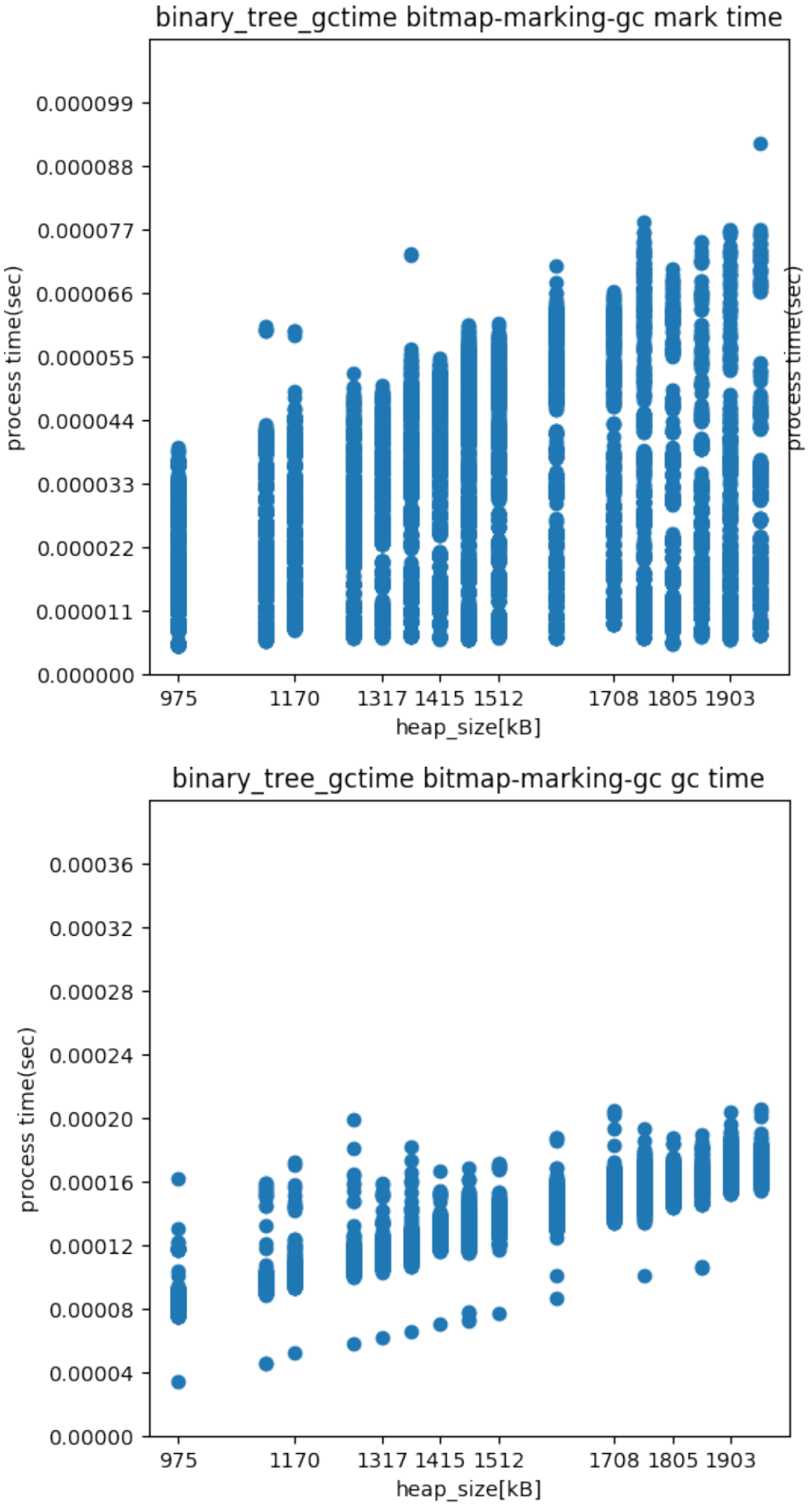
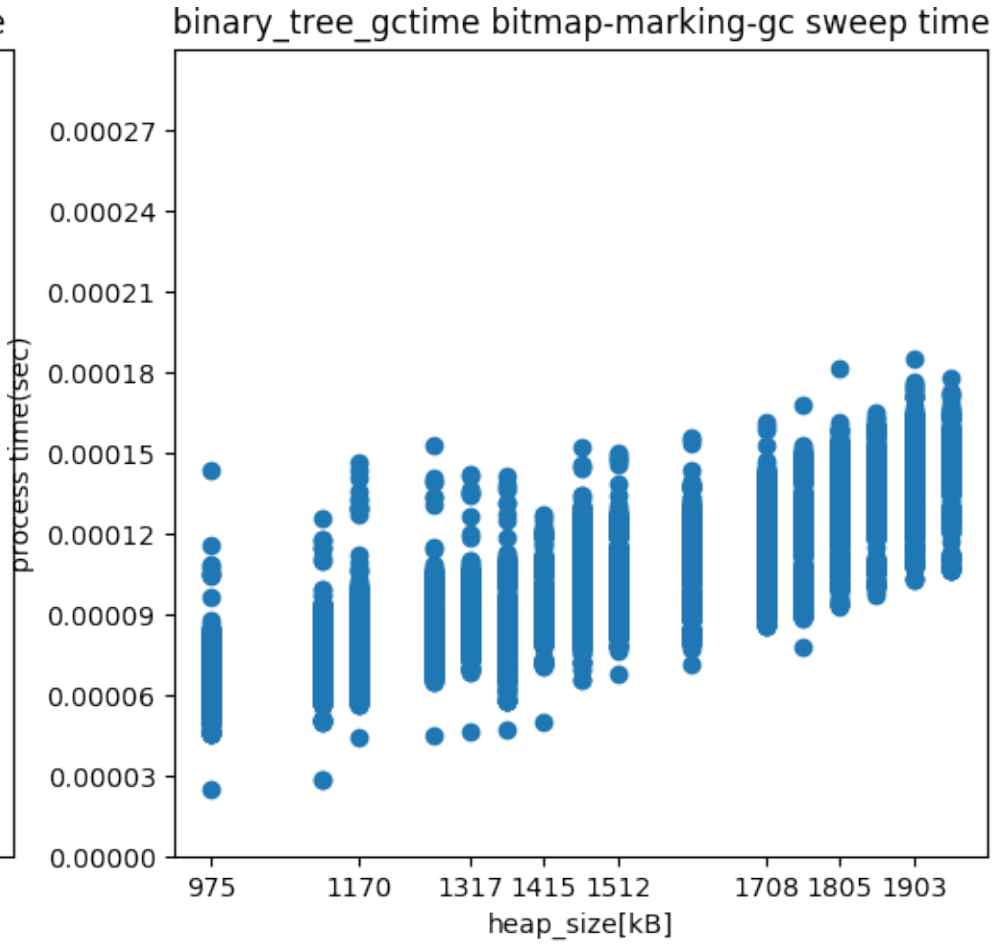
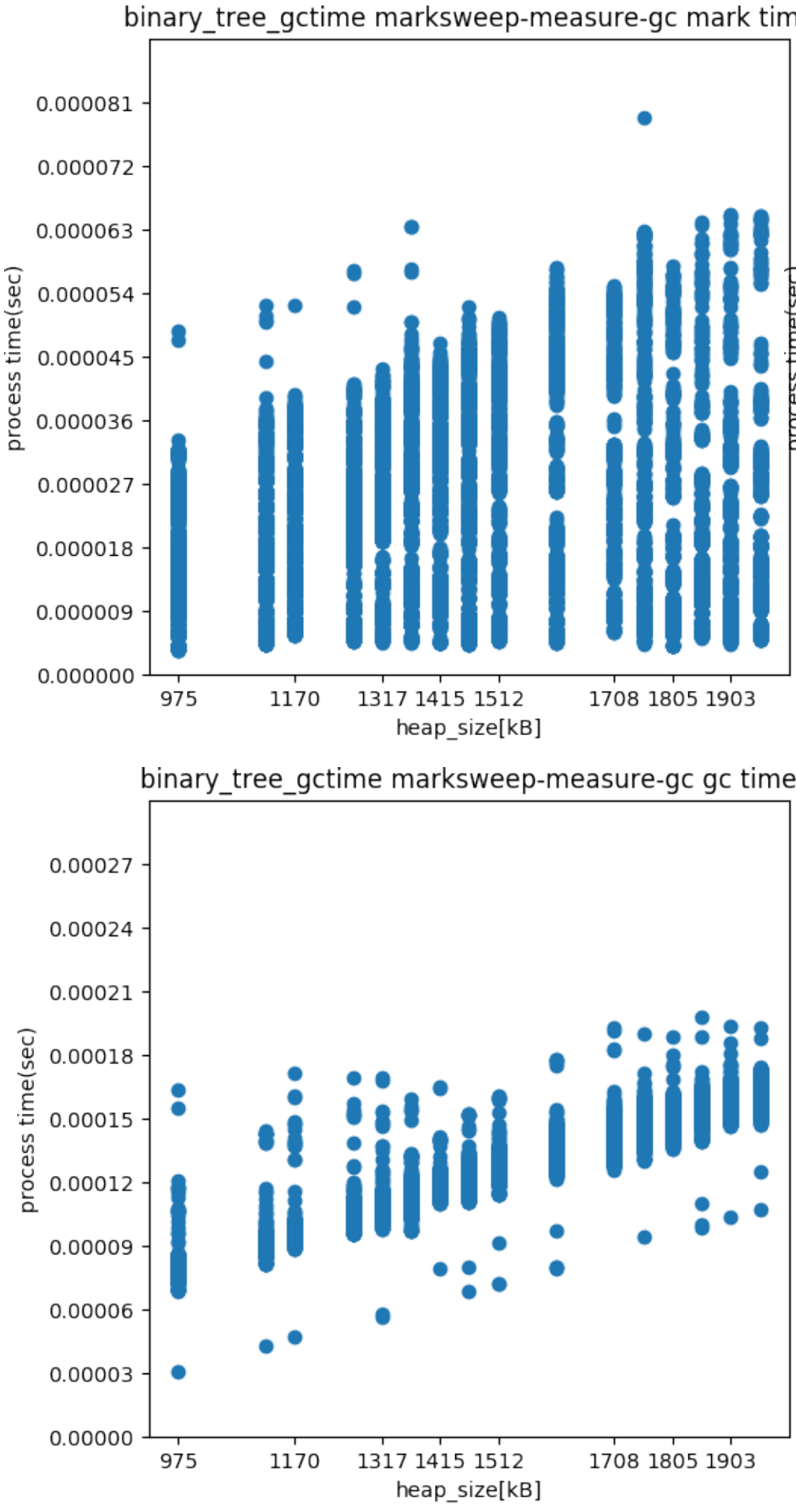
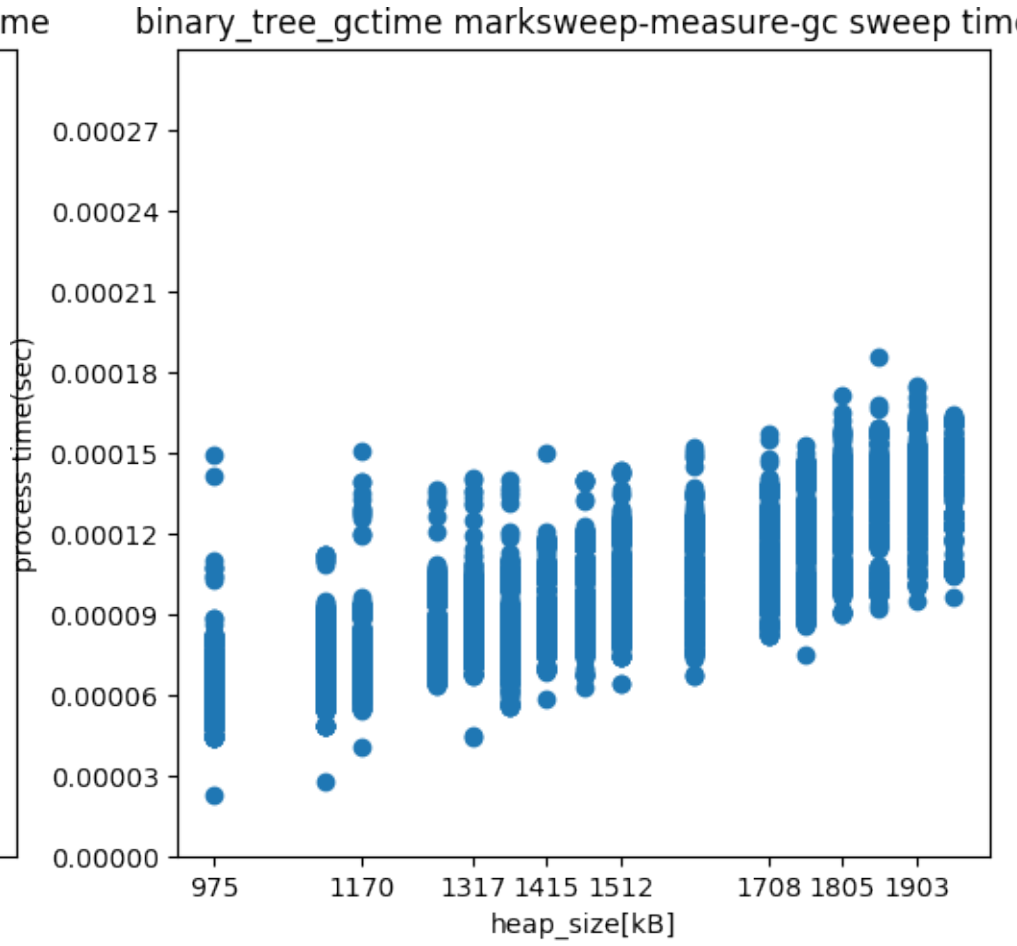

binary_tree_gctime bitmap-marking-gc mark time
process time(sec)
0.000000
0.000011
0.000022
0.000033
0.000044
0.000055
0.000066
0.000077
0.000088
0.000099
975
1170
1317 1415 1512
1708 1805 1903
heap_size[kB]

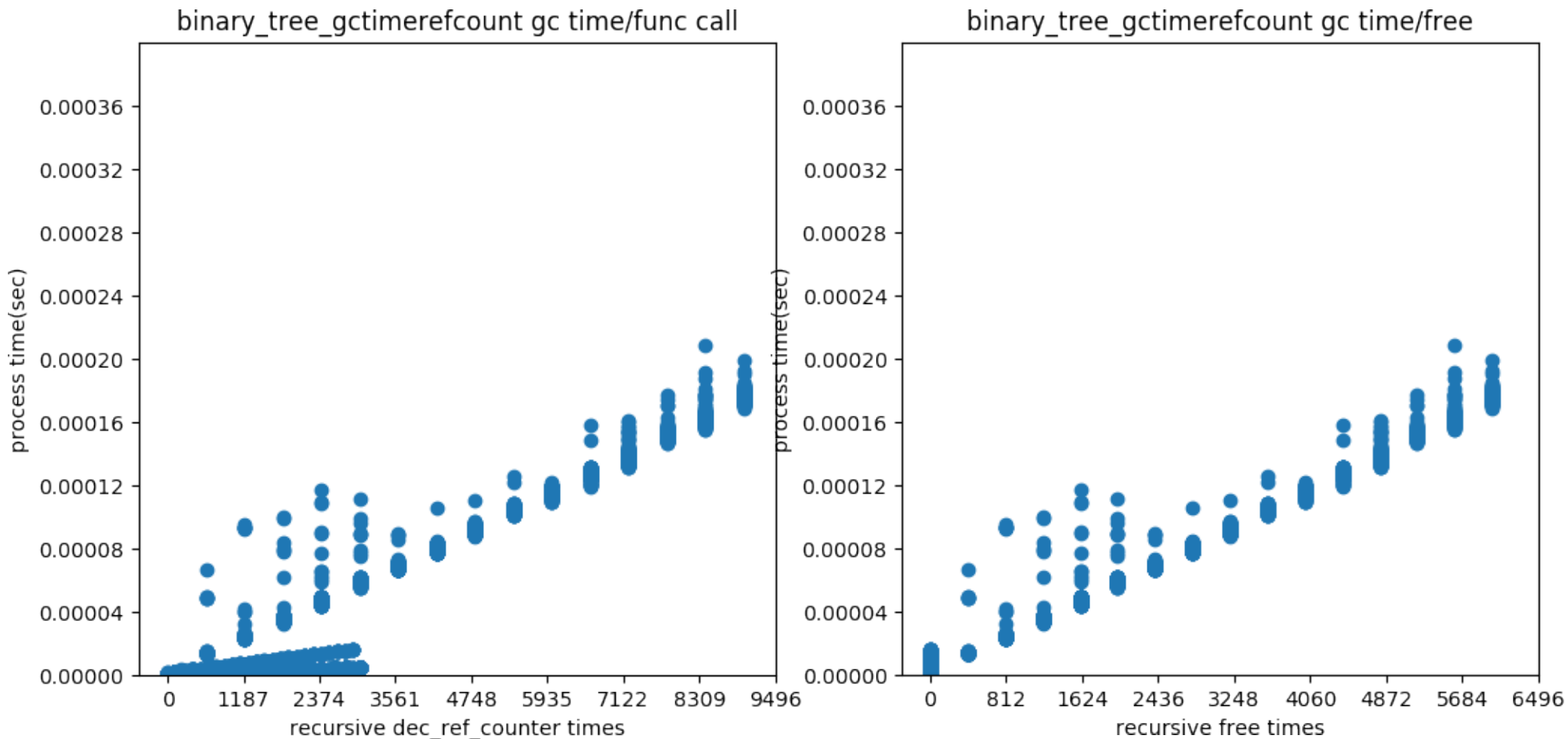

binary_tree_gctime bitmap-marking-gc sweep time
process time(sec)
0.00000
0.00003
0.00006
0.00009
0.00012
0.00015
0.00018
0.00021
0.00024
0.00027
975
1170
1317 1415 1512
1708 1805 1903
heap_size[kB]

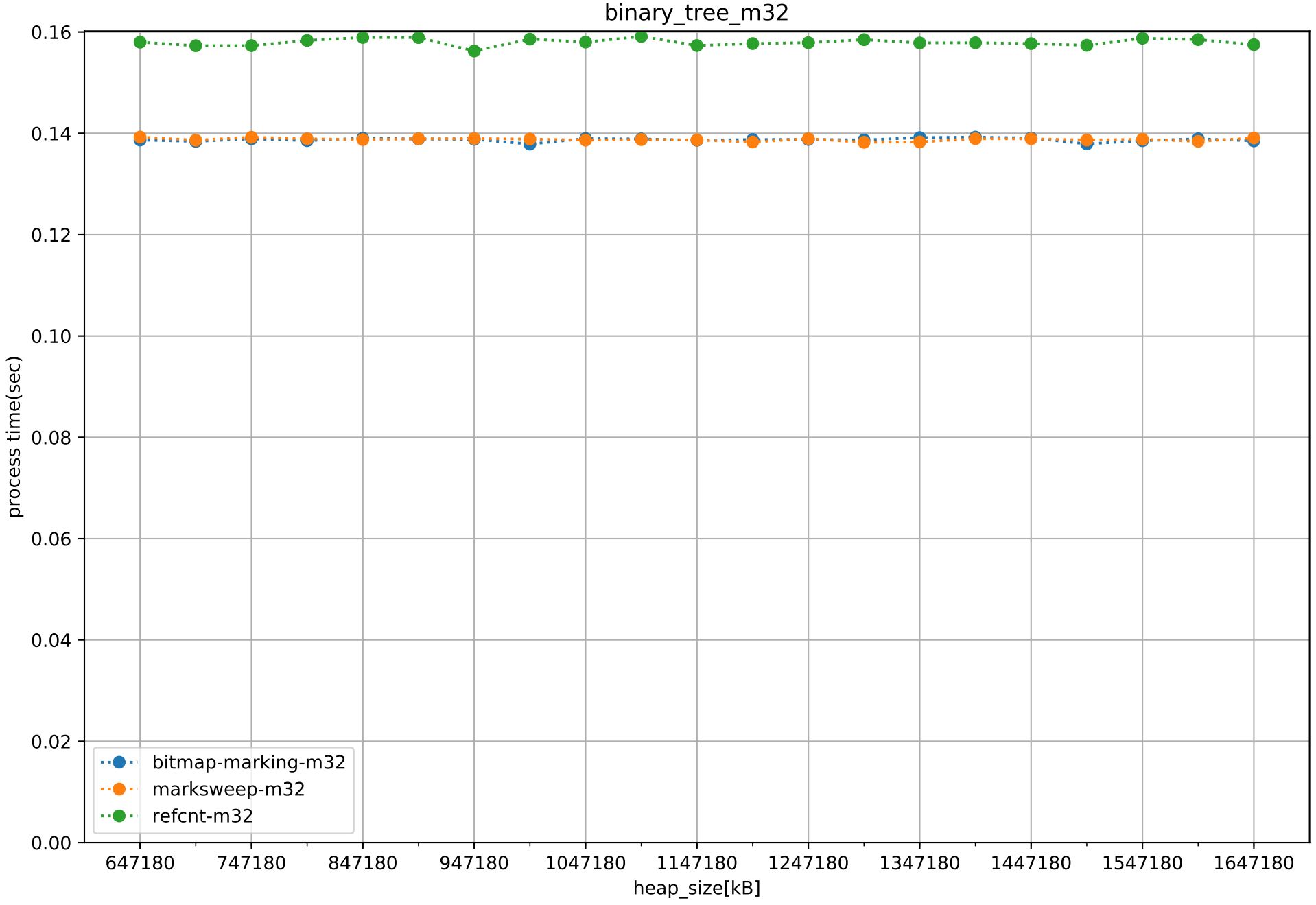
binary_tree_gctime bitmap-marking-gc gc time
process time(sec)
0.00000
0.00004
0.00008
0.00012
0.00016
0.00020
0.00024
0.00028
0.00032
0.00036
975
1170
1317 1415 1512
1708 1805 1903
heap_size[kB]

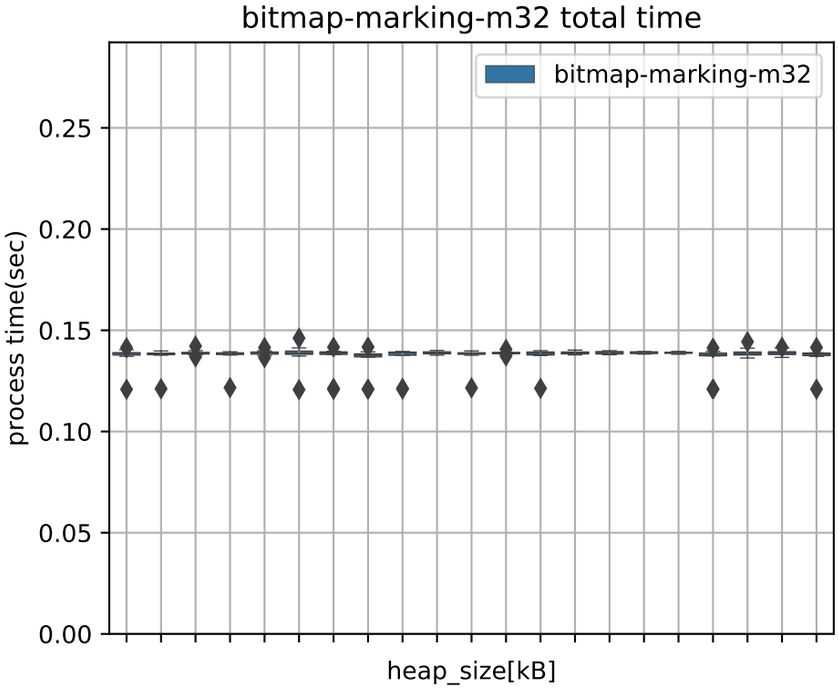

binary_tree_gctime marksweep-measure-gc mark time
process time(sec)
0.000081
0.000072
0.000063
0.000054
0.000045
0.000036
0.000027
0.000018
0.000009
0.000000
975
1170
1317 1415 1512
1708 1805 1903
heap_size[kB]

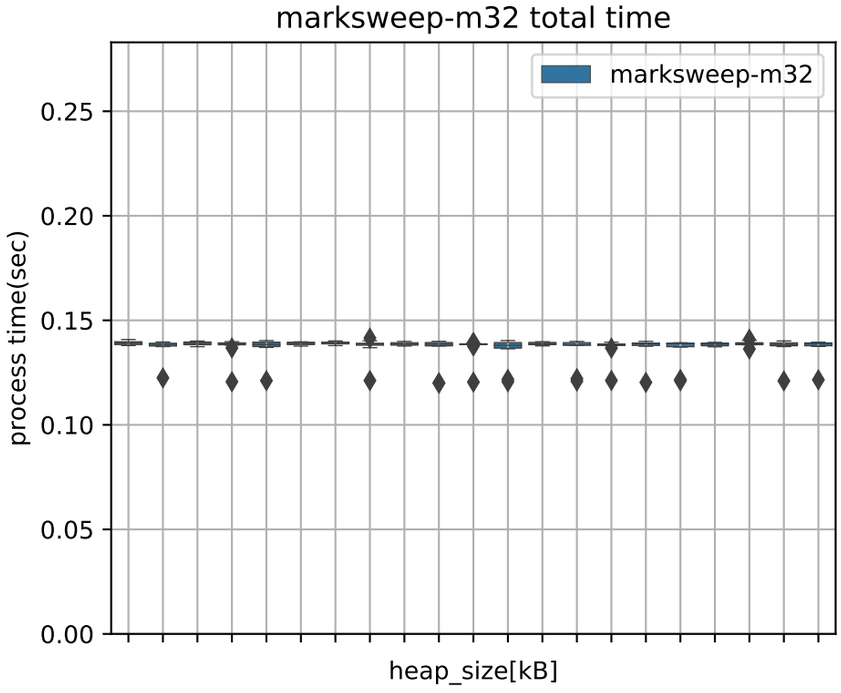

binary_tree_gctime marksweep-measure-gc sweep time
process time(sec)
0.00027
0.00024
0.00021
0.00018
0.00015
0.00012
0.00009
0.00006
0.00003
0.00000
975
1170
1317 1415 1512
1708 1805 1903
heap_size[kB]

