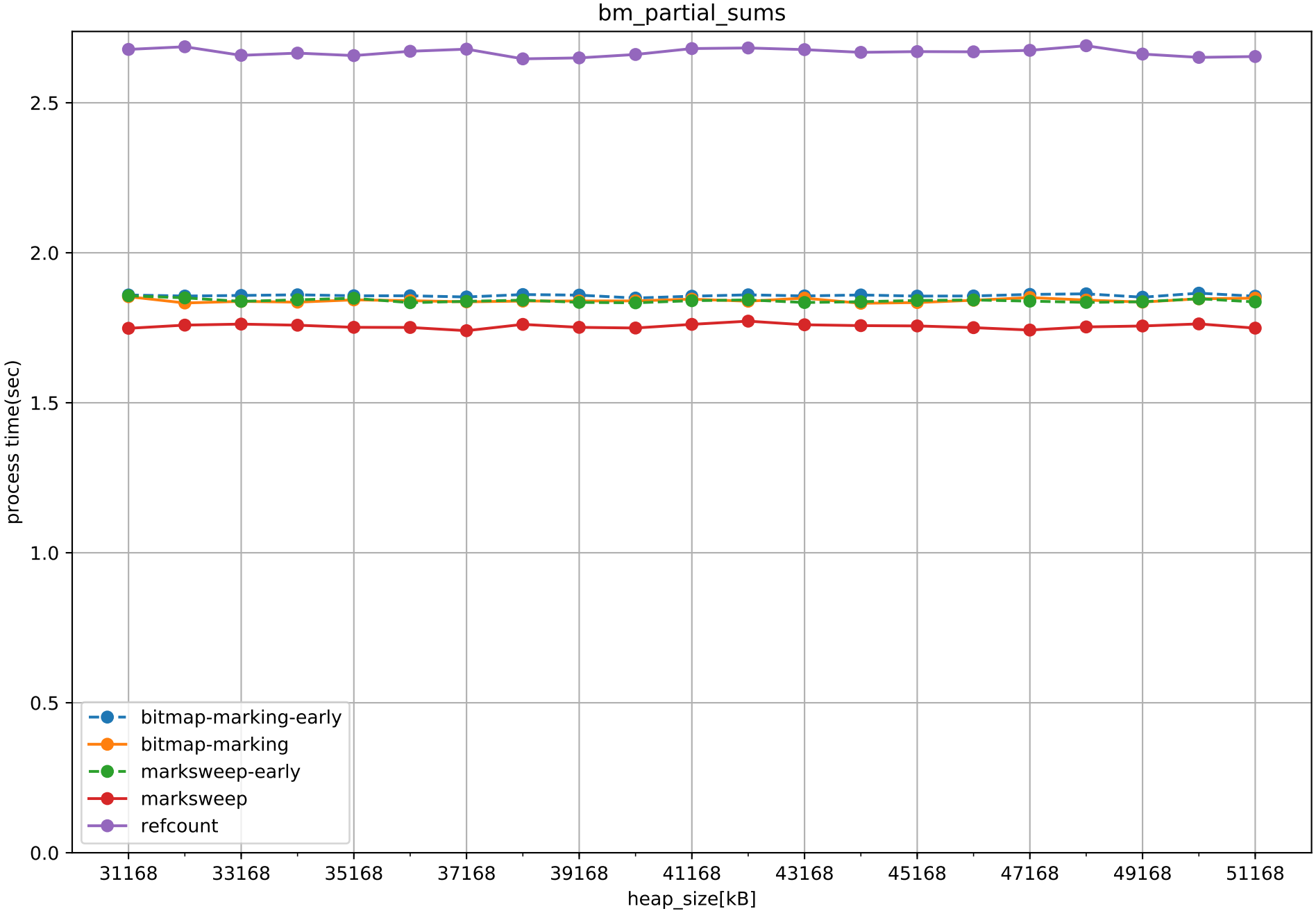
bm_partial_sums_gctimerefcount gc time/free
1e7
process time(sec)
recursive free times

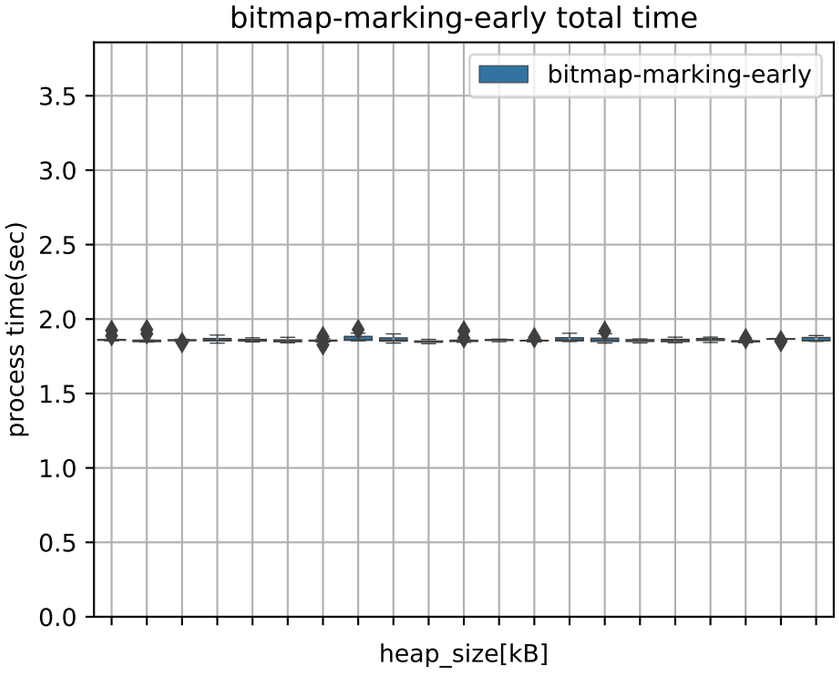

bm_partial_sums_m32
process time(sec)
0.0
0.5
1.0
1.5
2.0
2.5
20848
22848
24848
26848
28848
30848
32848
34848
36848
38848
40848
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

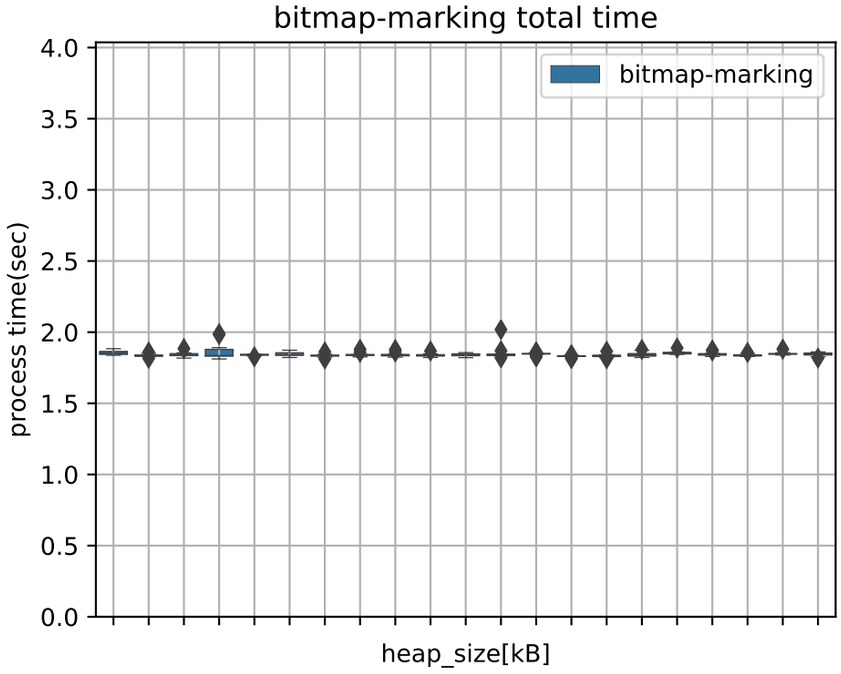

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0
1
2
3
4

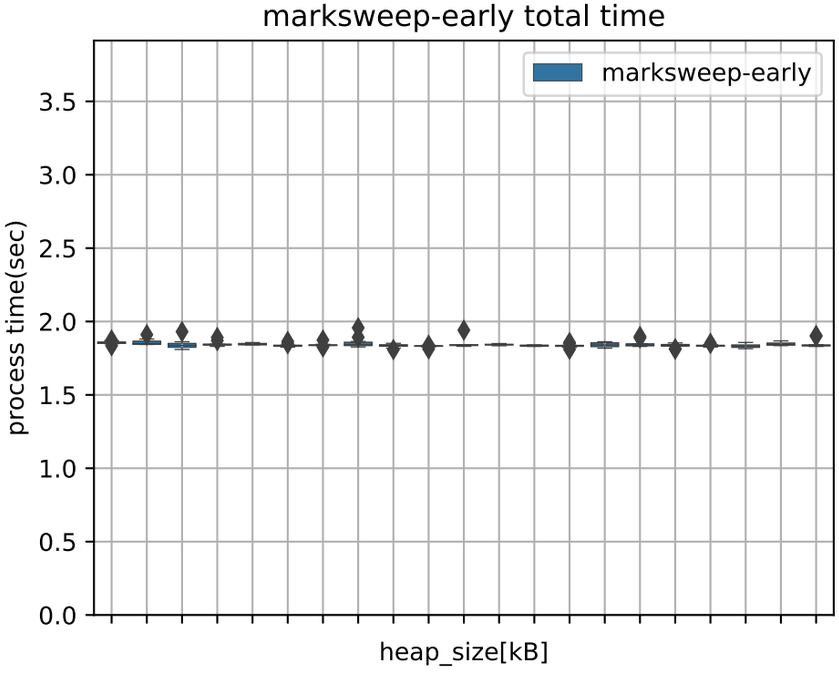

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0
1
2
3
4

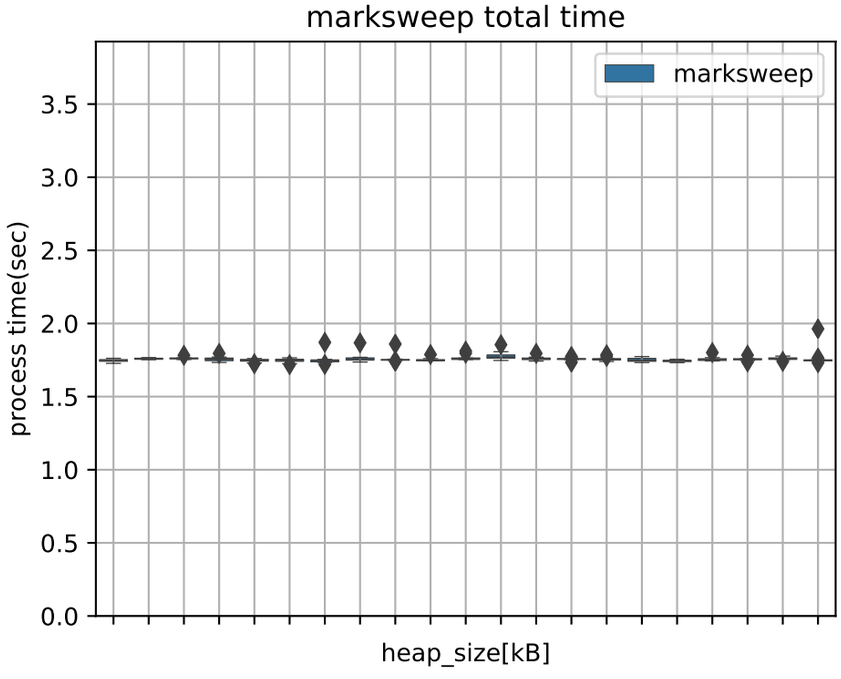

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0
1
2
3
4
5
6

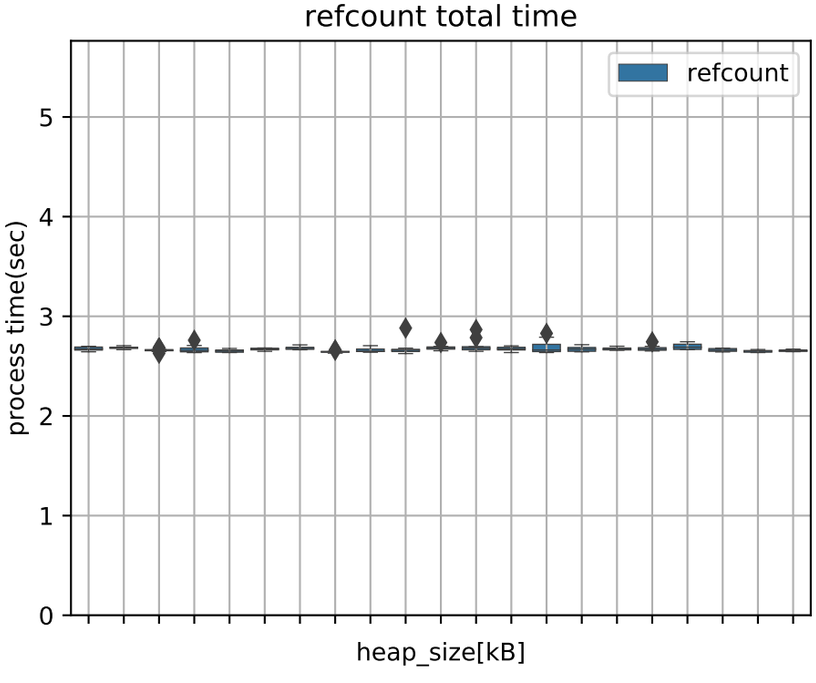

bm_partial_sums
process time(sec)
0.0
0.5
1.0
1.5
2.0
2.5
31168
33168
35168
37168
39168
41168
43168
45168
47168
49168
51168
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

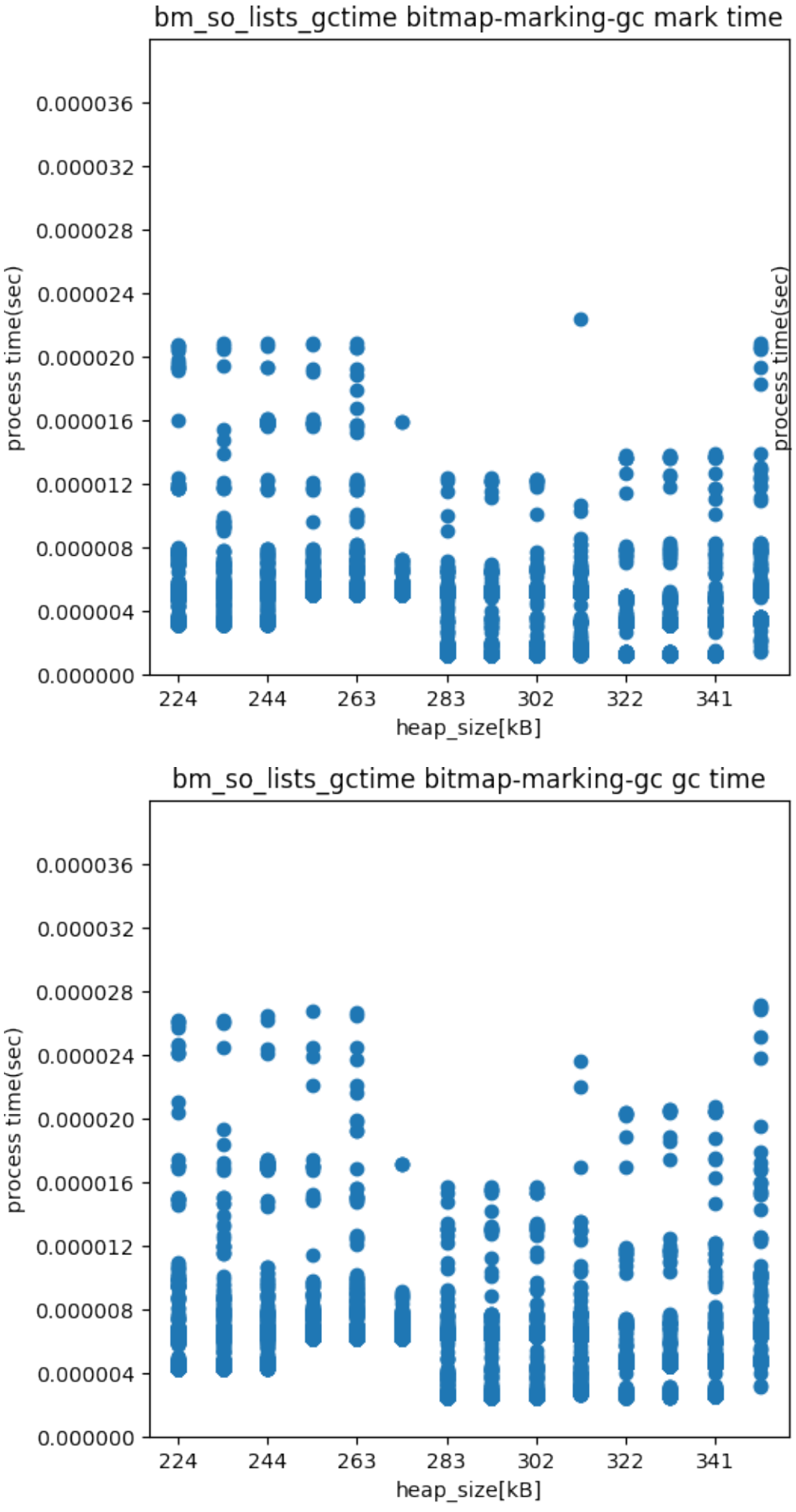

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

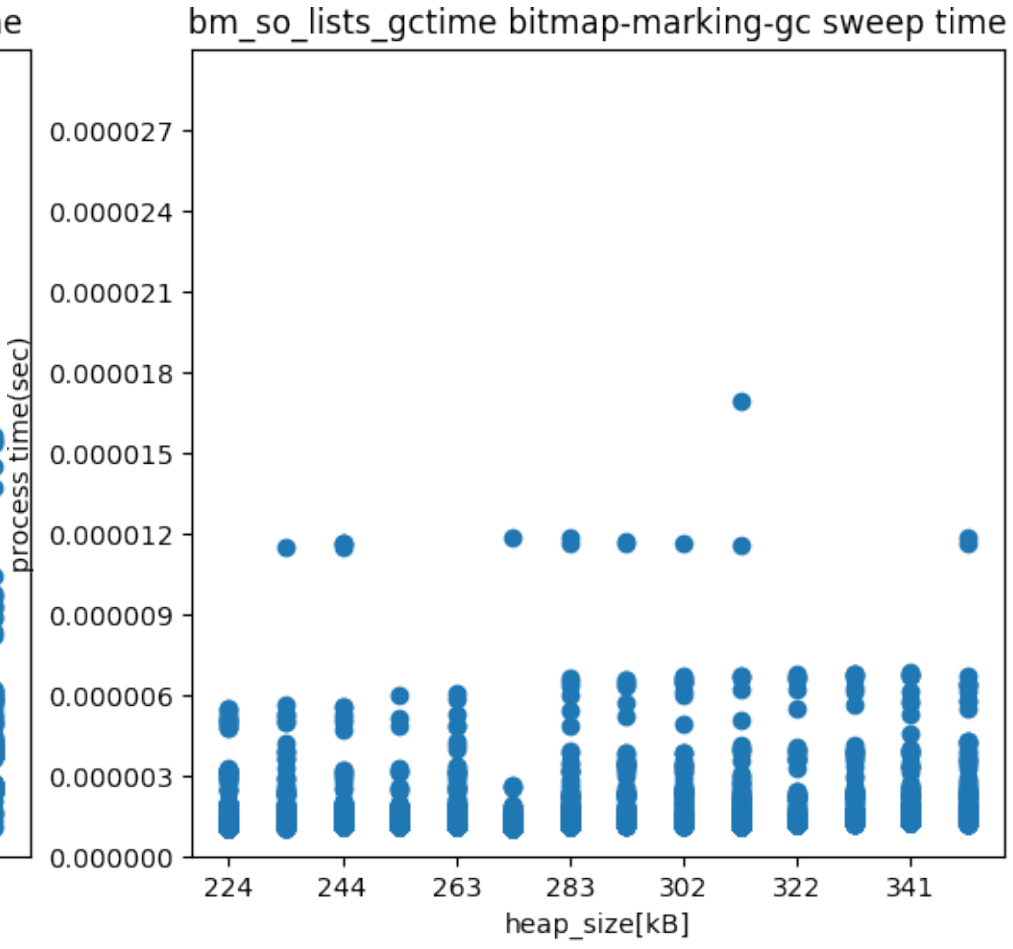

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

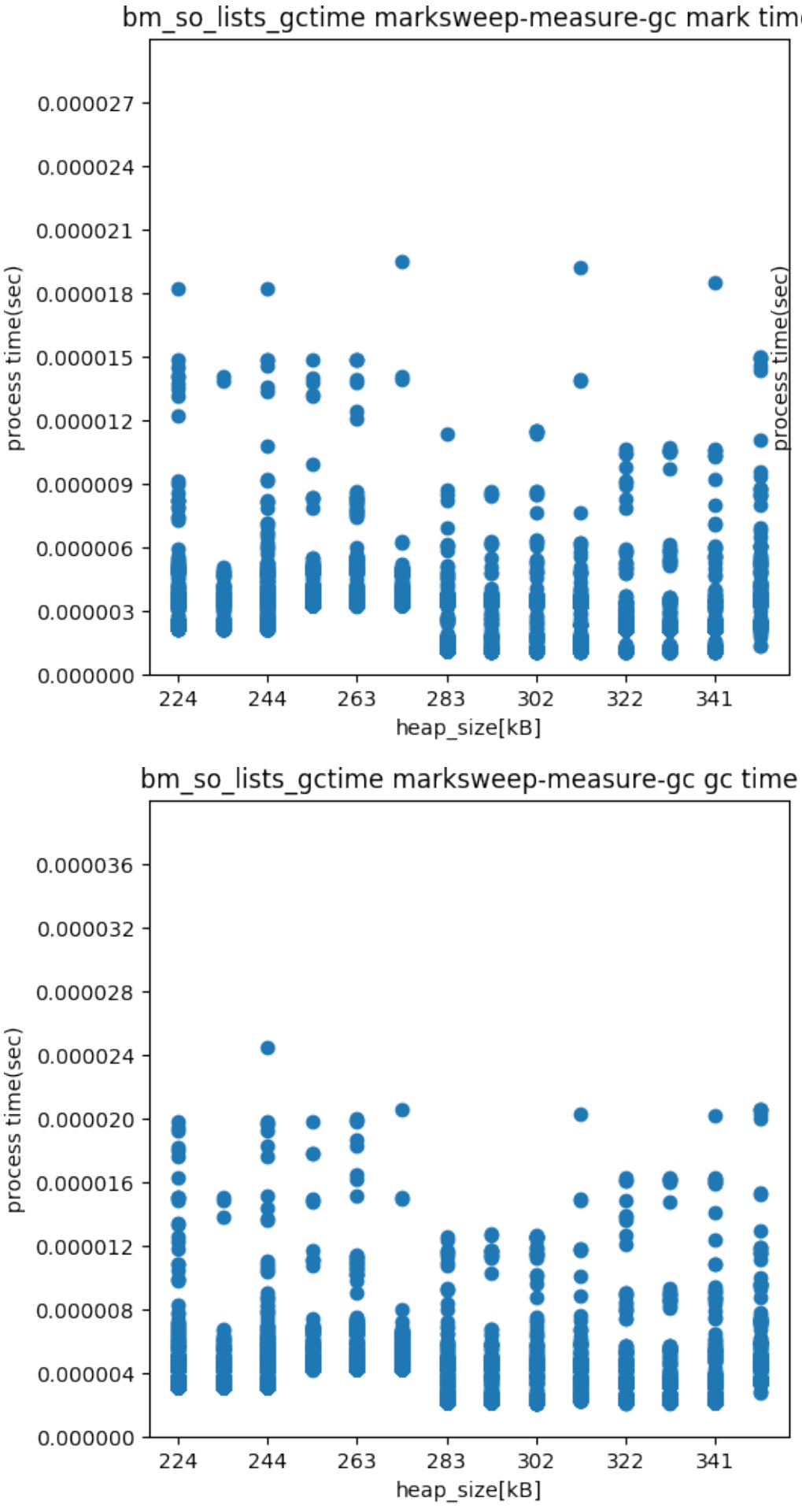

marksweep total time
marksweep
process time(sec)
heap_size[kB]

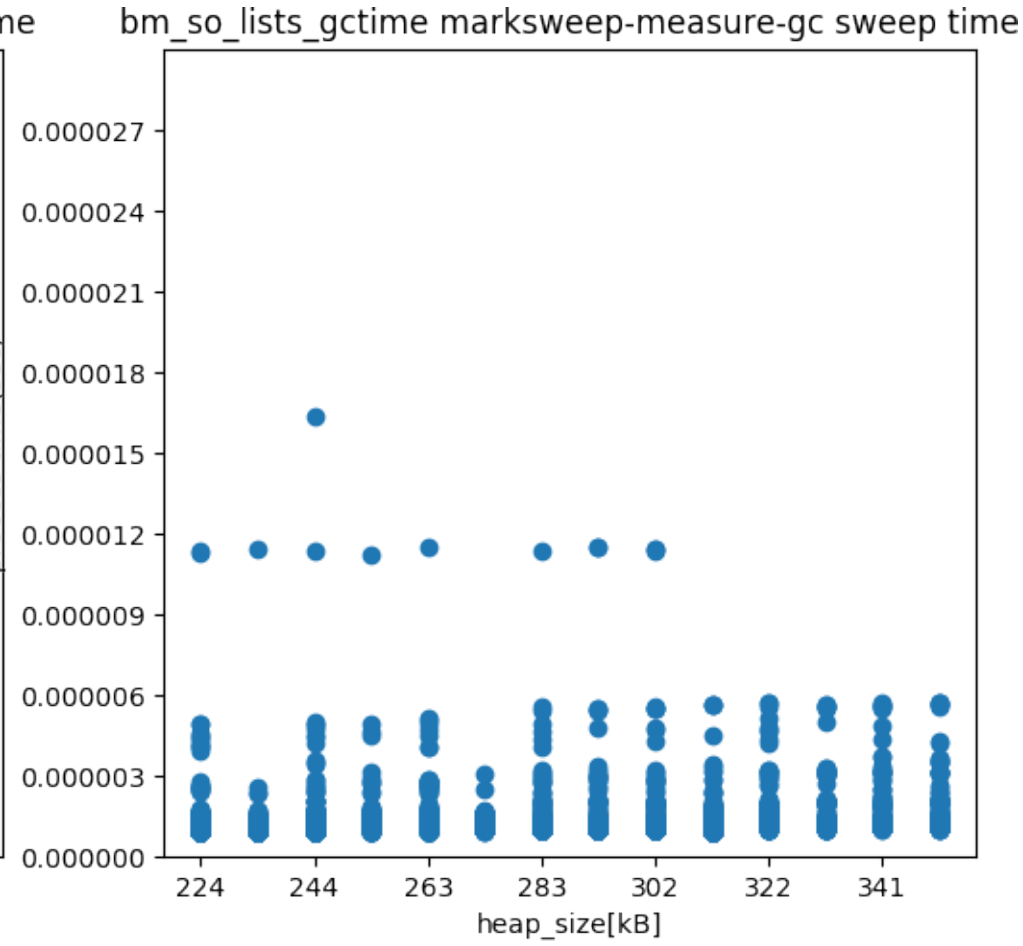

refcount total time
refcount
process time(sec)
heap_size[kB]


bm_so_lists_gctime bitmap-marking-gc mark time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
224
244
263
283
302
322
341
heap_size[kB]

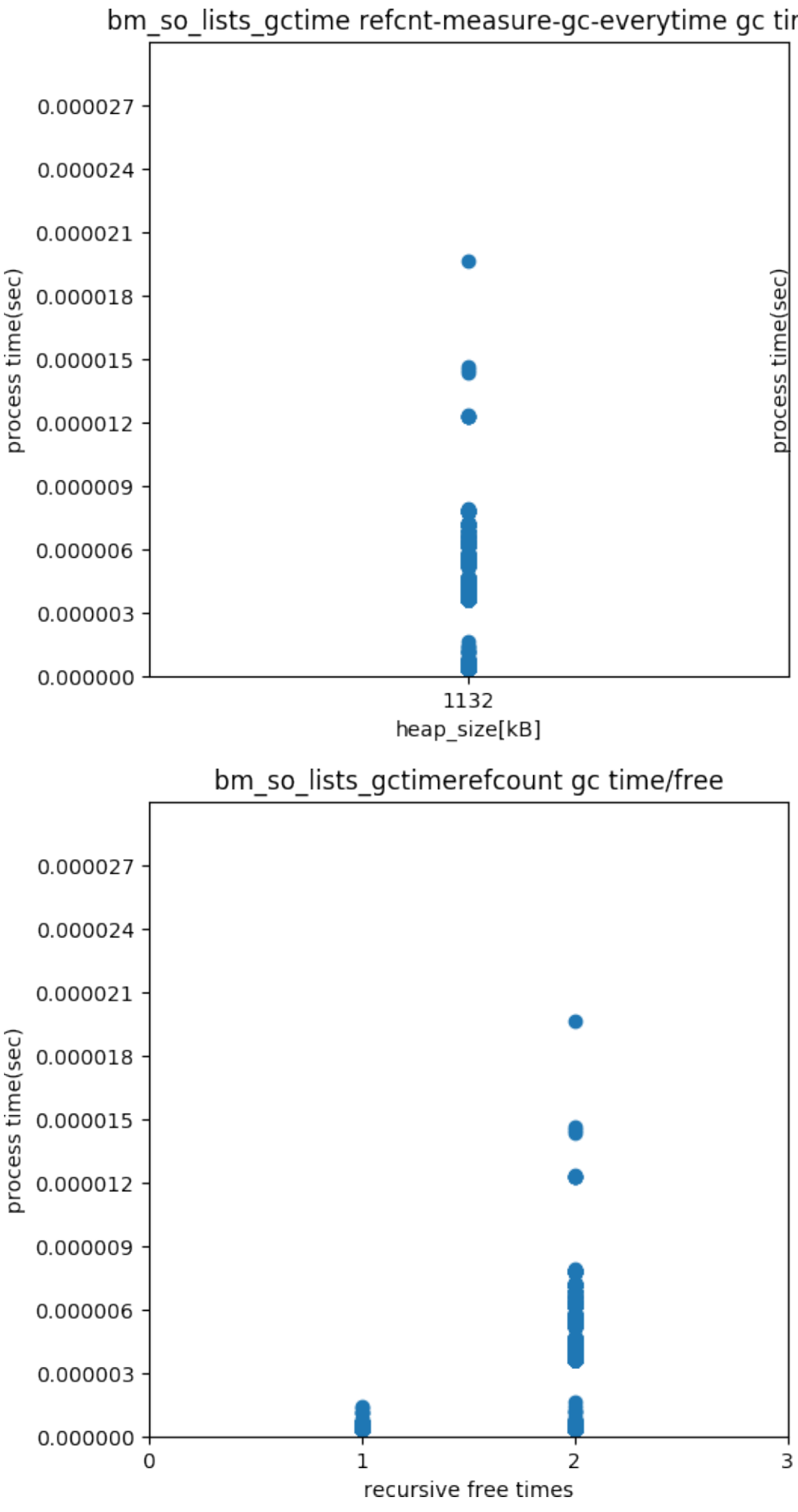

bm_so_lists_gctime bitmap-marking-gc sweep time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
224
244
263
283
302
322
341
heap_size[kB]