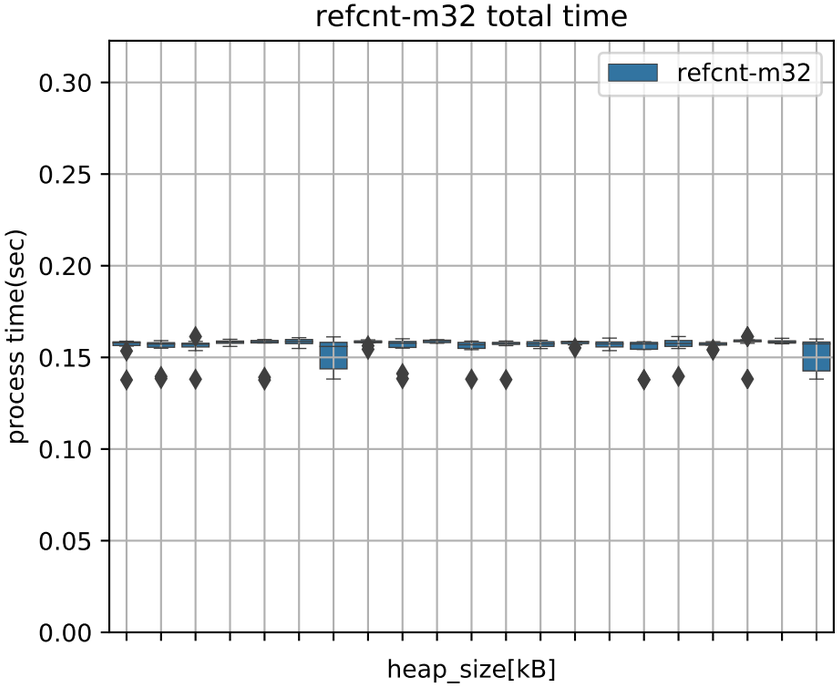
binary_tree_gctime marksweep-measure-gc gc time
process time(sec)
0.00027
0.00024
0.00021
0.00018
0.00015
0.00012
0.00009
0.00006
0.00003
0.00000
975
1170
1317 1415 1512
1708 1805 1903
heap_size[kB]

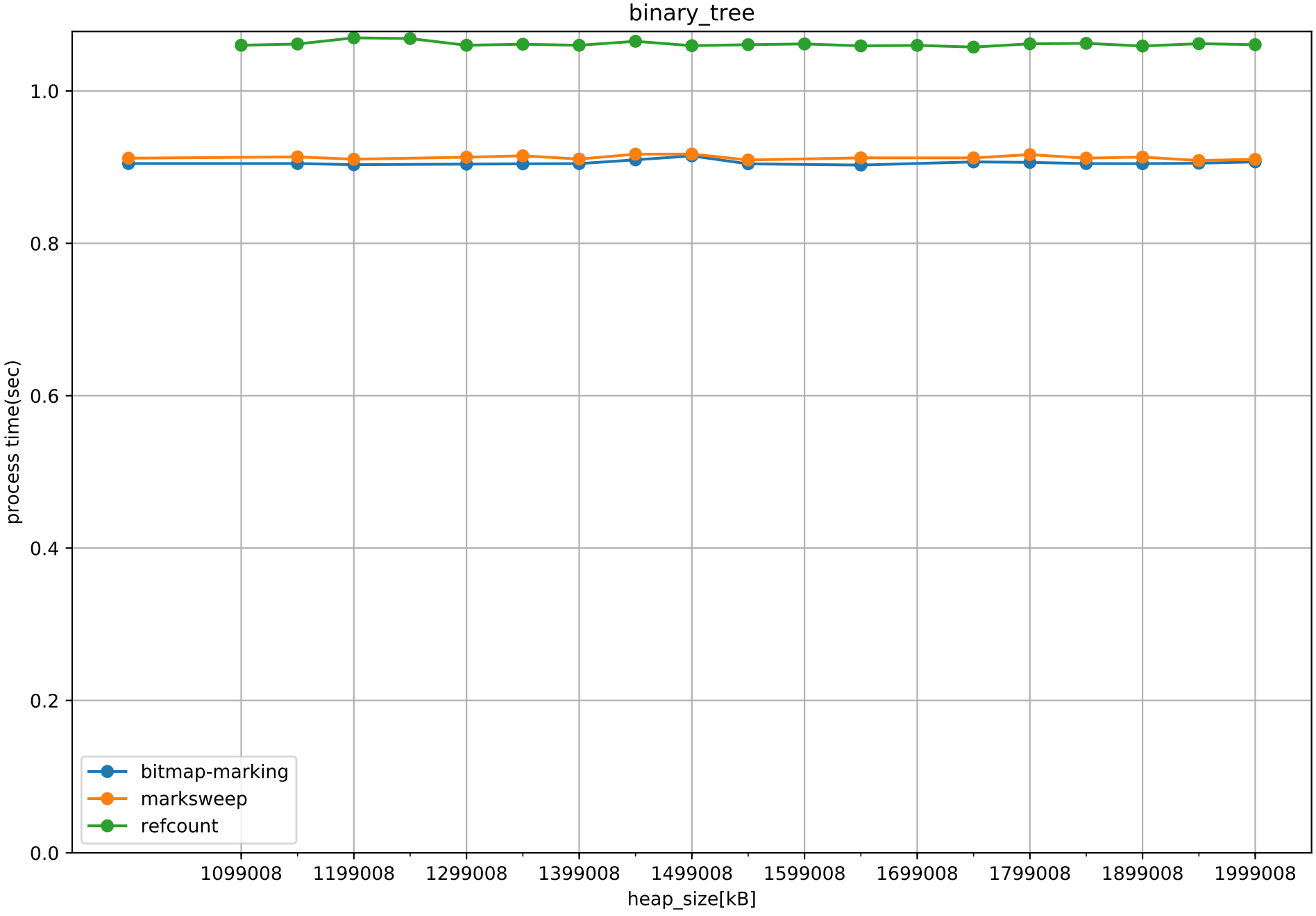

binary_tree_gctimerefcount gc time/func call
process time(sec)
0.00000
0.00004
0.00008
0.00012
0.00016
0.00020
0.00024
0.00028
0.00032
0.00036
0
1187
2374
3561
4748
5935
7122
8309
9496
recursive dec_ref_counter times
binary_tree_gctimerefcount gc time/free
process time(sec)
0.00000
0.00004
0.00008
0.00012
0.00016
0.00020
0.00024
0.00028
0.00032
0.00036
0
812
1624
2436
3248
4060
4872
5684
6496
recursive free times

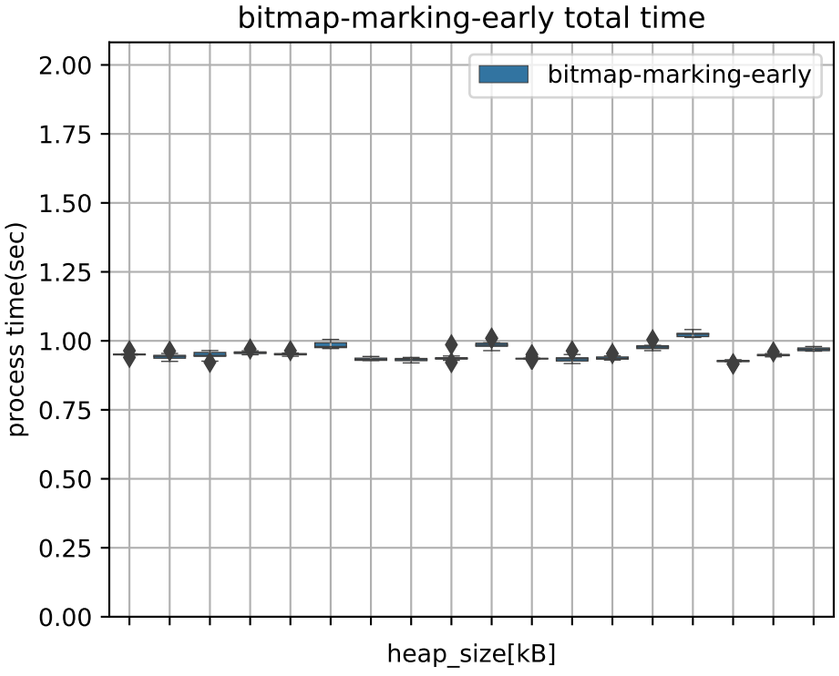

binary_tree_m32
process time(sec)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
647180
747180
847180
947180
1047180
1147180
1247180
1347180
1447180
1547180
1647180
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

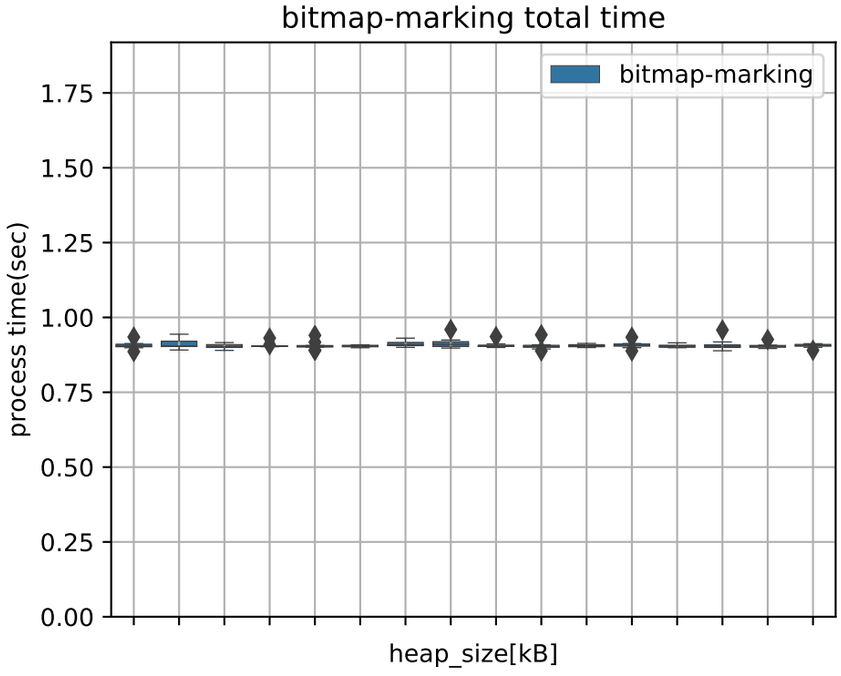

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
heap_size[kB]

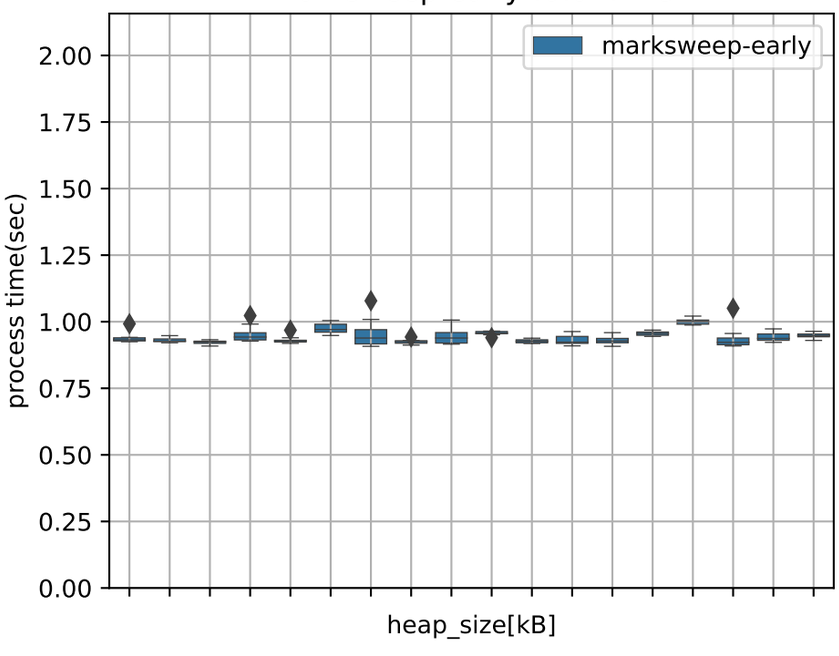

marksweep-m32 total time
marksweep-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
heap_size[kB]

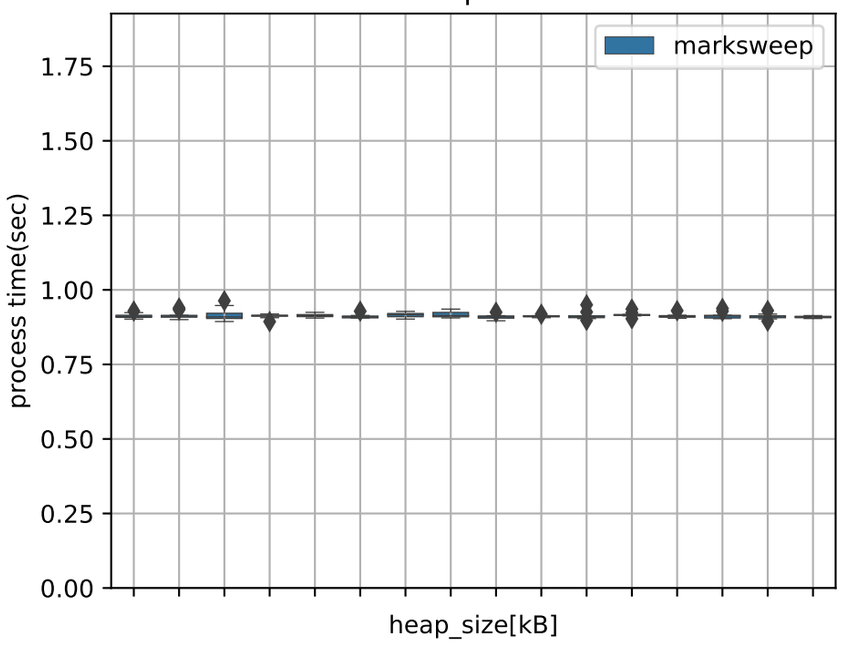

refcnt-m32 total time
refcnt-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
heap_size[kB]

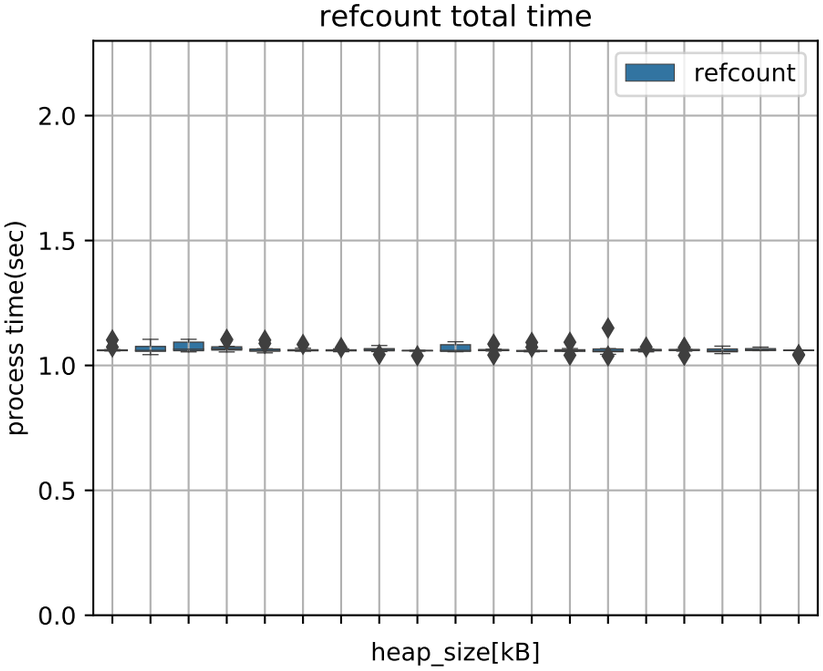

binary_tree
process time(sec)
0.0
0.2
0.4
0.6
0.8
1.0
1099008
1199008
1299008
1399008
1499008
1599008
1699008
1799008
1899008
1999008
heap_size[kB]
bitmap-marking
marksweep
refcount

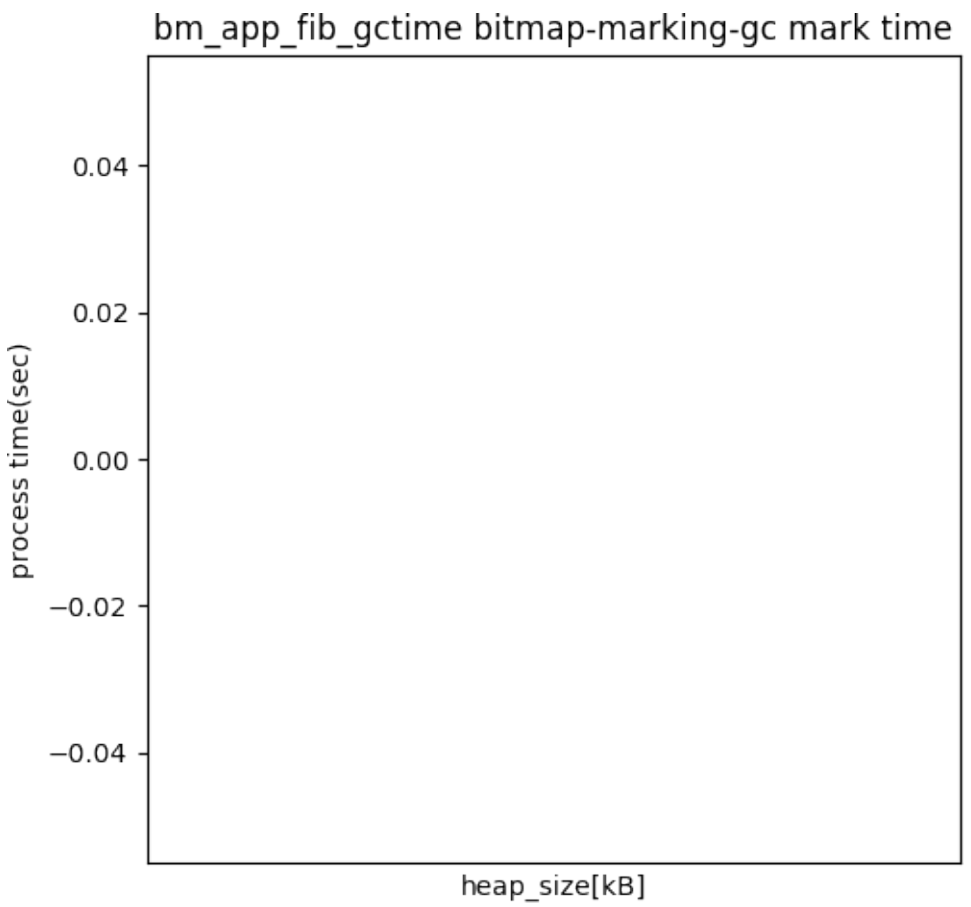

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

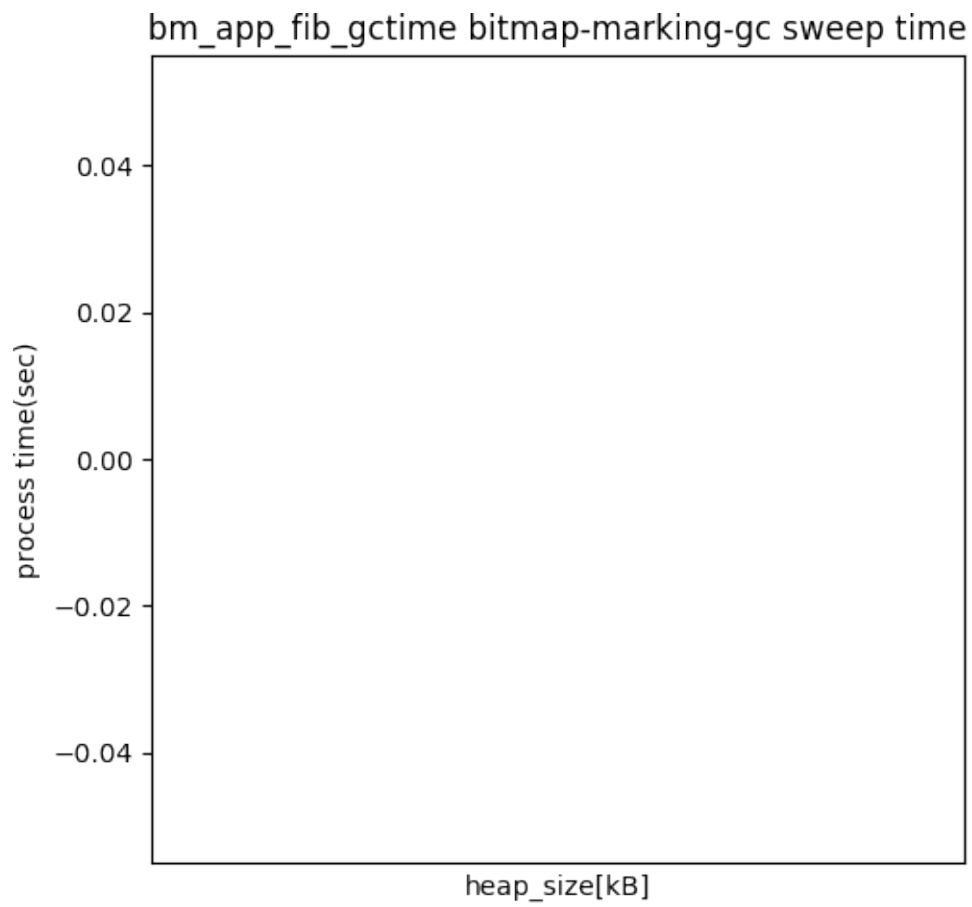

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]

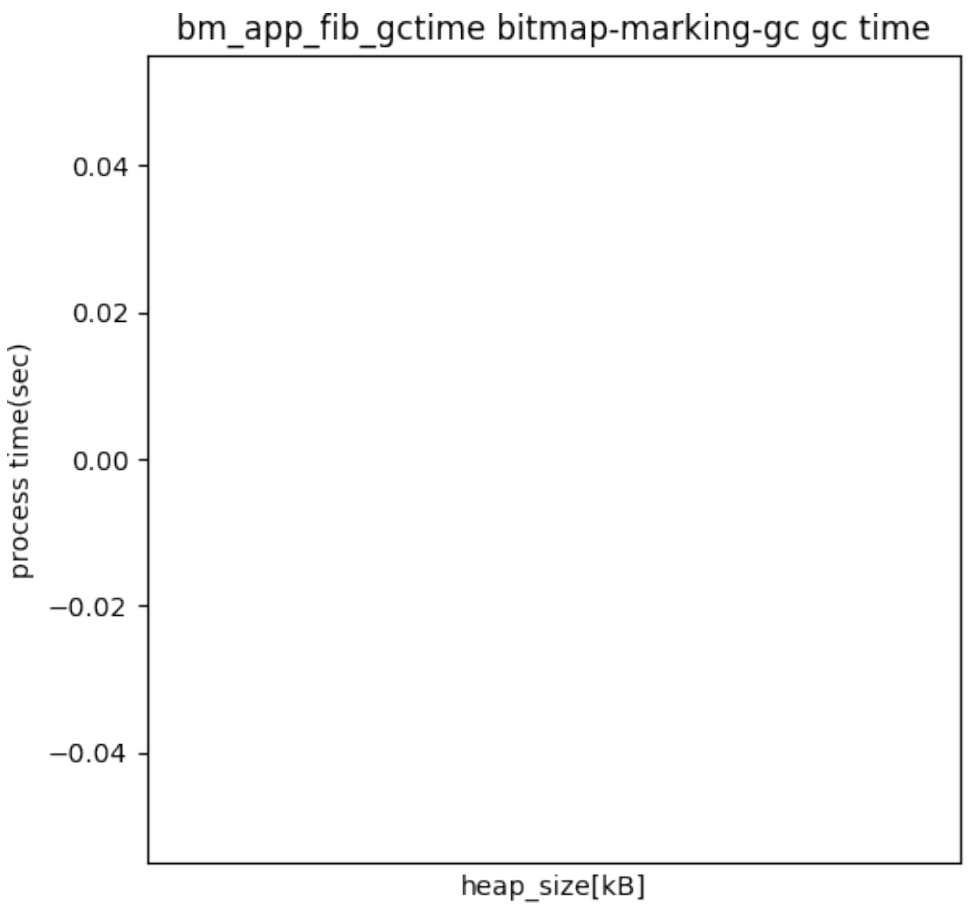

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

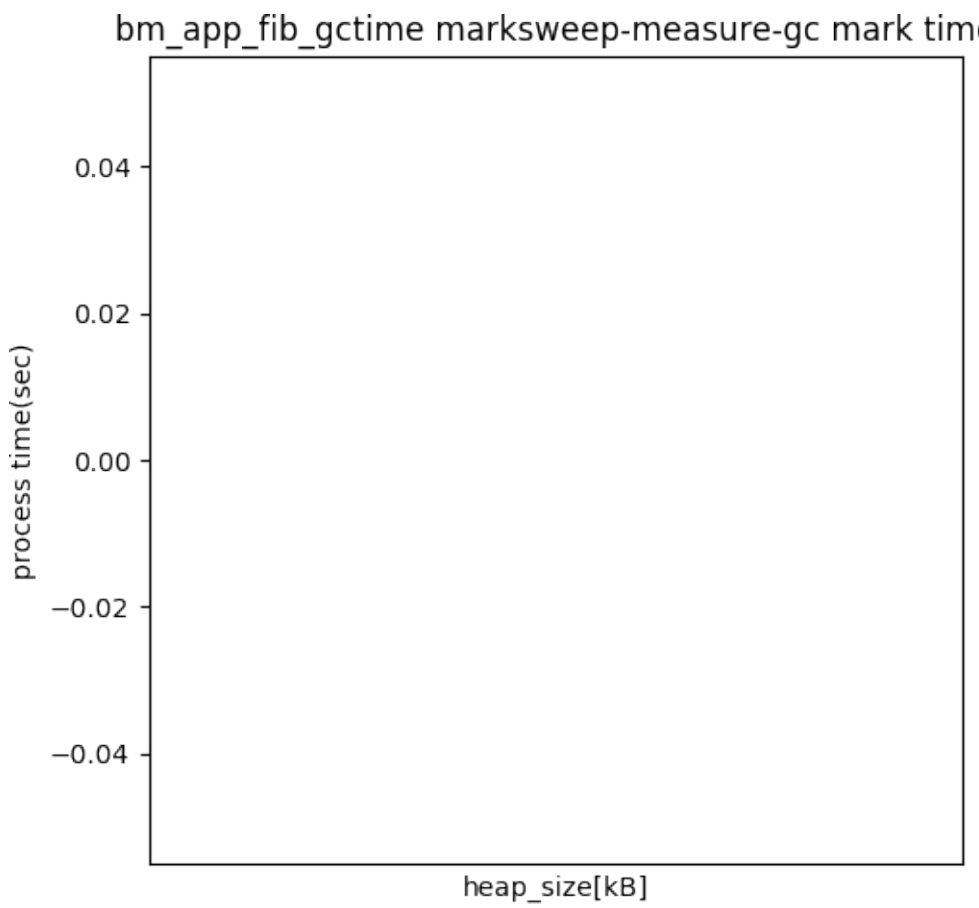

marksweep total time
marksweep
process time(sec)
heap_size[kB]

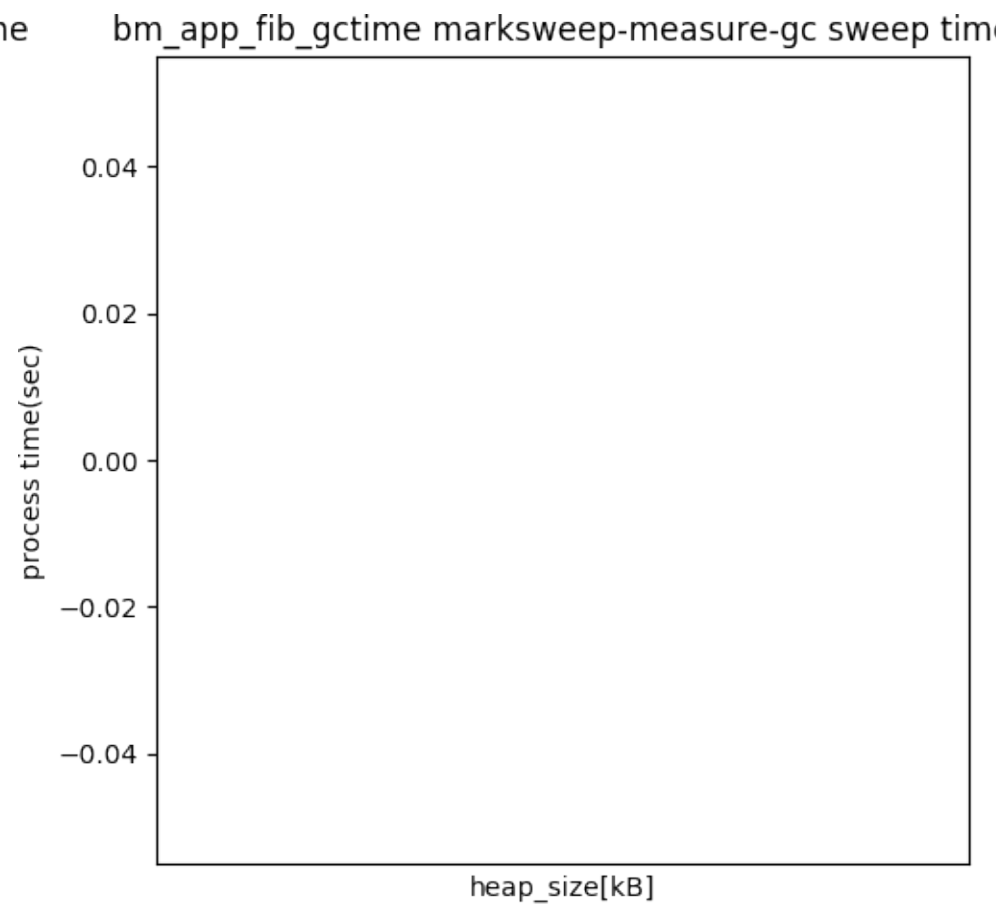

refcount total time
refcount
process time(sec)
heap_size[kB]

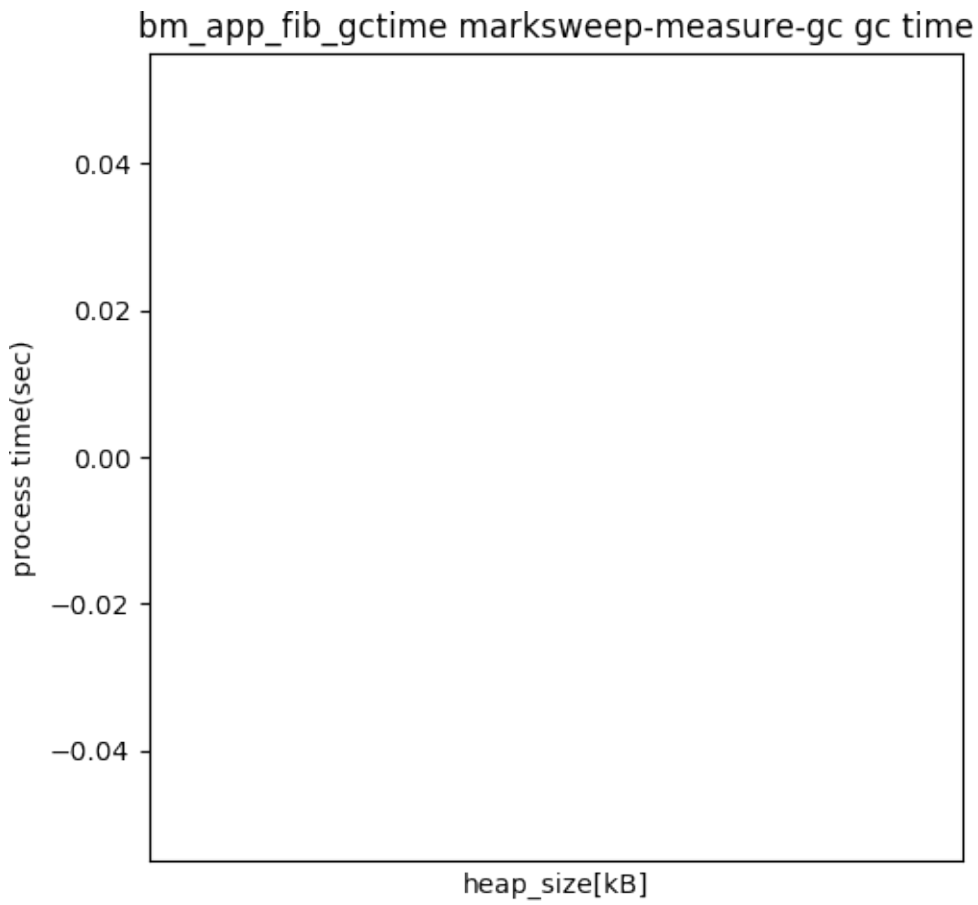

bm_app_fib_gctime bitmap-marking-gc mark time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

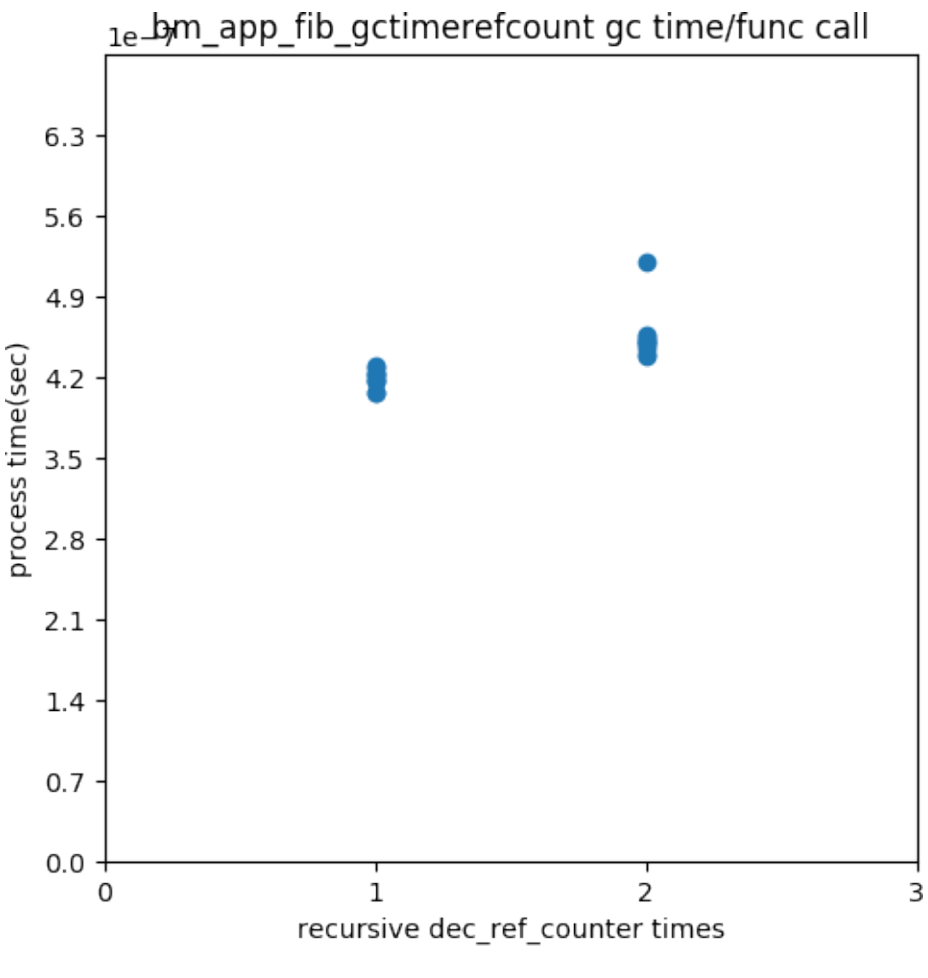

bm_app_fib_gctime bitmap-marking-gc sweep time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

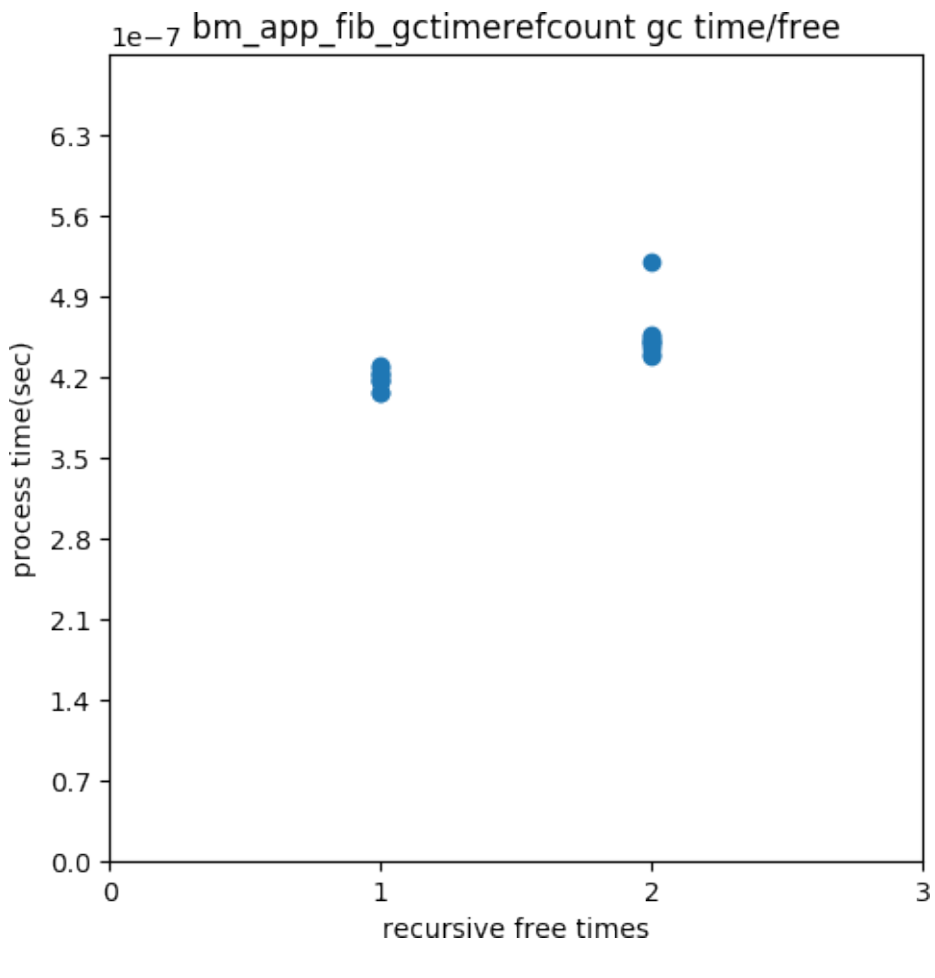

bm_app_fib_gctime bitmap-marking-gc gc time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

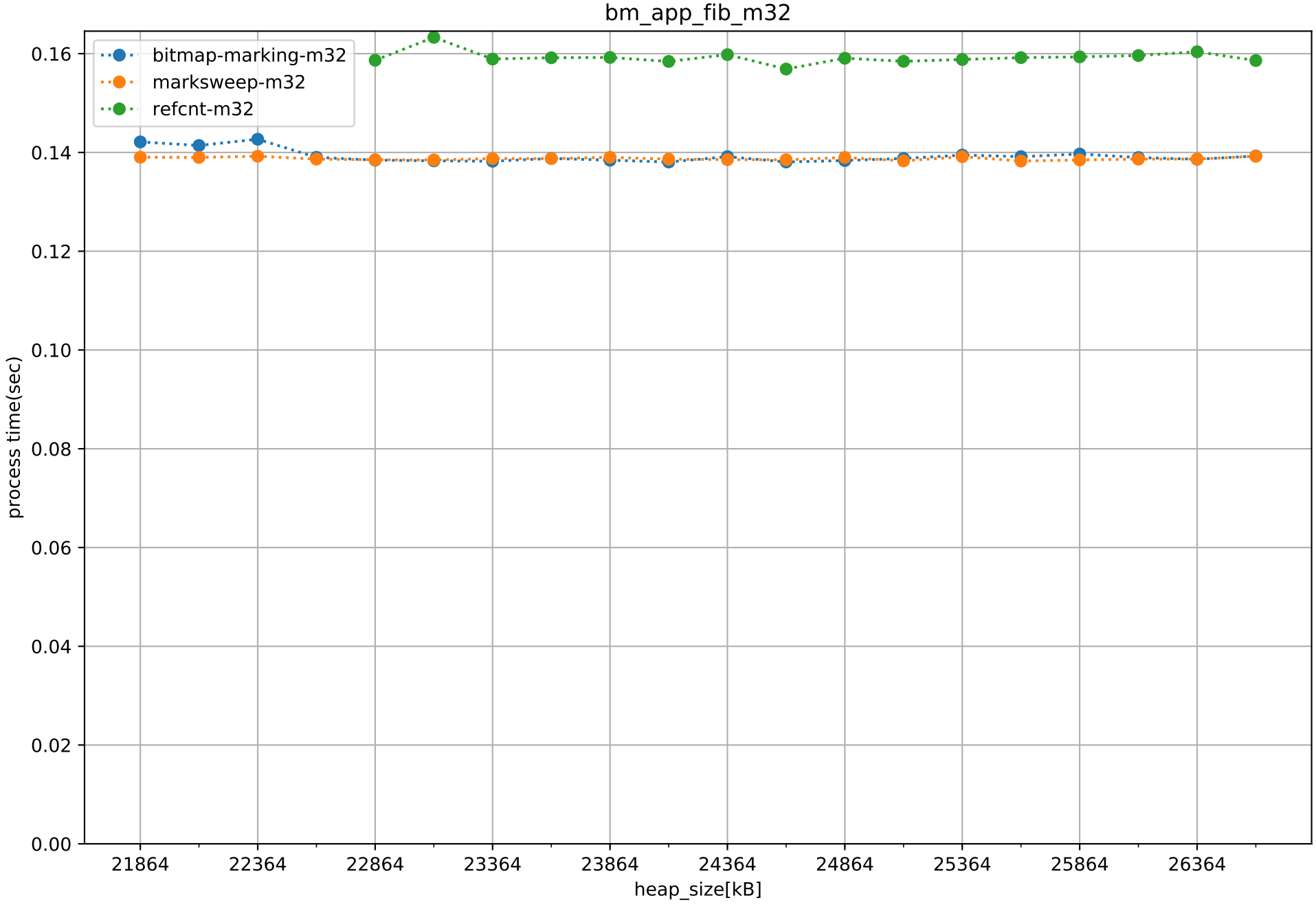

bm_app_fib_gctime marksweep-measure-gc mark time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

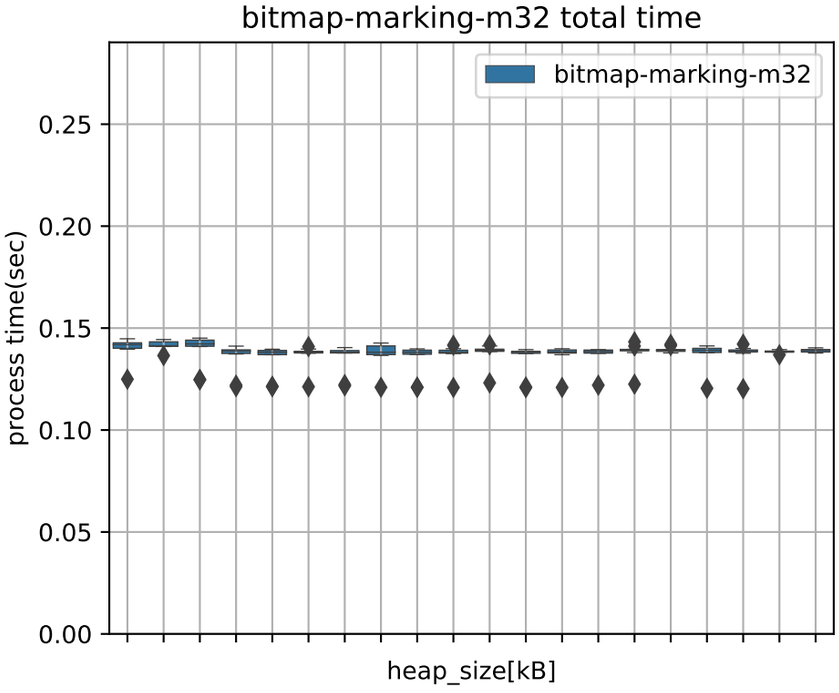

bm_app_fib_gctime marksweep-measure-gc sweep time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

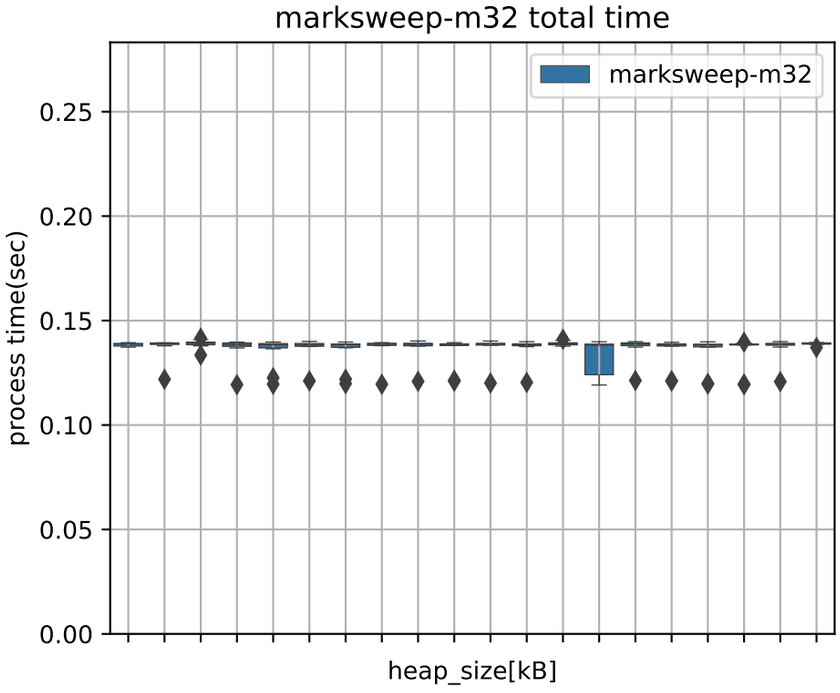

bm_app_fib_gctime marksweep-measure-gc gc time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

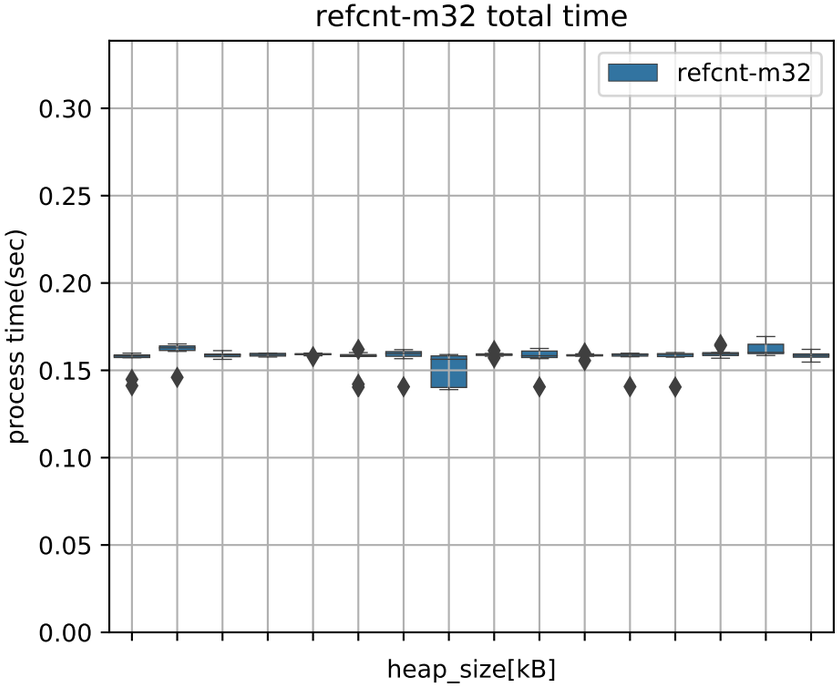

bm_app_fib_gctimerefcount gc time/func call
1e−7
6.3
5.6
4.9
4.2
3.5
2.8
2.1
1.4
0.7
0.0
process time(sec)
0
1
2
3
recursive dec_ref_counter times

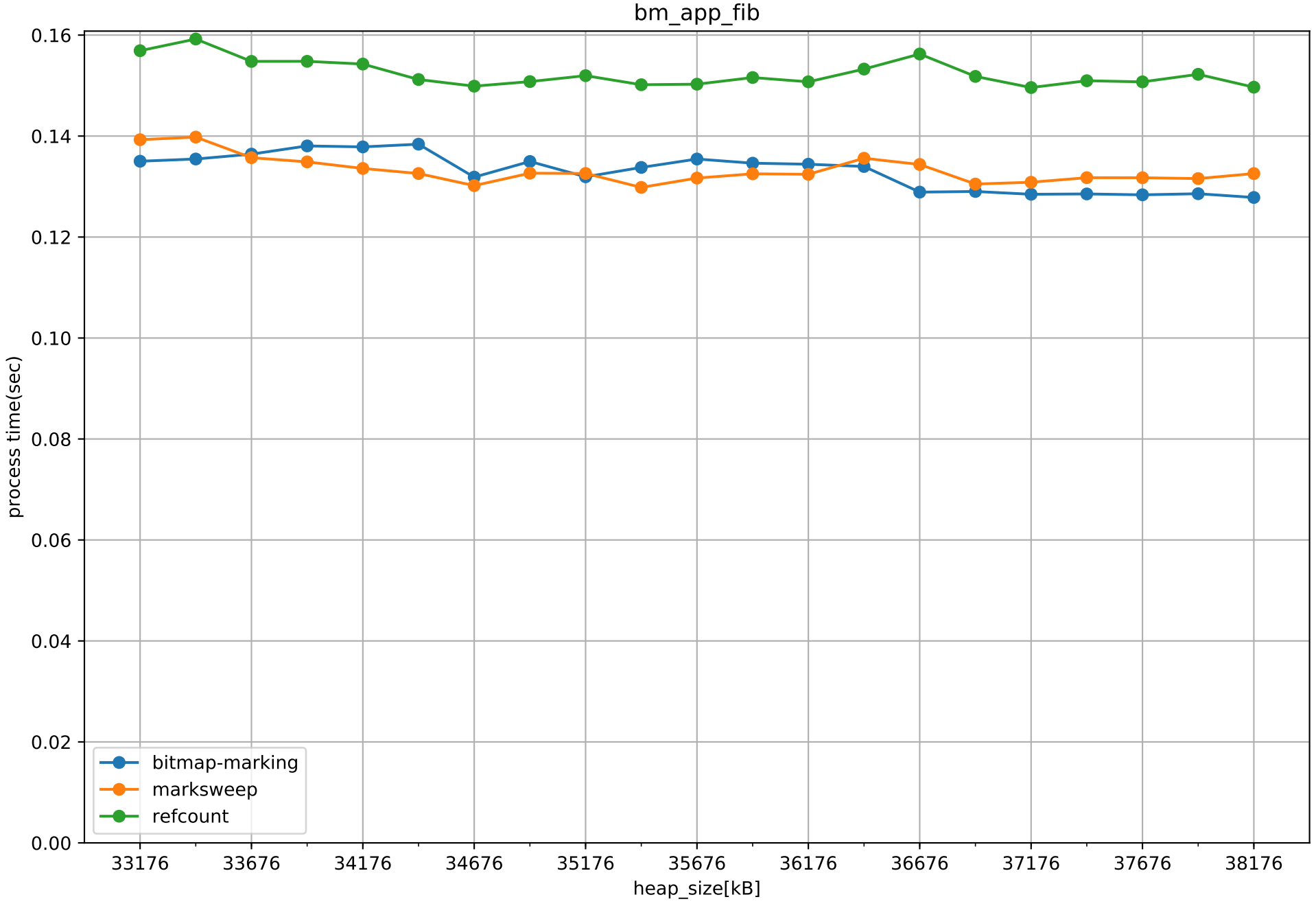

bm_app_fib_gctimerefcount gc time/free
1e−7
6.3
5.6
4.9
4.2
3.5
2.8
2.1
1.4
0.7
0.0
process time(sec)
0
1
2
3
recursive free times