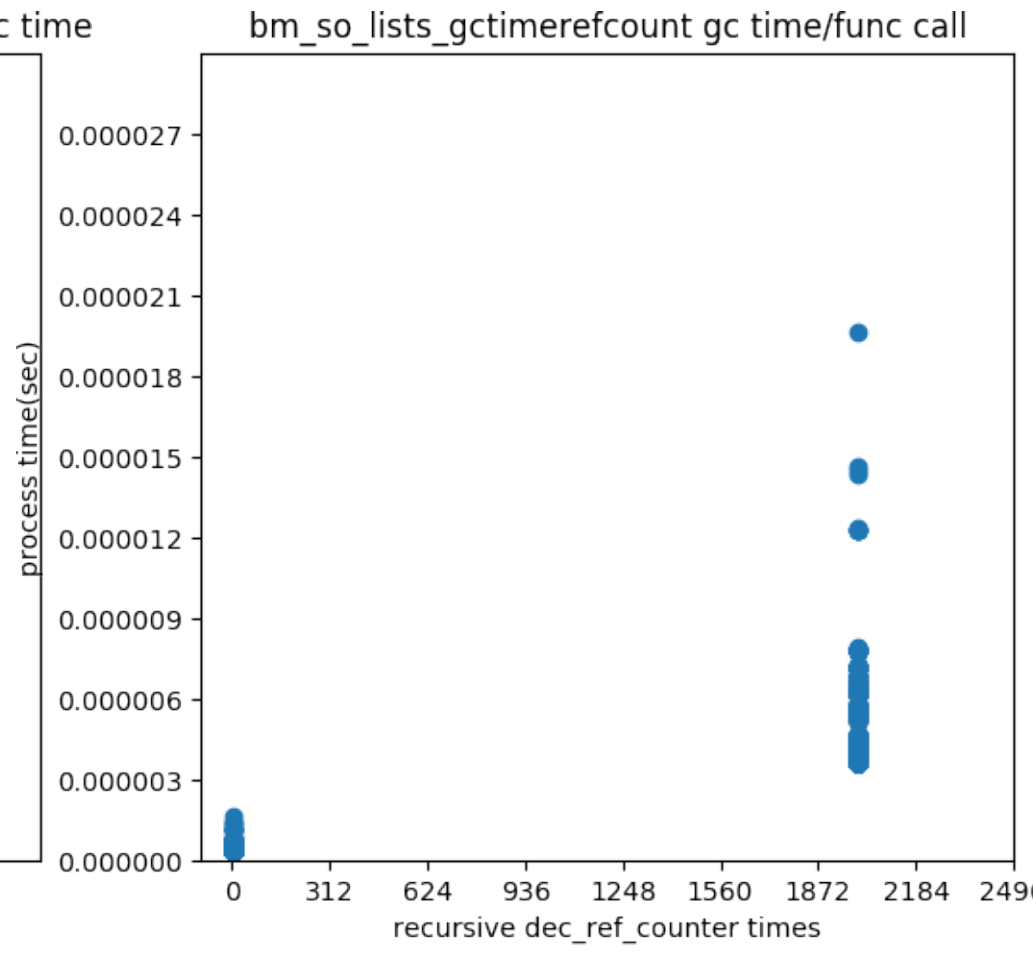
bm_so_lists_gctime bitmap-marking-gc gc time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
224
244
263
283
302
322
341
heap_size[kB]


bm_so_lists_gctime marksweep-measure-gc mark time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
224
244
263
283
302
322
341
heap_size[kB]

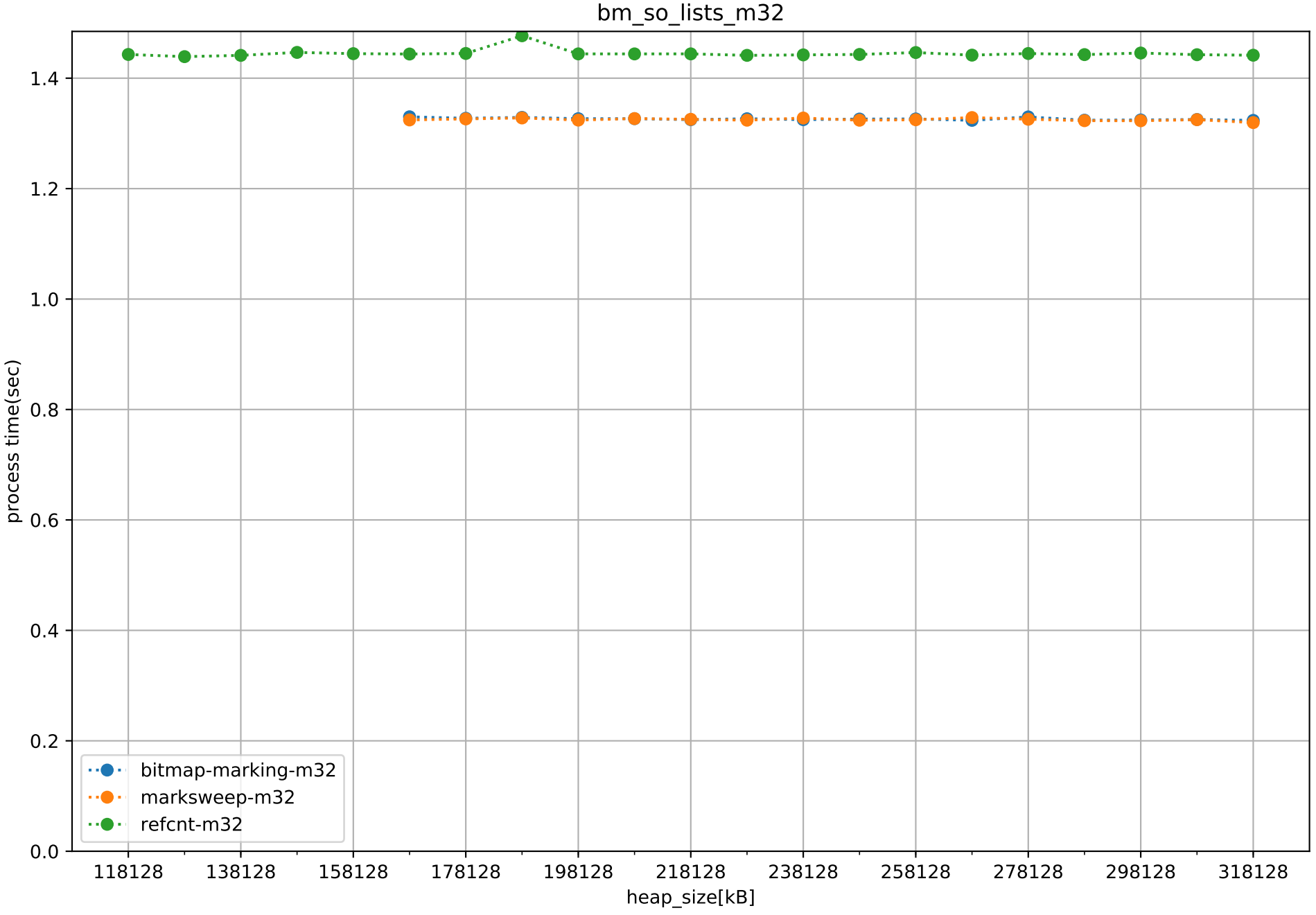

bm_so_lists_gctime marksweep-measure-gc sweep time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
224
244
263
283
302
322
341
heap_size[kB]

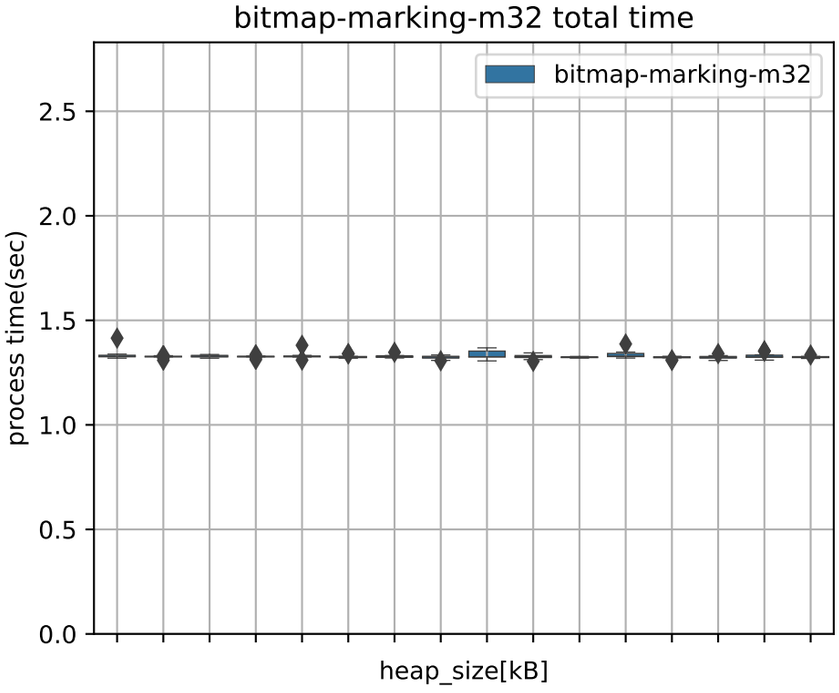
bm_so_lists_gctime marksweep-measure-gc gc time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
224
244
263
283
302
322
341
heap_size[kB]

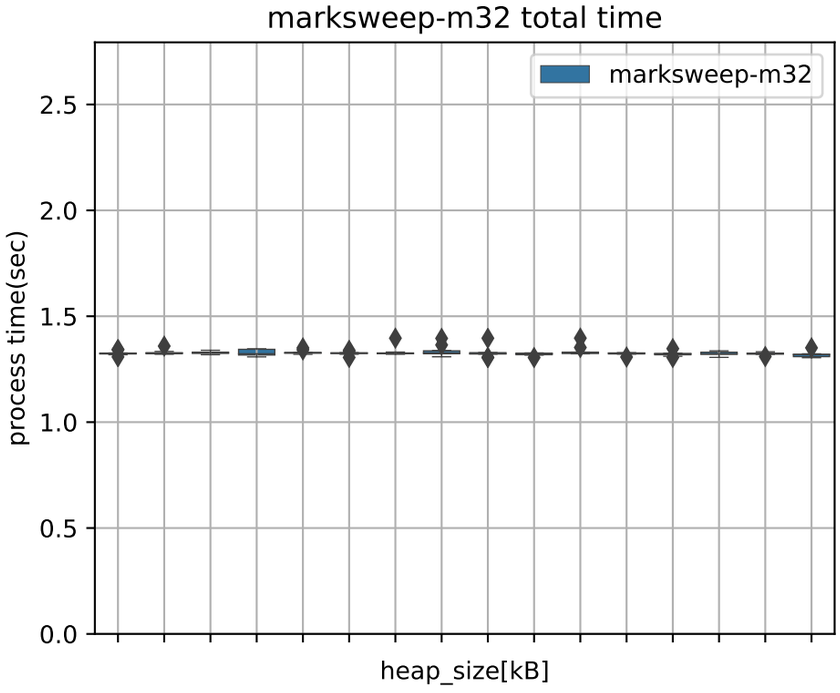

bm_so_lists_gctime refcnt-measure-gc-everytime gc time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
1132
heap_size[kB]

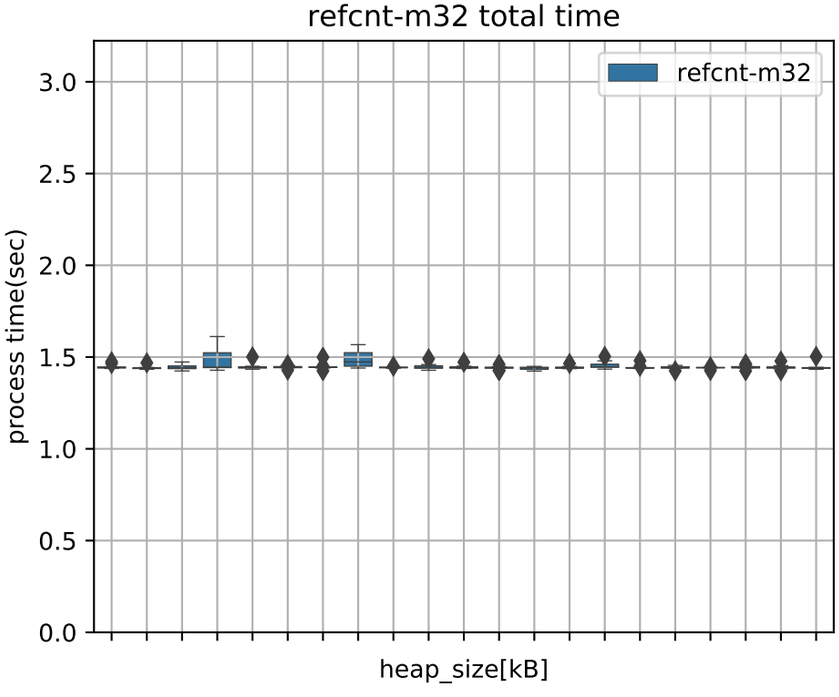

bm_so_lists_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
312
624
936
1248
1560
1872
2184
2496
recursive dec_ref_counter times

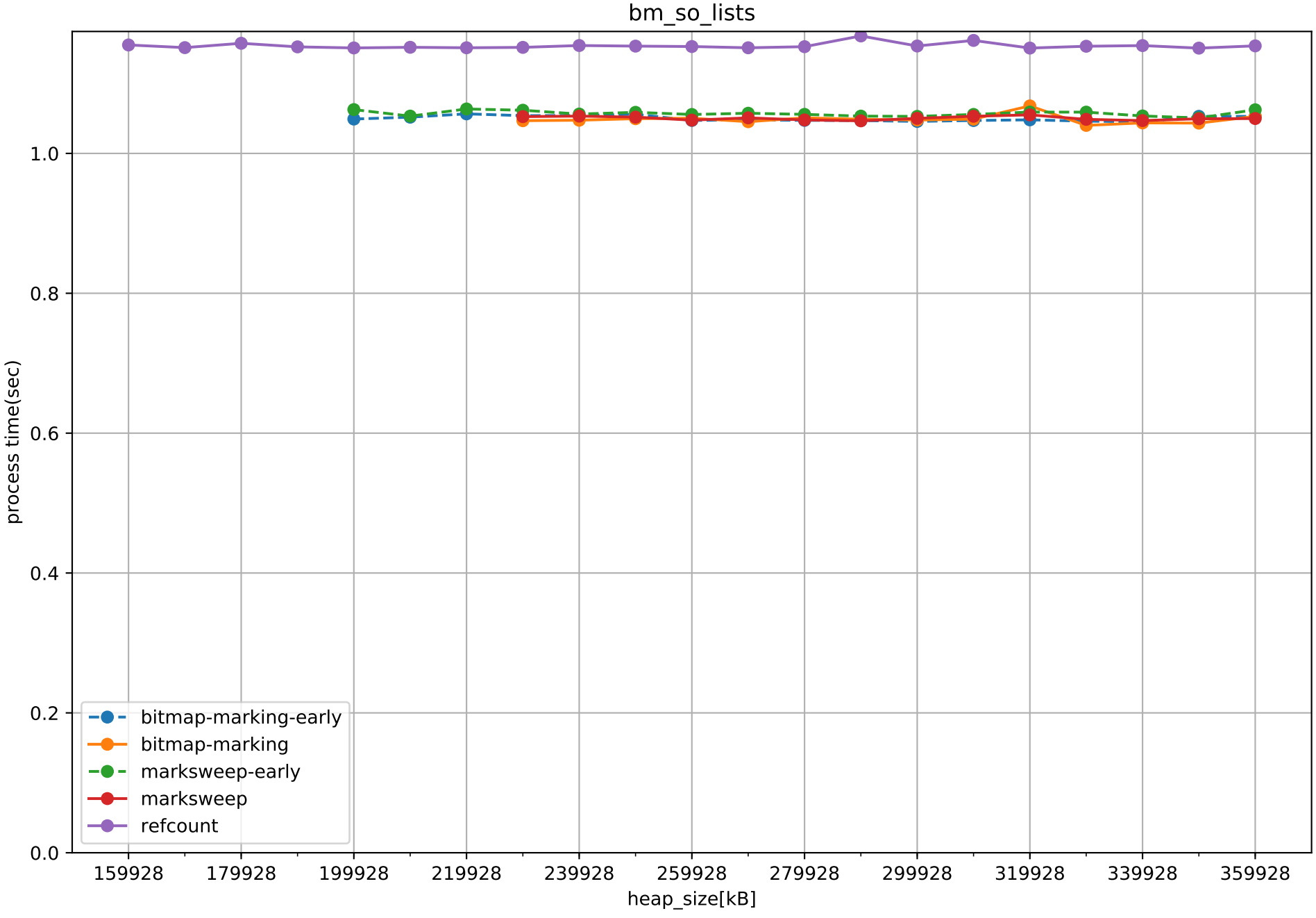
bm_so_lists_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
1
2
3
recursive free times

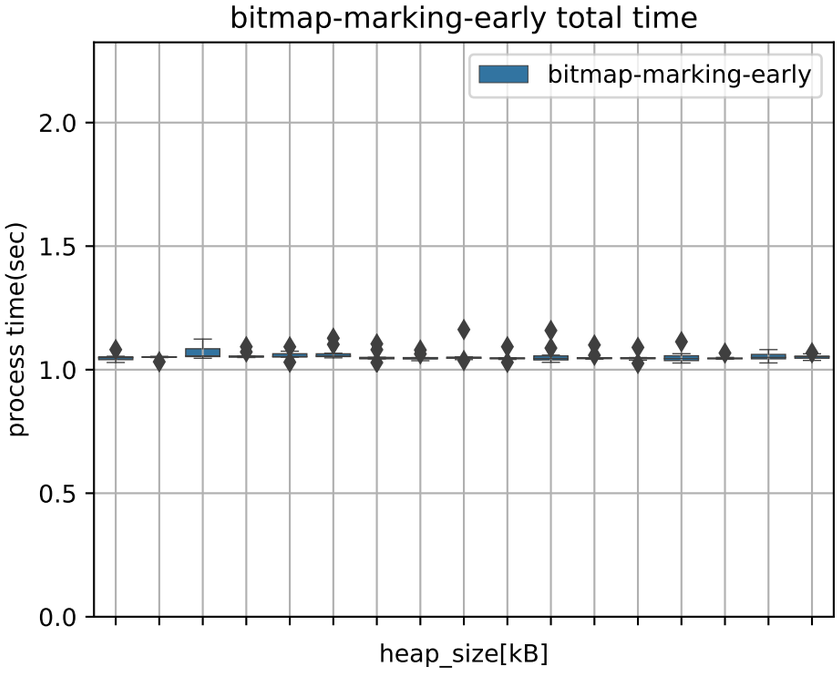

bm_so_lists_m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
118128
138128
158128
178128
198128
218128
238128
258128
278128
298128
318128
bitmap-marking-m32
marksweep-m32
refcnt-m32

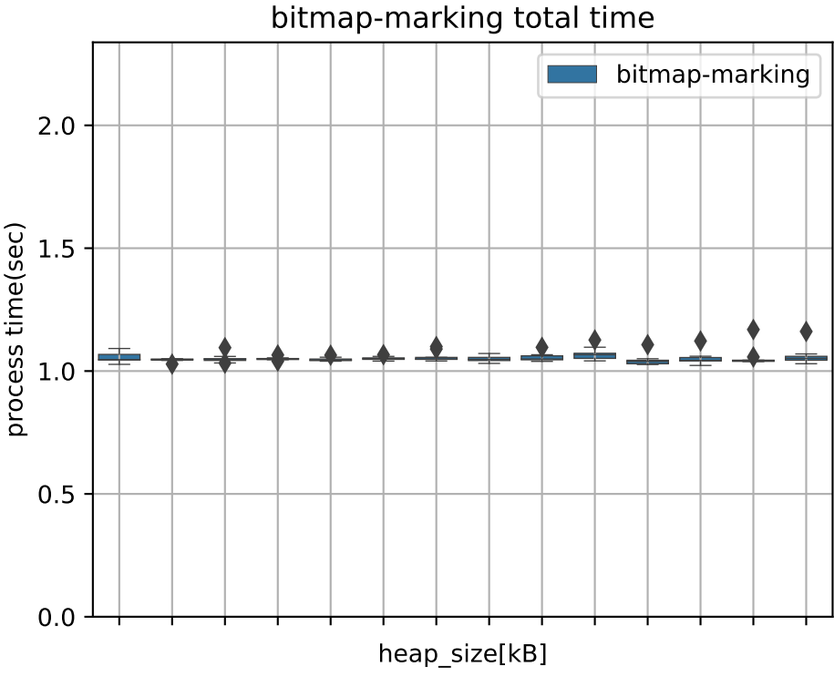

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0
2.5

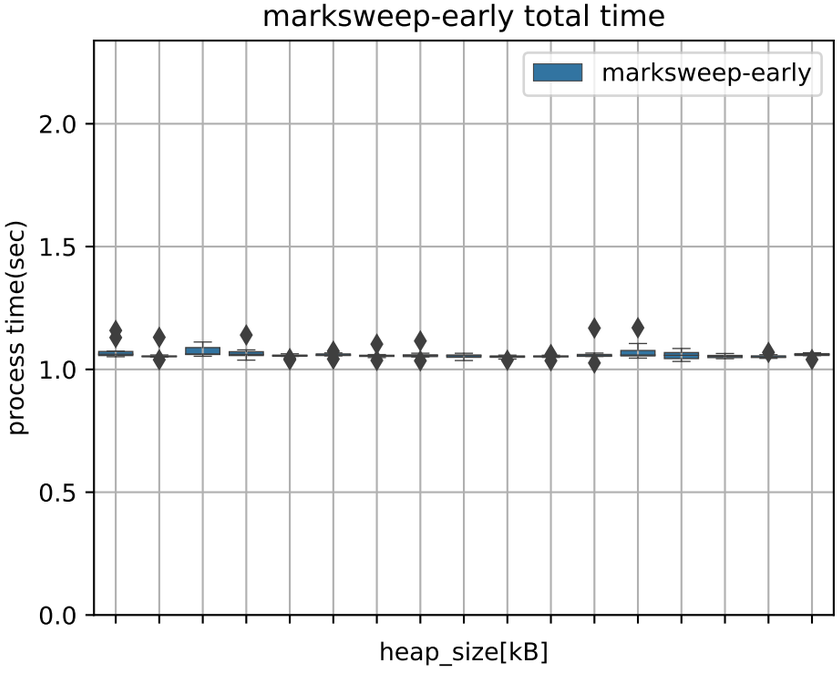

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0
2.5

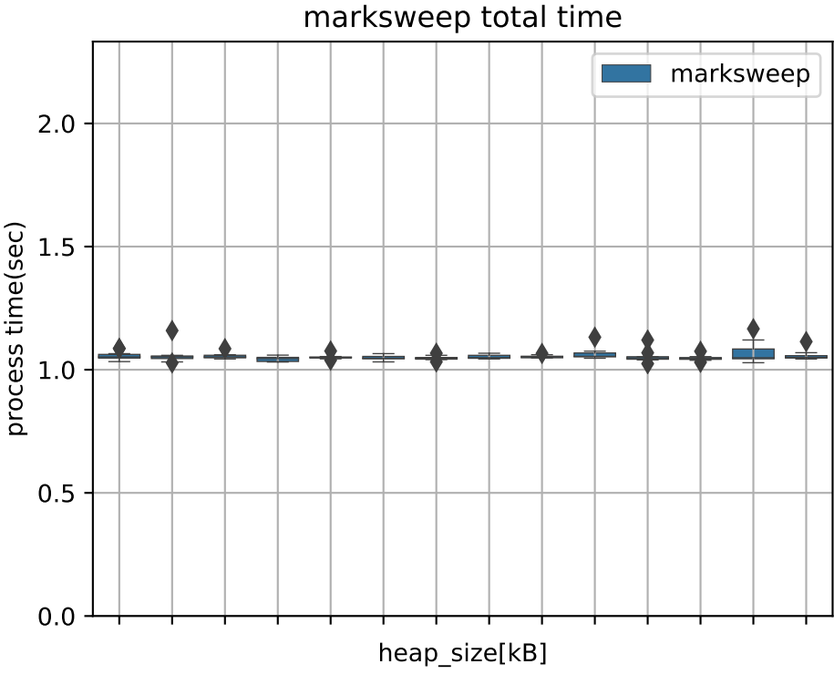

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0
2.5
3.0

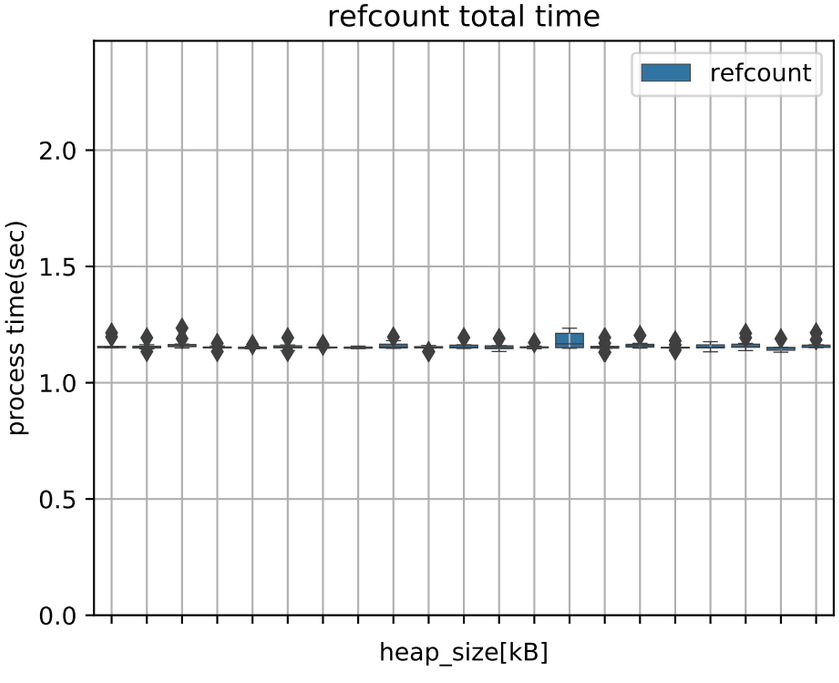

bm_so_lists
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
159928
179928
199928
219928
239928
259928
279928
299928
319928
339928
359928
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

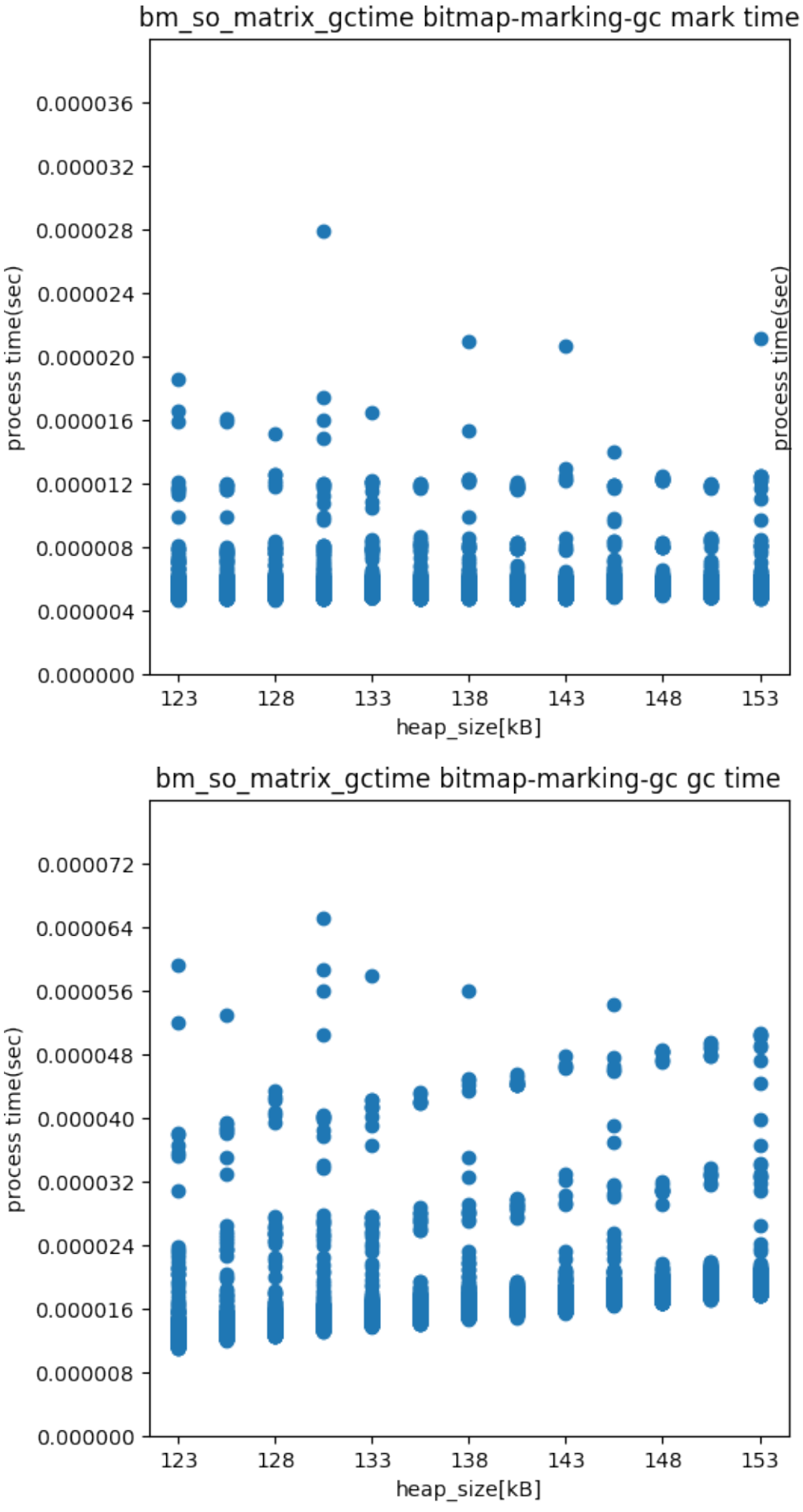

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0

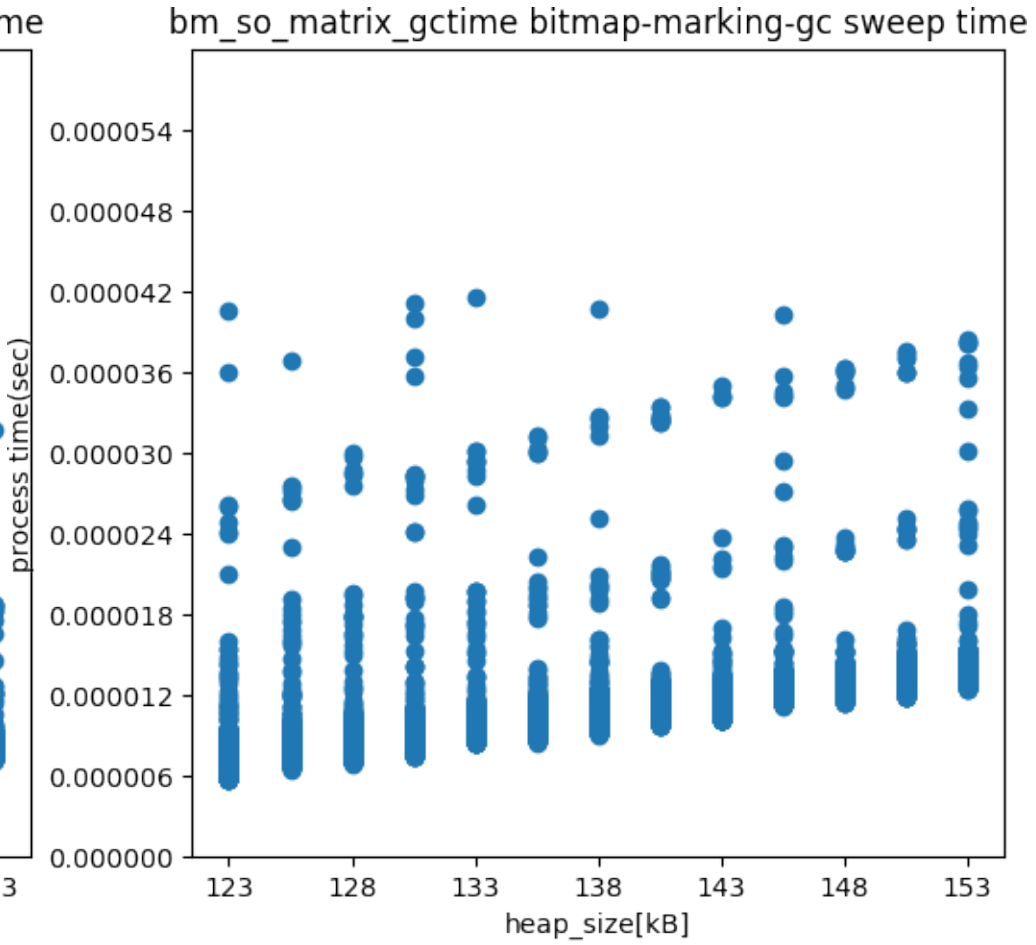

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0


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

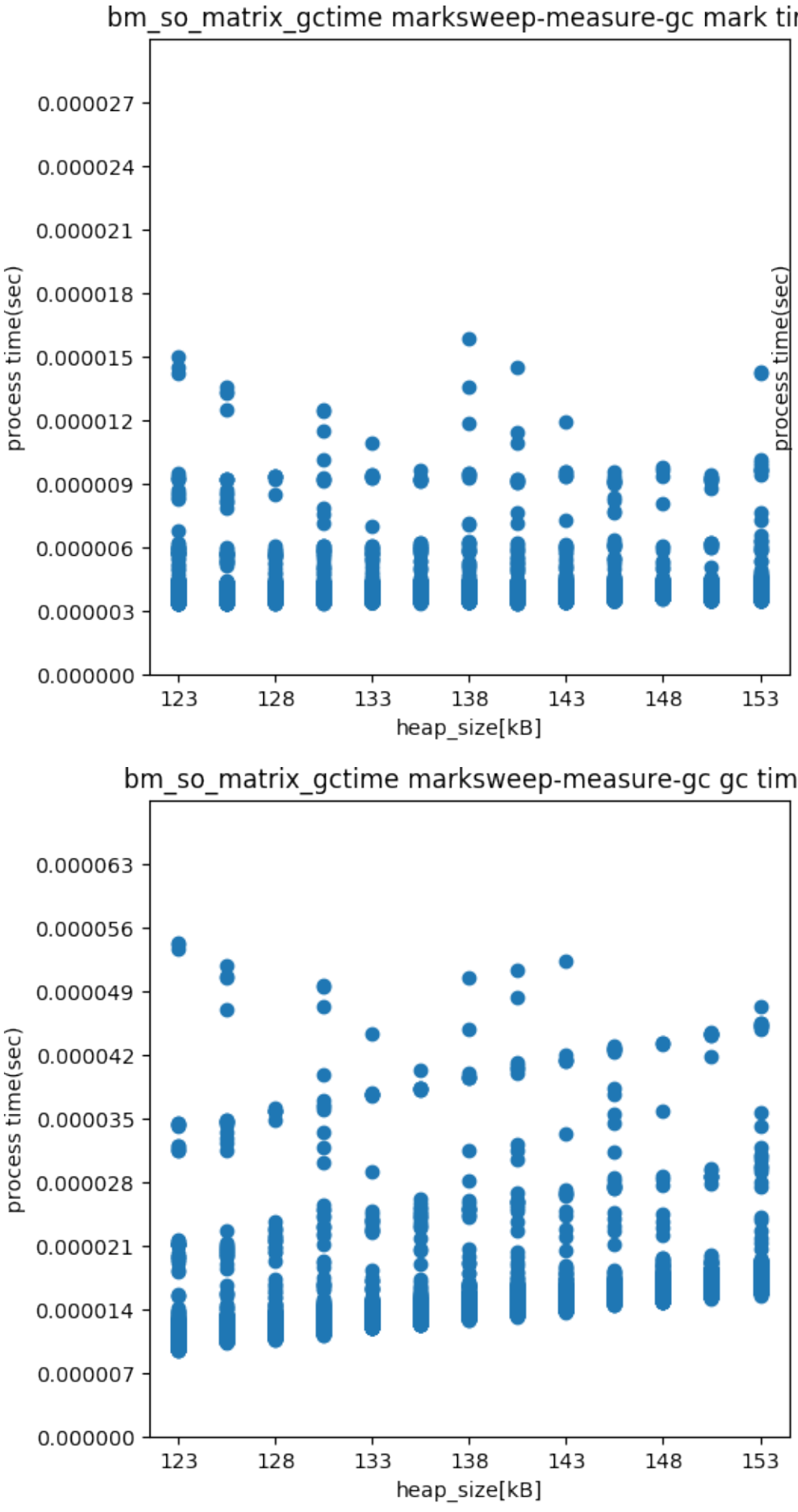

marksweep total time
marksweep
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0