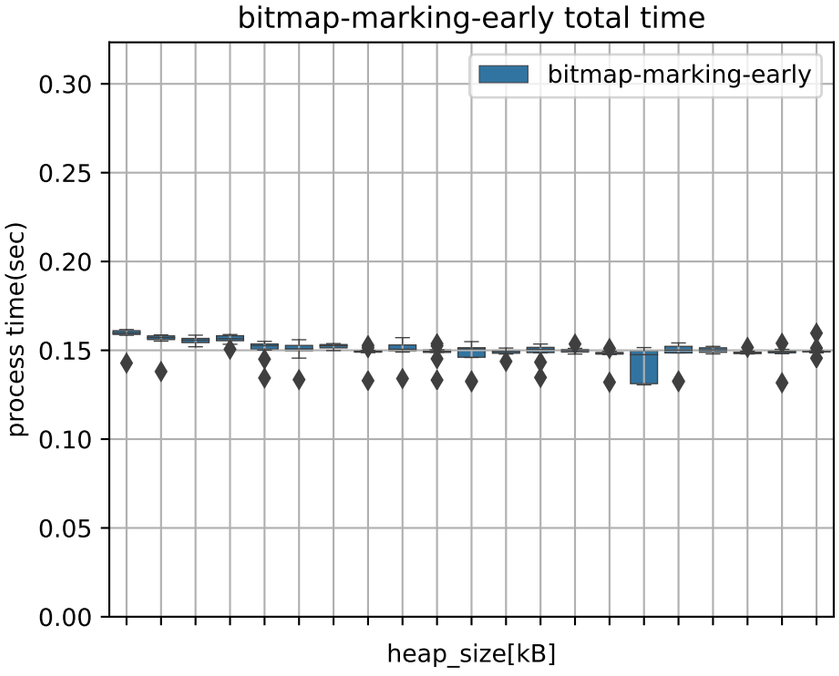

bm_app_fib_m32
bitmap-marking-m32
marksweep-m32
refcnt-m32
process time(sec)
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
21864
22364
22864
23364
23864
24364
24864
25364
25864
26364
heap_size[kB]

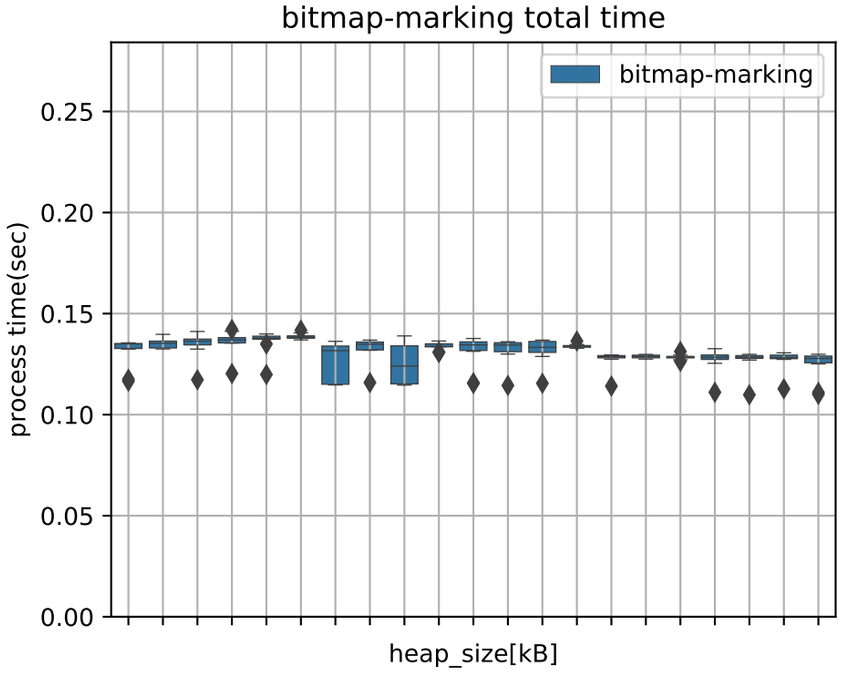

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.25
0.20
0.15
0.10
0.05
0.00
heap_size[kB]

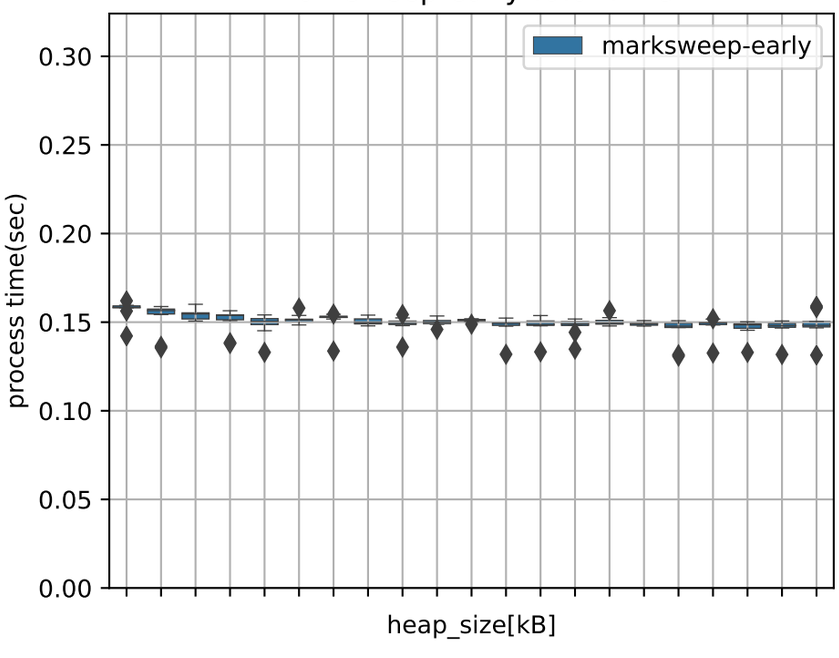

marksweep-m32 total time
marksweep-m32
process time(sec)
0.25
0.20
0.15
0.10
0.05
0.00
heap_size[kB]

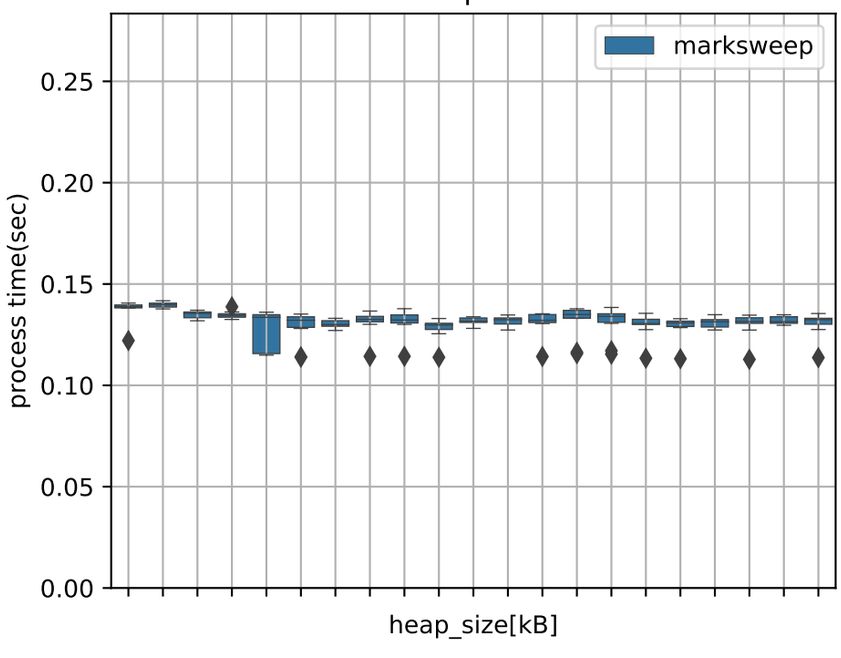

refcnt-m32 total time
refcnt-m32
process time(sec)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
heap_size[kB]

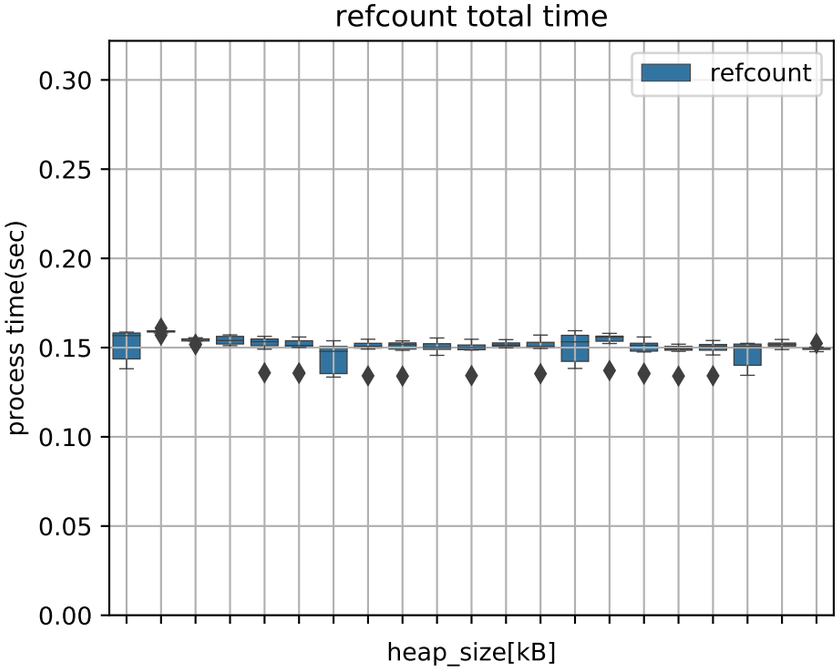

bm_app_fib
process time(sec)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
33176
33676
34176
34676
35176
35676
36176
36676
37176
37676
38176
heap_size[kB]
bitmap-marking
marksweep
refcount

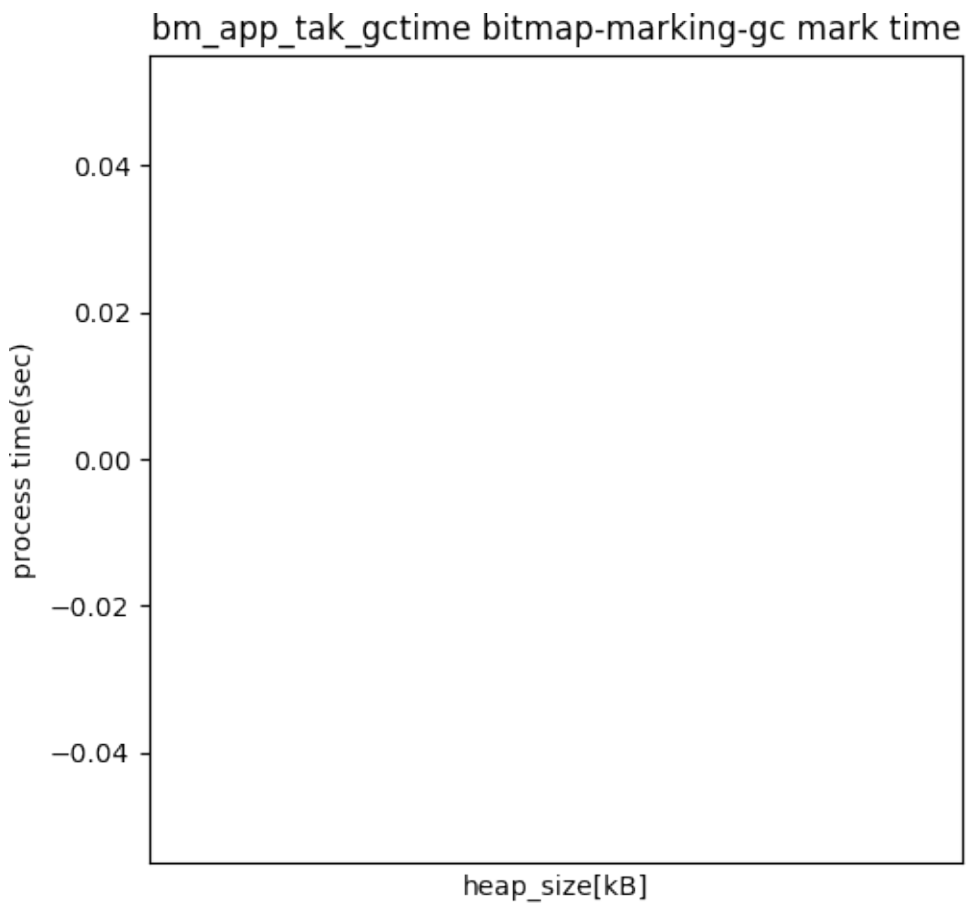

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

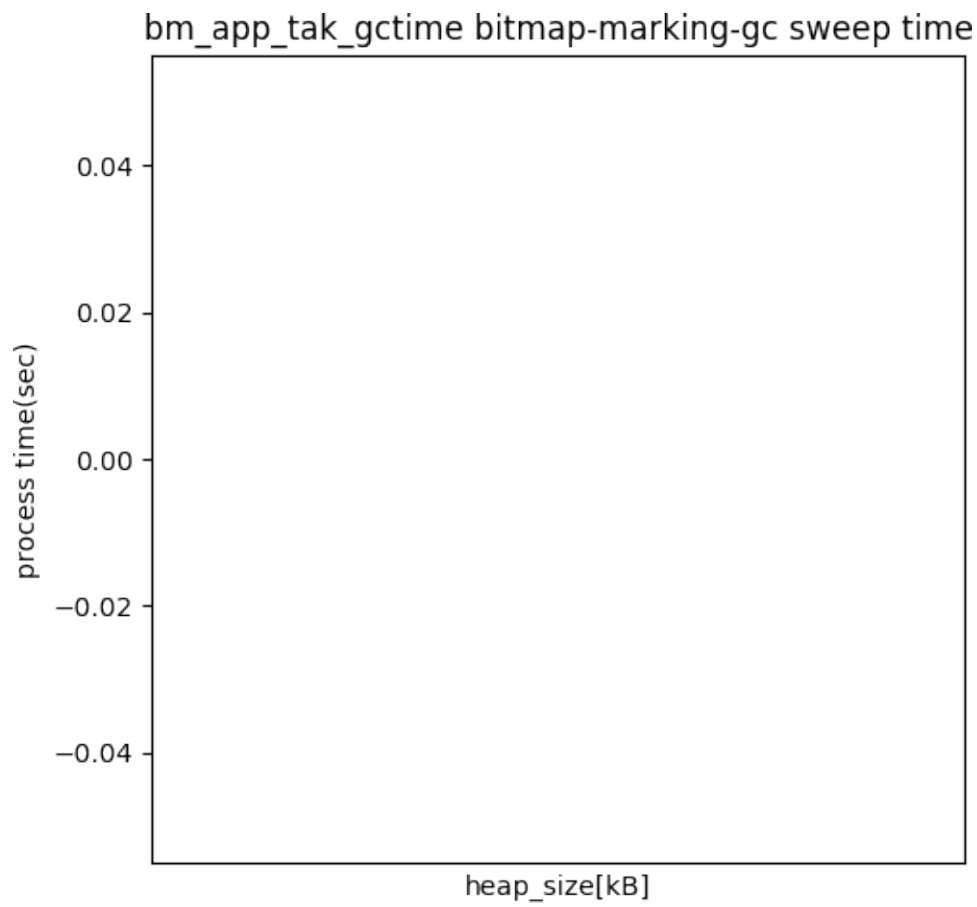

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]

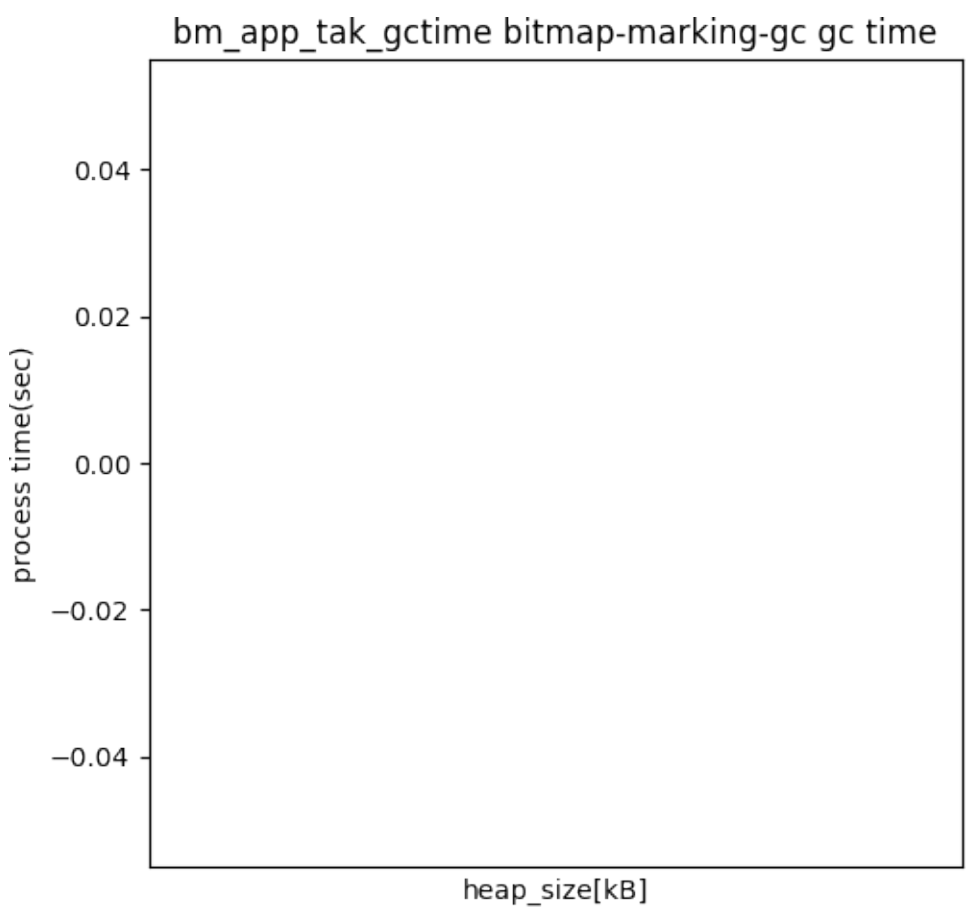

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

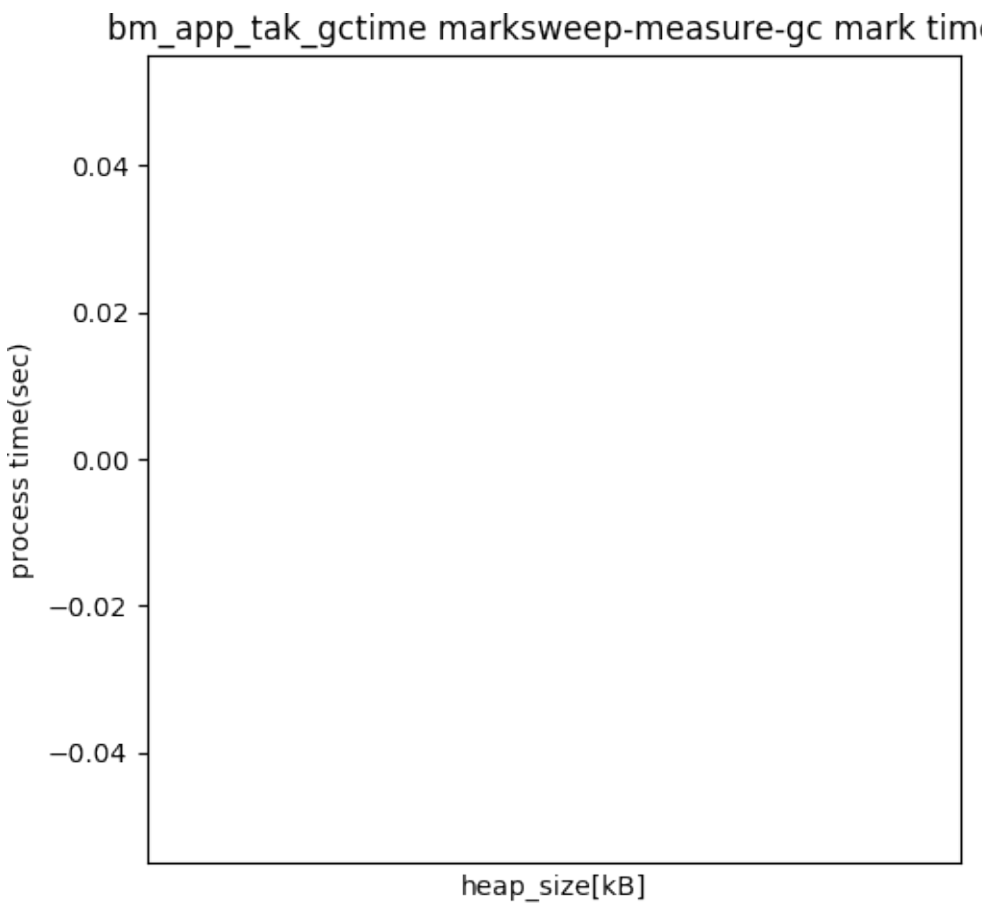

marksweep total time
marksweep
process time(sec)
heap_size[kB]

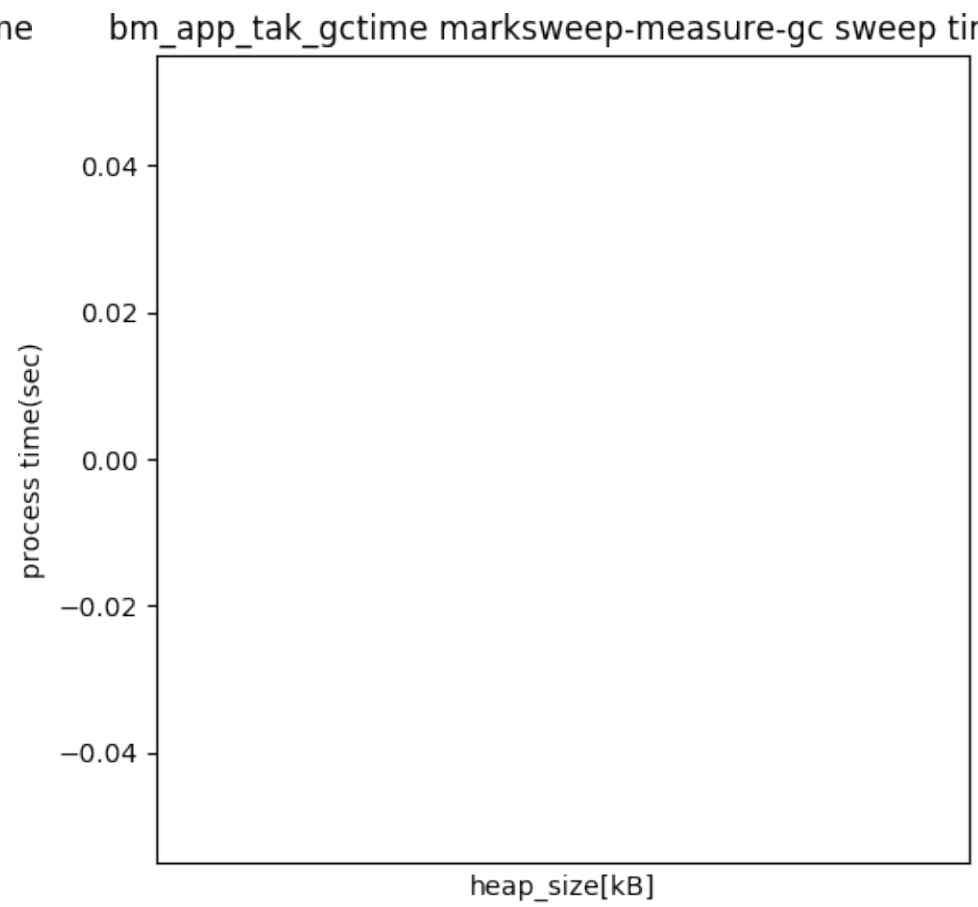

refcount total time
refcount
process time(sec)
heap_size[kB]

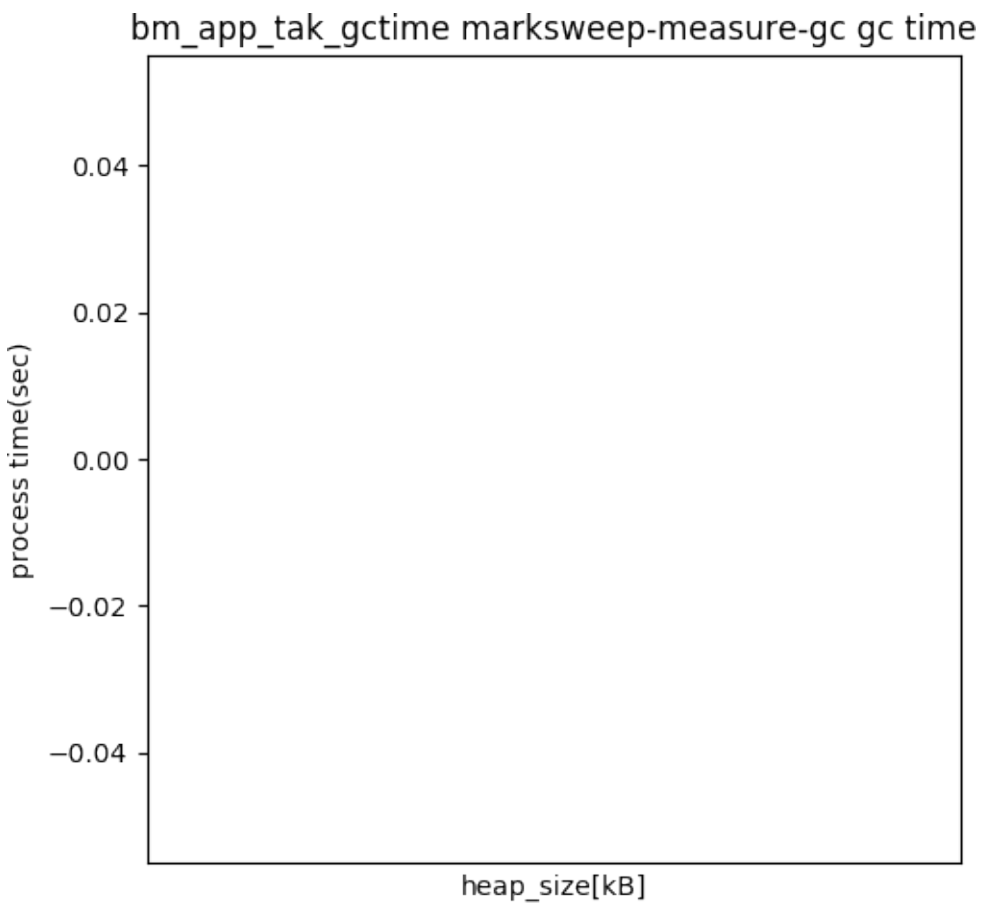

bm_app_tak_gctime bitmap-marking-gc mark time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

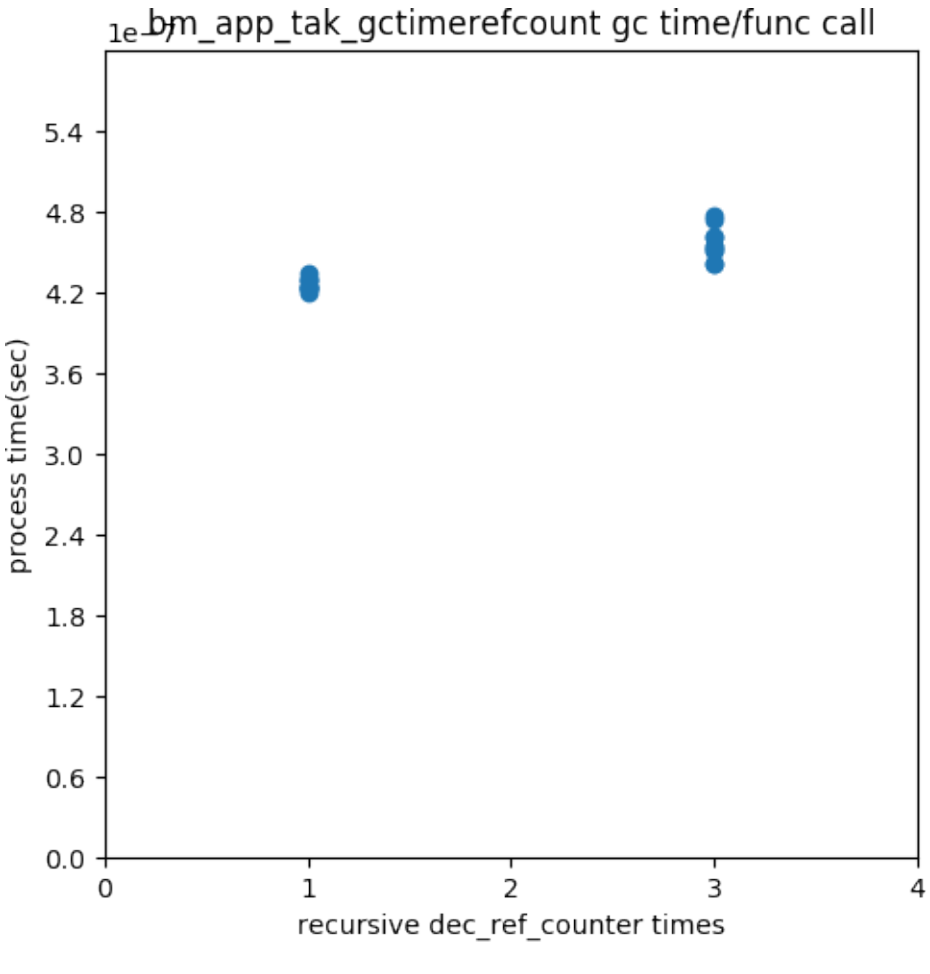

bm_app_tak_gctime bitmap-marking-gc sweep time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

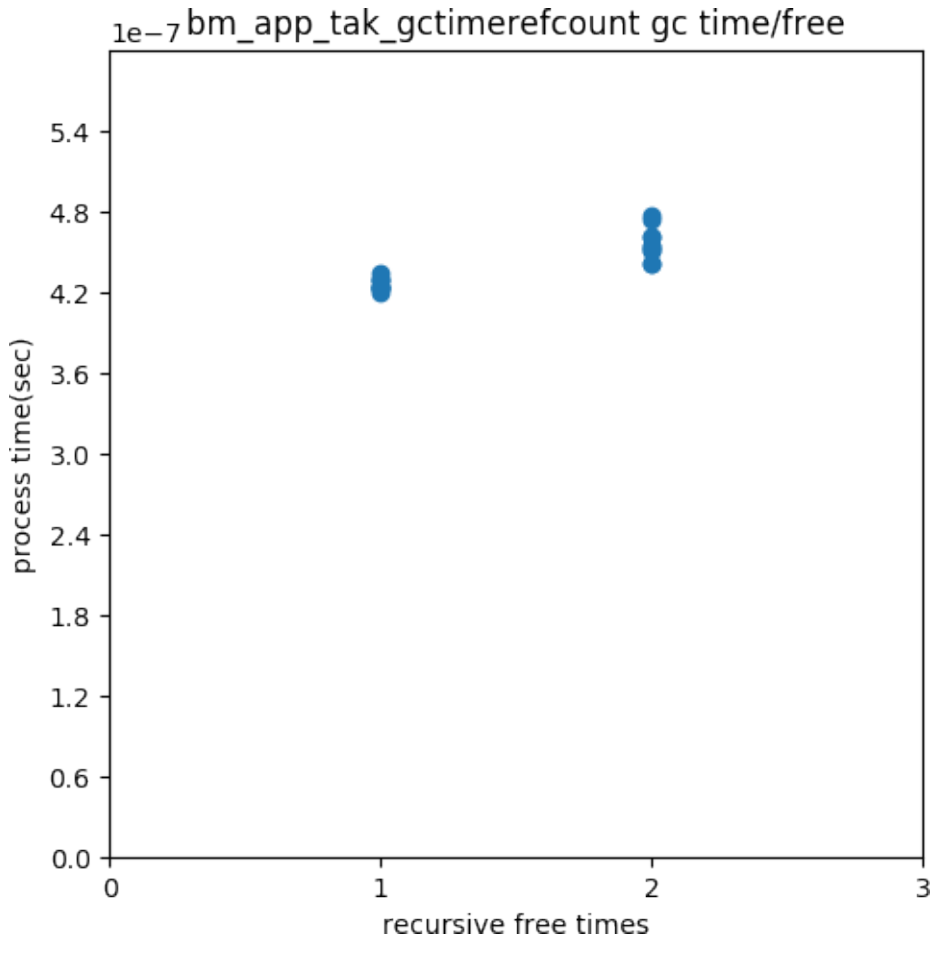

bm_app_tak_gctime bitmap-marking-gc gc time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

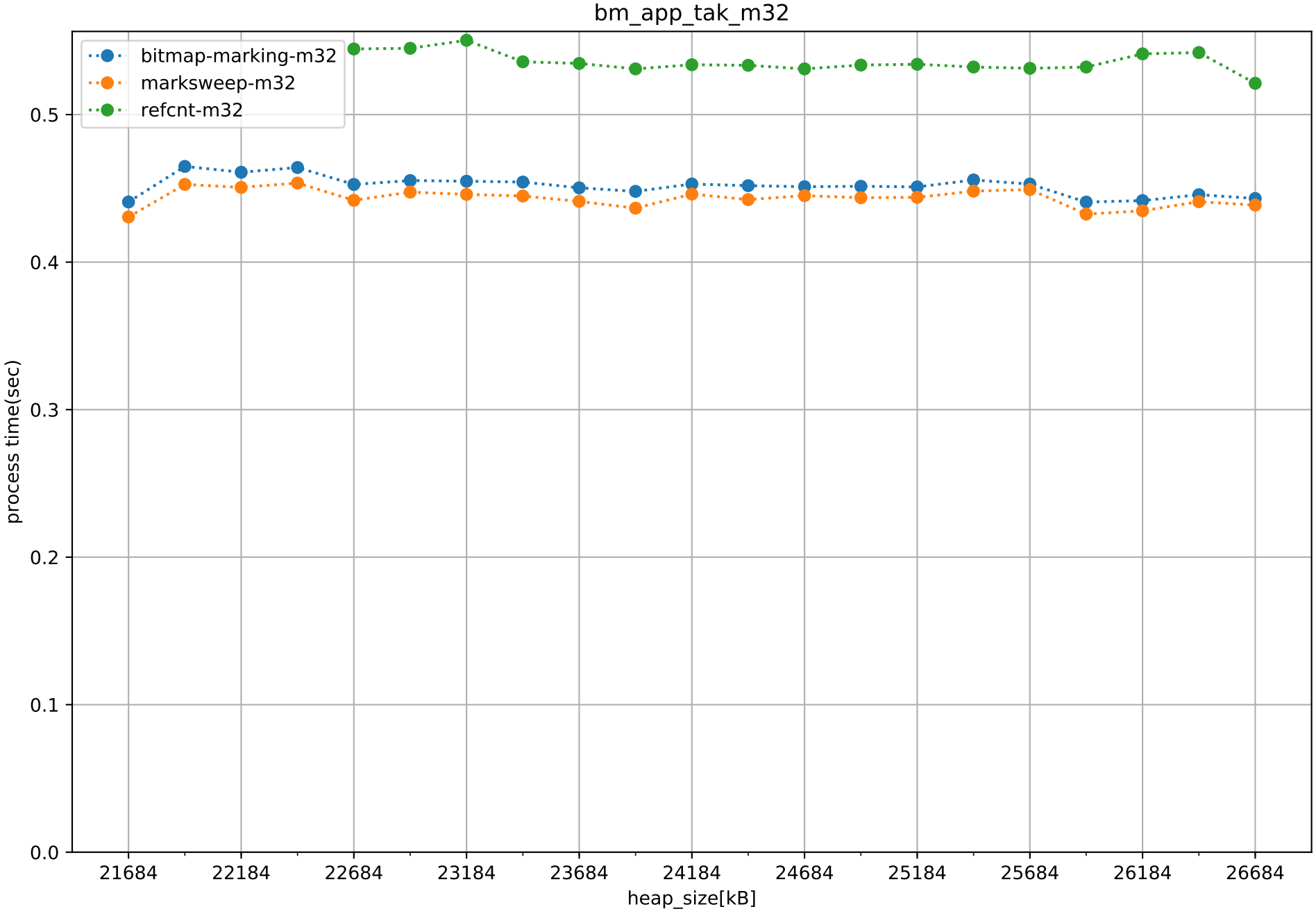

bm_app_tak_gctime marksweep-measure-gc mark time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

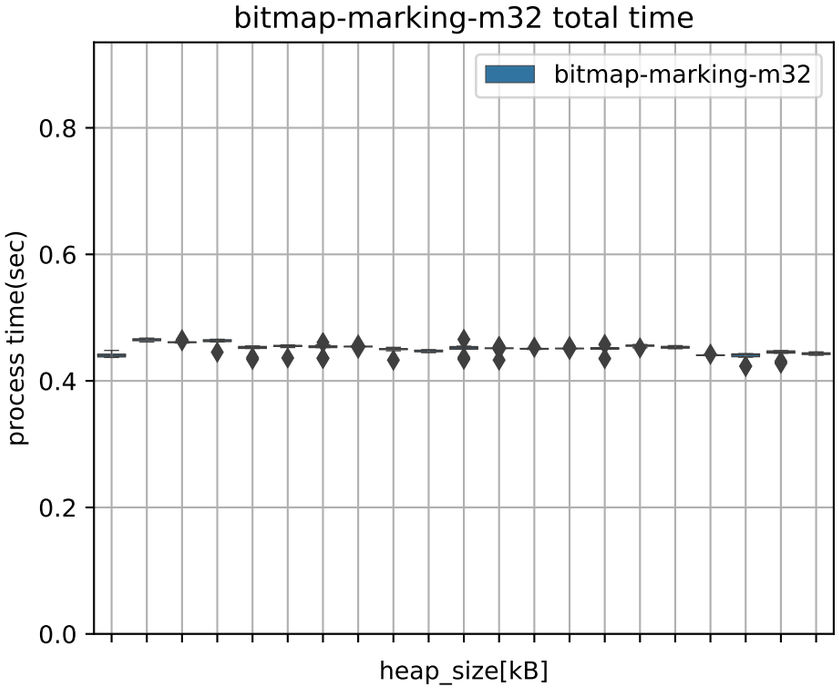

bm_app_tak_gctime marksweep-measure-gc sweep time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

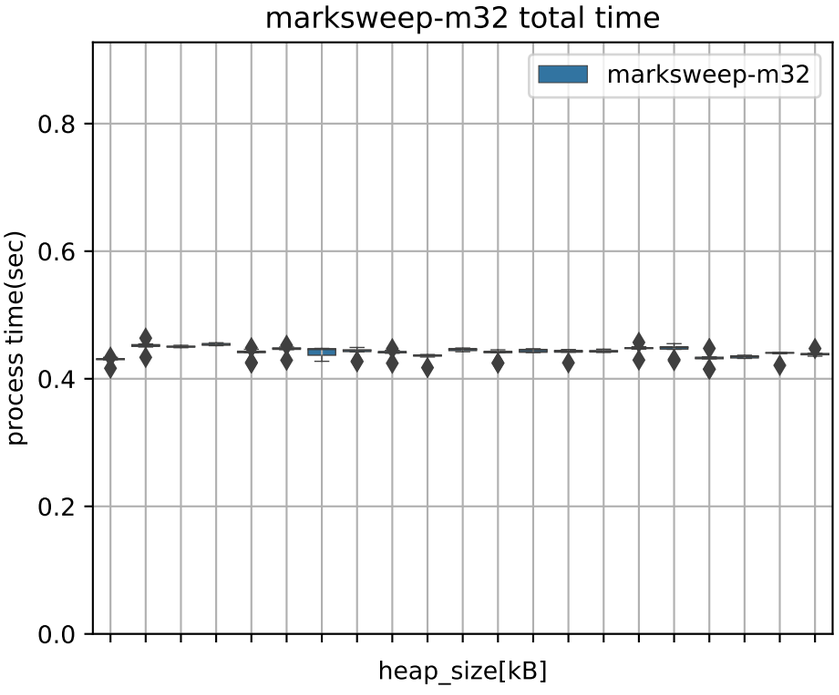

bm_app_tak_gctime marksweep-measure-gc gc time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

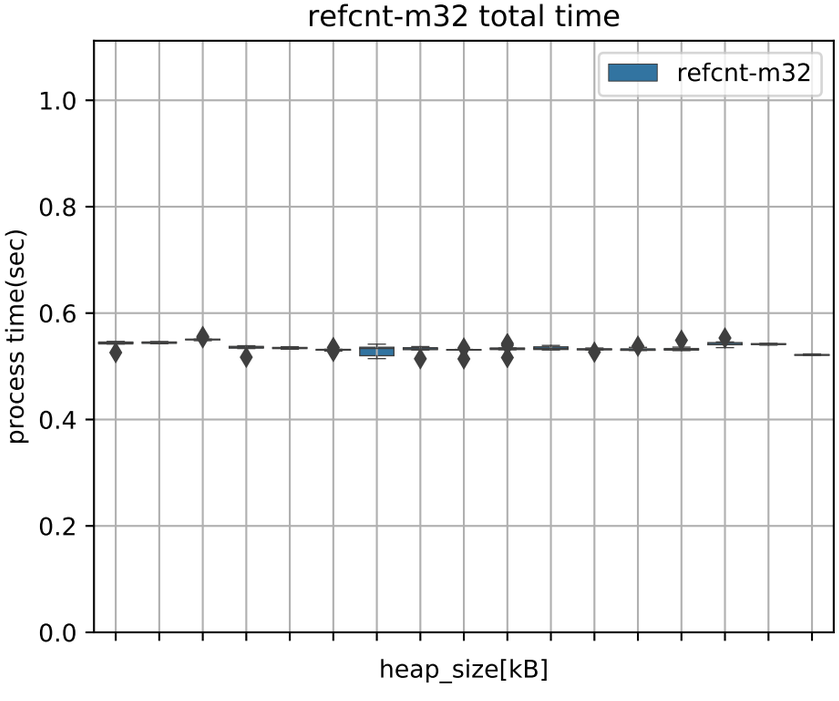

bm_app_tak_gctimerefcount gc time/func call
1e−7
5.4
4.8
4.2
3.6
3.0
2.4
1.8
1.2
0.6
0.0
process time(sec)
0
1
2
3
4
recursive dec_ref_counter times

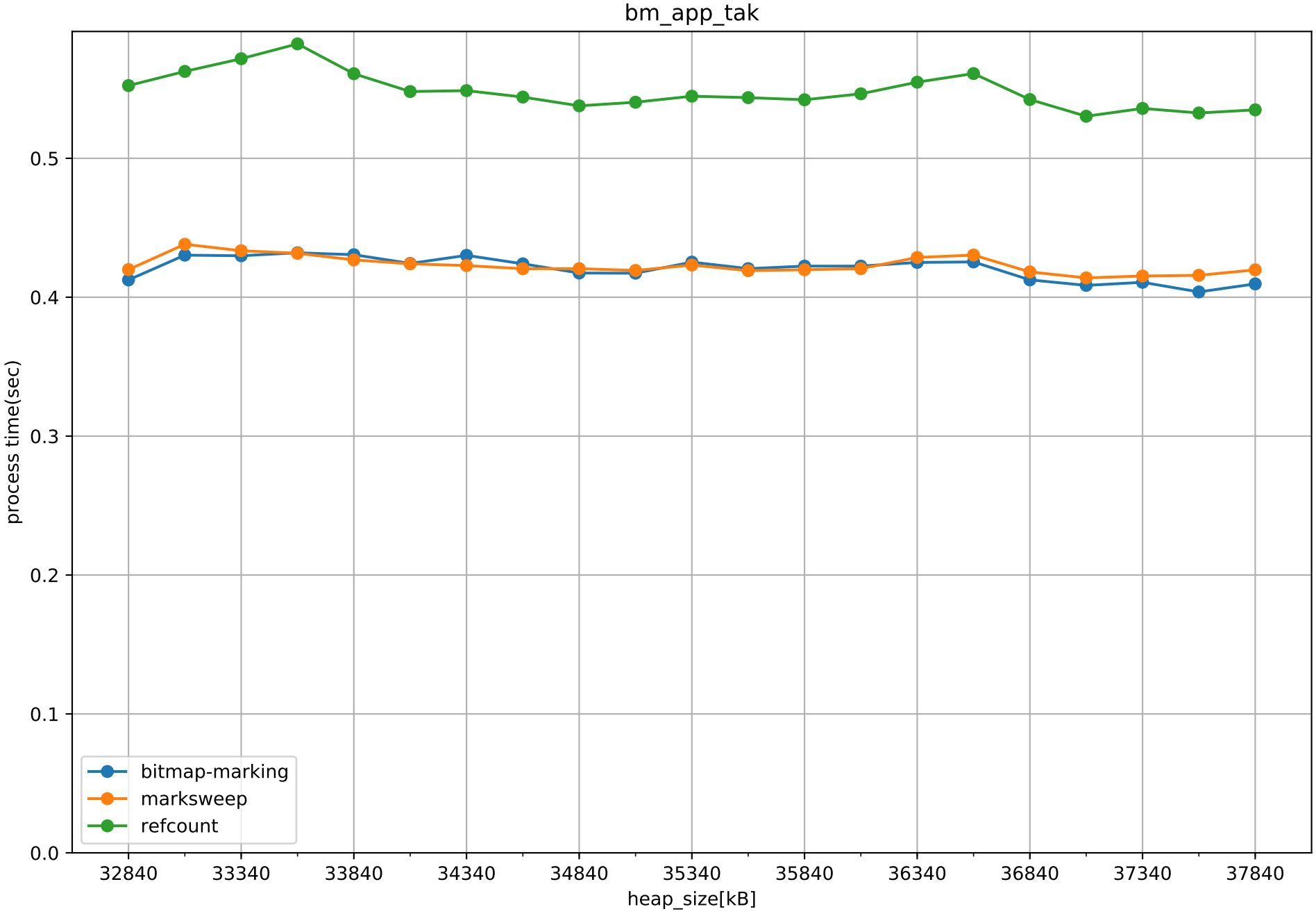

bm_app_tak_gctimerefcount gc time/free
1e−7
5.4
4.8
4.2
3.6
3.0
2.4
1.8
1.2
0.6
0.0
process time(sec)
0
1
2
3
recursive free times

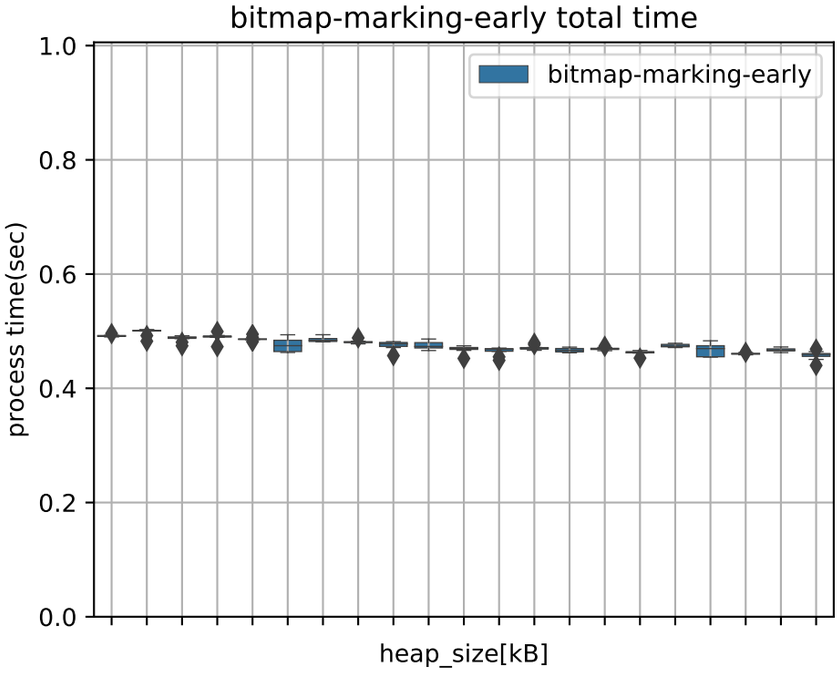

bm_app_tak_m32
bitmap-marking-m32
marksweep-m32
refcnt-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
21684
22184
22684
23184
23684
24184
24684
25184
25684
26184
26684
heap_size[kB]

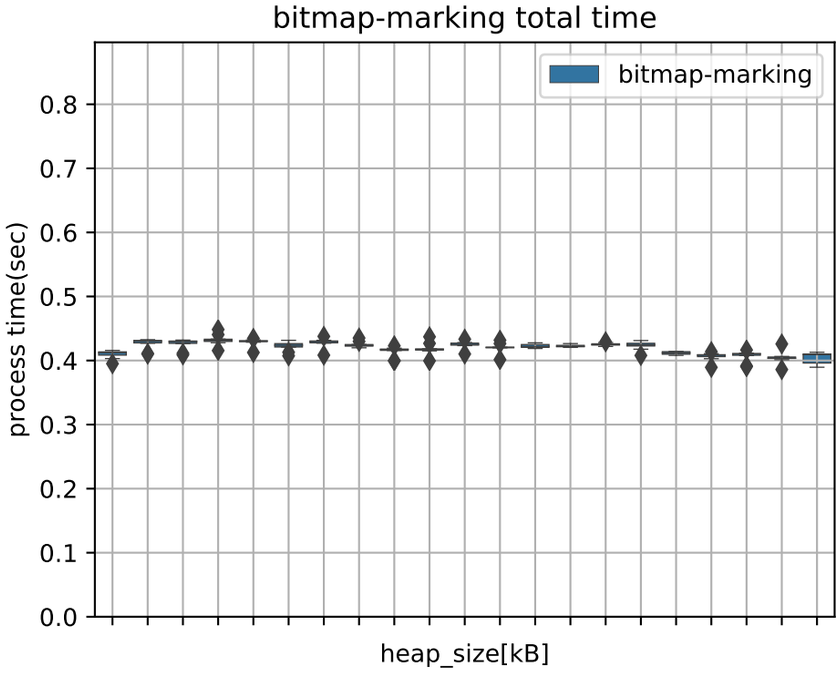

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
heap_size[kB]