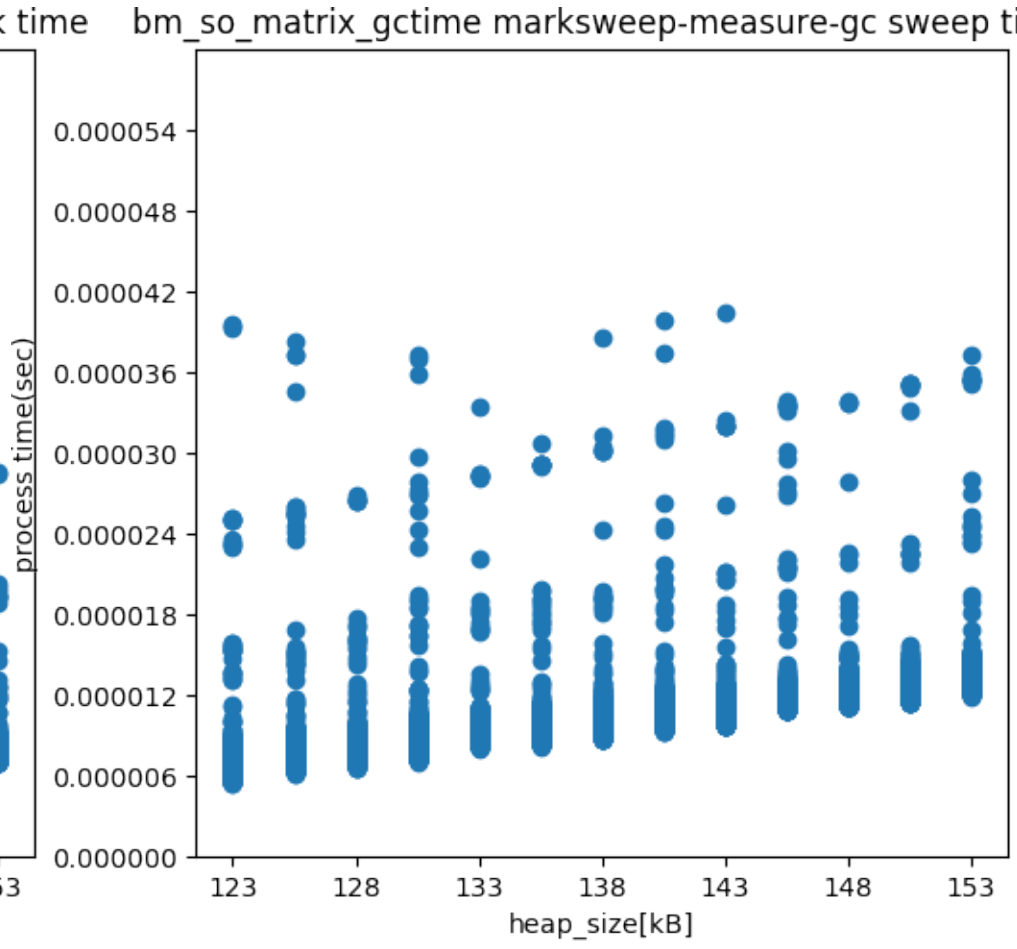

refcount total time
refcount
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0


bm_so_matrix_gctime bitmap-marking-gc mark time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
123
128
133
138
143
148
153
heap_size[kB]

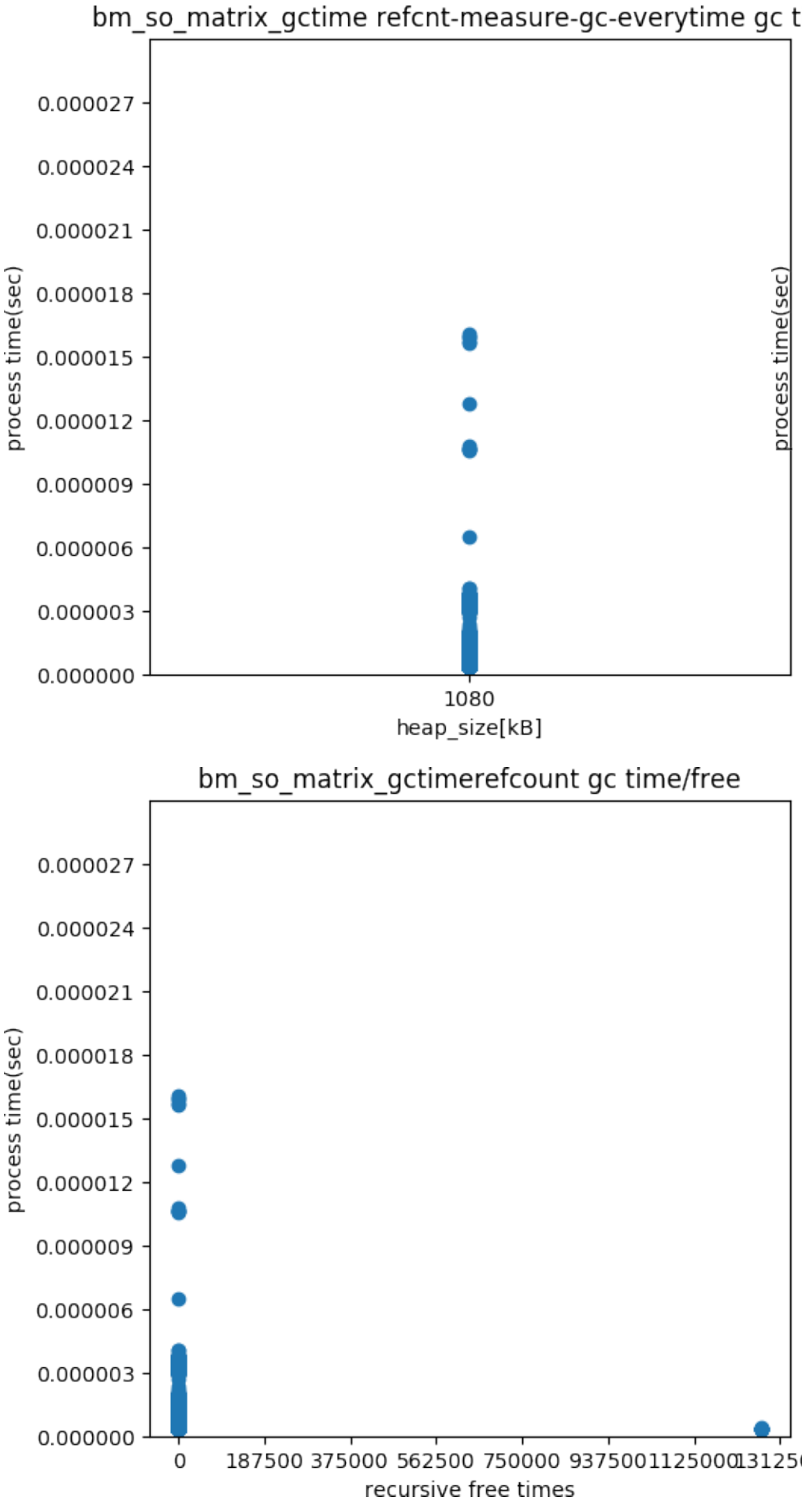

bm_so_matrix_gctime bitmap-marking-gc sweep time
process time(sec)
0.000054
0.000048
0.000042
0.000036
0.000030
0.000024
0.000018
0.000012
0.000006
0.000000
123
128
133
138
143
148
153
heap_size[kB]

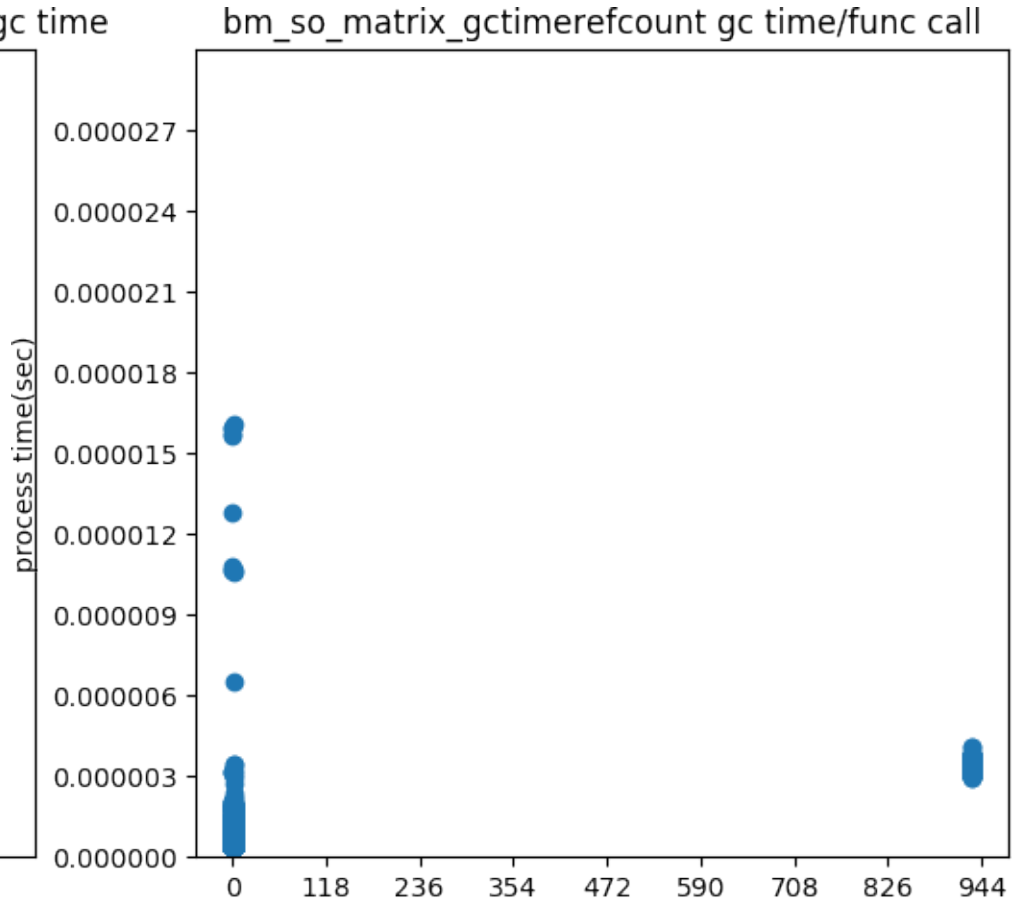
bm_so_matrix_gctime bitmap-marking-gc gc time
process time(sec)
0.000072
0.000064
0.000056
0.000048
0.000040
0.000032
0.000024
0.000016
0.000008
0.000000
123
128
133
138
143
148
153
heap_size[kB]


bm_so_matrix_gctime marksweep-measure-gc mark time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
123
128
133
138
143
148
153
heap_size[kB]

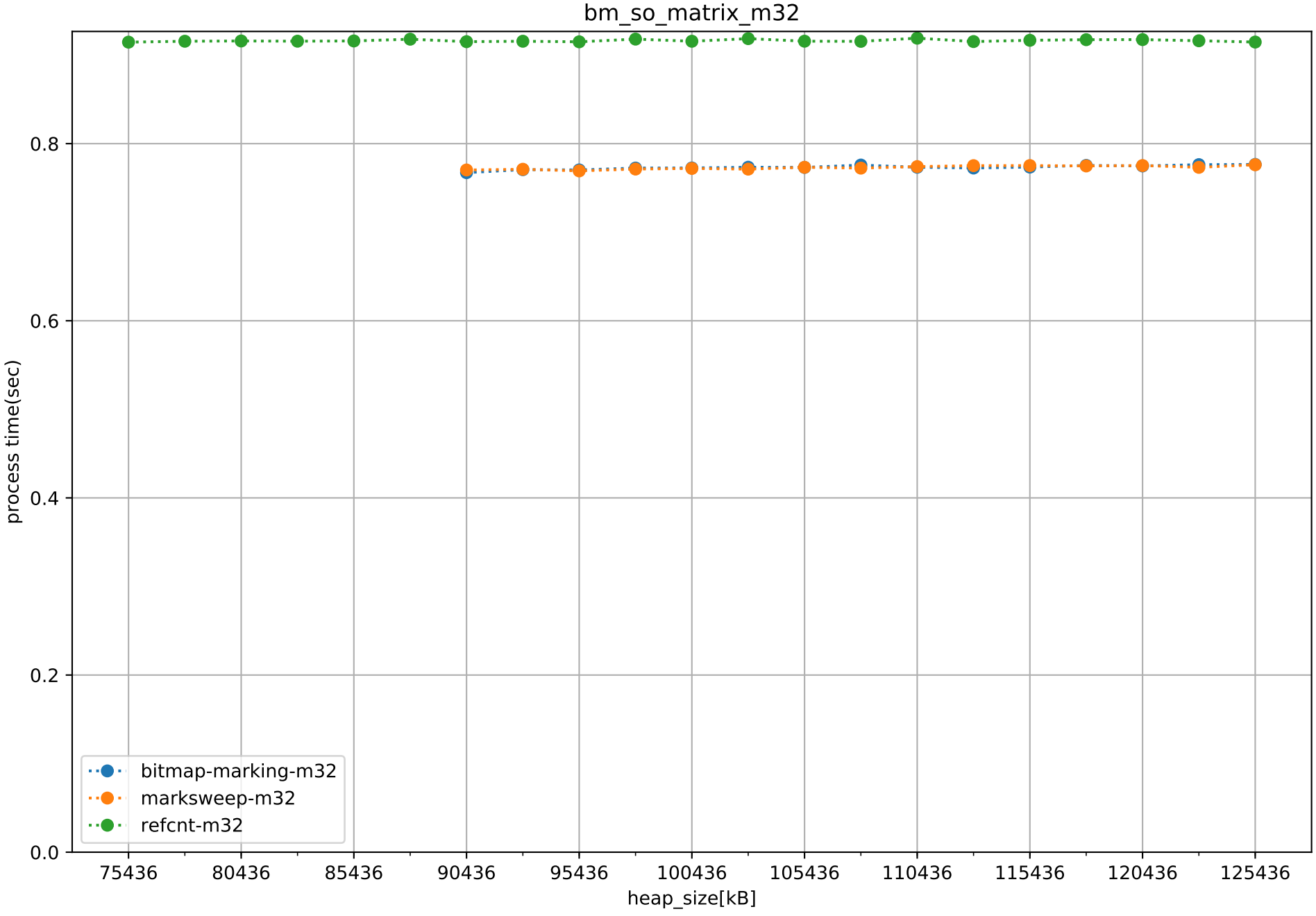

bm_so_matrix_gctime marksweep-measure-gc sweep time
process time(sec)
0.000054
0.000048
0.000042
0.000036
0.000030
0.000024
0.000018
0.000012
0.000006
0.000000
123
128
133
138
143
148
153
heap_size[kB]

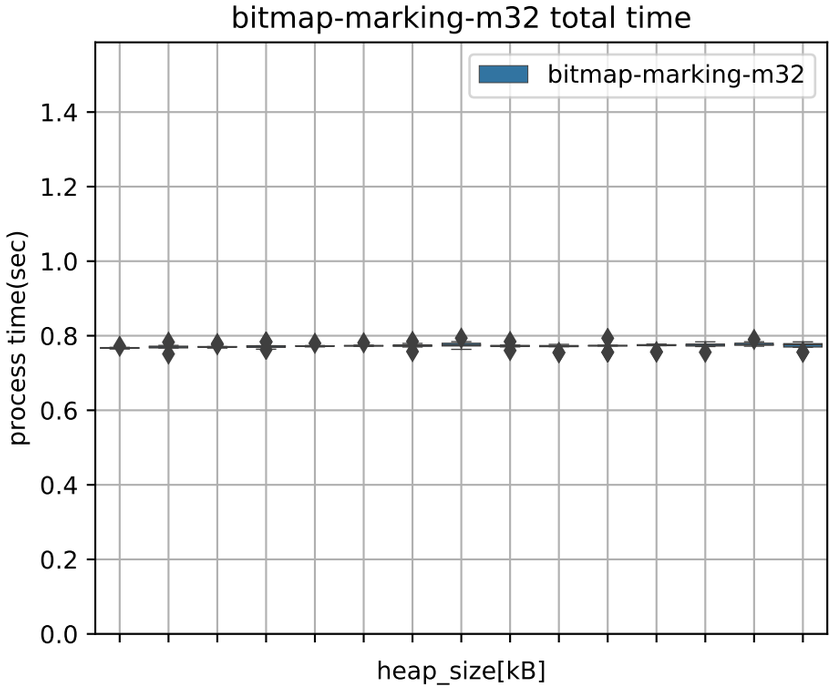
bm_so_matrix_gctime marksweep-measure-gc gc time
process time(sec)
0.000063
0.000056
0.000049
0.000042
0.000035
0.000028
0.000021
0.000014
0.000007
0.000000
123
128
133
138
143
148
153
heap_size[kB]

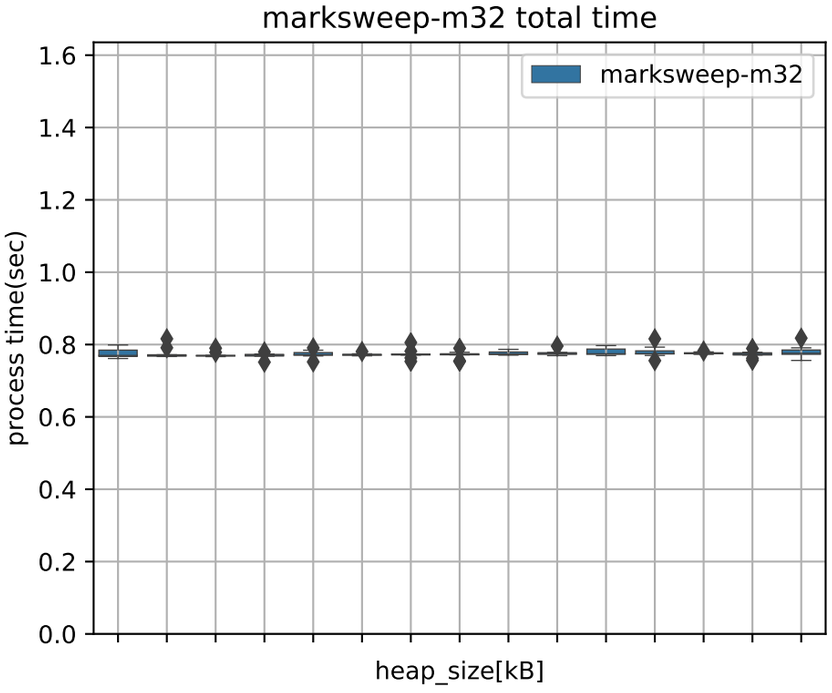

bm_so_matrix_gctime refcnt-measure-gc-everytime gc time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
1080
heap_size[kB]

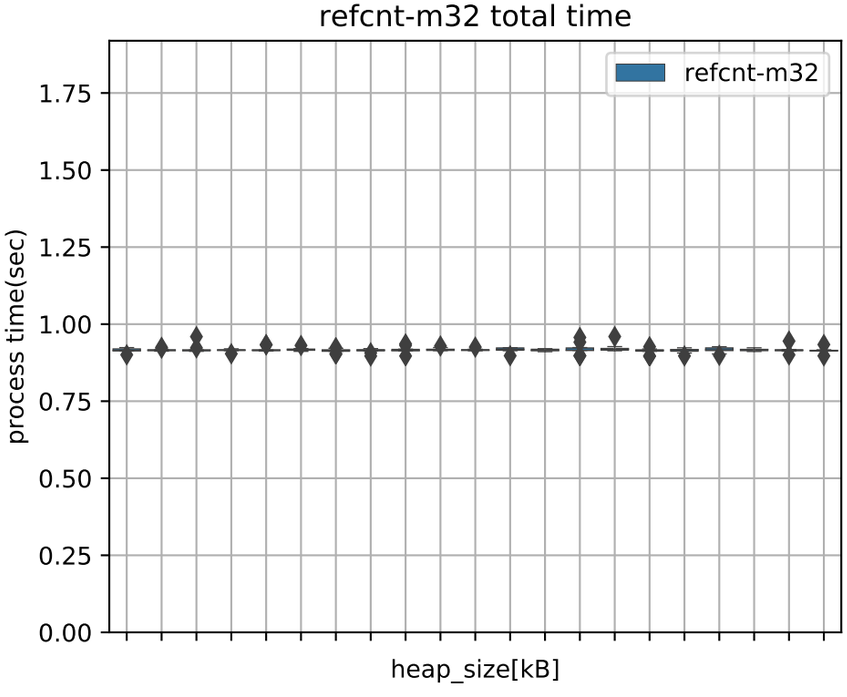

bm_so_matrix_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
118
236
354
472
590
708
826
944
recursive dec_ref_counter times

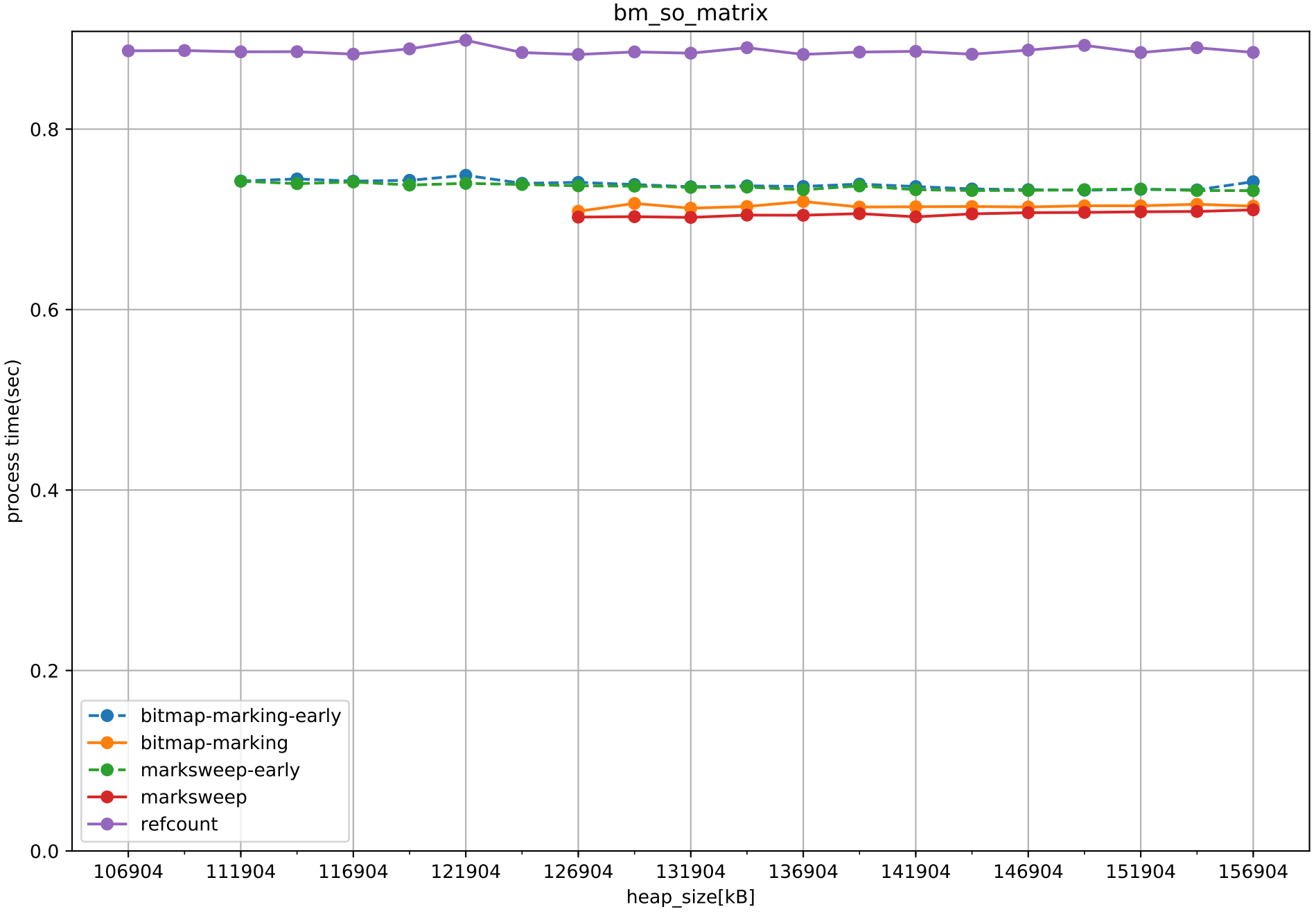
bm_so_matrix_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
187500
375000
562500
750000
937500
1125000
1312500
recursive free times

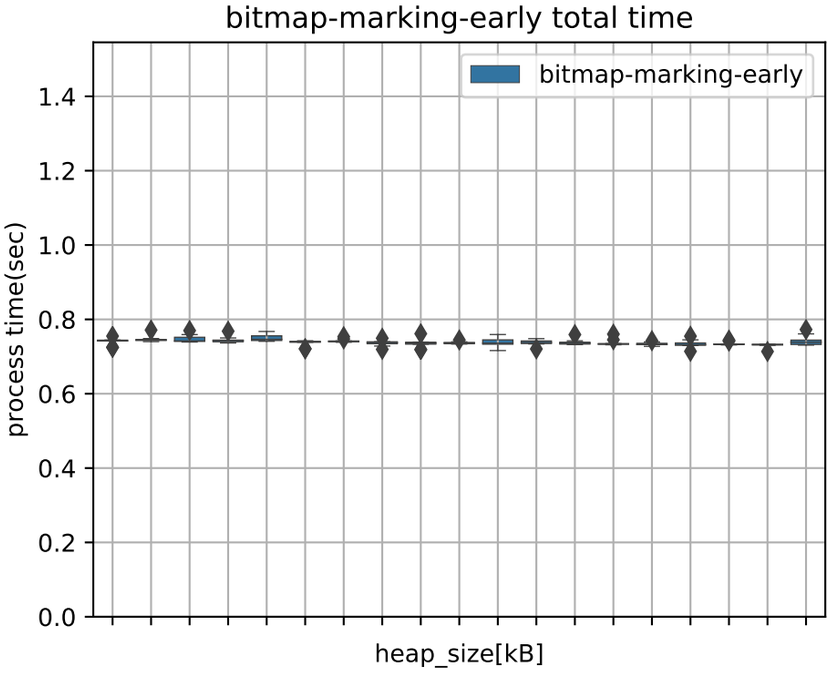

bm_so_matrix_m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
75436
80436
85436
90436
95436
100436
105436
110436
115436
120436
125436
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

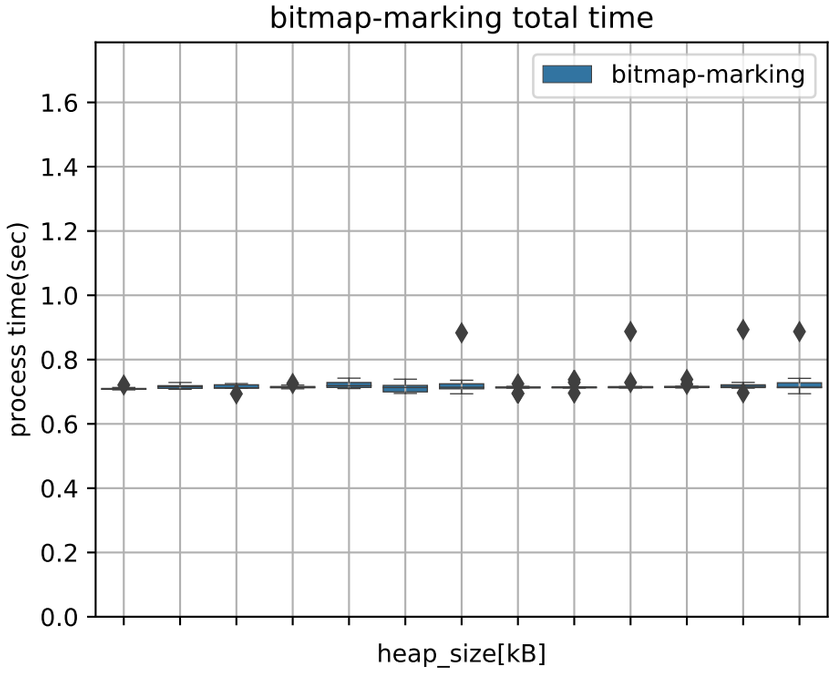

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
heap_size[kB]