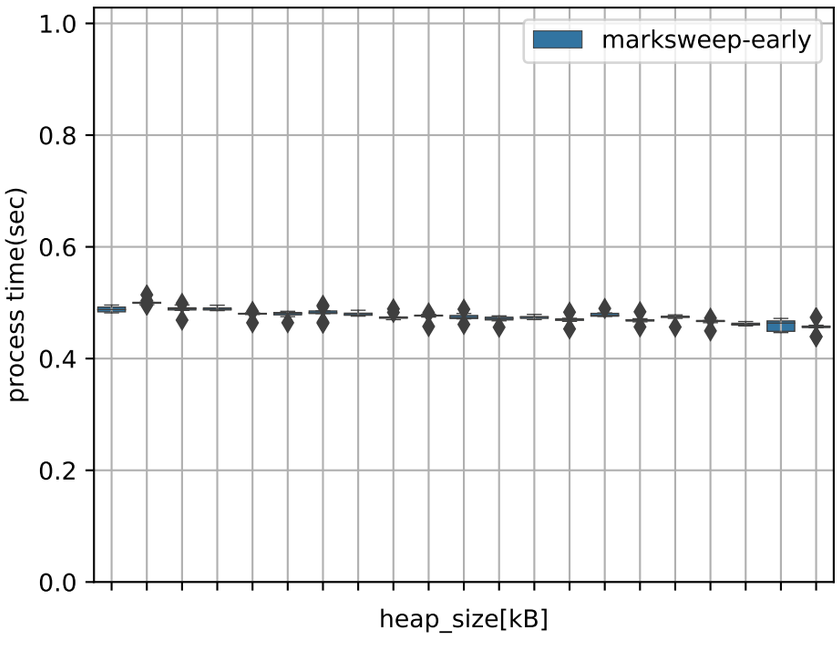

marksweep-m32 total time
marksweep-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
heap_size[kB]

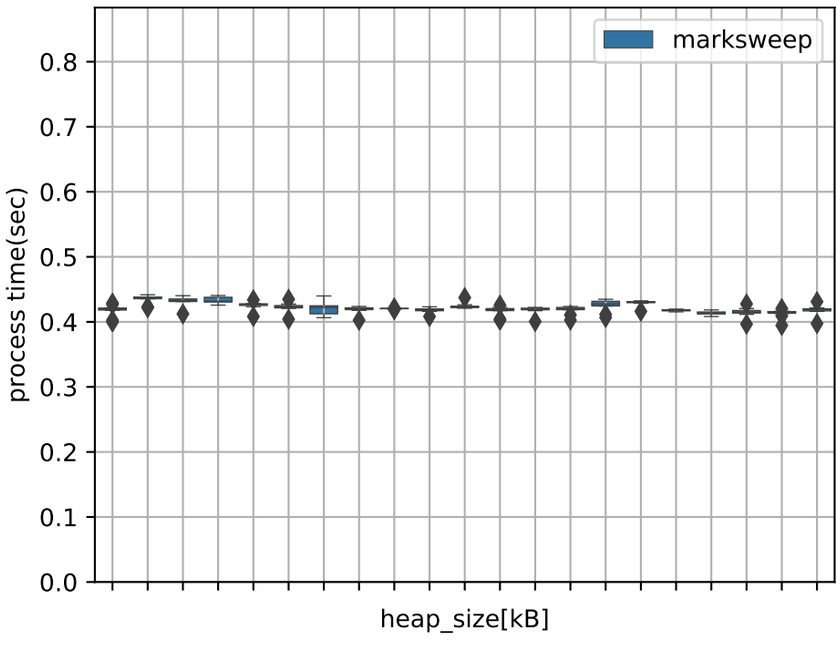

refcnt-m32 total time
refcnt-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
1.0
heap_size[kB]

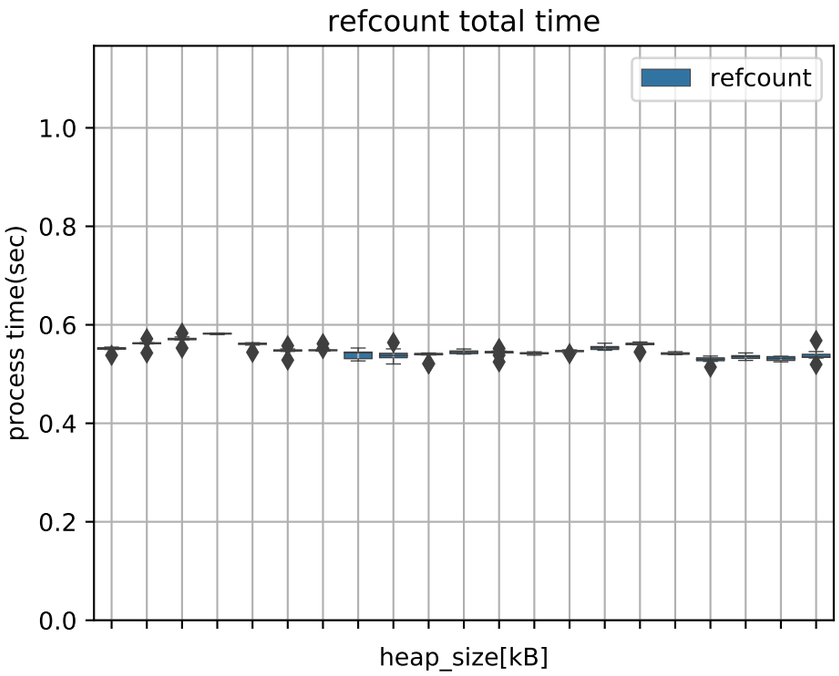

bm_app_tak
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
32840
33340
33840
34340
34840
35340
35840
36340
36840
37340
37840
heap_size[kB]
bitmap-marking
marksweep
refcount

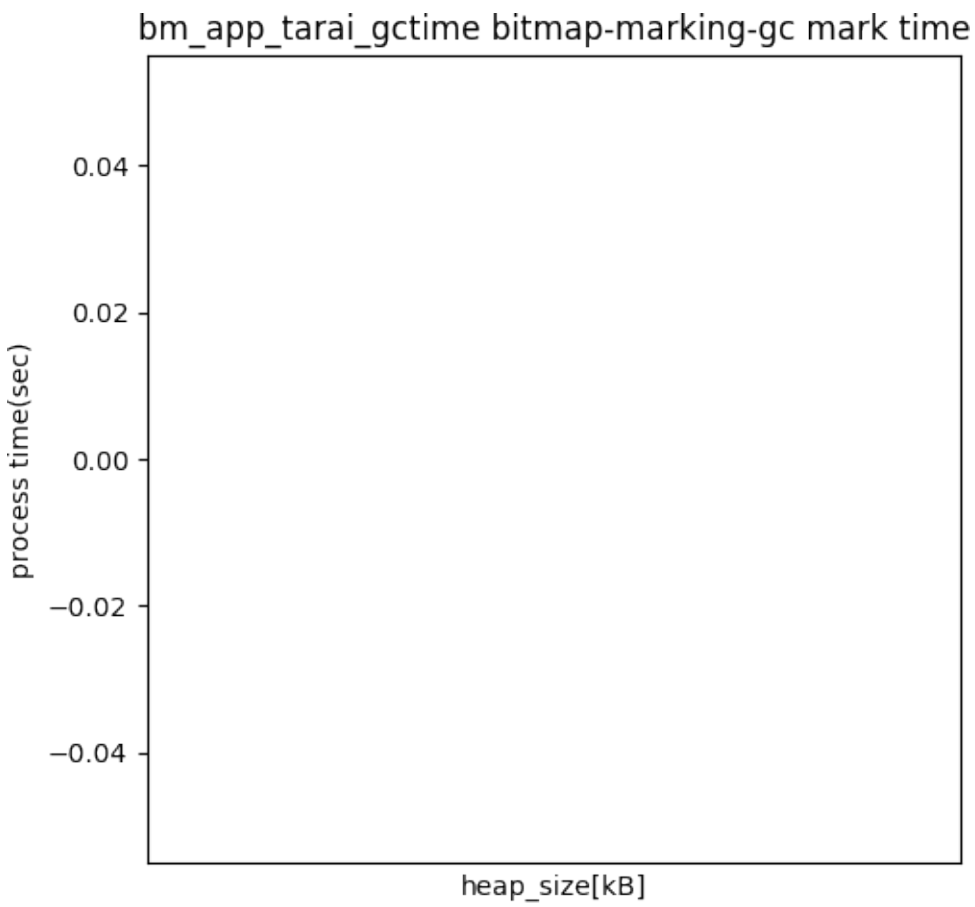

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

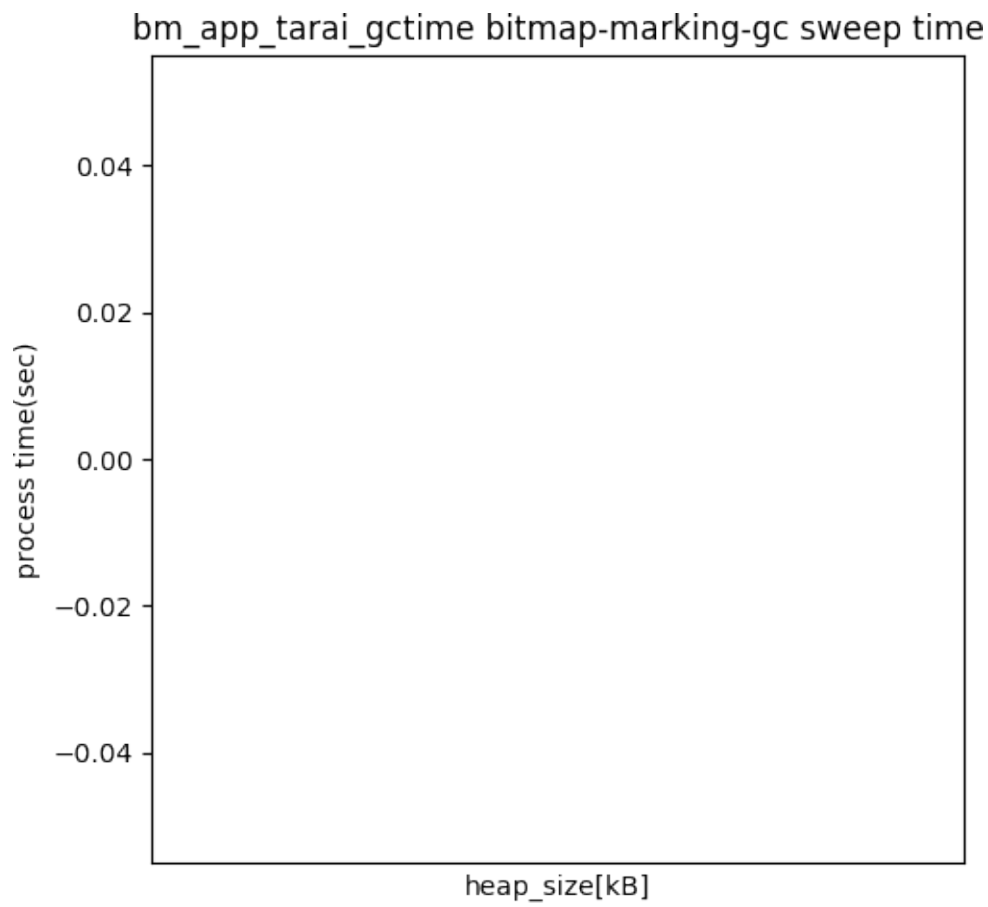

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]

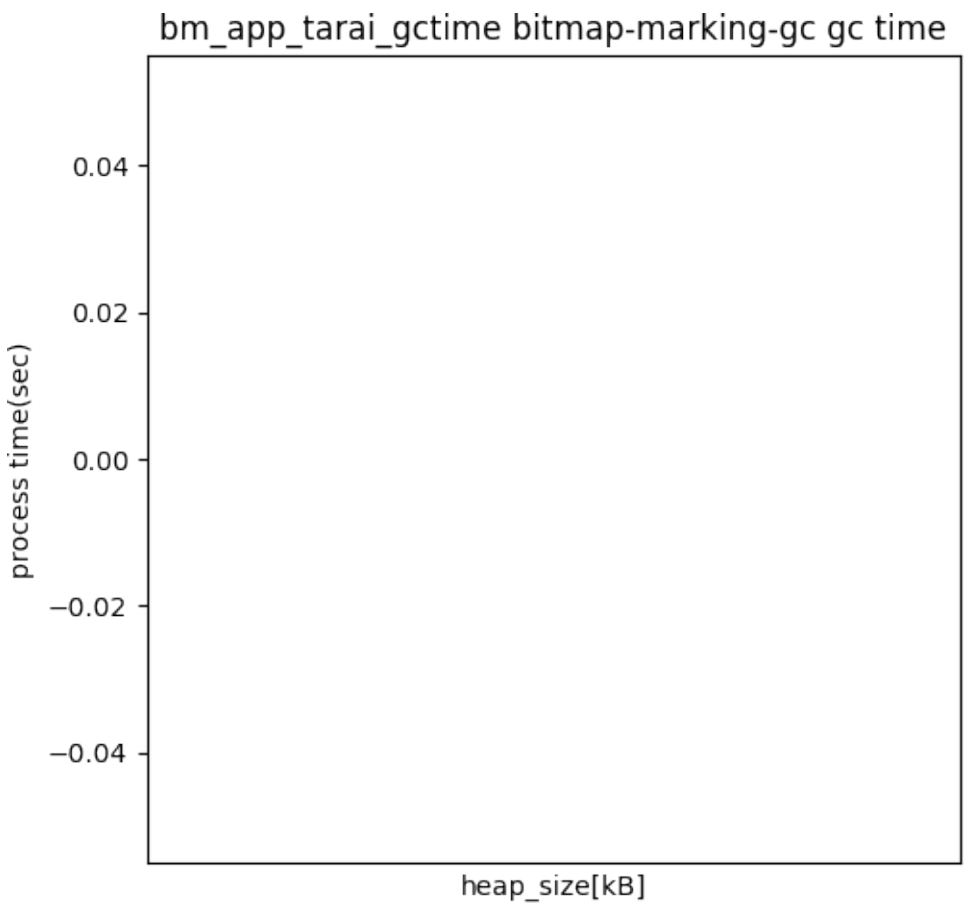

marksweep-early total time
marksweep-early
process time(sec)
heap_size[kB]

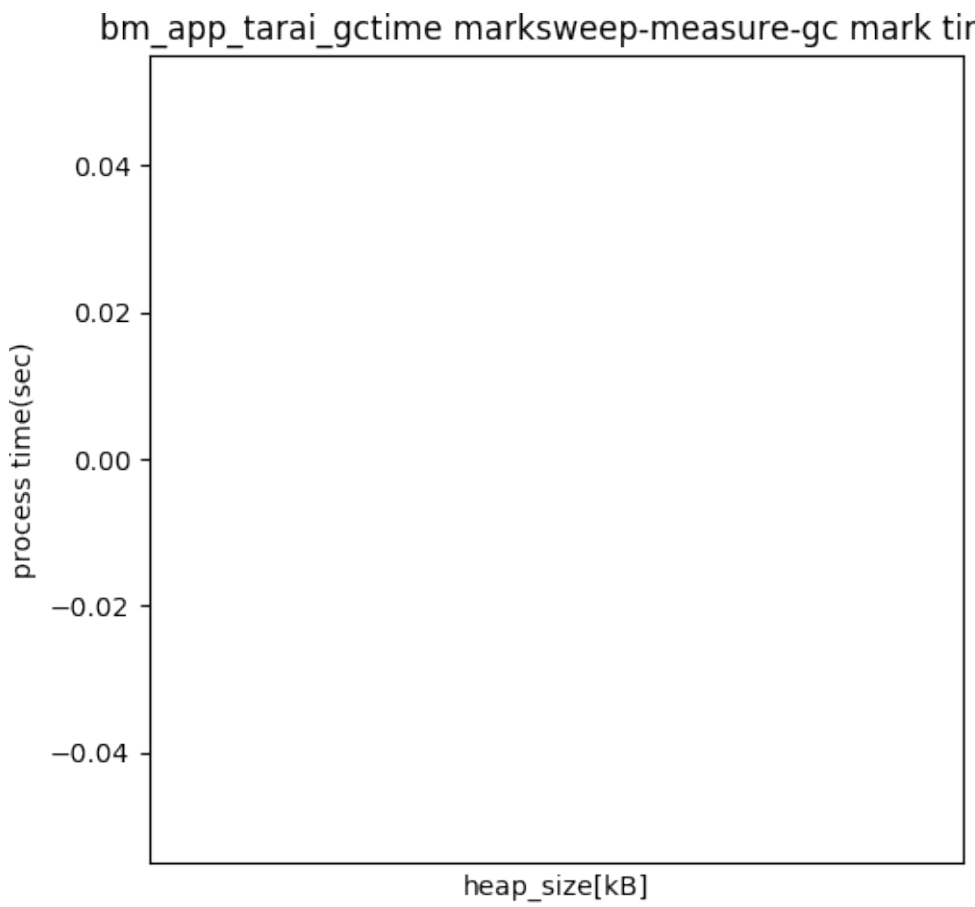

marksweep total time
marksweep
process time(sec)
heap_size[kB]

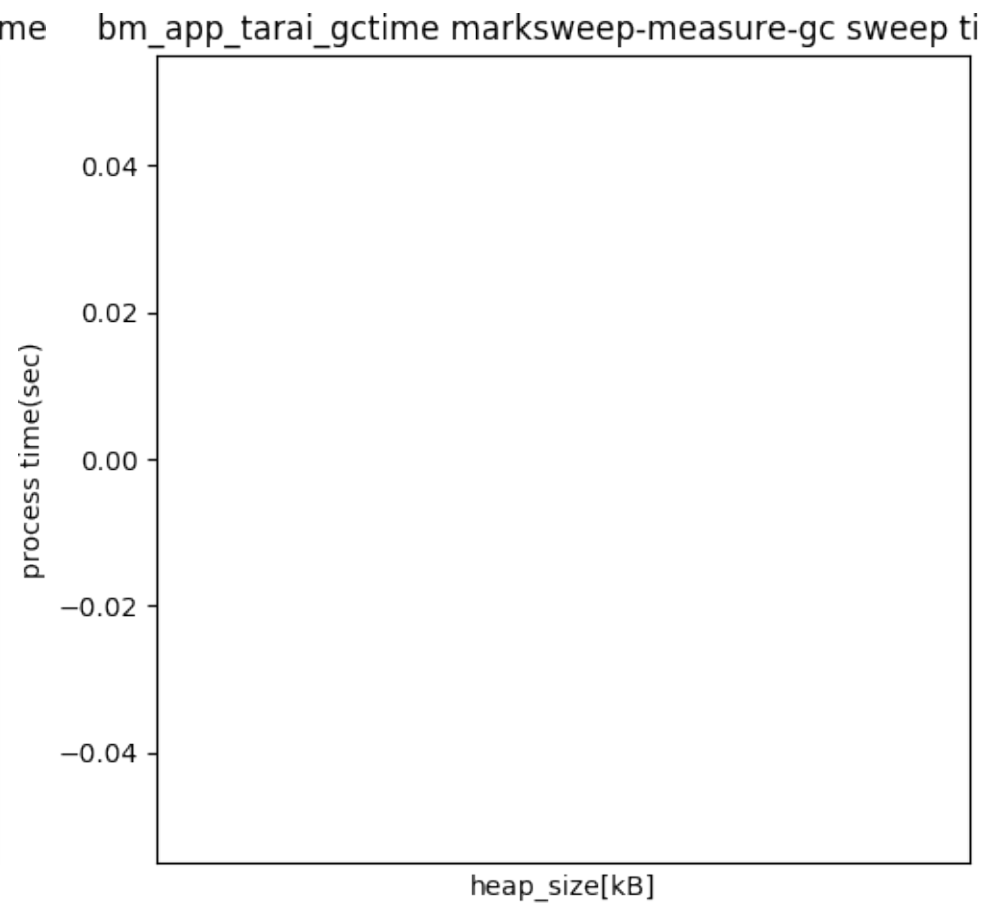

refcount total time
refcount
process time(sec)
heap_size[kB]

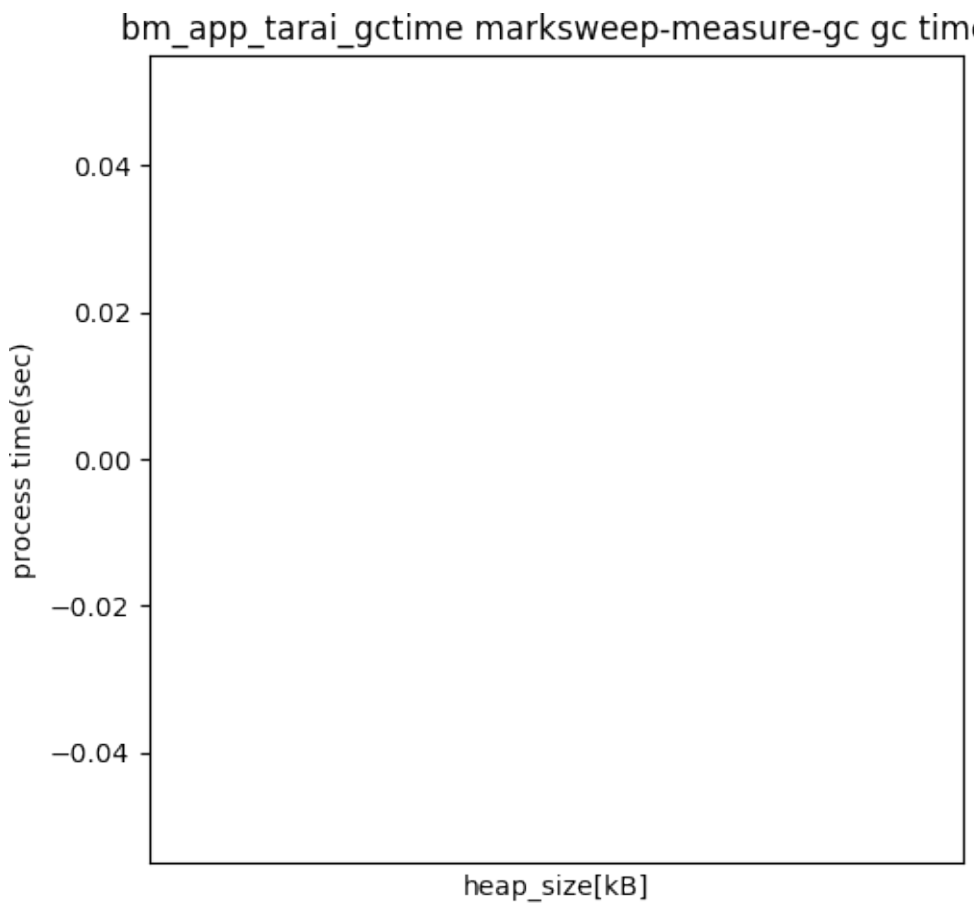

bm_app_tarai_gctime bitmap-marking-gc mark time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

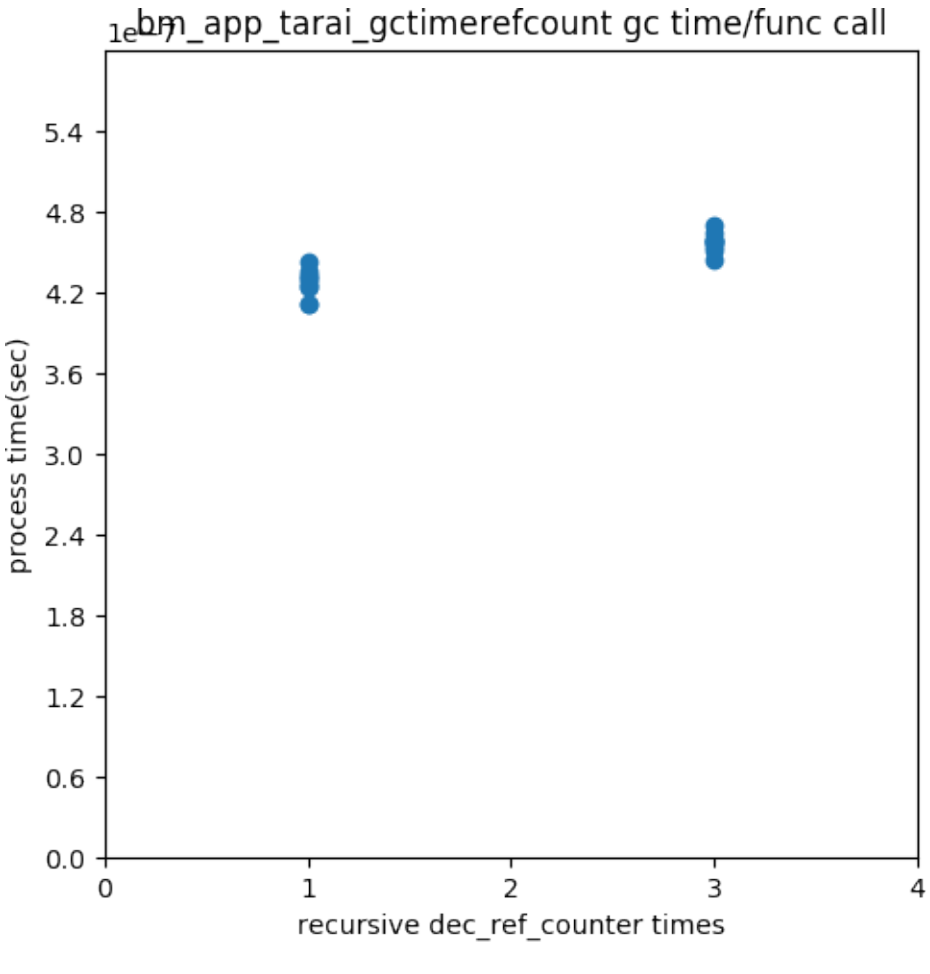

bm_app_tarai_gctime bitmap-marking-gc sweep time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