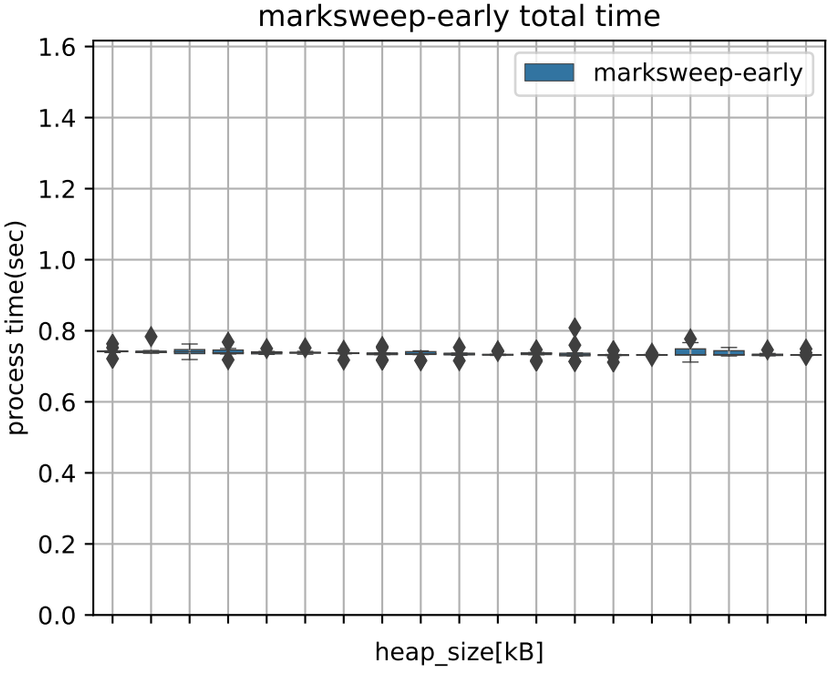

marksweep-m32 total time
marksweep-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
heap_size[kB]

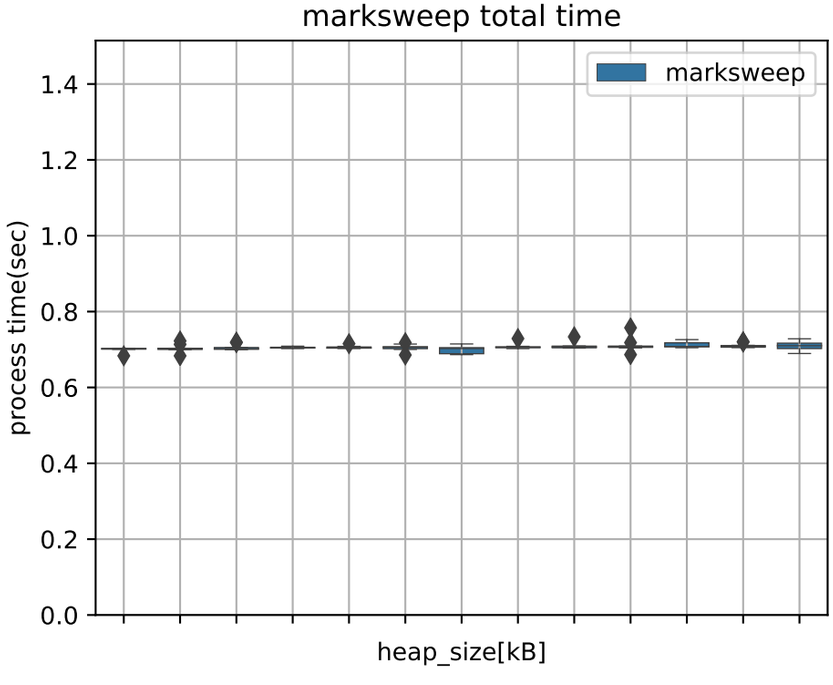

refcnt-m32 total time
refcnt-m32
process time(sec)
0.00
0.25
0.50
0.75
1.00
1.25
1.50
1.75
heap_size[kB]

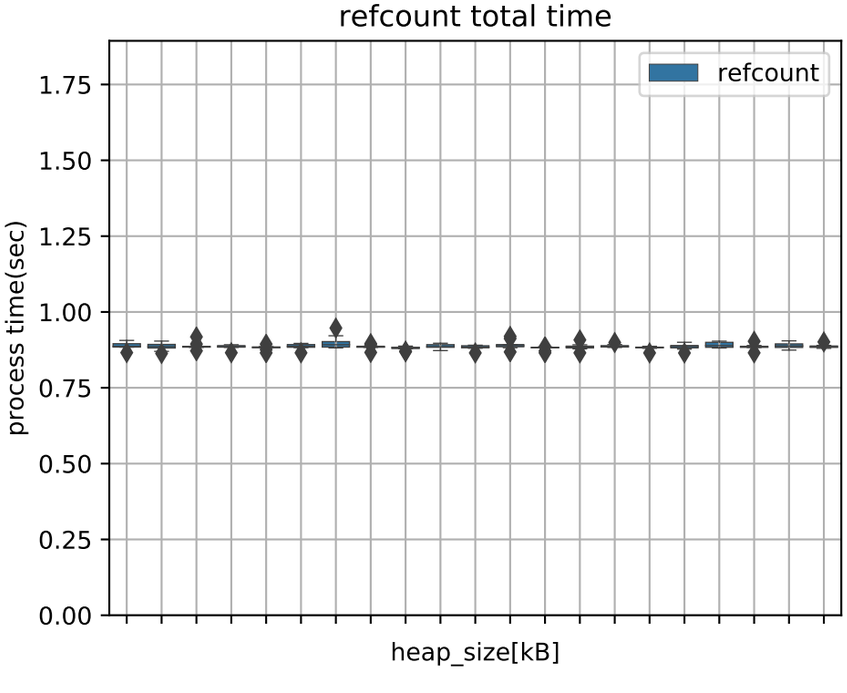

bm_so_matrix
process time(sec)
0.0
0.2
0.4
0.6
0.8
106904
111904
116904
121904
126904
131904
136904
141904
146904
151904
156904
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

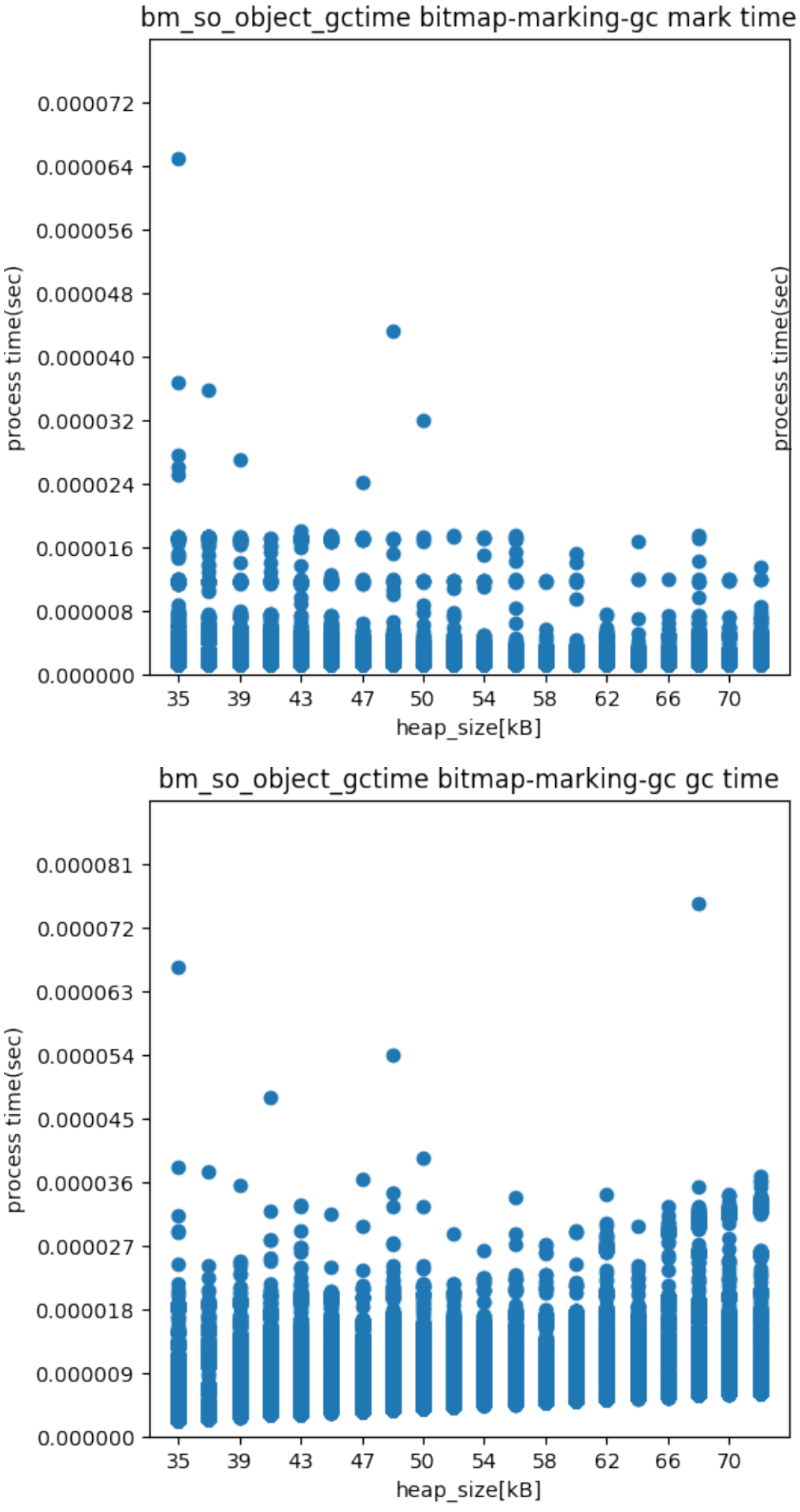

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

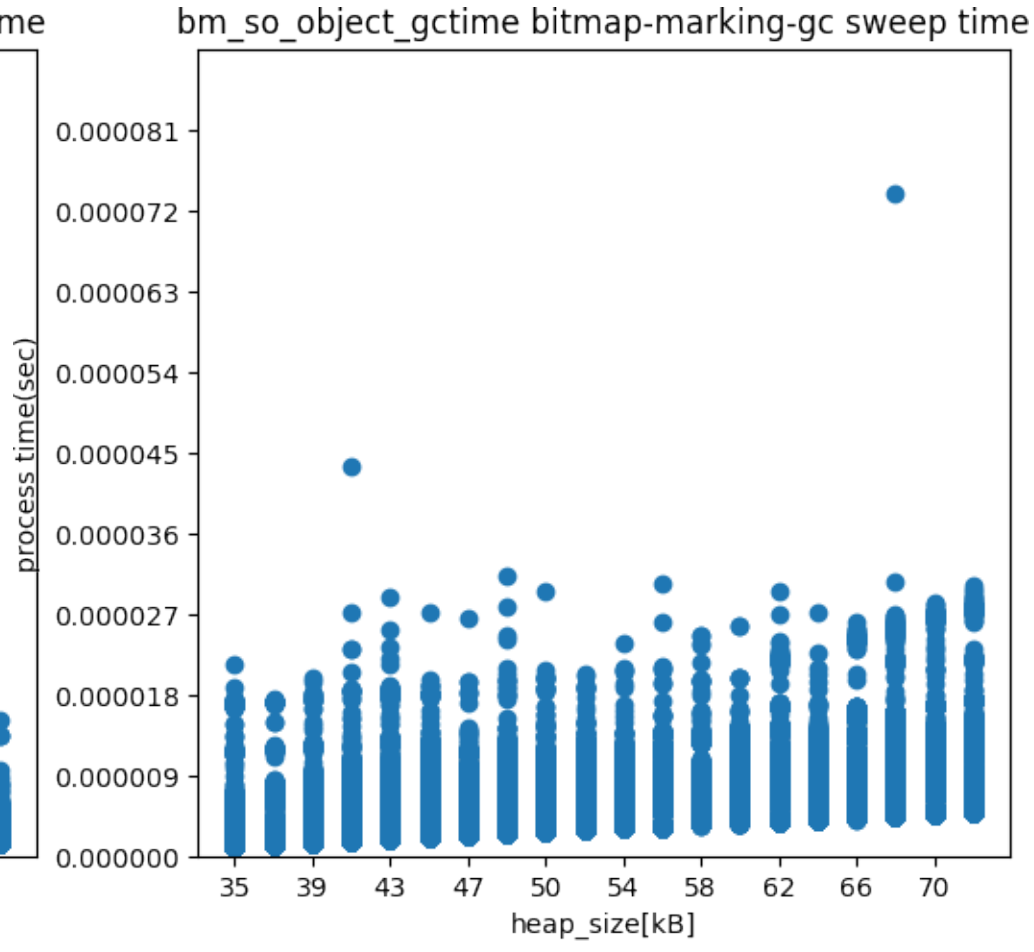

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

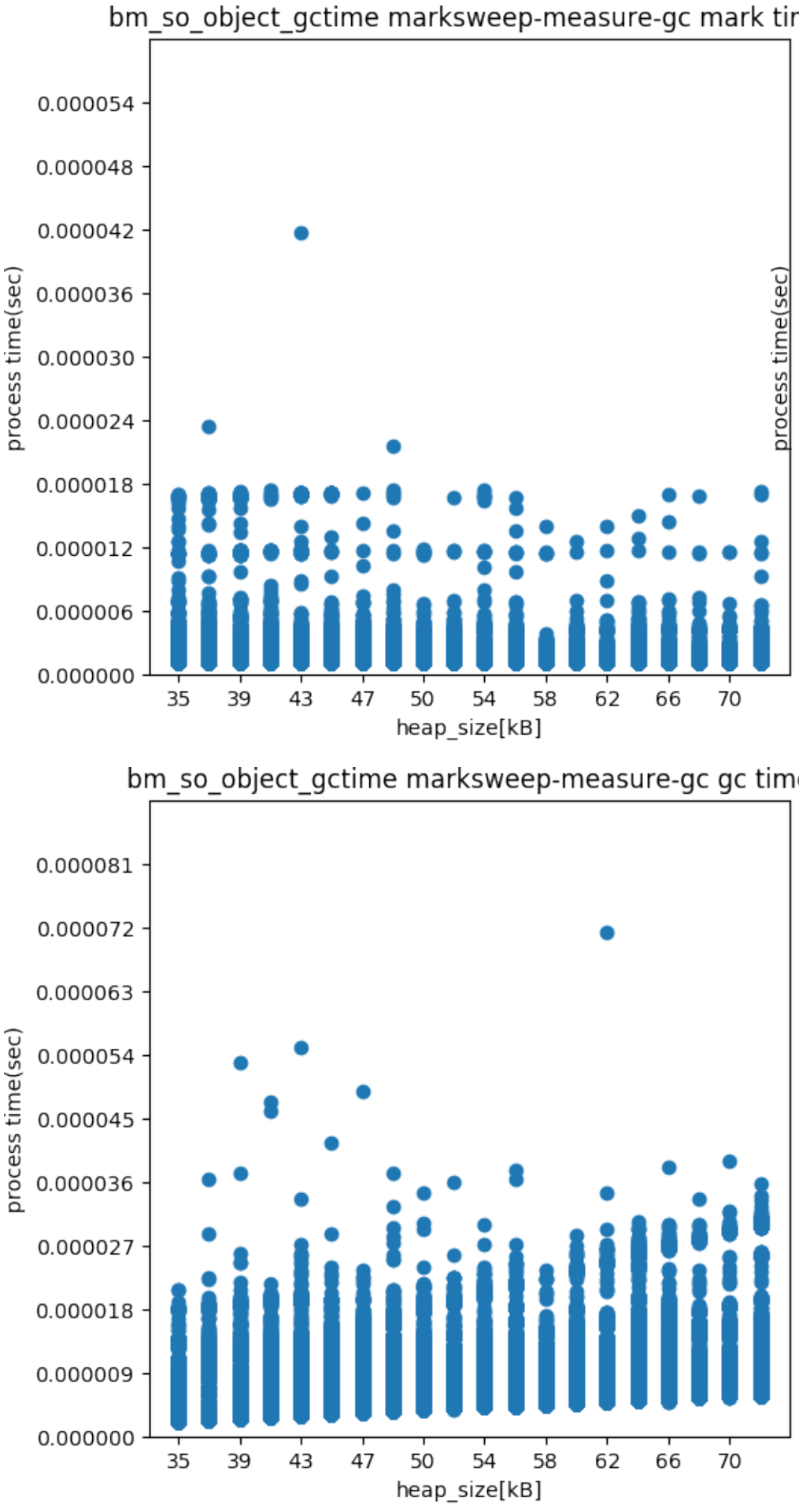

marksweep total time
marksweep
process time(sec)
heap_size[kB]

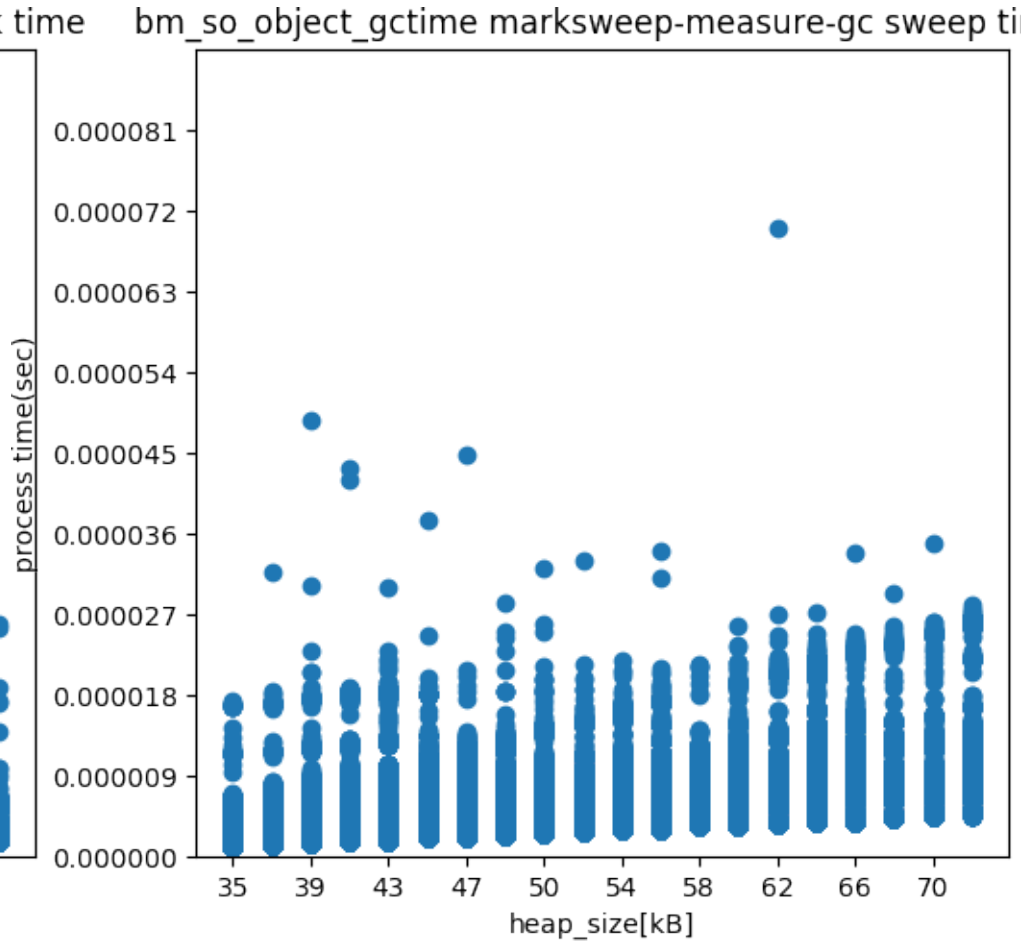

refcount total time
refcount
process time(sec)
heap_size[kB]


bm_so_object_gctime bitmap-marking-gc mark time
process time(sec)
0.000000
0.000008
0.000016
0.000024
0.000032
0.000040
0.000048
0.000056
0.000064
0.000072
35
39
43
47
50
54
58
62
66
70
heap_size[kB]

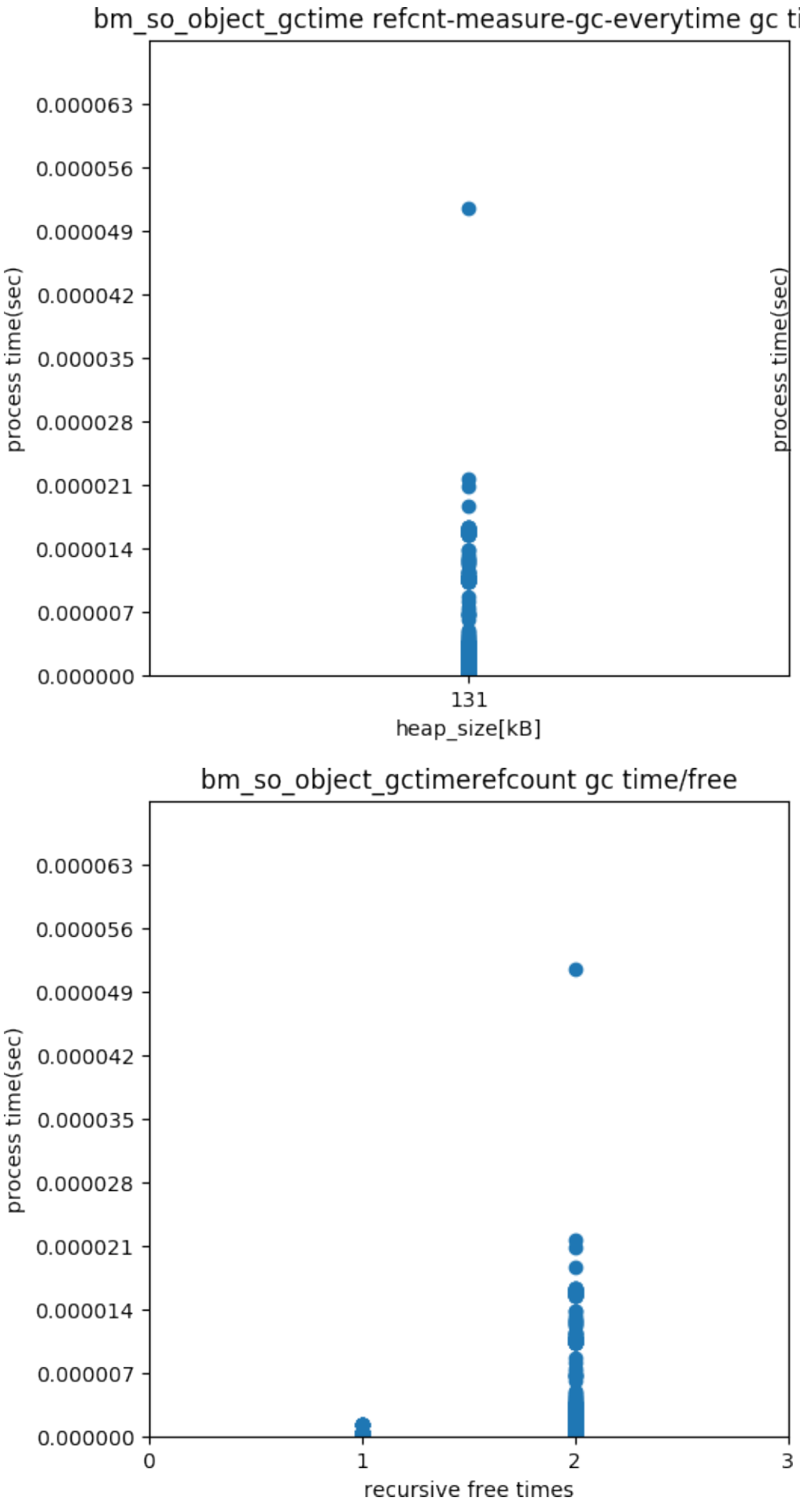

bm_so_object_gctime bitmap-marking-gc sweep time
process time(sec)
0.000000
0.000009
0.000018
0.000027
0.000036
0.000045
0.000054
0.000063
0.000072
0.000081
35
39
43
47
50
54
58
62
66
70
heap_size[kB]

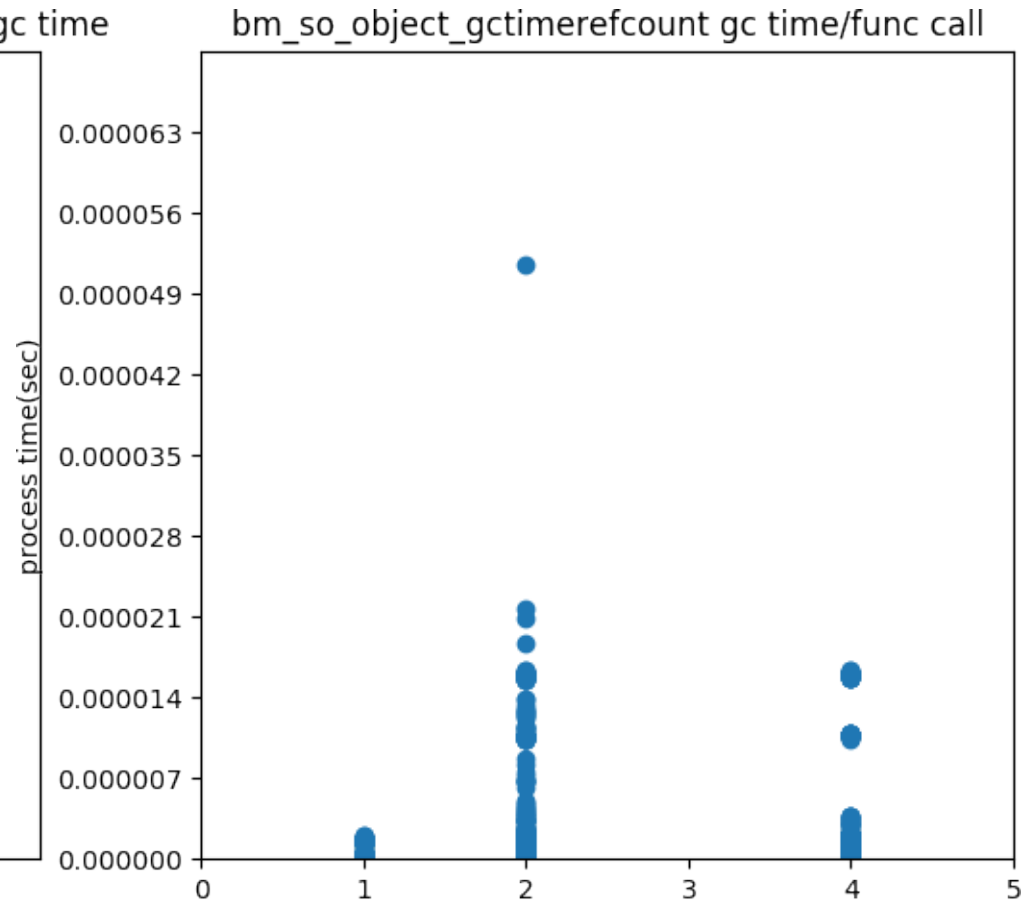
bm_so_object_gctime bitmap-marking-gc gc time
process time(sec)
0.000000
0.000009
0.000018
0.000027
0.000036
0.000045
0.000054
0.000063
0.000072
0.000081
35
39
43
47
50
54
58
62
66
70
heap_size[kB]


bm_so_object_gctime marksweep-measure-gc mark time
process time(sec)
0.000000
0.000006
0.000012
0.000018
0.000024
0.000030
0.000036
0.000042
0.000048
0.000054
35
39
43
47
50
54
58
62
66
70
heap_size[kB]

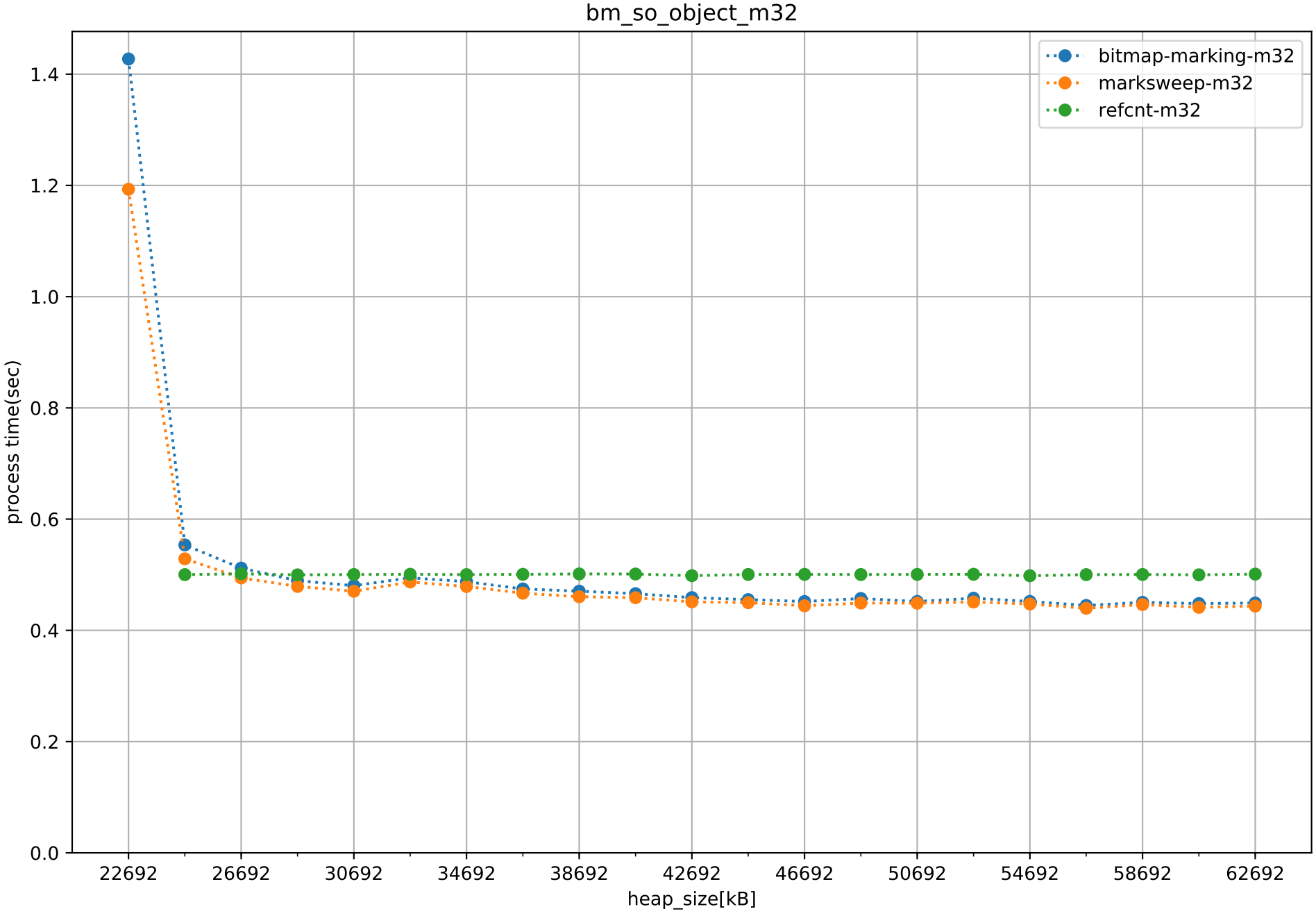

bm_so_object_gctime marksweep-measure-gc sweep time
process time(sec)
0.000000
0.000009
0.000018
0.000027
0.000036
0.000045
0.000054
0.000063
0.000072
0.000081
35
39
43
47
50
54
58
62
66
70
heap_size[kB]

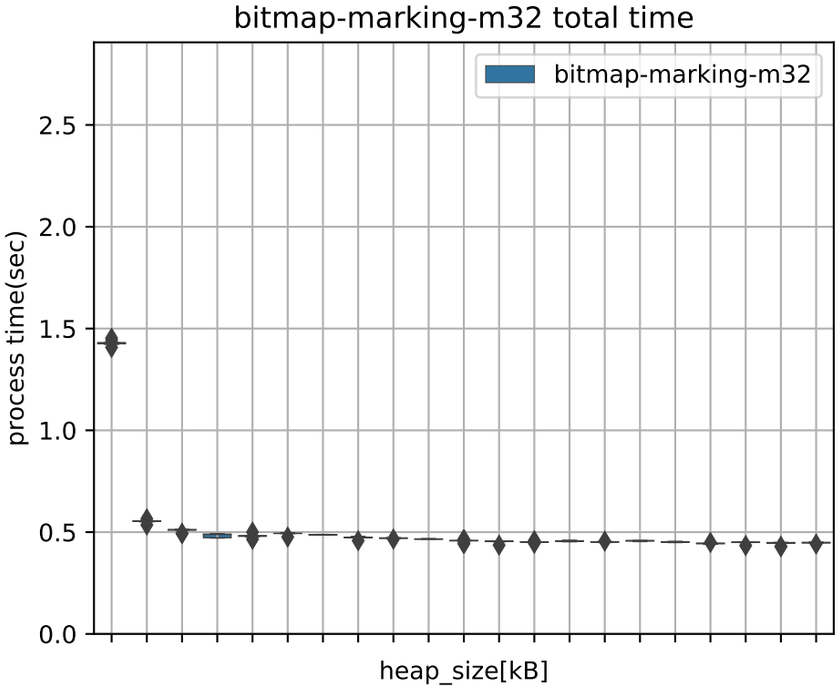
bm_so_object_gctime marksweep-measure-gc gc time
process time(sec)
0.000000
0.000009
0.000018
0.000027
0.000036
0.000045
0.000054
0.000063
0.000072
0.000081
35
39
43
47
50
54
58
62
66
70
heap_size[kB]

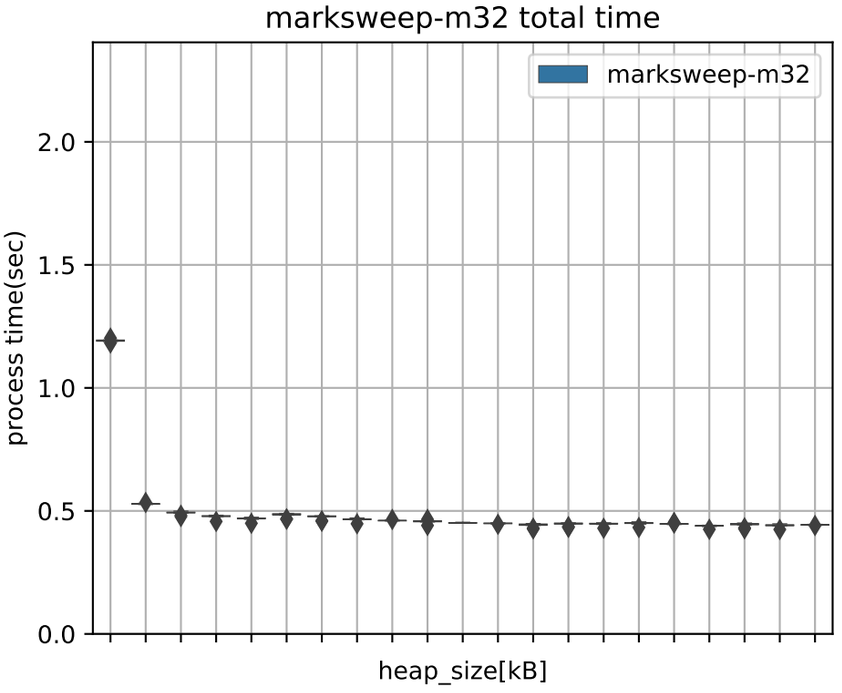

bm_so_object_gctime refcnt-measure-gc-everytime gc time
process time(sec)
0.000063
0.000056
0.000049
0.000042
0.000035
0.000028
0.000021
0.000014
0.000007
0.000000
131
heap_size[kB]

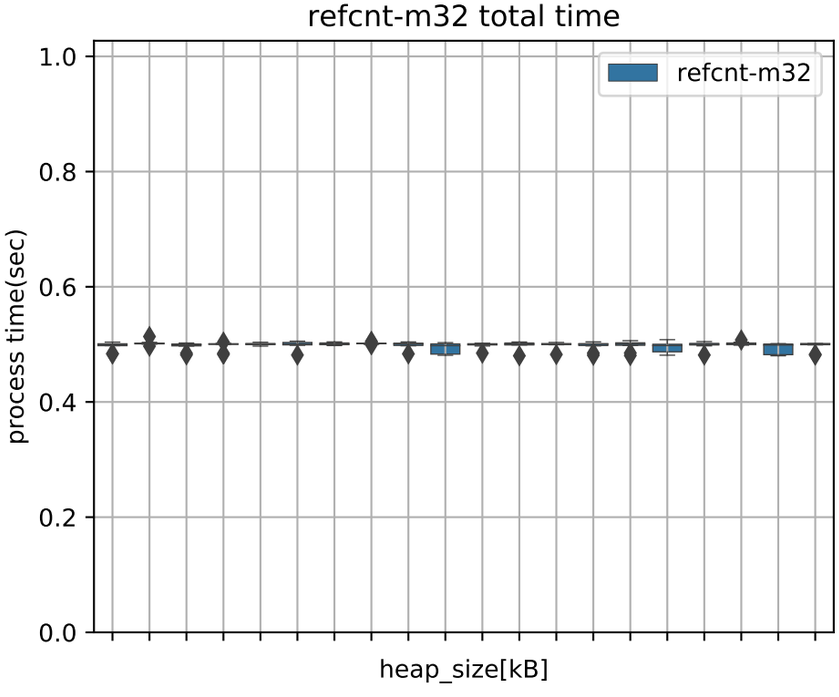

bm_so_object_gctimerefcount gc time/func call
process time(sec)
0.000063
0.000056
0.000049
0.000042
0.000035
0.000028
0.000021
0.000014
0.000007
0.000000
0
1
2
3
4
5
recursive dec_ref_counter times

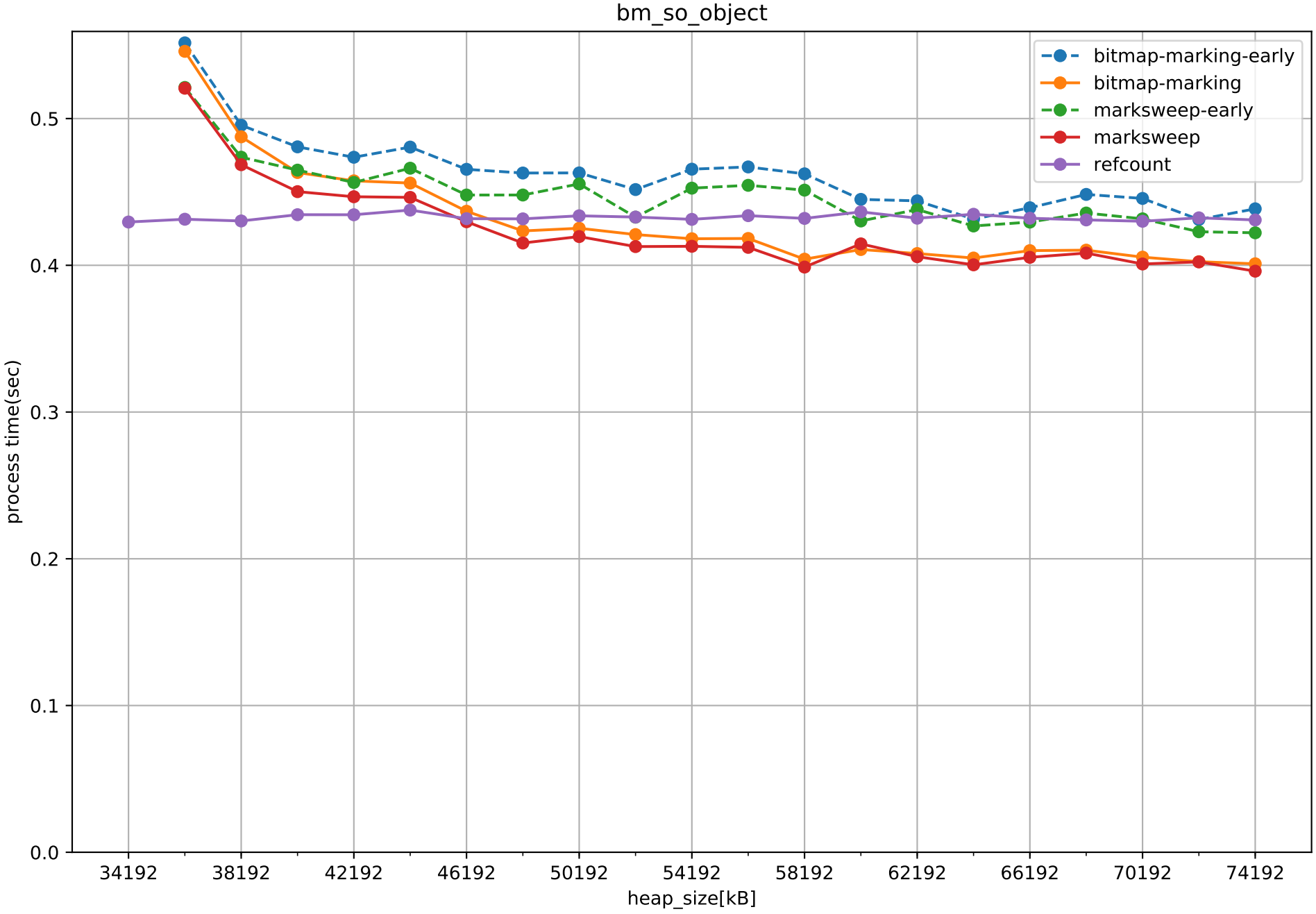
bm_so_object_gctimerefcount gc time/free
process time(sec)
0.000063
0.000056
0.000049
0.000042
0.000035
0.000028
0.000021
0.000014
0.000007
0.000000
0
1
2
3
recursive free times

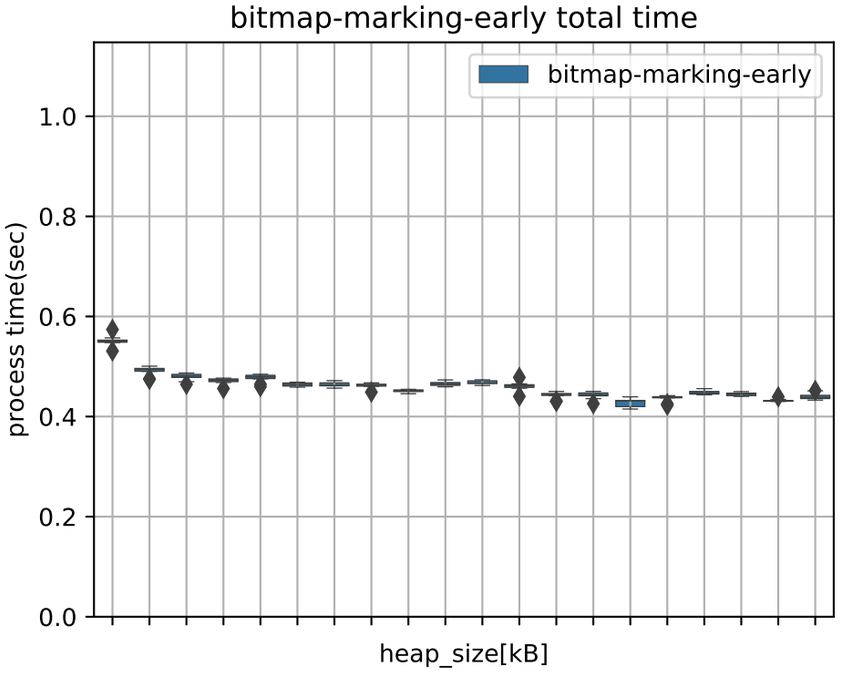

bm_so_object_m32
bitmap-marking-m32
marksweep-m32
refcnt-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
22692
26692
30692
34692
38692
42692
46692
50692
54692
58692
62692

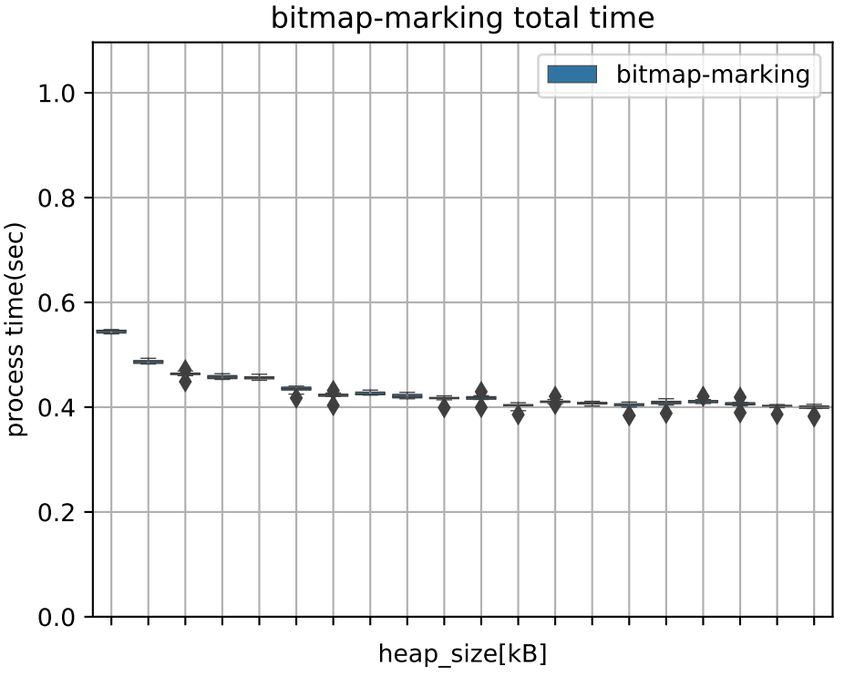

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0
2.5

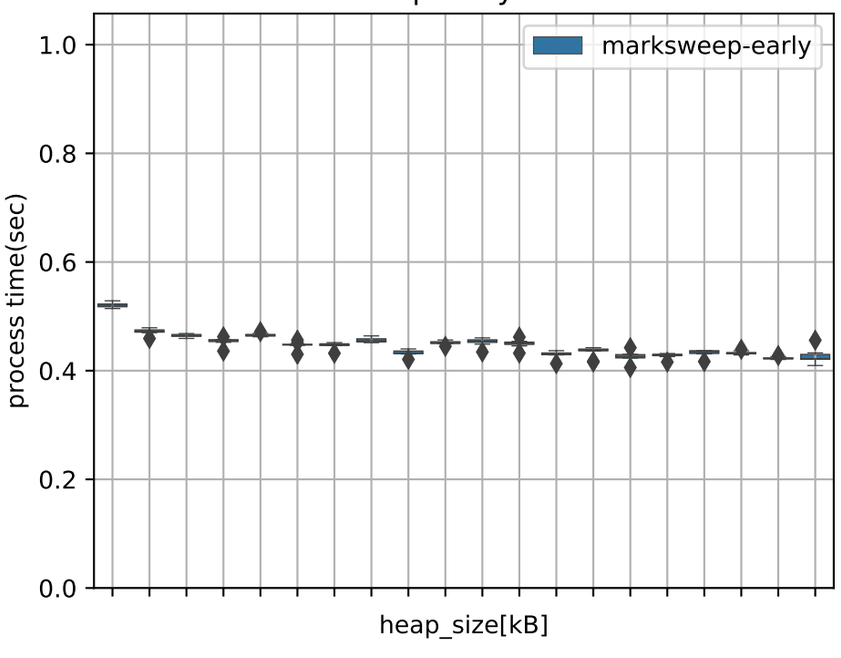

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0

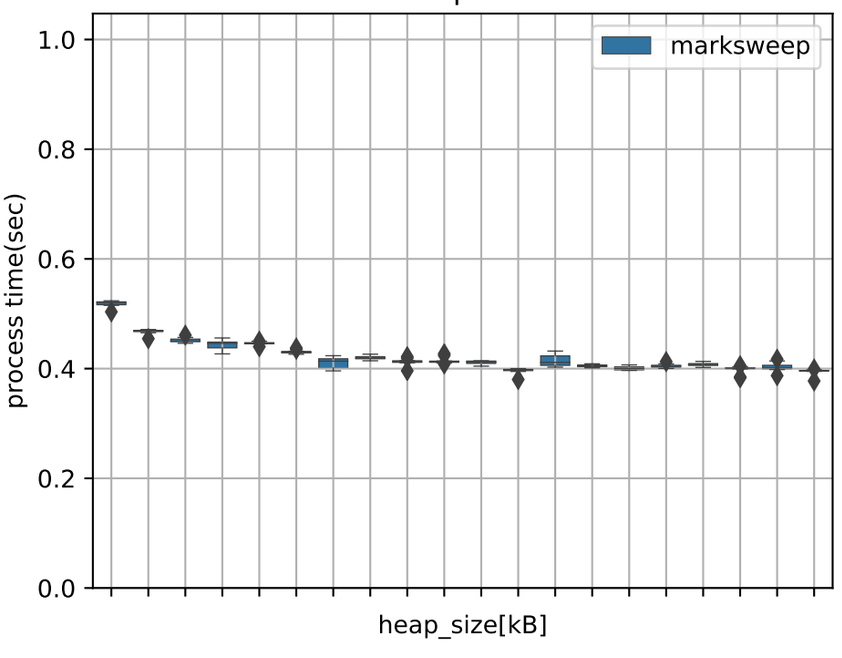

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0

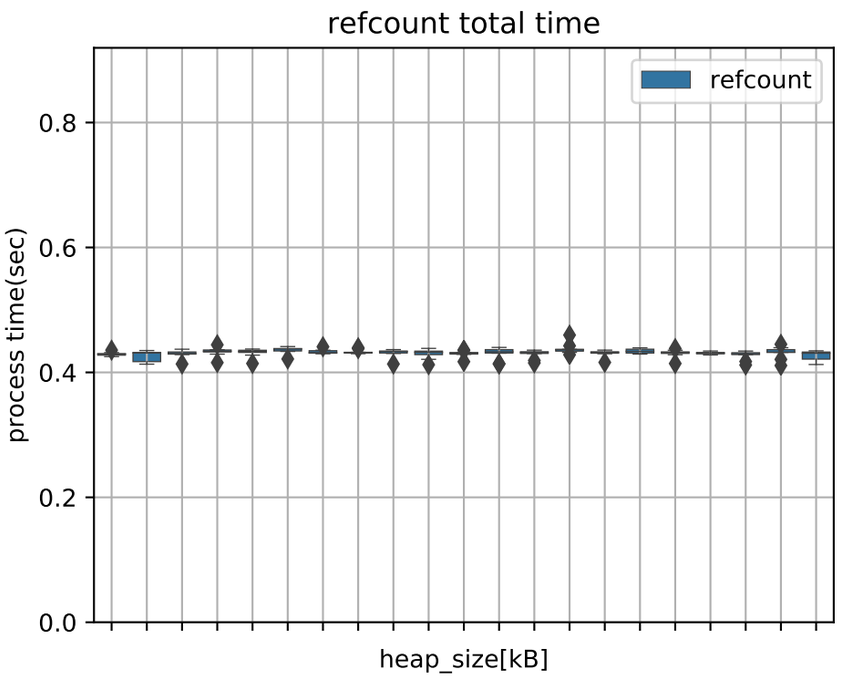

bm_so_object
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
34192
38192
42192
46192
50192
54192
58192
62192
66192
70192
74192
heap_size[kB]

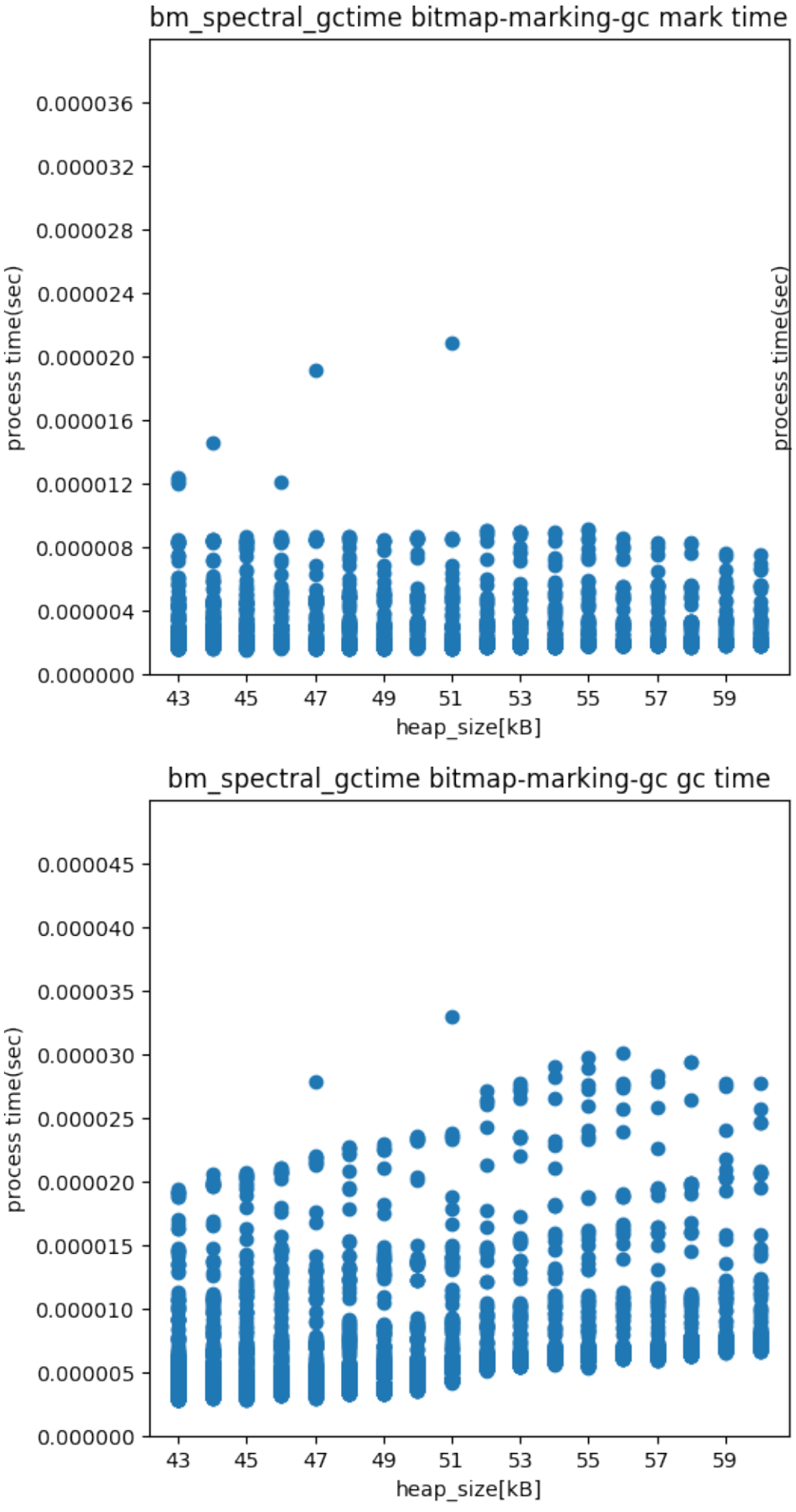

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

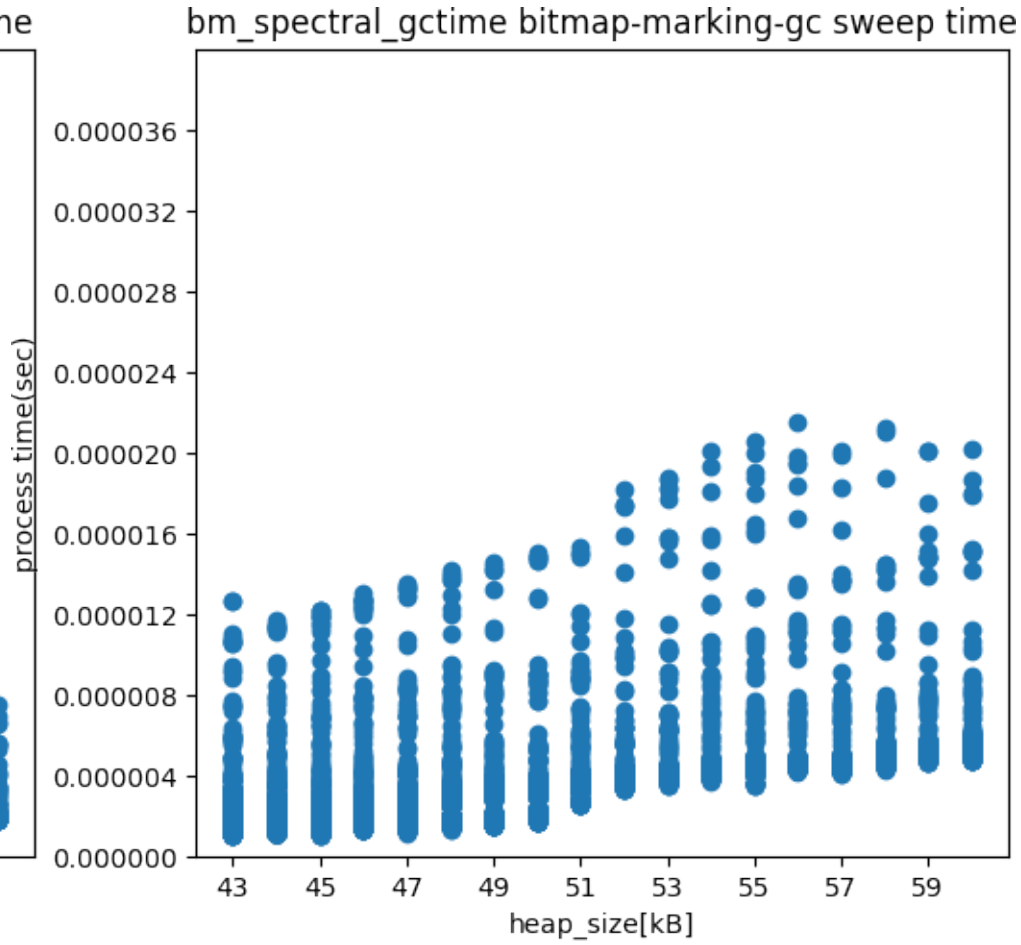

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

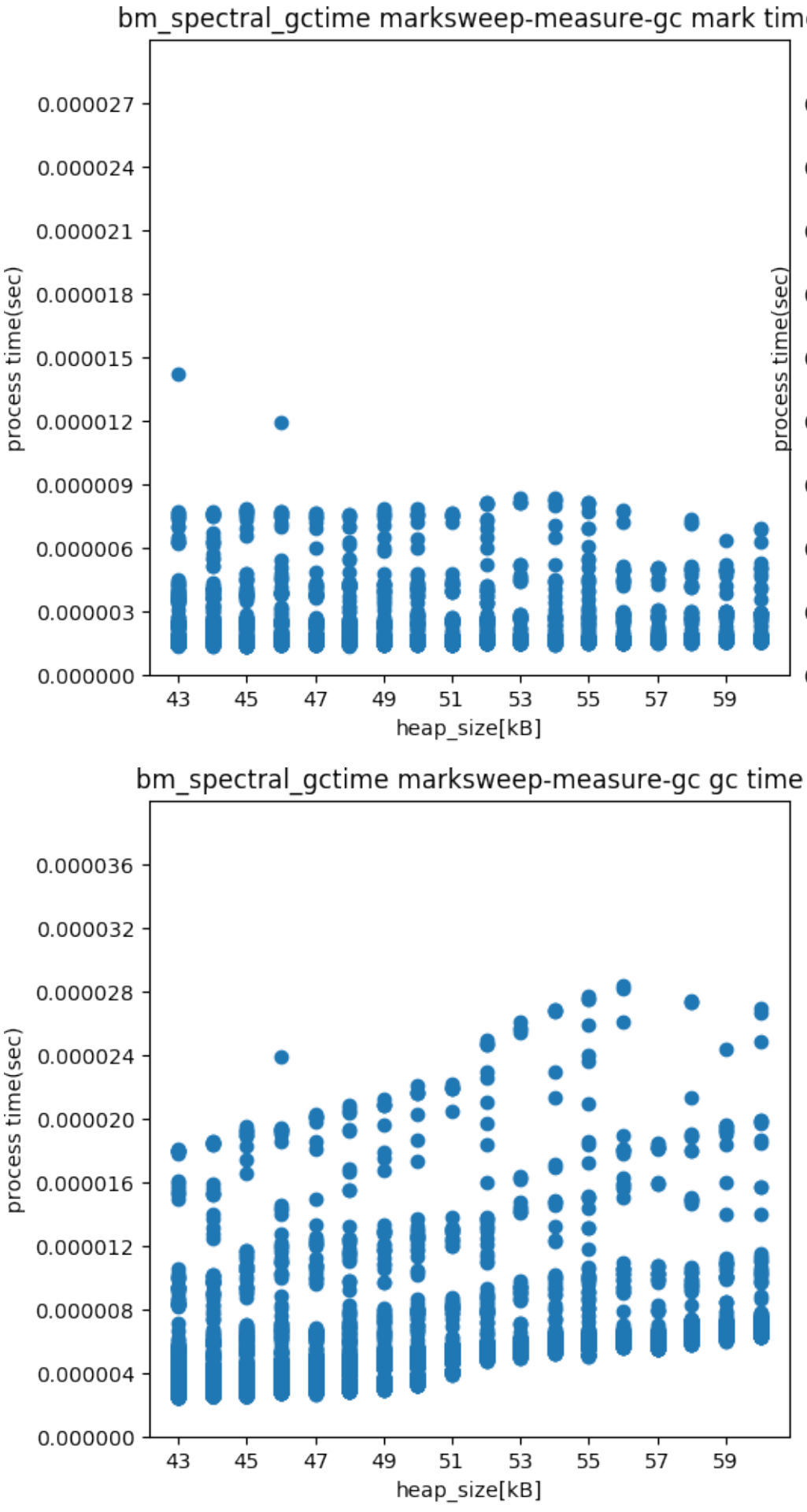

marksweep total time
marksweep
process time(sec)
heap_size[kB]

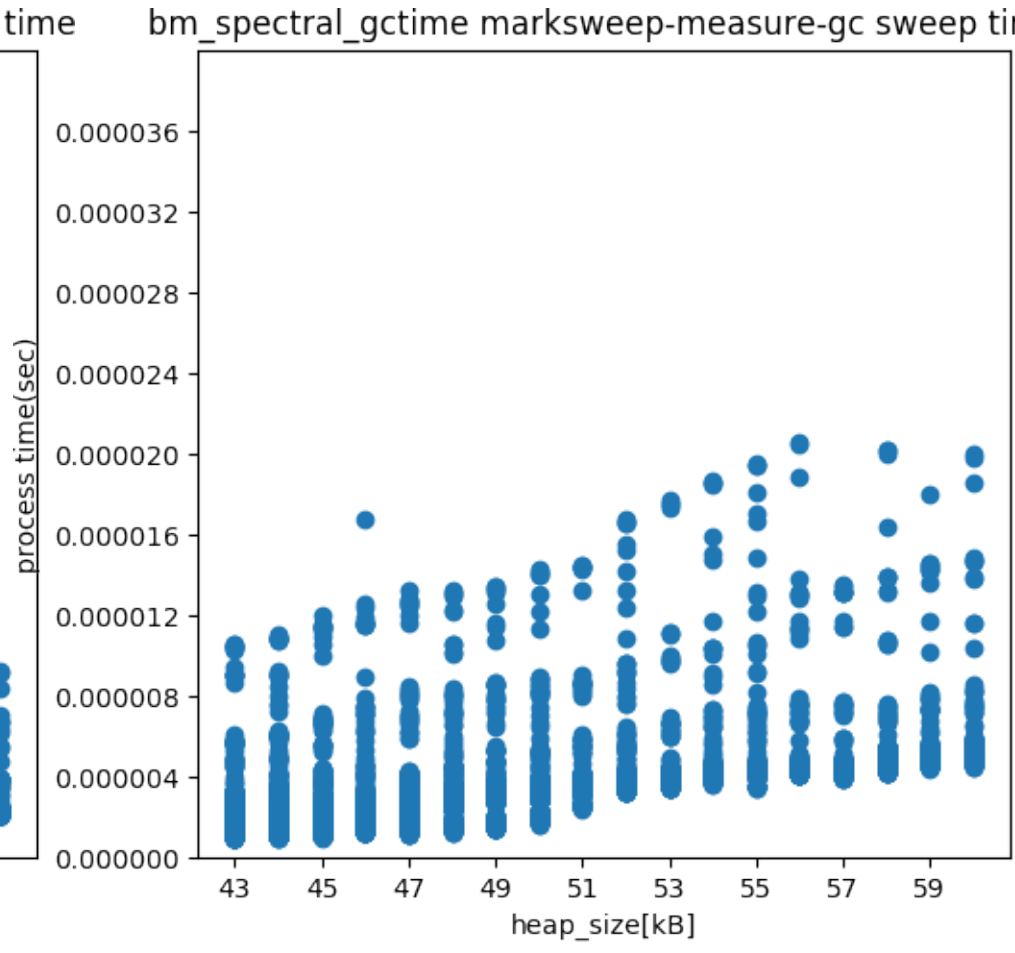

refcount total time
refcount
process time(sec)
heap_size[kB]


bm_spectral_gctime bitmap-marking-gc mark time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
43
45
47
49
51
53
55
57
59
heap_size[kB]