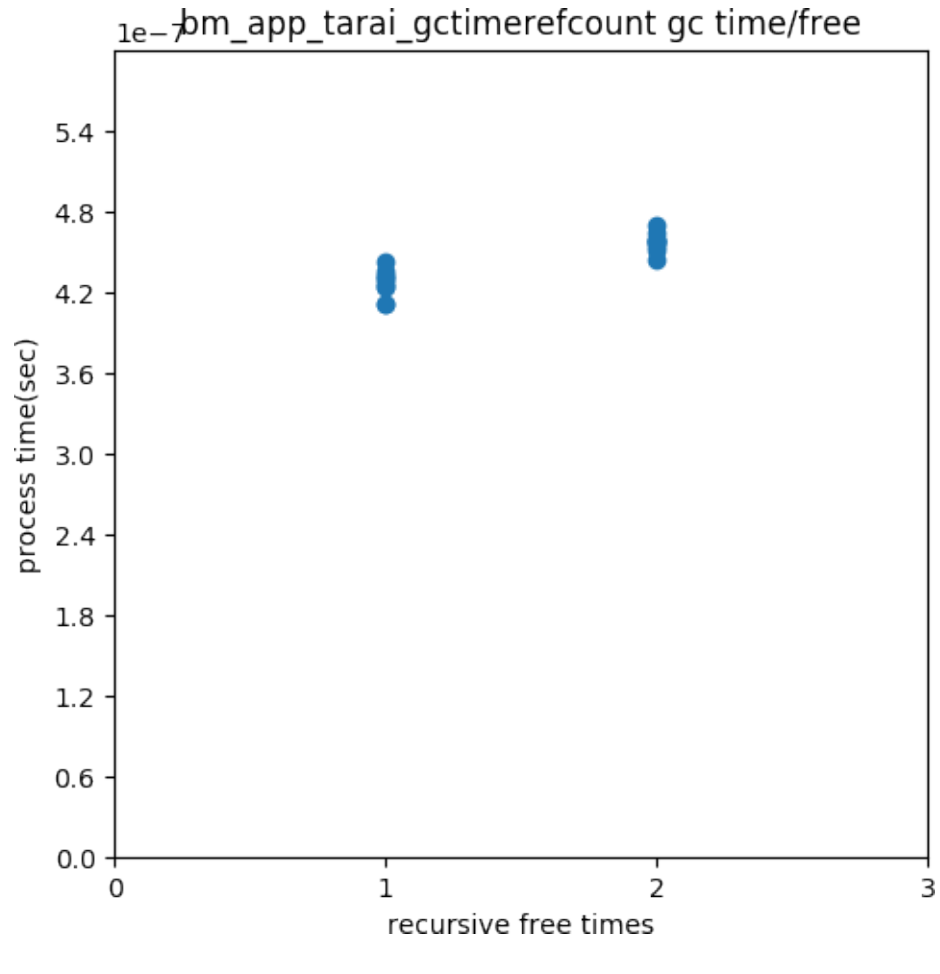

bm_app_tarai_gctime bitmap-marking-gc gc time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

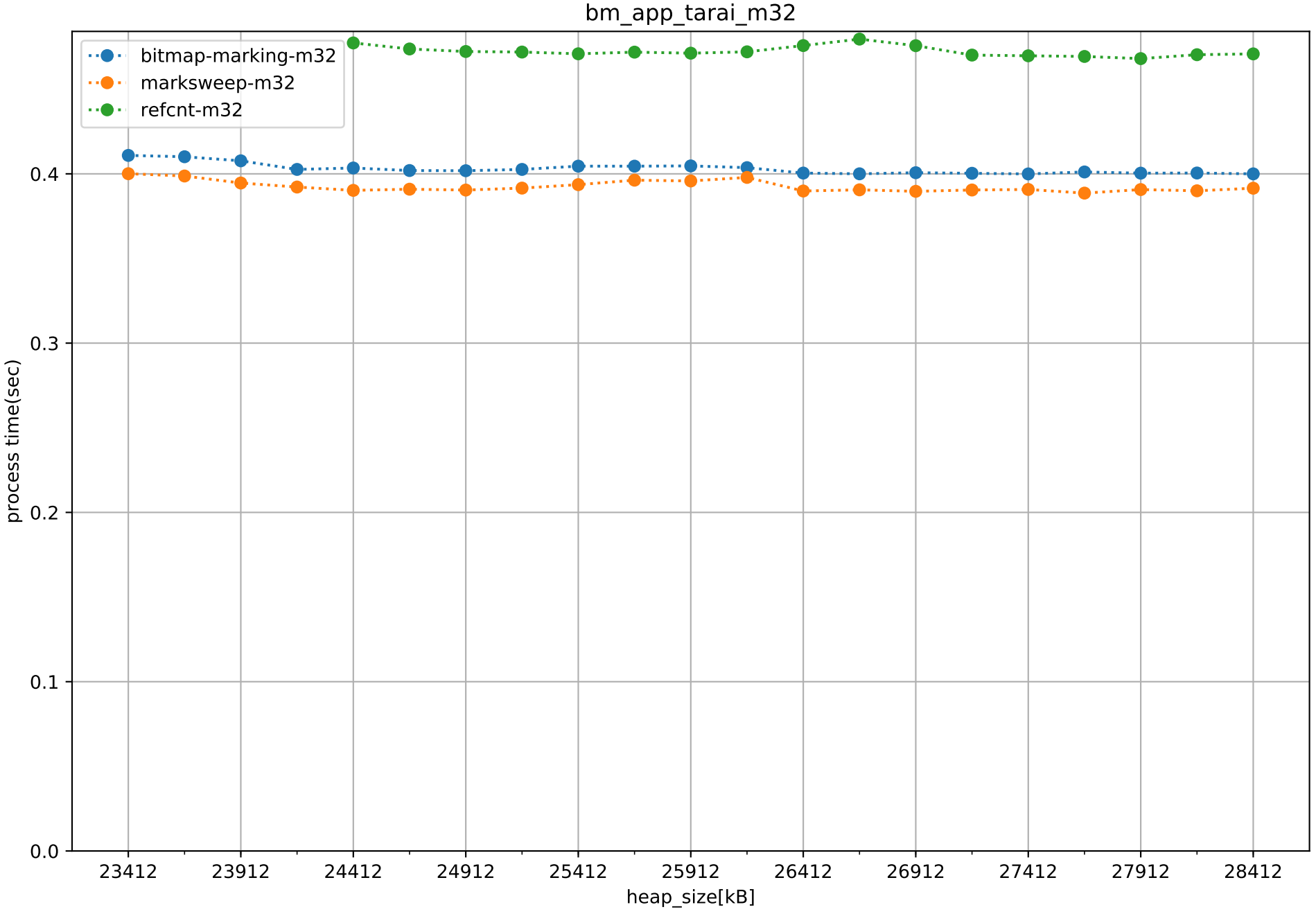

bm_app_tarai_gctime marksweep-measure-gc mark time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

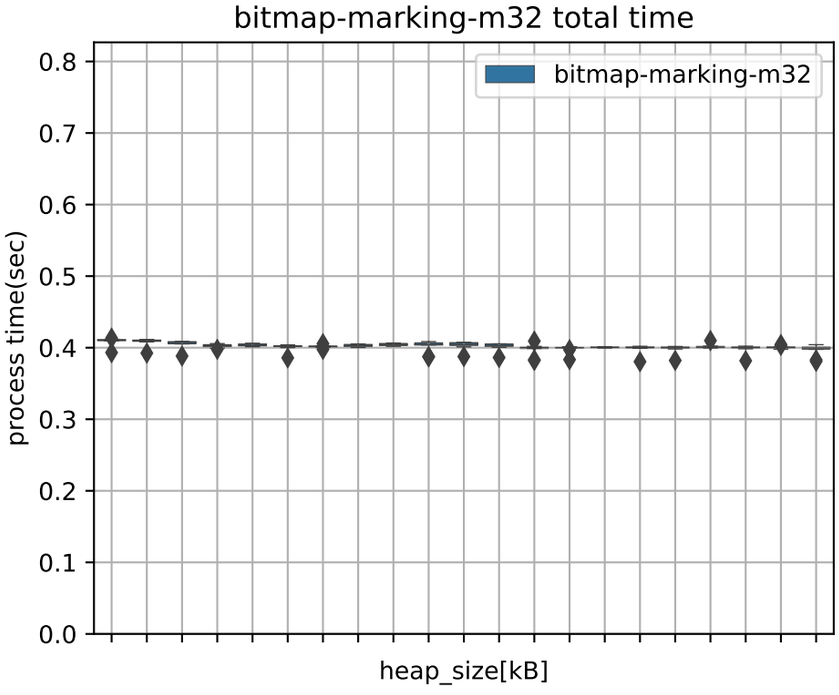

bm_app_tarai_gctime marksweep-measure-gc sweep time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

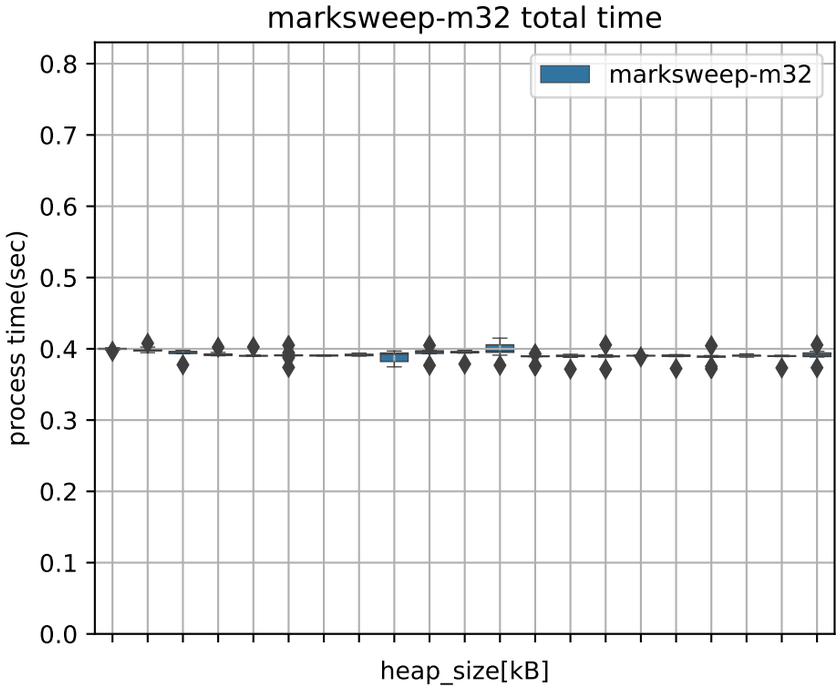

bm_app_tarai_gctime marksweep-measure-gc gc time
process time(sec)
0.04
0.02
0.00
−0.02
−0.04
heap_size[kB]

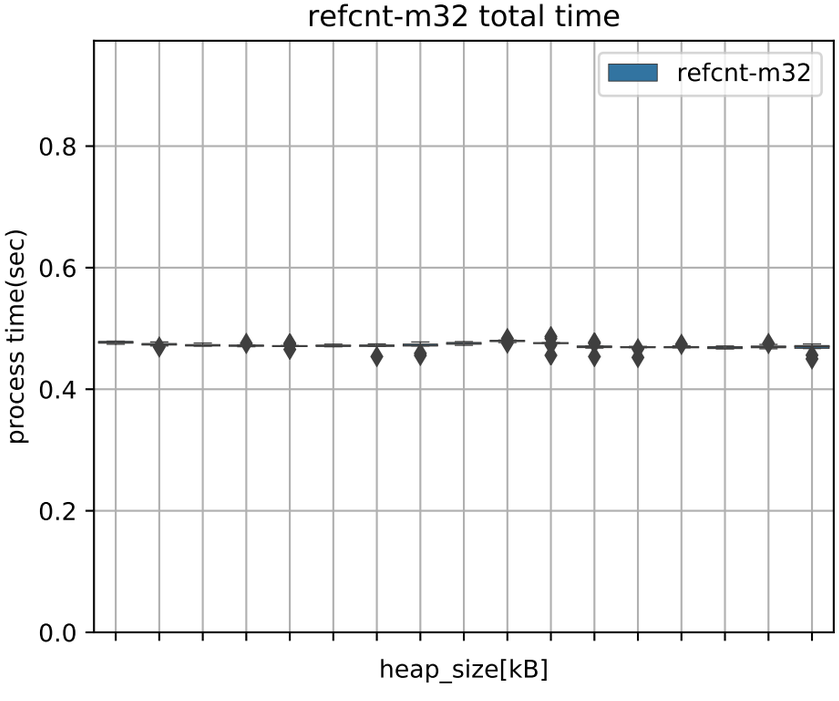

bm_app_tarai_gctimerefcount gc time/func call
1e−7
5.4
4.8
4.2
3.6
3.0
2.4
1.8
1.2
0.6
0.0
process time(sec)
0
1
2
3
4
recursive dec_ref_counter times

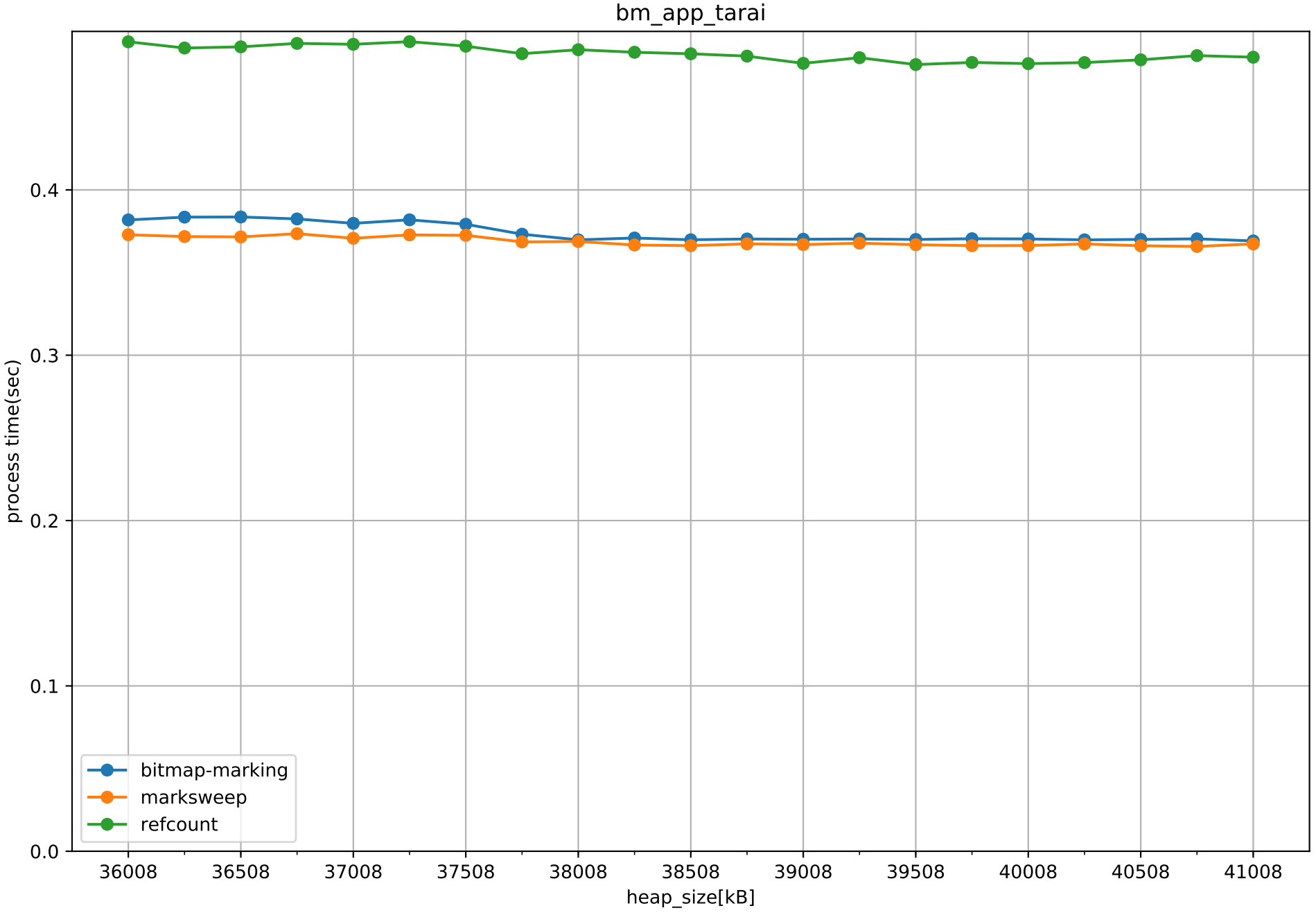

bm_app_tarai_gctimerefcount gc time/free
1e−7
5.4
4.8
4.2
3.6
3.0
2.4
1.8
1.2
0.6
0.0
process time(sec)
0
1
2
3
recursive free times

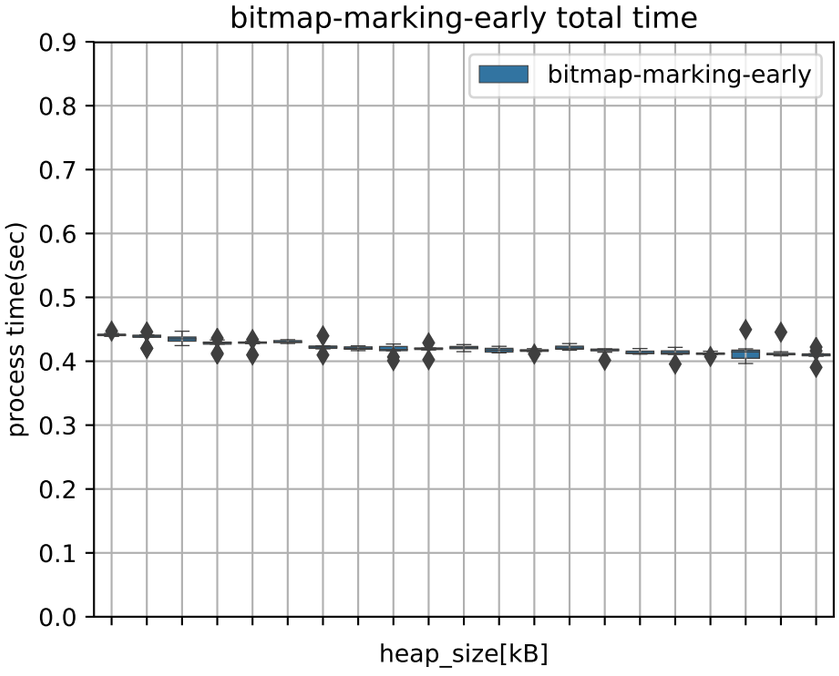

bm_app_tarai_m32
bitmap-marking-m32
marksweep-m32
refcnt-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
23412
23912
24412
24912
25412
25912
26412
26912
27412
27912
28412
heap_size[kB]

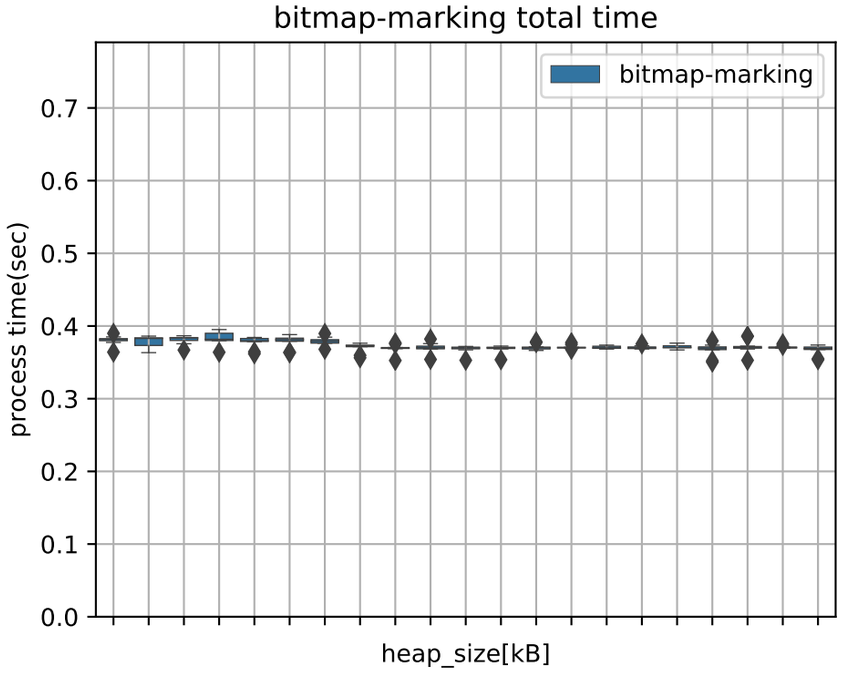

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
heap_size[kB]

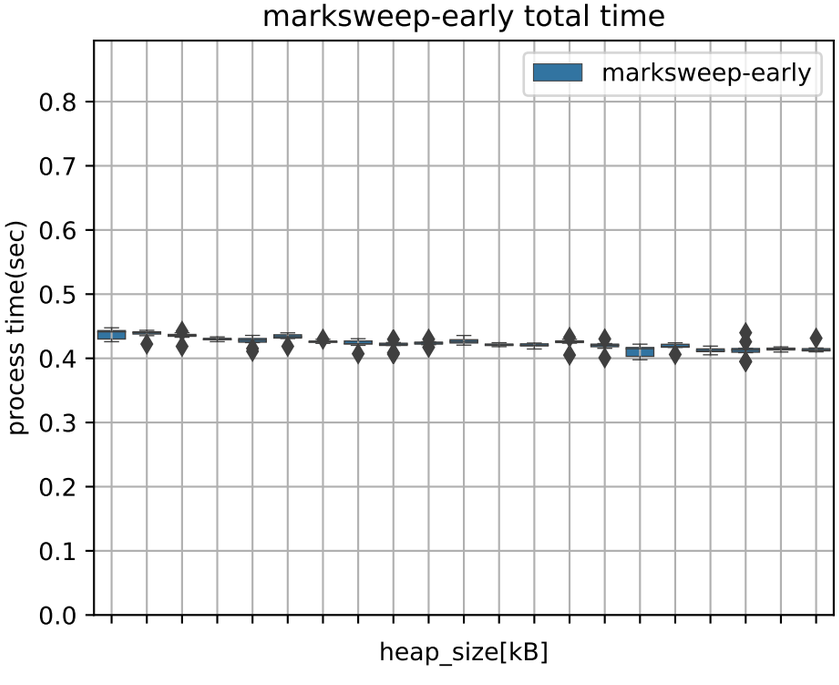

marksweep-m32 total time
marksweep-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
heap_size[kB]

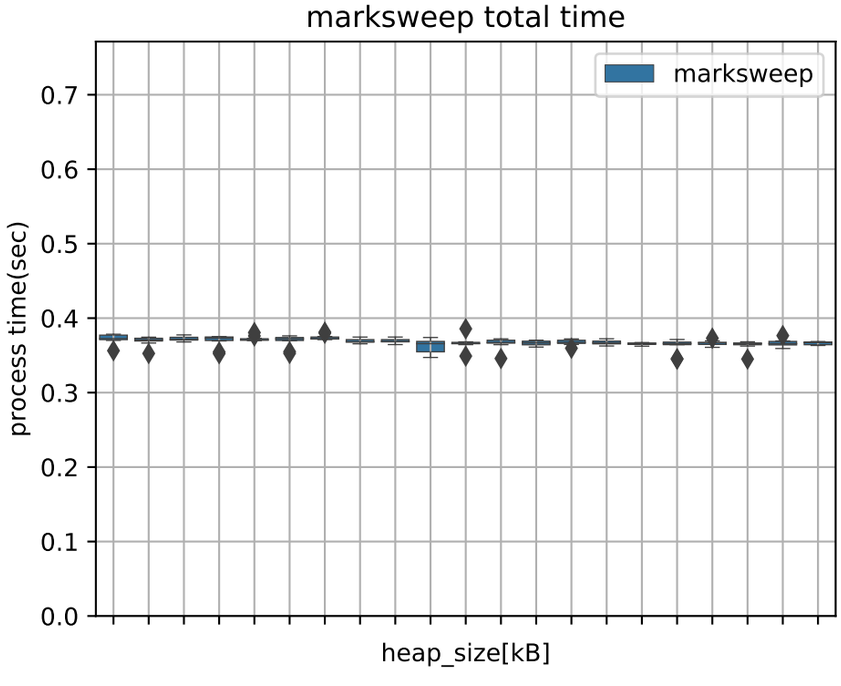

refcnt-m32 total time
refcnt-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
heap_size[kB]