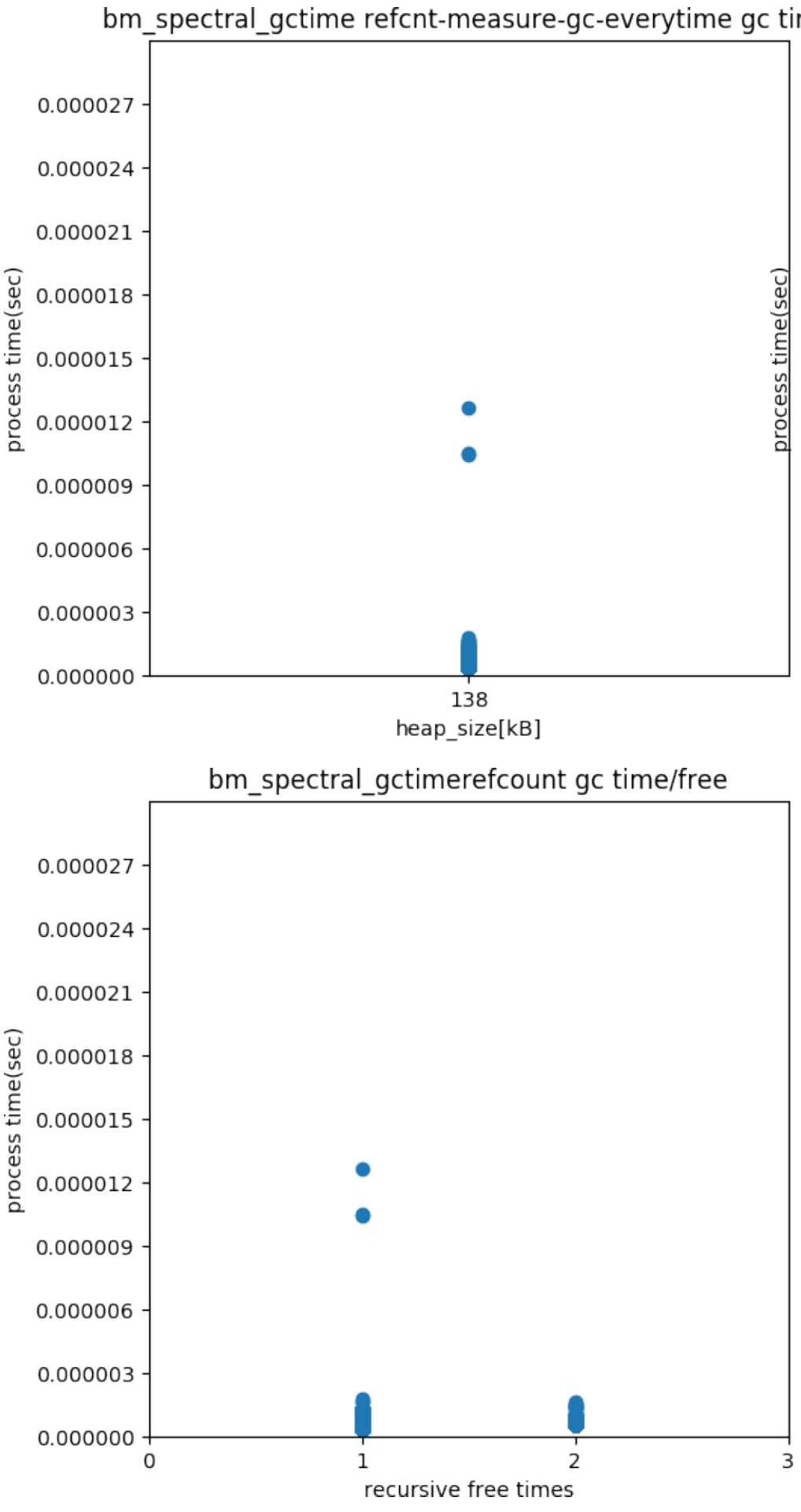

bm_spectral_gctime bitmap-marking-gc sweep time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
43
45
47
49
51
53
55
57
59
heap_size[kB]

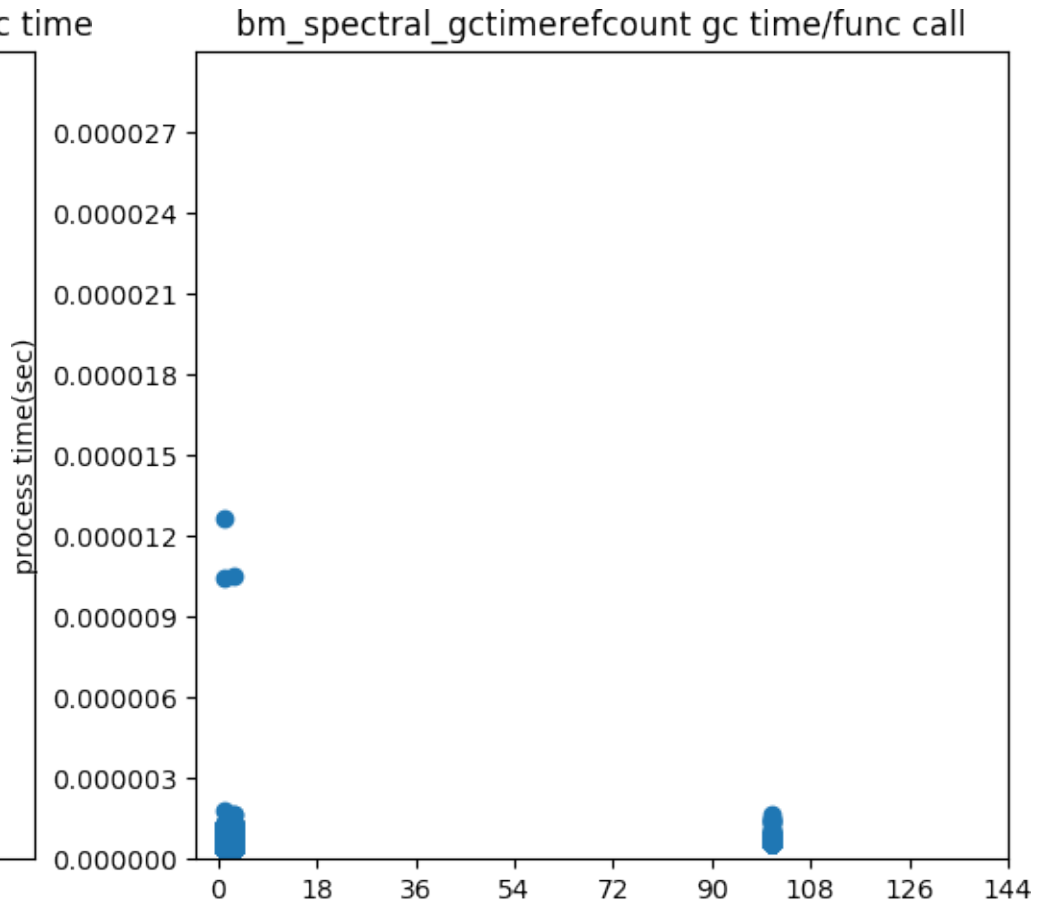
bm_spectral_gctime bitmap-marking-gc gc time
process time(sec)
0.000045
0.000040
0.000035
0.000030
0.000025
0.000020
0.000015
0.000010
0.000005
0.000000
43
45
47
49
51
53
55
57
59
heap_size[kB]


bm_spectral_gctime marksweep-measure-gc mark time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
43
45
47
49
51
53
55
57
59
heap_size[kB]

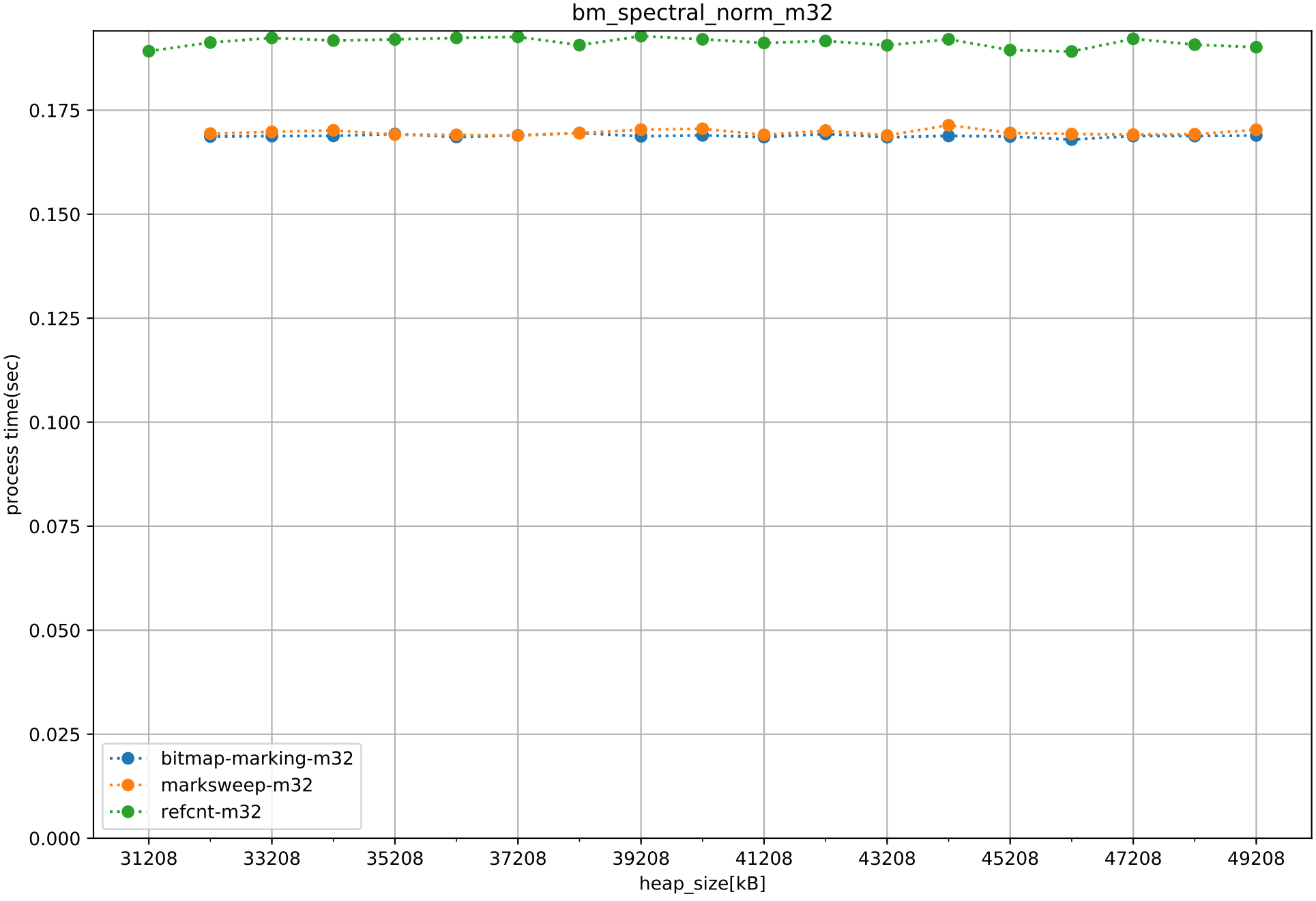

bm_spectral_gctime marksweep-measure-gc sweep time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
43
45
47
49
51
53
55
57
59
heap_size[kB]

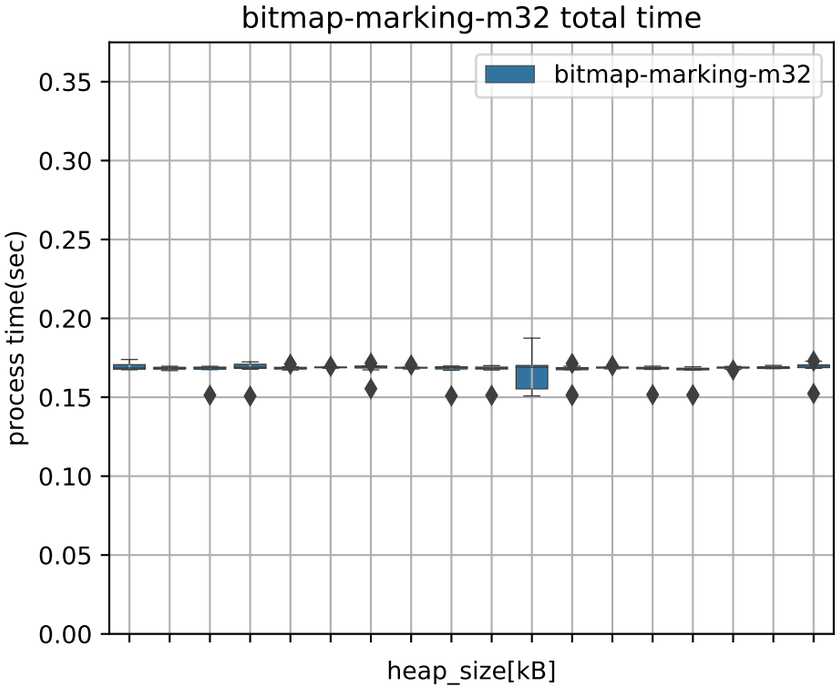
bm_spectral_gctime marksweep-measure-gc gc time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
43
45
47
49
51
53
55
57
59
heap_size[kB]

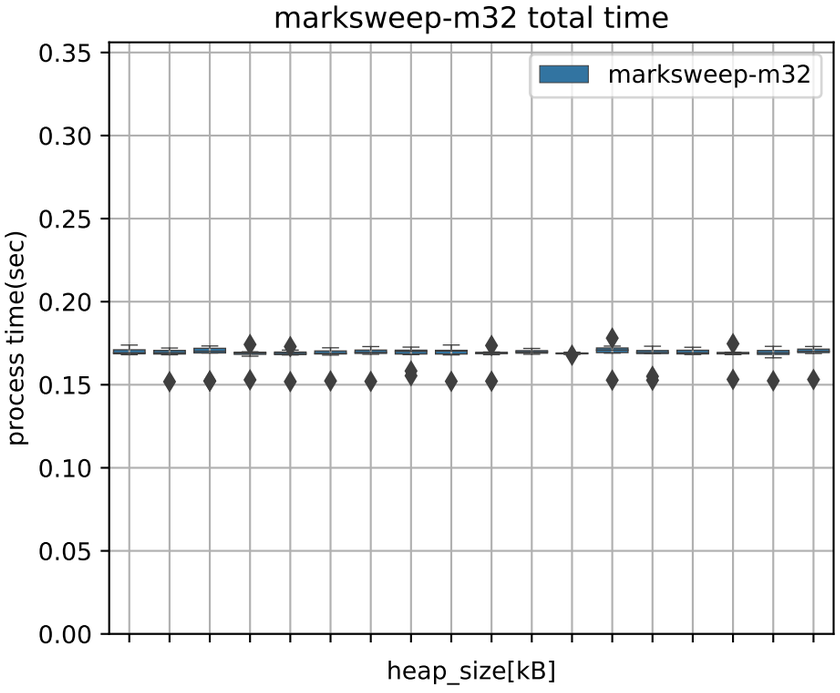

bm_spectral_gctime refcnt-measure-gc-everytime gc time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
138
heap_size[kB]

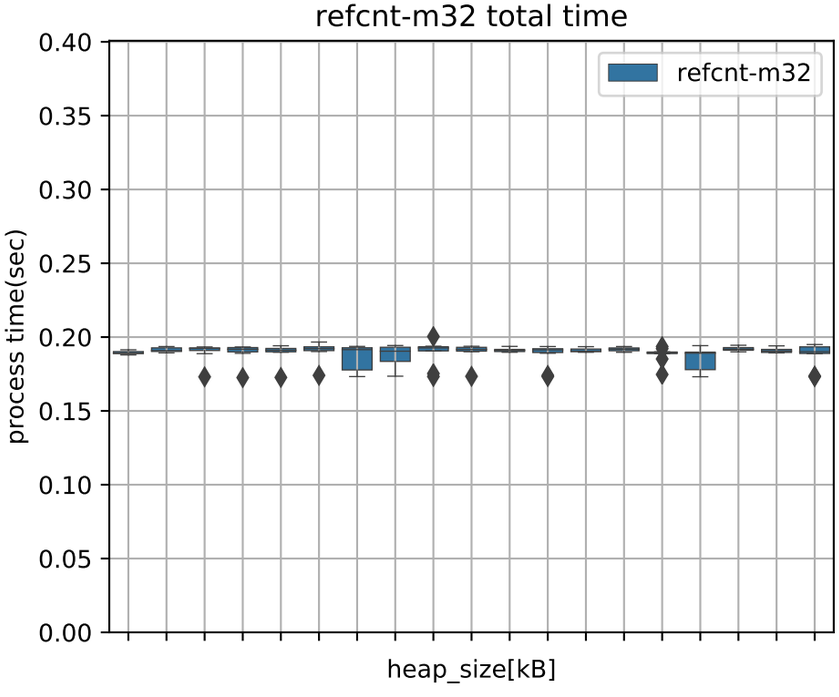

bm_spectral_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
18
36
54
72
90
108
126
144
recursive dec_ref_counter times

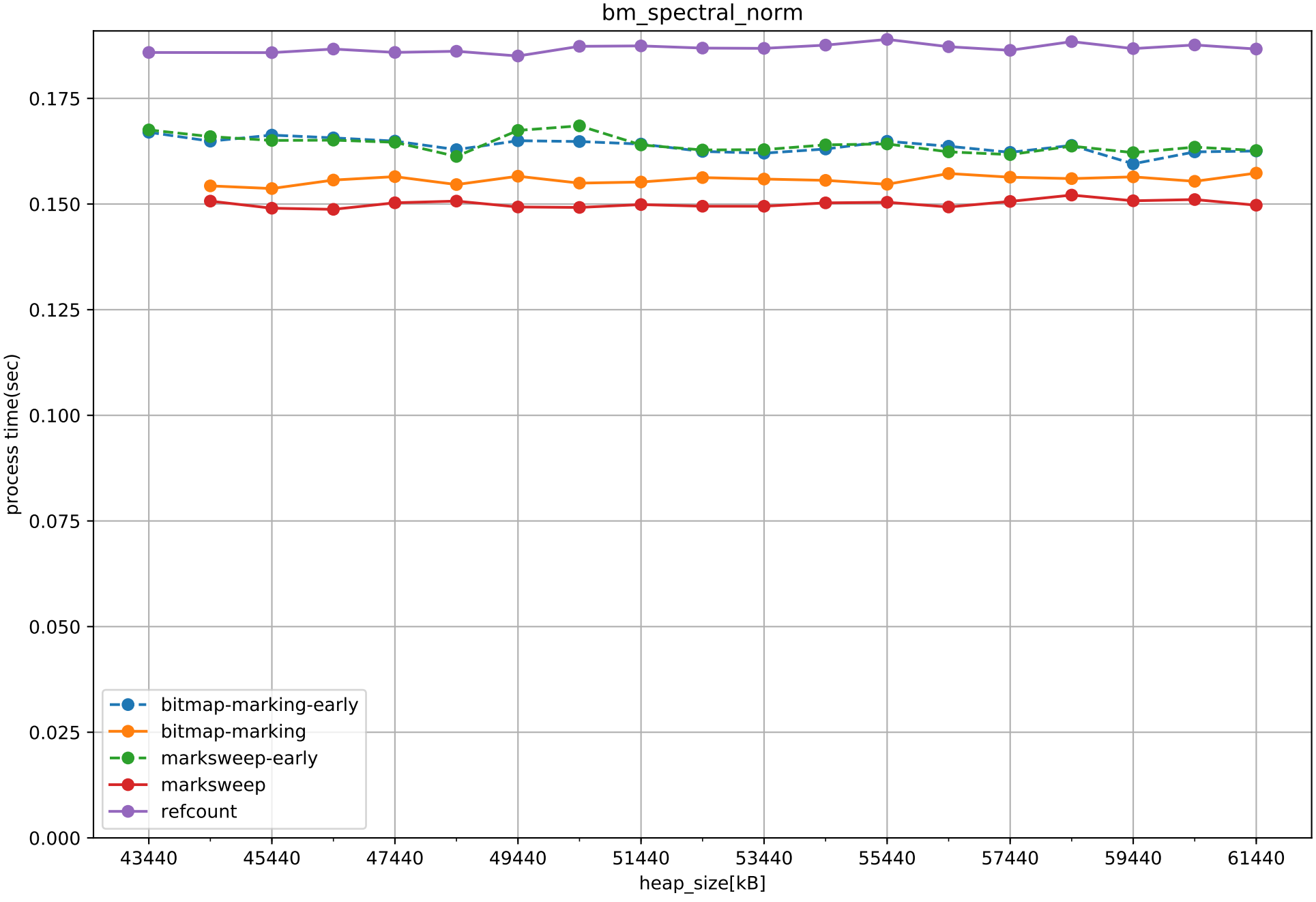
bm_spectral_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
1
2
3
recursive free times

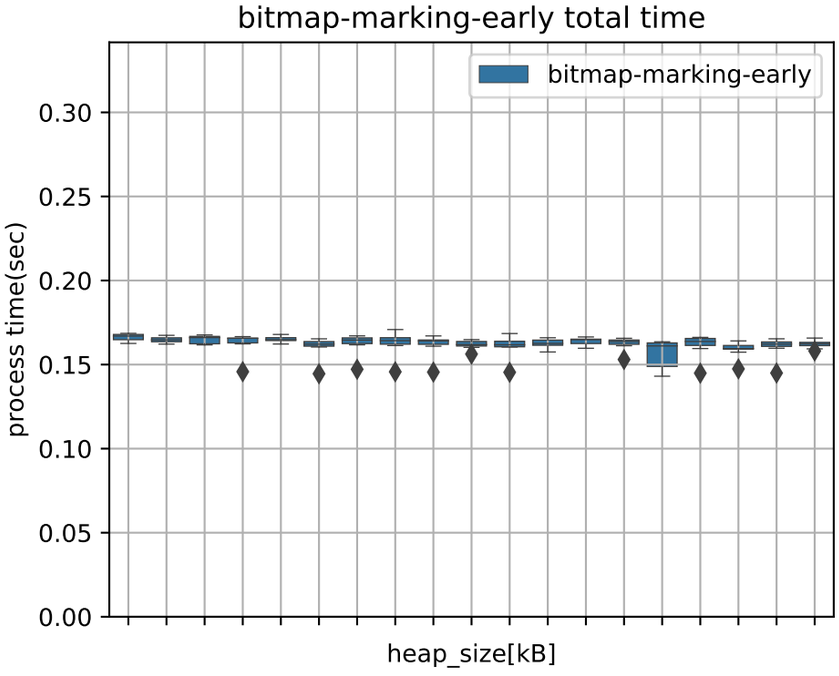

bm_spectral_norm_m32
process time(sec)
0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
31208
33208
35208
37208
39208
41208
43208
45208
47208
49208
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

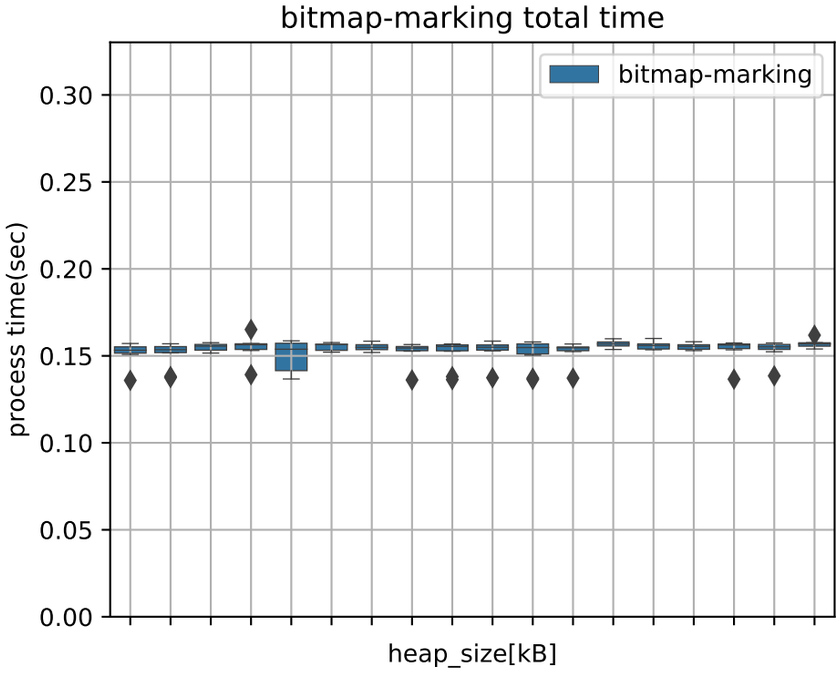

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
heap_size[kB]

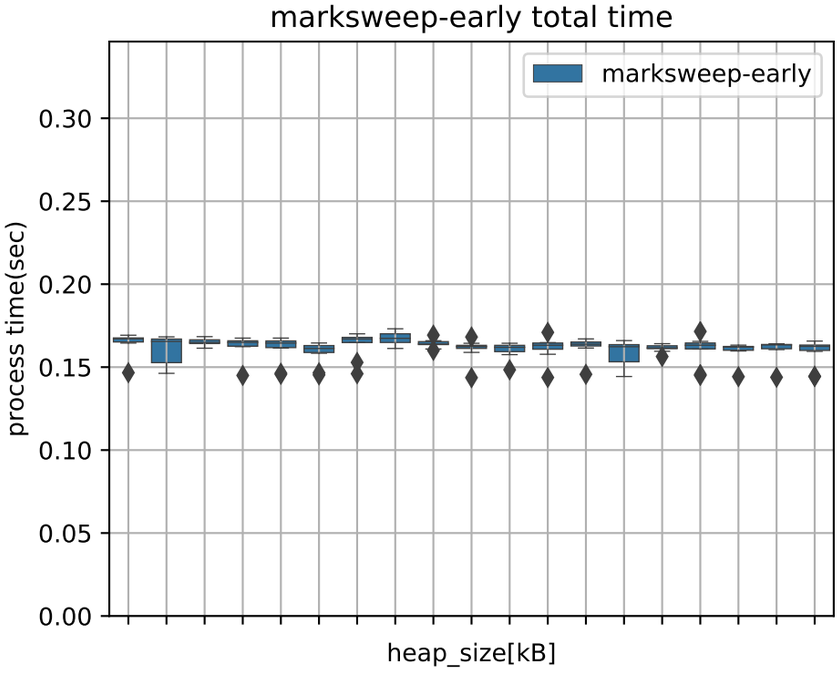

marksweep-m32 total time
marksweep-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
heap_size[kB]

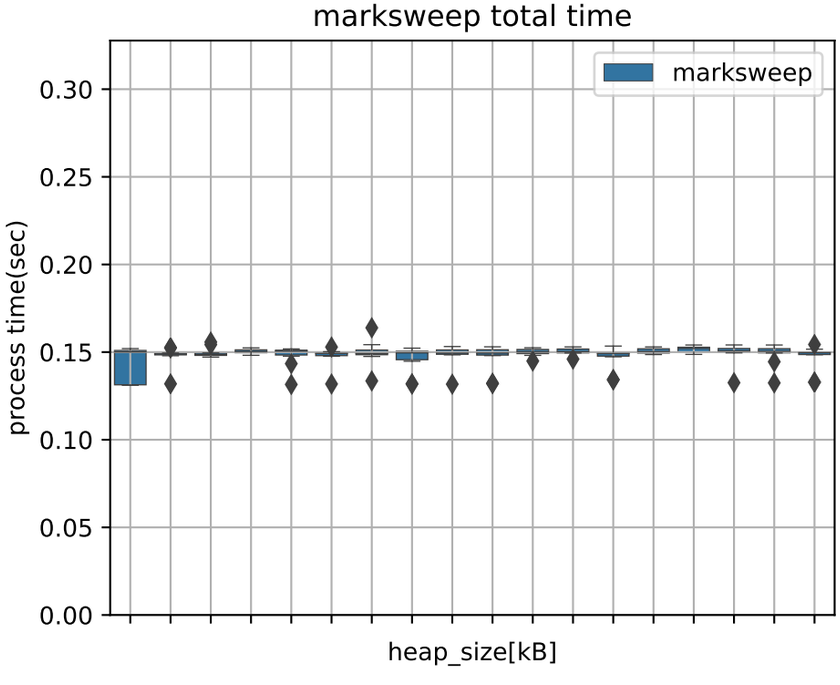

refcnt-m32 total time
refcnt-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
heap_size[kB]

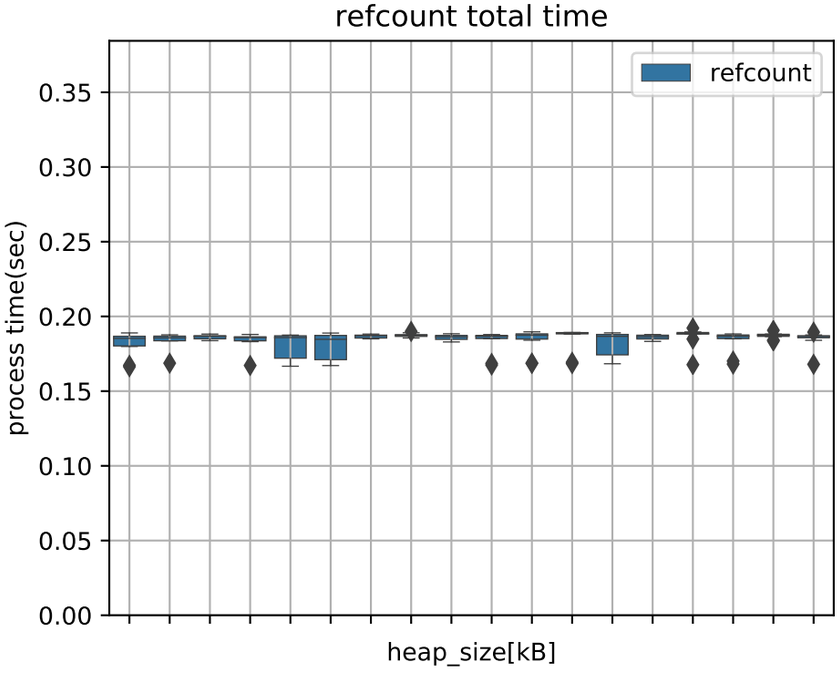

bm_spectral_norm
process time(sec)
0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
43440
45440
47440
49440
51440
53440
55440
57440
59440
61440
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount

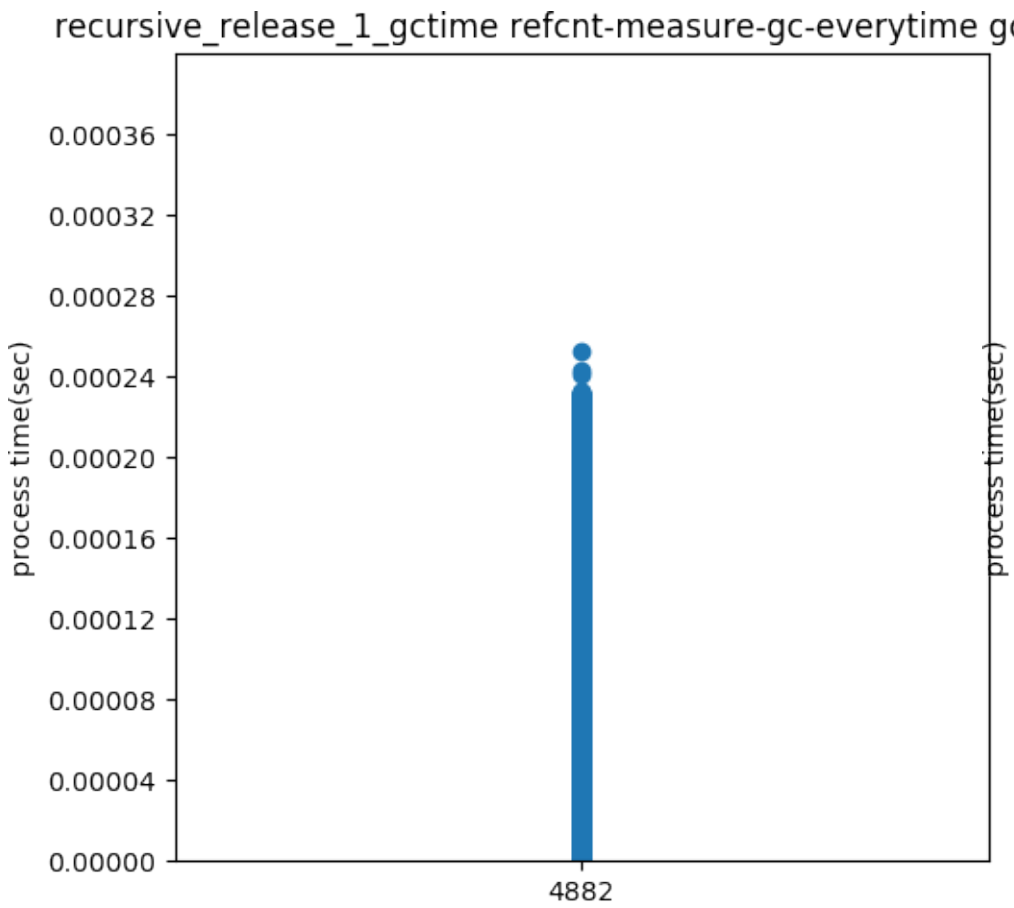

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
heap_size[kB]

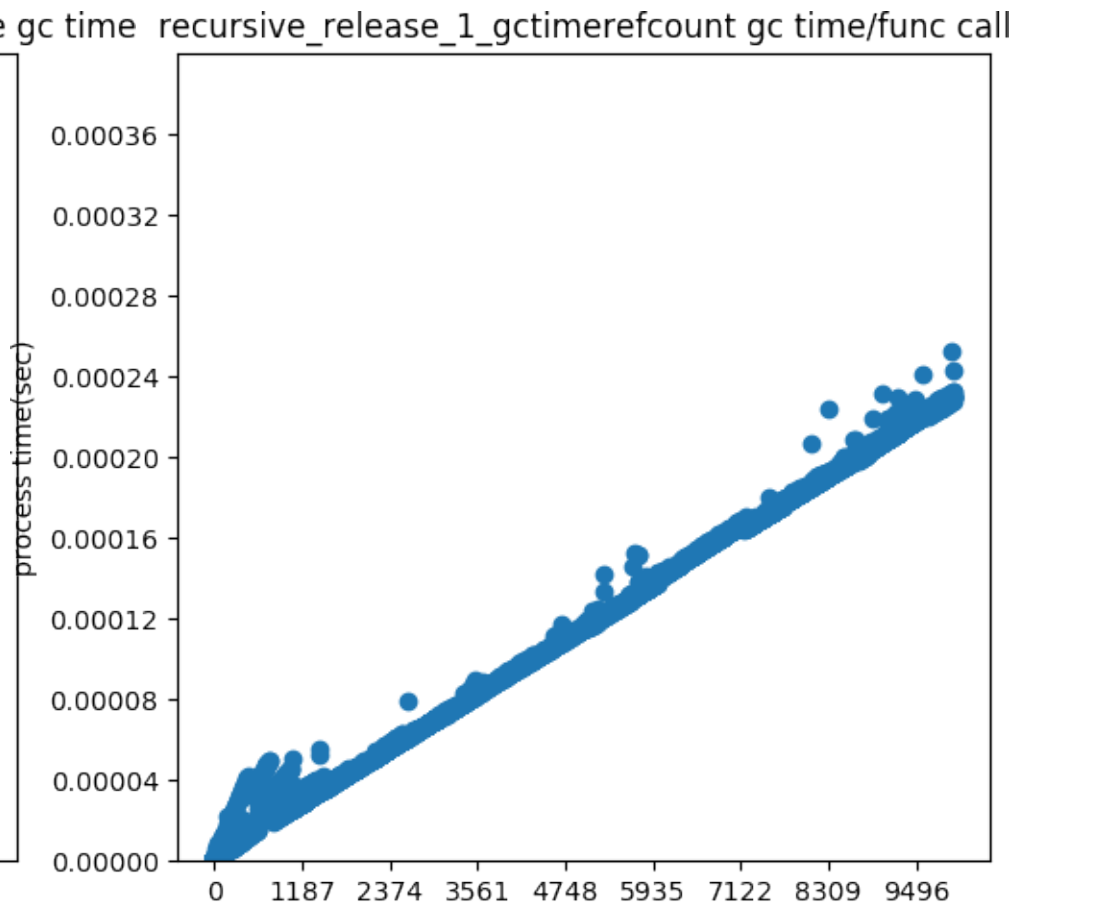

bitmap-marking total time
bitmap-marking
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
heap_size[kB]

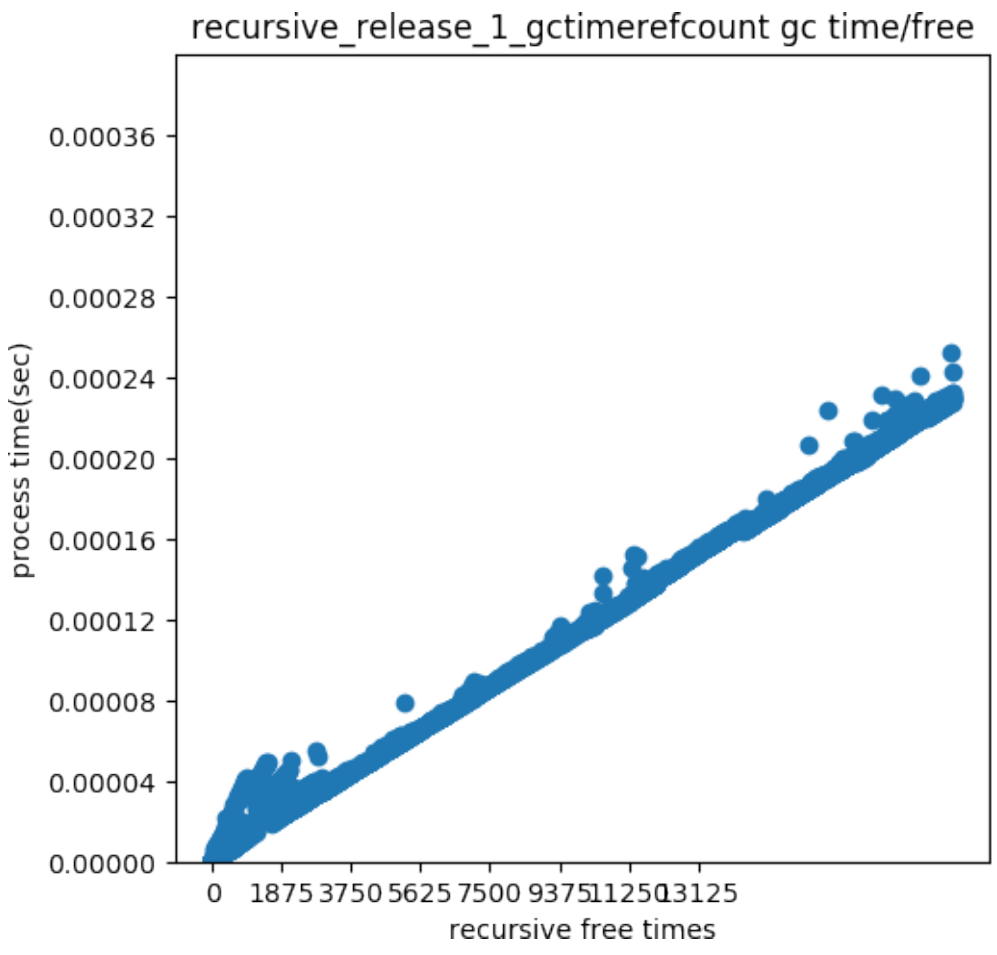

marksweep-early total time
marksweep-early
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
heap_size[kB]

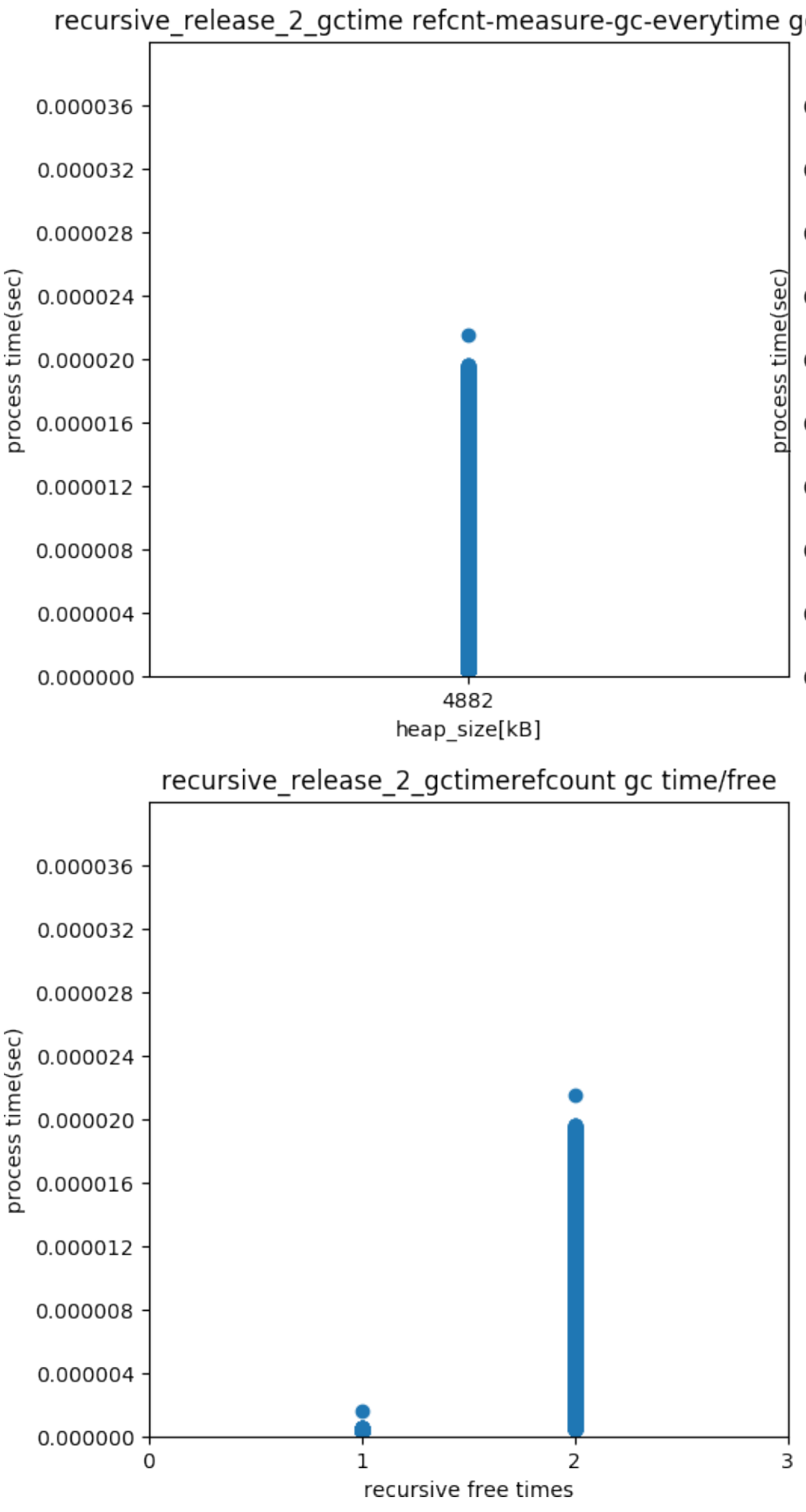

marksweep total time
marksweep
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
heap_size[kB]

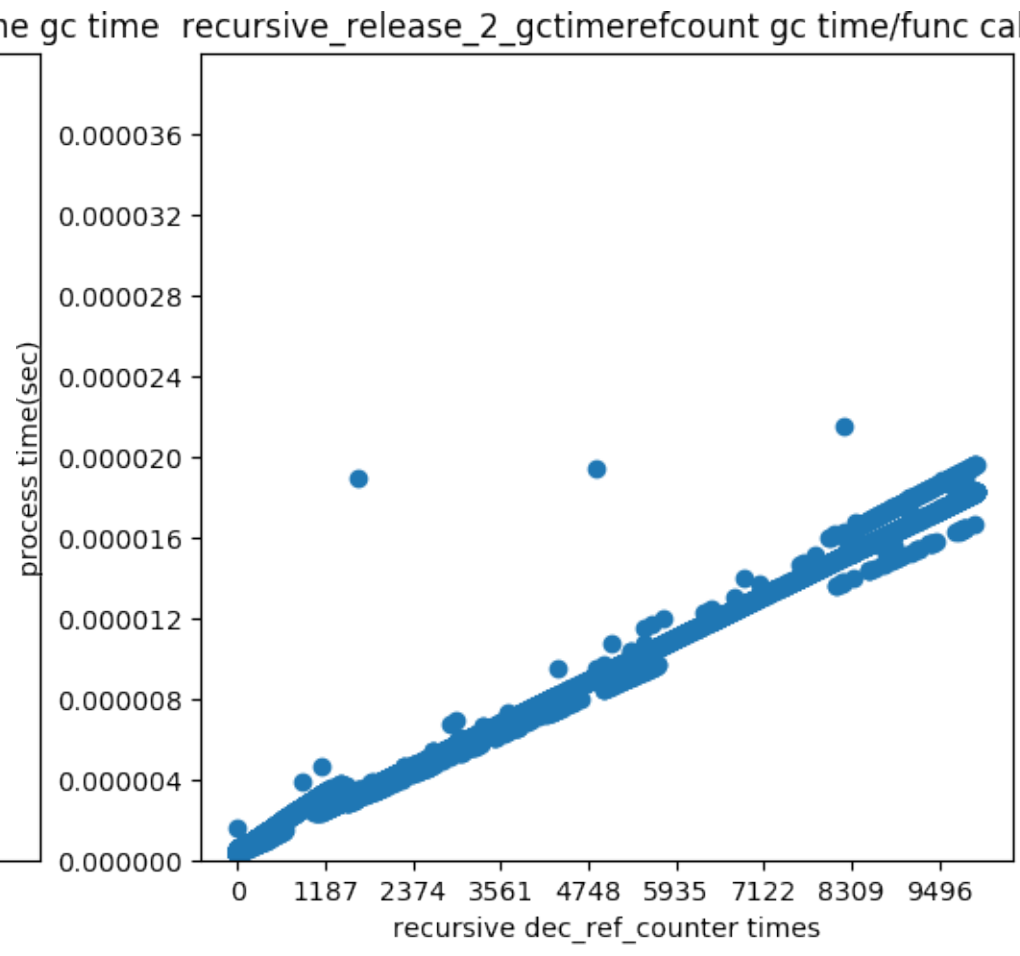

refcount total time
refcount
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
heap_size[kB]


recursive_release_1_gctime refcnt-measure-gc-everytime gc time
process time(sec)
0.00036
0.00032
0.00028
0.00024
0.00020
0.00016
0.00012
0.00008
0.00004
0.00000
4882
heap_size[kB]

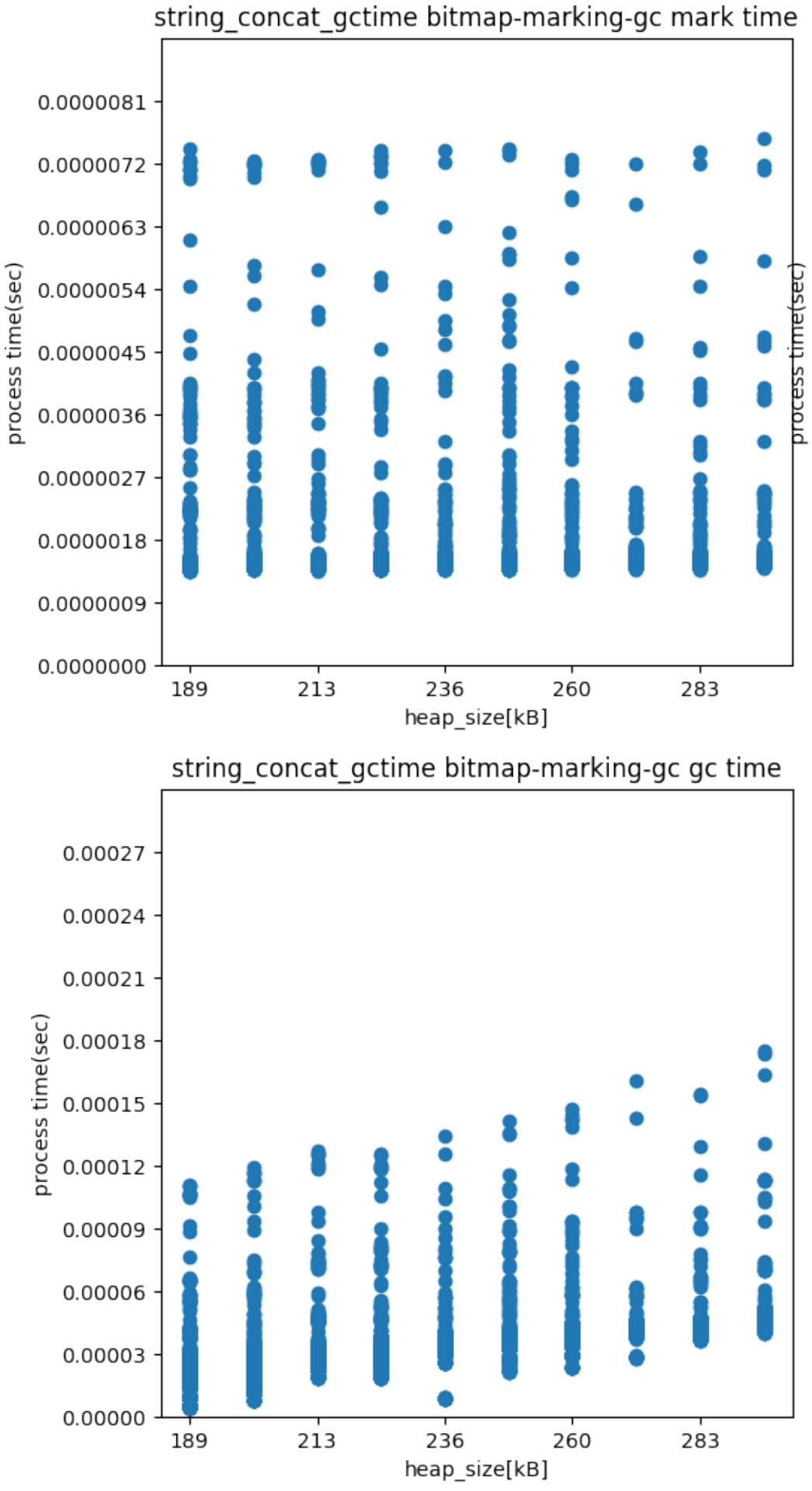

recursive_release_1_gctimerefcount gc time/func call
process time(sec)
0.00036
0.00032
0.00028
0.00024
0.00020
0.00016
0.00012
0.00008
0.00004
0.00000
0 1187 2374 3561 4748 5935 7122 8309 9496
recursive dec_ref_counter times

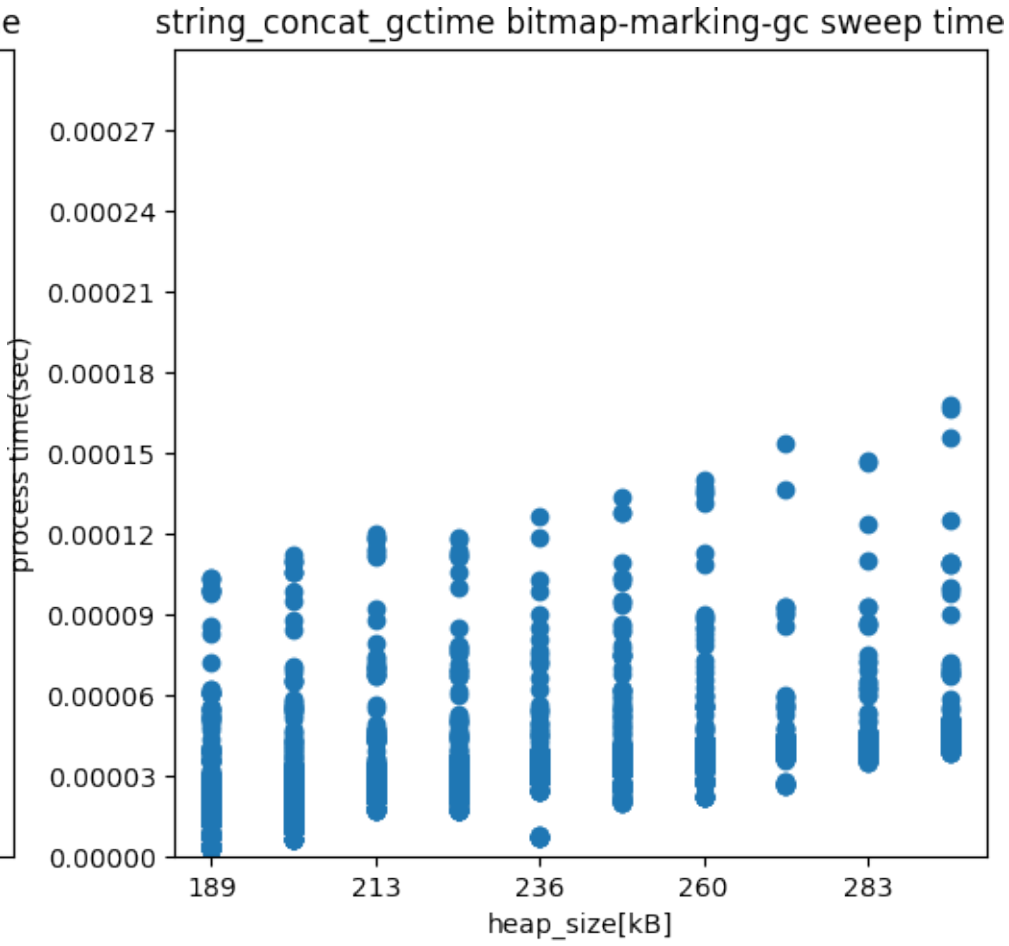

recursive_release_1_gctimerefcount gc time/free
process time(sec)
0.00036
0.00032
0.00028
0.00024
0.00020
0.00016
0.00012
0.00008
0.00004
0.00000
0 1875 3750 5625 7500 9375 11250 13125
recursive free times


recursive_release_2_gctime refcnt-measure-gc-everytime gc time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
4882
heap_size[kB]

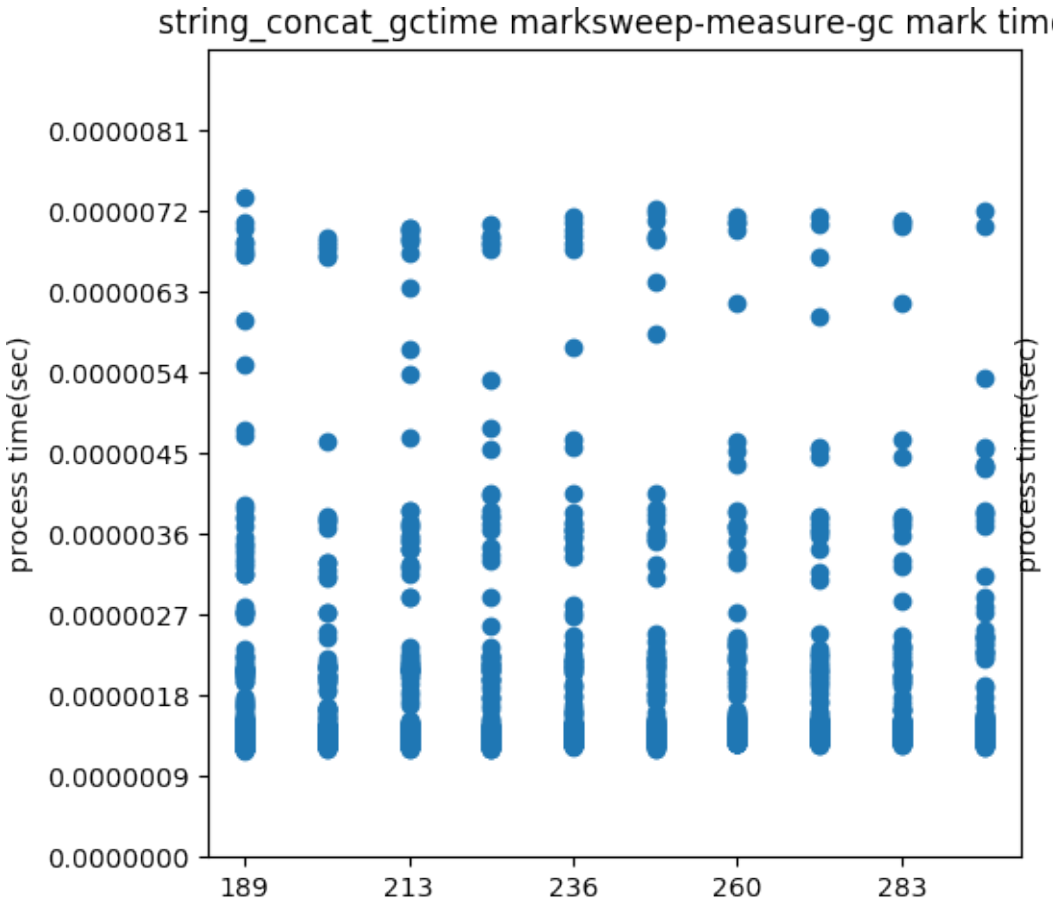

recursive_release_2_gctimerefcount gc time/func call
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
0
1187
2374
3561
4748
5935
7122
8309
9496
recursive dec_ref_counter times

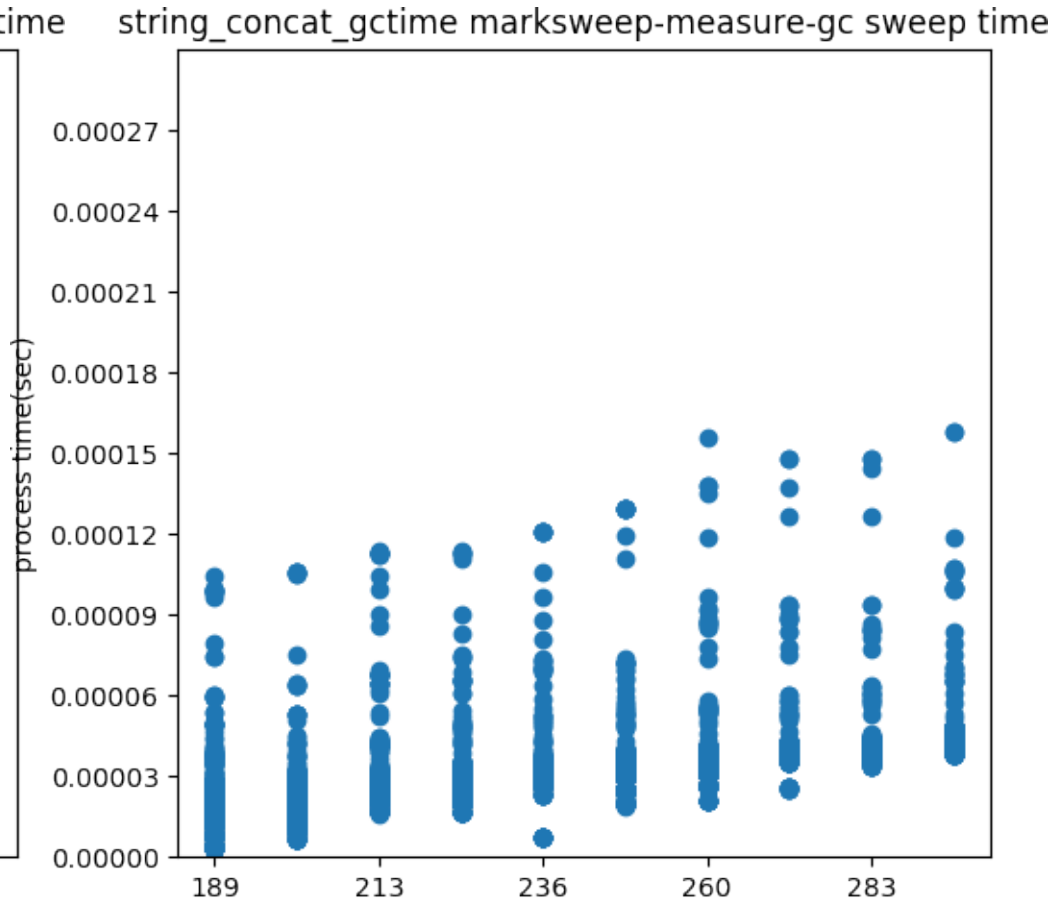
recursive_release_2_gctimerefcount gc time/free
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
0
1
2
3
recursive free times

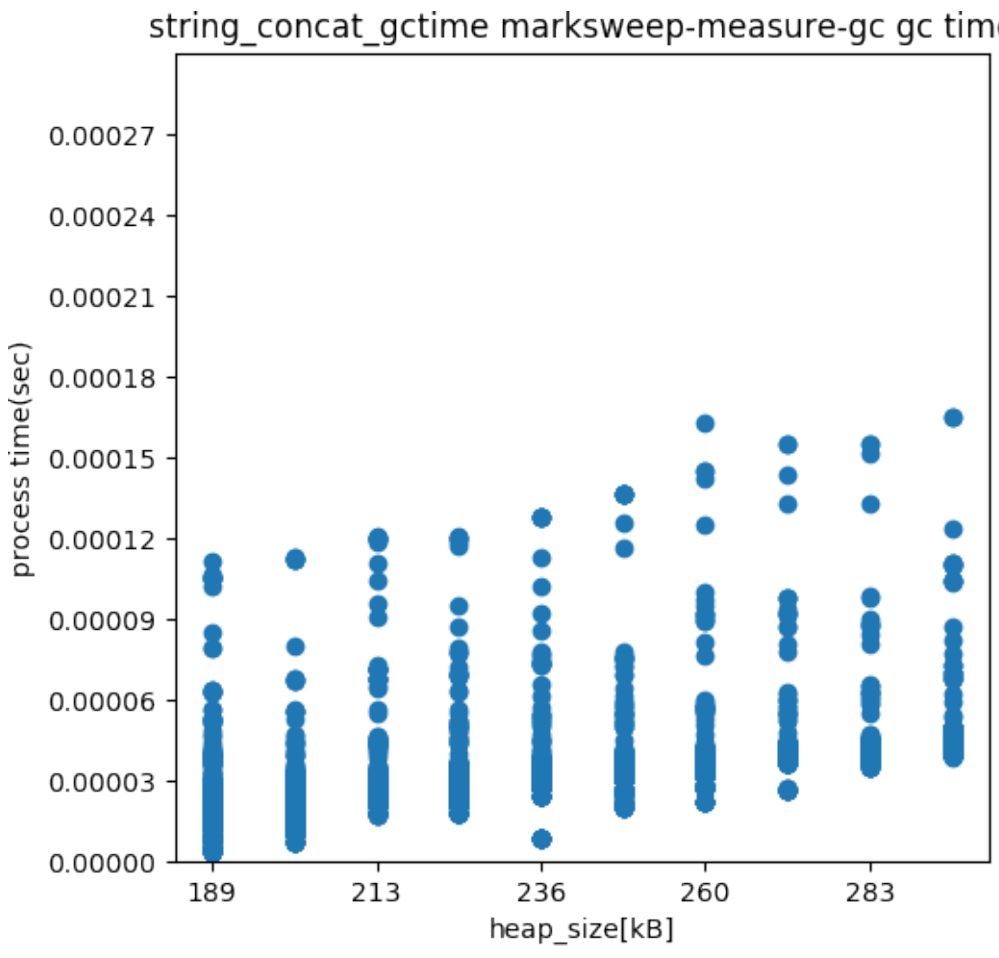

string_concat_gctime bitmap-marking-gc mark time
process time(sec)
0.0000081
0.0000072
0.0000063
0.0000054
0.0000045
0.0000036
0.0000027
0.0000018
0.0000009
0.0000000
189
213
236
260
283
heap_size[kB]

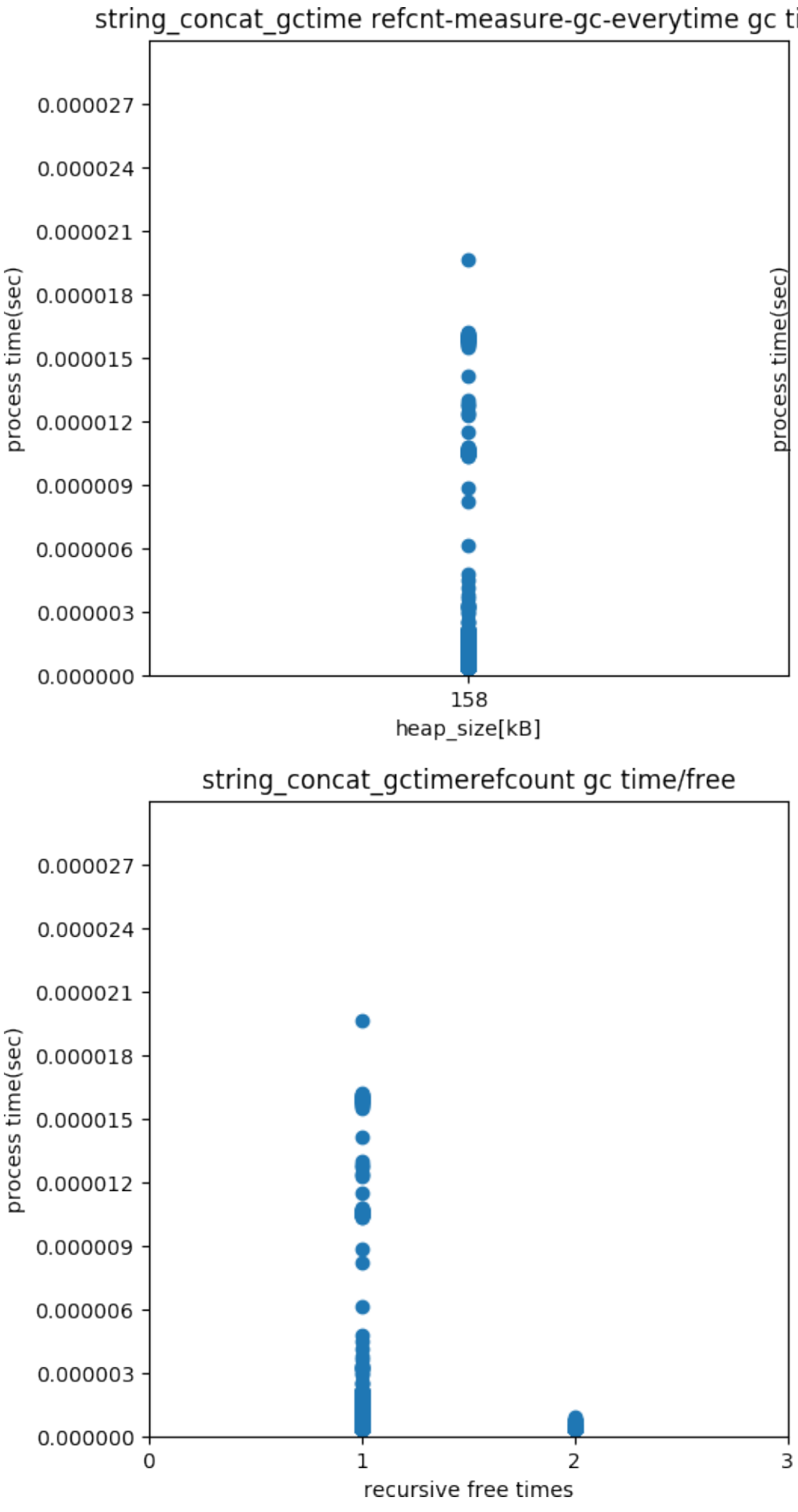

string_concat_gctime bitmap-marking-gc sweep time
process time(sec)
0.00027
0.00024
0.00021
0.00018
0.00015
0.00012
0.00009
0.00006
0.00003
0.00000
189
213
236
260
283
heap_size[kB]

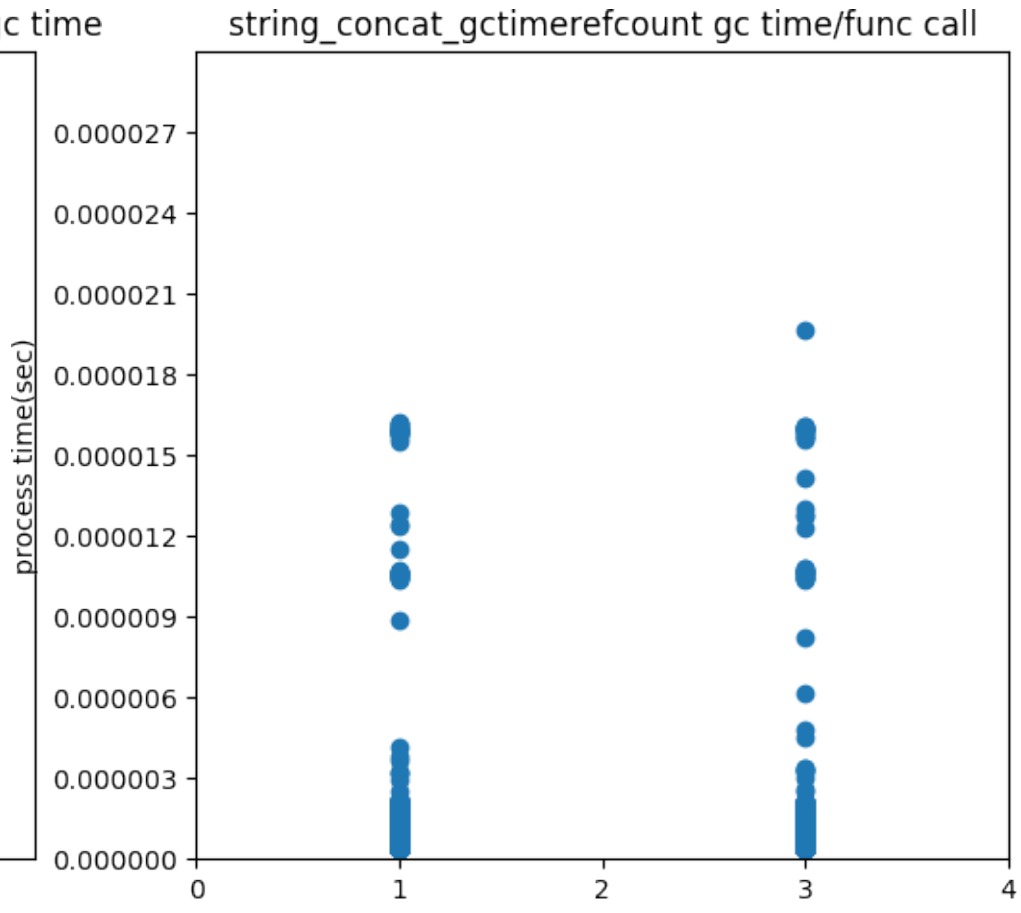
string_concat_gctime bitmap-marking-gc gc time
process time(sec)
0.00027
0.00024
0.00021
0.00018
0.00015
0.00012
0.00009
0.00006
0.00003
0.00000
189
213
236
260
283
heap_size[kB]


string_concat_gctime marksweep-measure-gc mark time
process time(sec)
0.0000081
0.0000072
0.0000063
0.0000054
0.0000045
0.0000036
0.0000027
0.0000018
0.0000009
0.0000000
189
213
236
260
283
heap_size[kB]

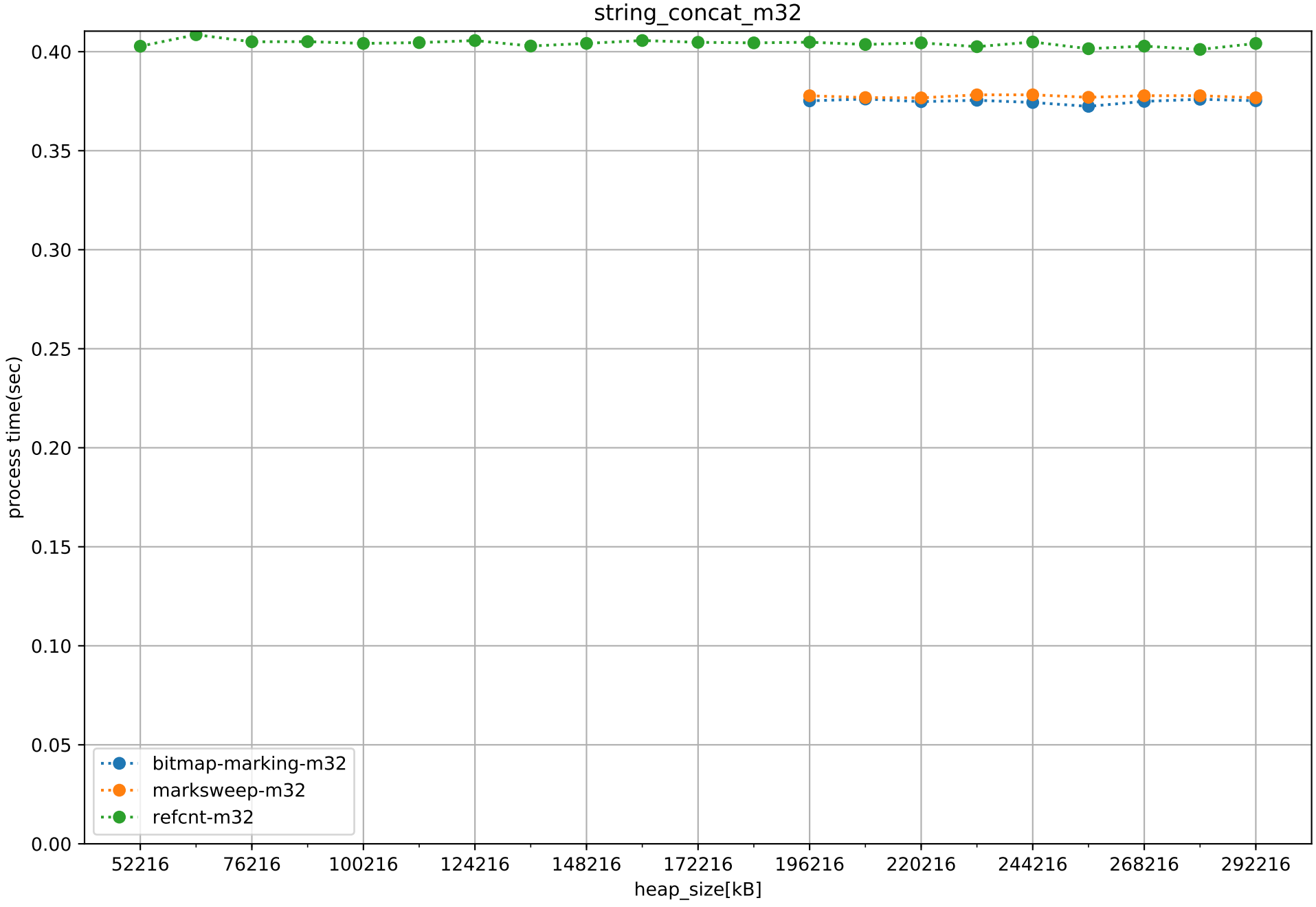

string_concat_gctime marksweep-measure-gc sweep time
process time(sec)
0.00027
0.00024
0.00021
0.00018
0.00015
0.00012
0.00009
0.00006
0.00003
0.00000
189
213
236
260
283
heap_size[kB]

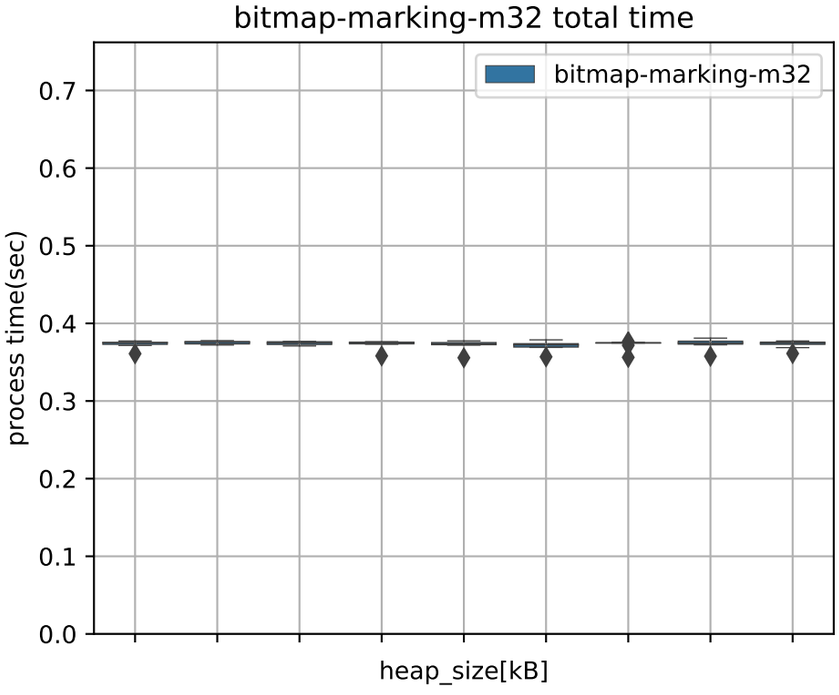

string_concat_gctime marksweep-measure-gc gc time
process time(sec)
0.00027
0.00024
0.00021
0.00018
0.00015
0.00012
0.00009
0.00006
0.00003
0.00000
189
213
236
260
283
heap_size[kB]

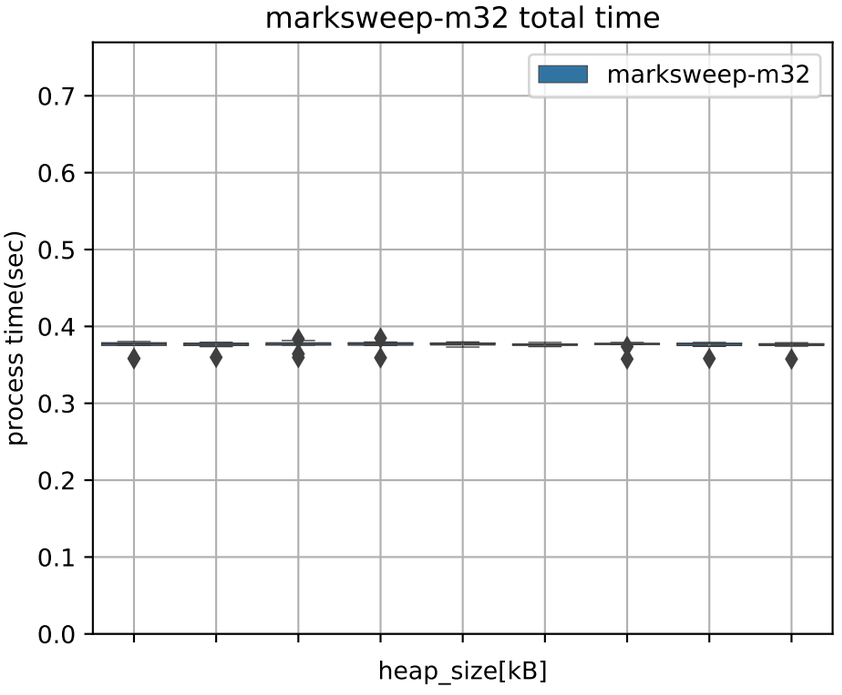

string_concat_gctime refcnt-measure-gc-everytime gc time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
158
heap_size[kB]

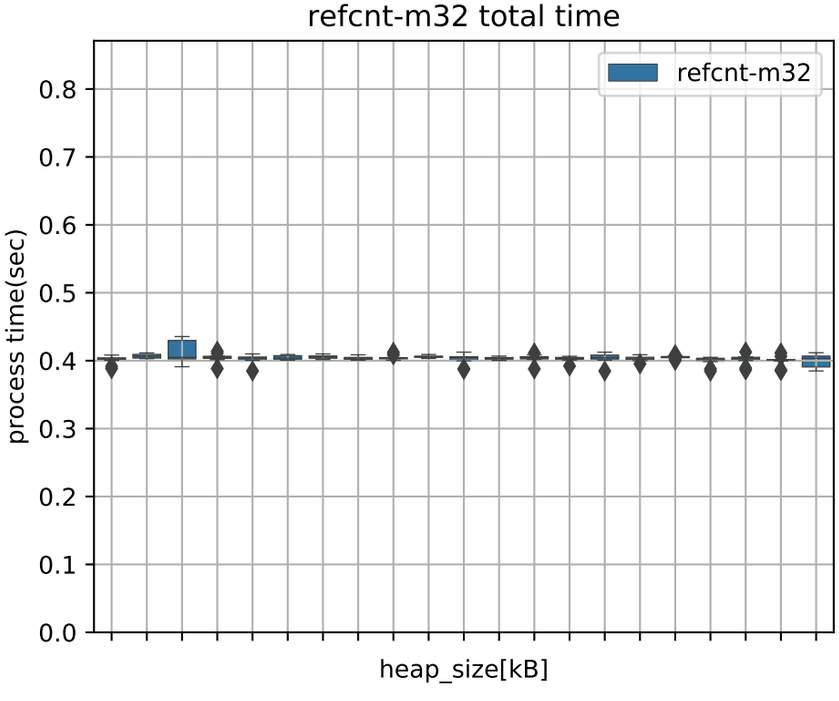

string_concat_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
1
2
3
4
recursive dec_ref_counter times

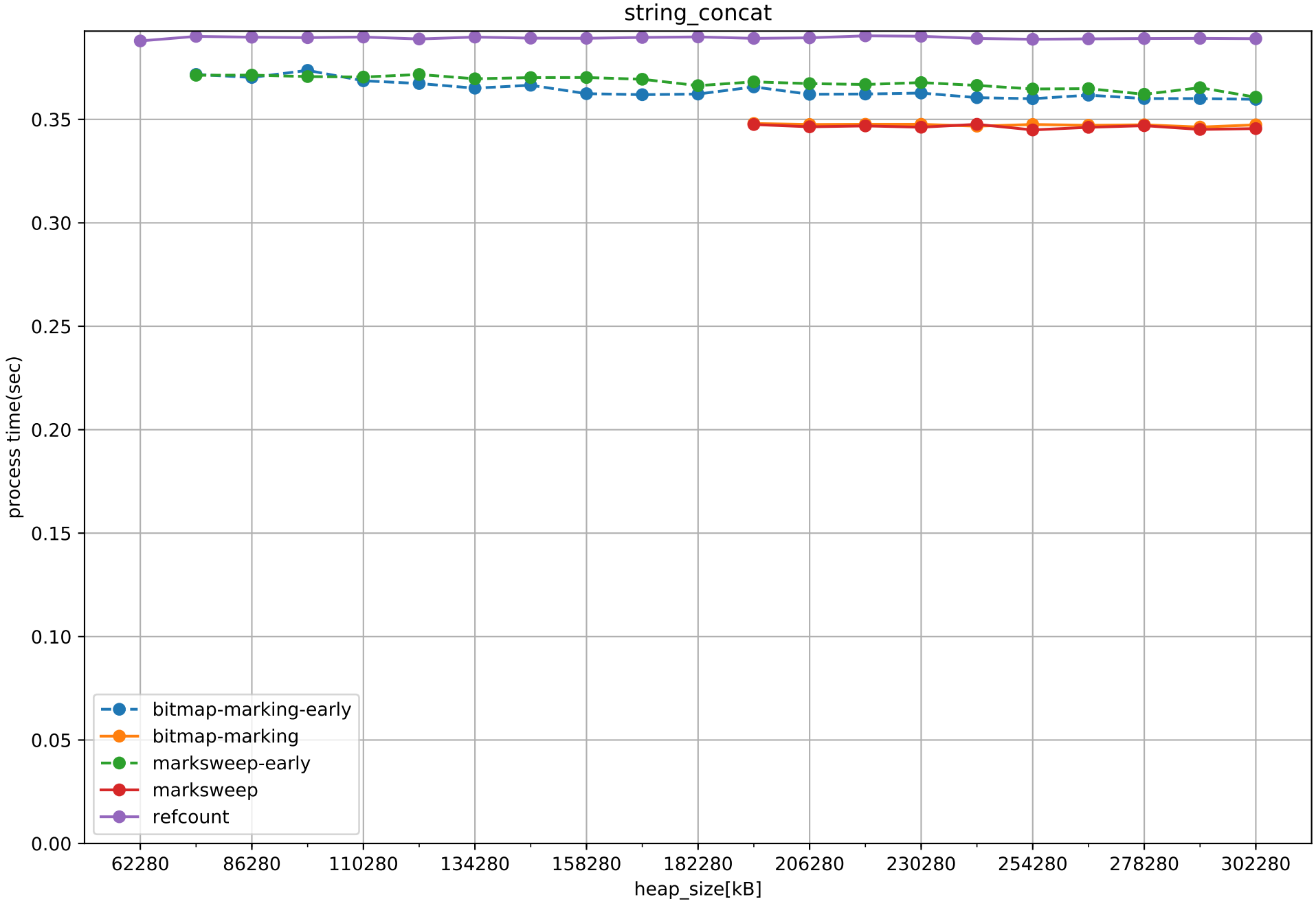
string_concat_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
1
2
3
recursive free times

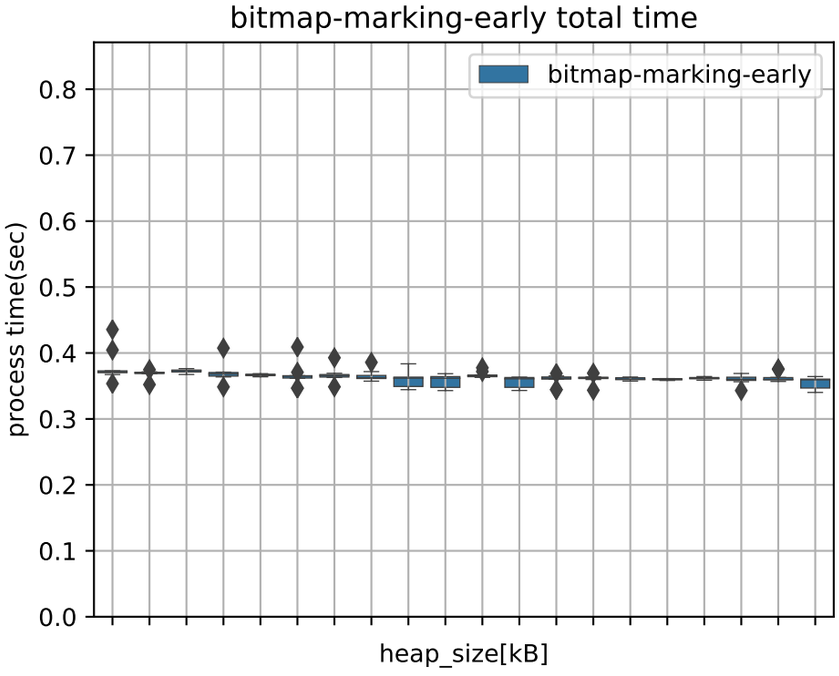

string_concat_m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
52216
76216
100216
124216
148216
172216
196216
220216
244216
268216
292216
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

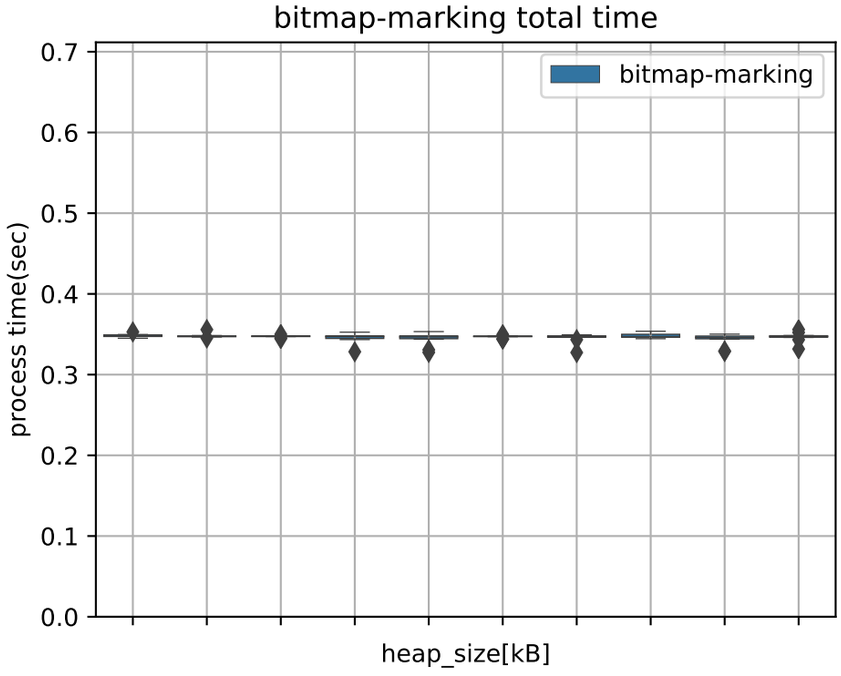

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
heap_size[kB]

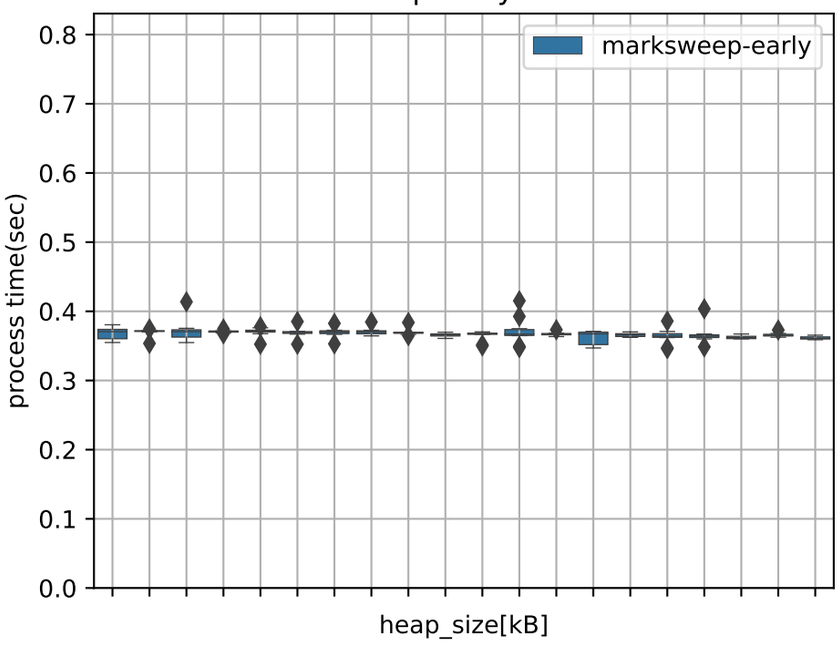

marksweep-m32 total time
marksweep-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
heap_size[kB]

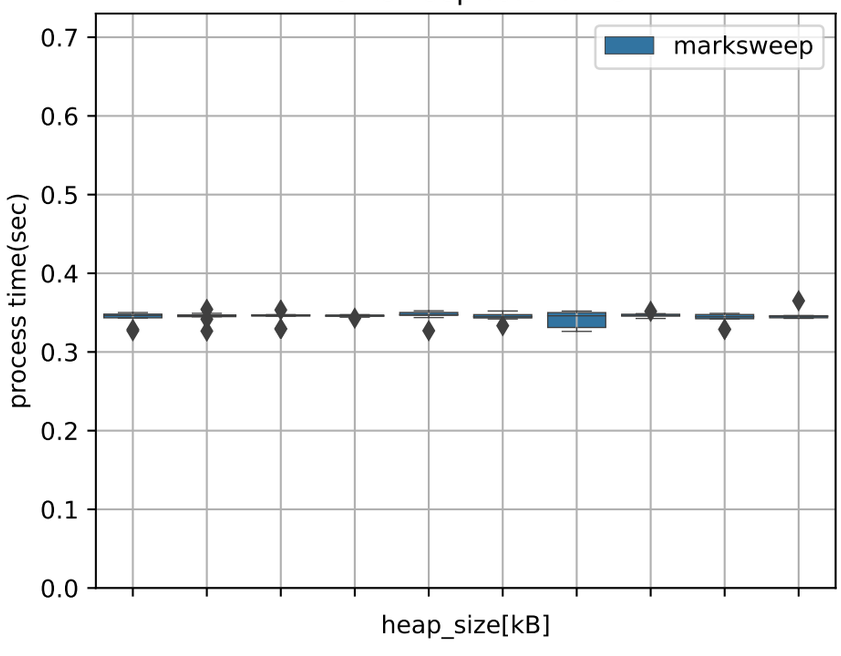

refcnt-m32 total time
refcnt-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
heap_size[kB]

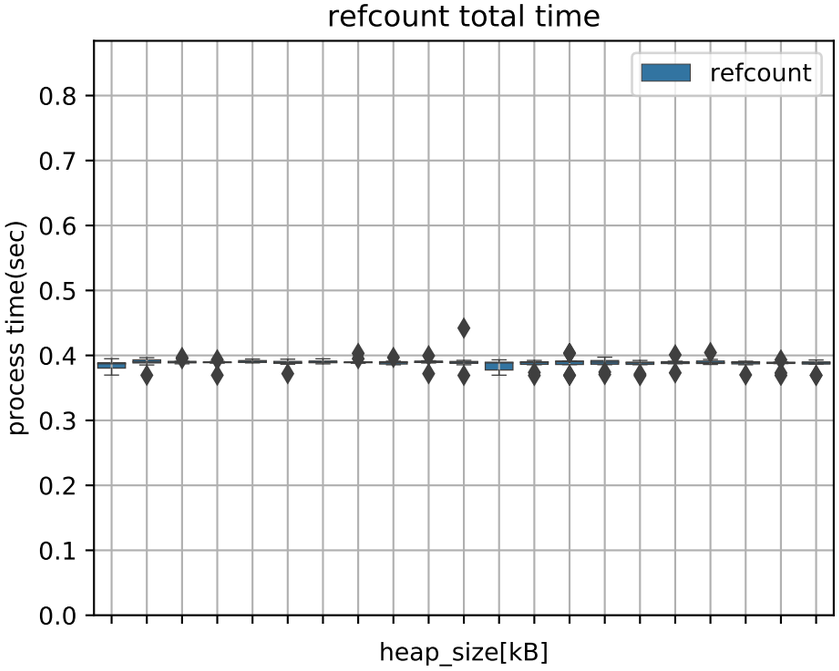

string_concat
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
62280
86280
110280
134280
158280
182280
206280
230280
254280
278280
302280
heap_size[kB]
bitmap-marking-early
bitmap-marking
marksweep-early
marksweep
refcount


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]