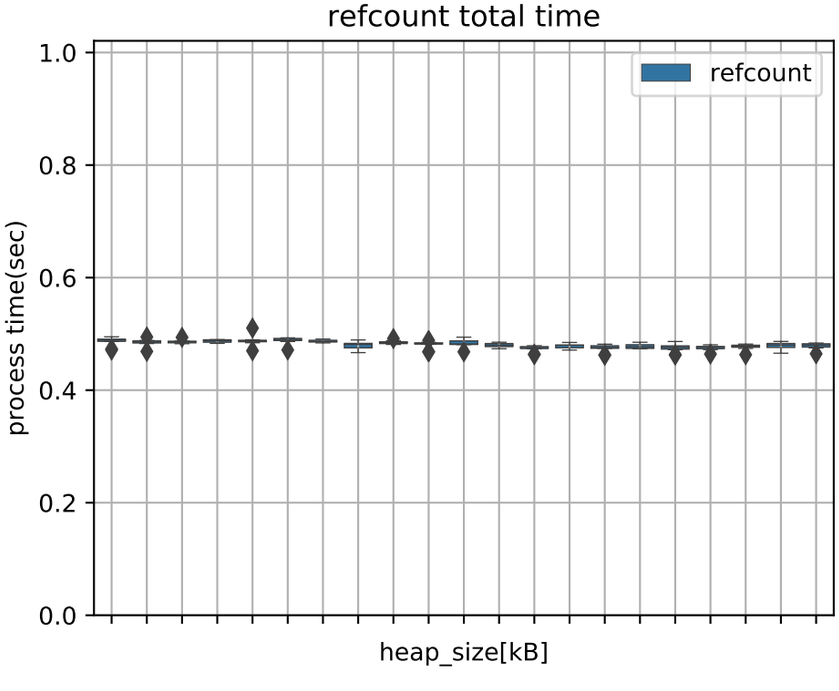

bm_app_tarai
process time(sec)
0.0
0.1
0.2
0.3
0.4
36008
36508
37008
37508
38008
38508
39008
39508
40008
40508
41008
heap_size[kB]
bitmap-marking
marksweep
refcount

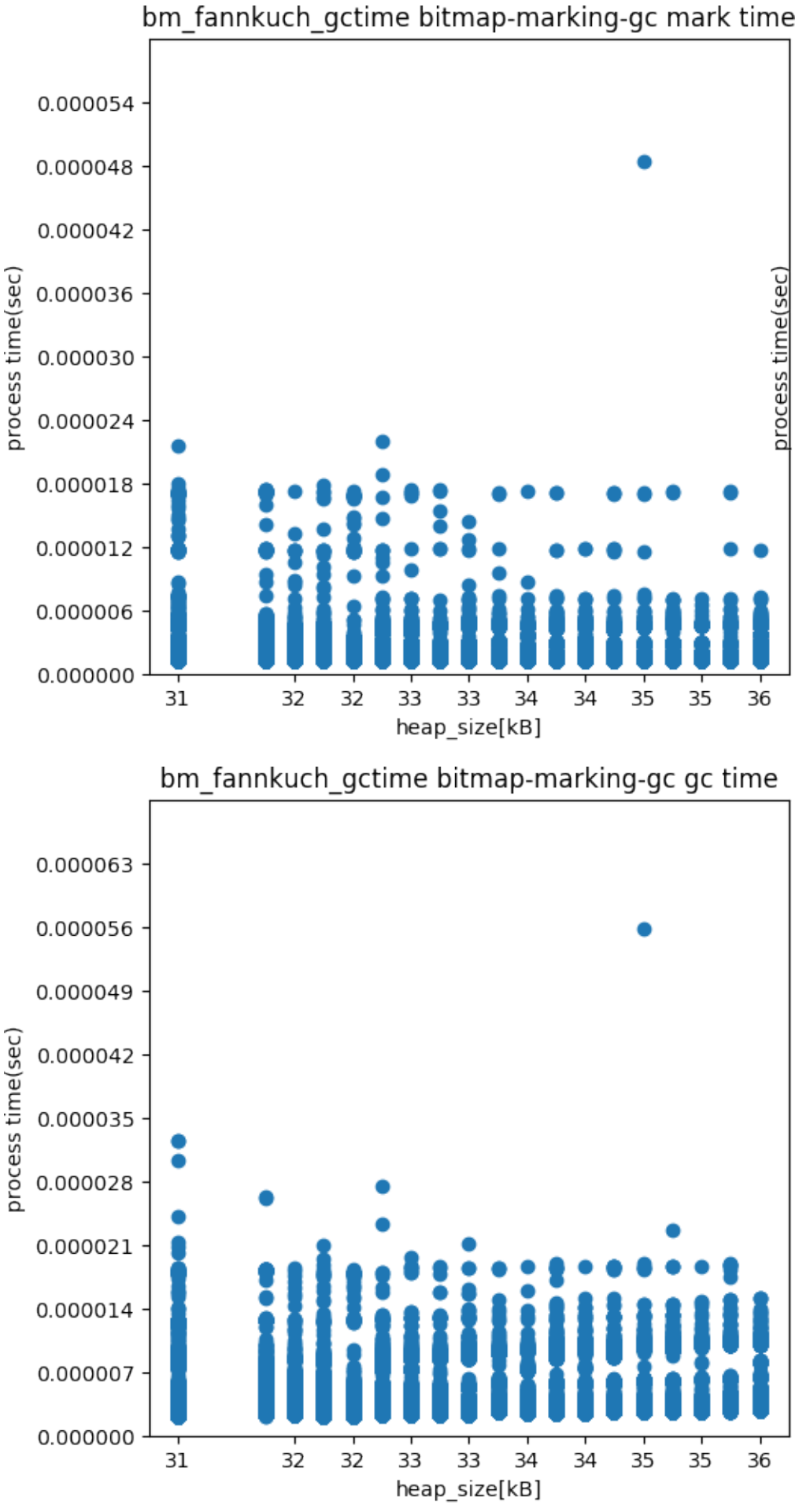

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

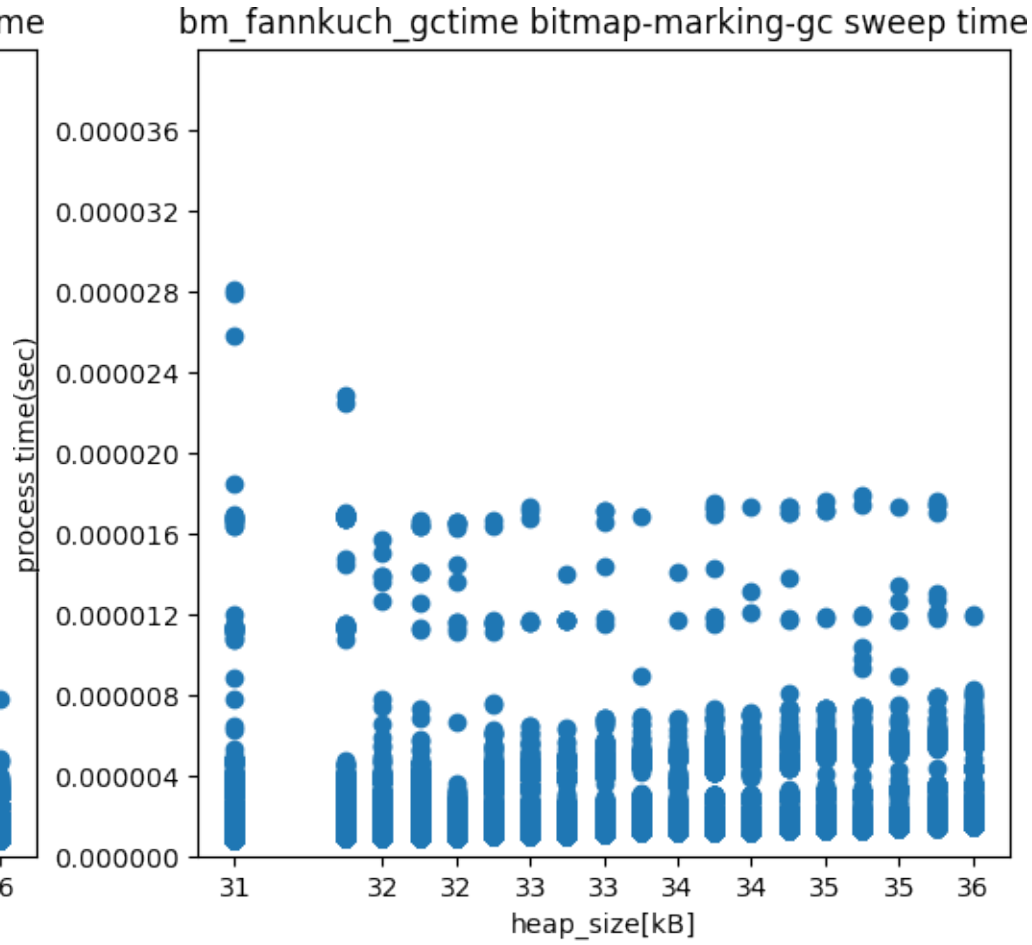

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

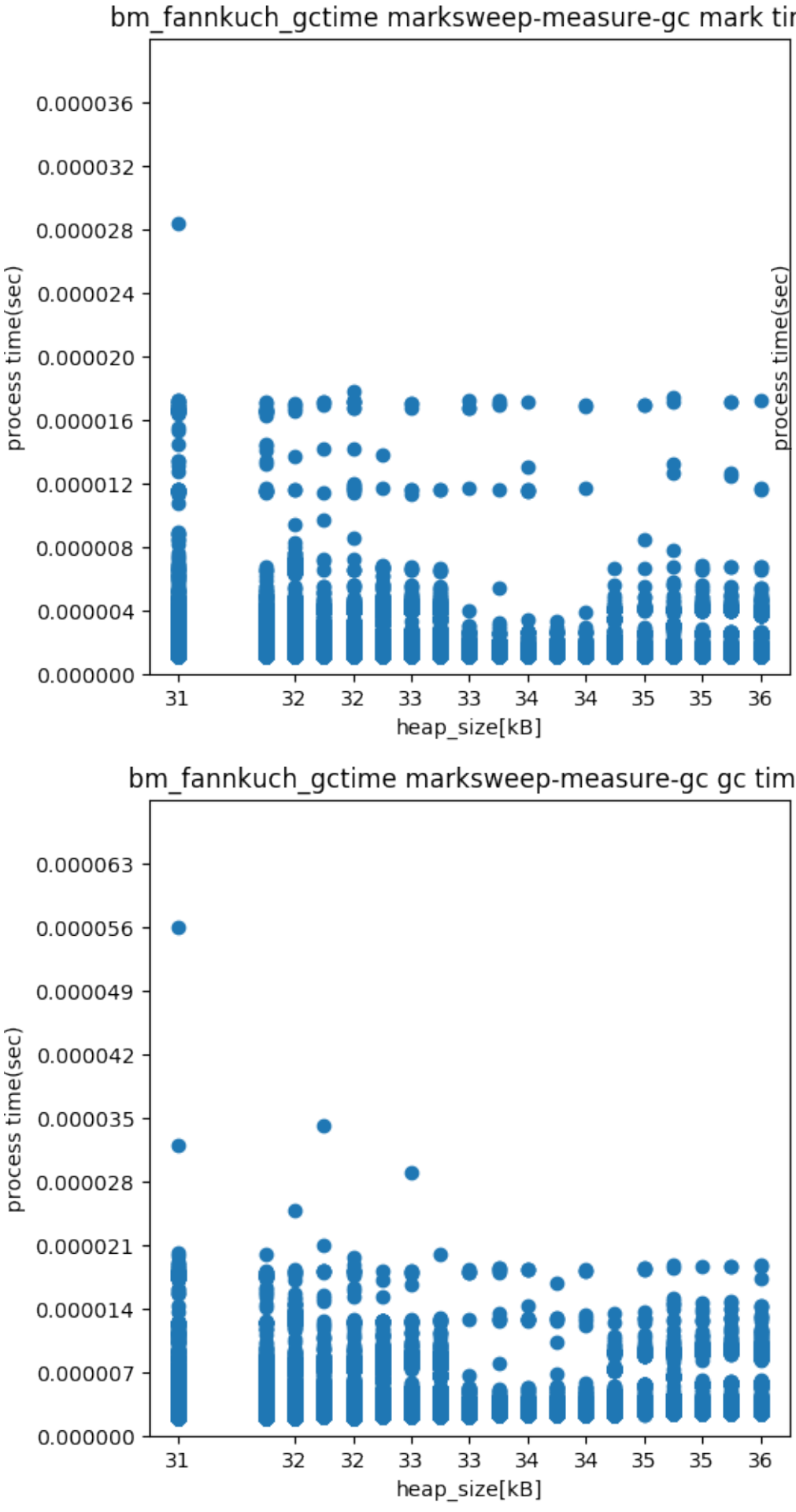

marksweep total time
marksweep
process time(sec)
heap_size[kB]

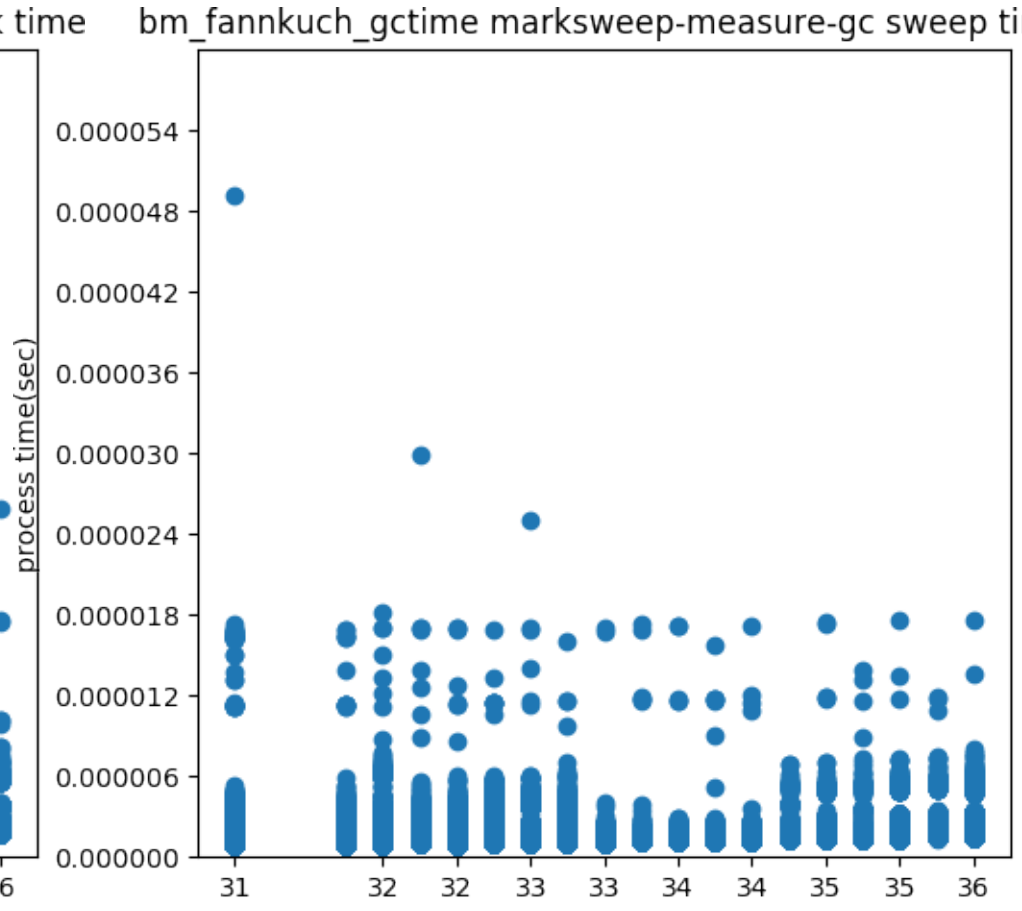

refcount total time
refcount
process time(sec)
heap_size[kB]


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
32
32
33
33
34
34
35
35
36
heap_size[kB]

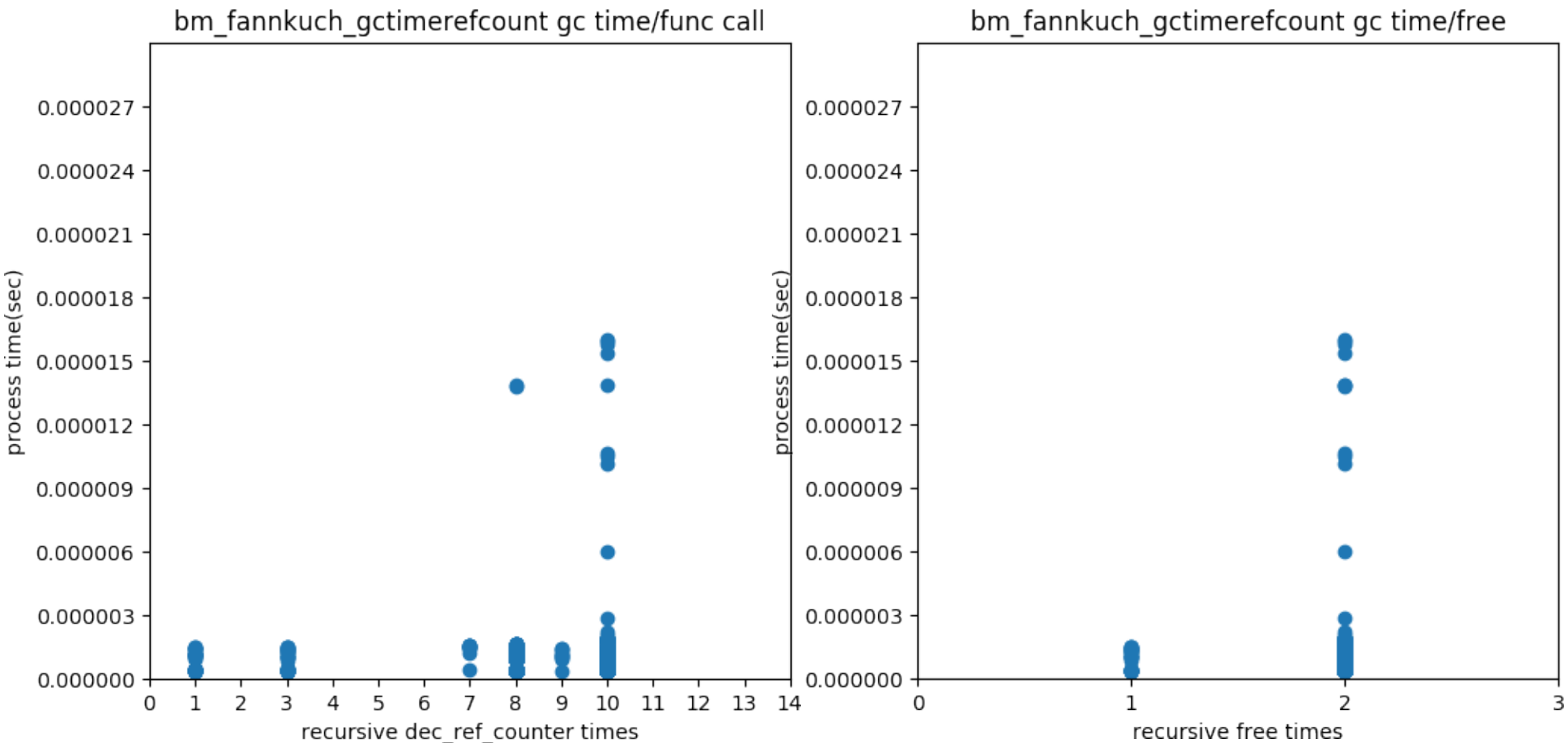

bm_fannkuch_gctime bitmap-marking-gc sweep time
process time(sec)
0.000000
0.000004
0.000008
0.000012
0.000016
0.000020
0.000024
0.000028
0.000032
0.000036
31
32
32
33
33
34
34
35
35
36
heap_size[kB]

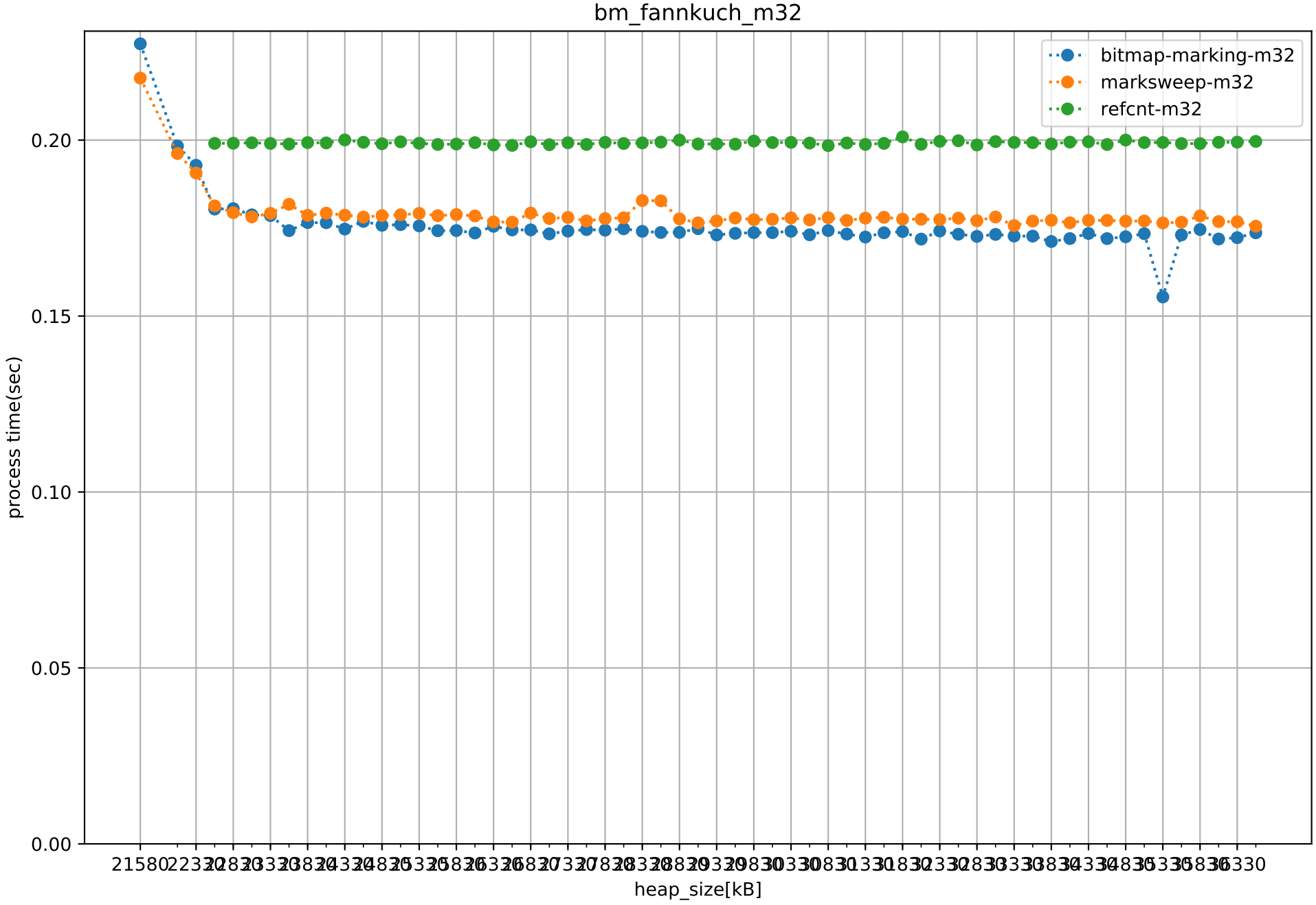
bm_fannkuch_gctime bitmap-marking-gc gc time
process time(sec)
0.000000
0.000007
0.000014
0.000021
0.000028
0.000035
0.000042
0.000049
0.000056
0.000063
31
32
32
33
33
34
34
35
35
36
heap_size[kB]

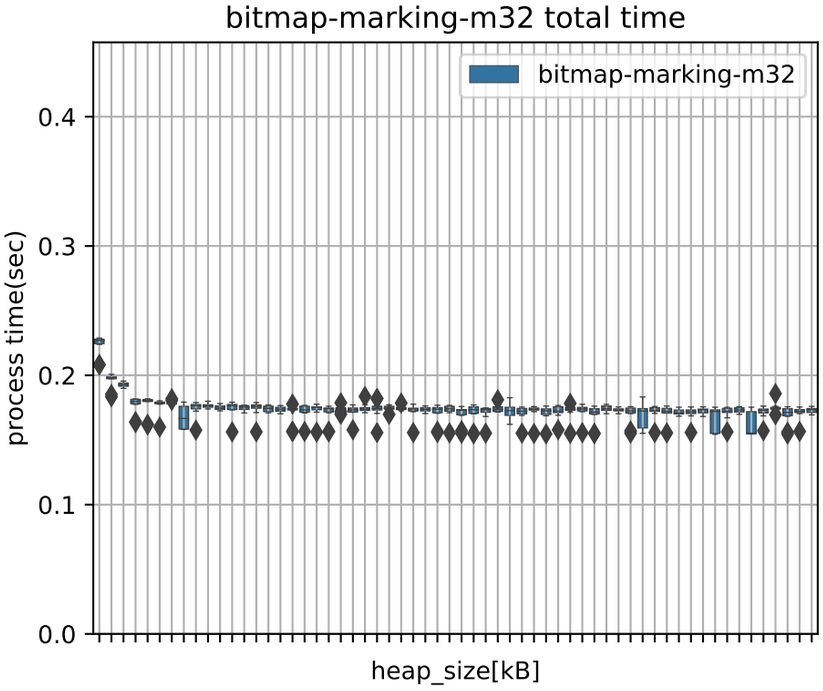

bm_fannkuch_gctime marksweep-measure-gc mark time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
31
32
32
33
33
34
34
35
35
36
heap_size[kB]

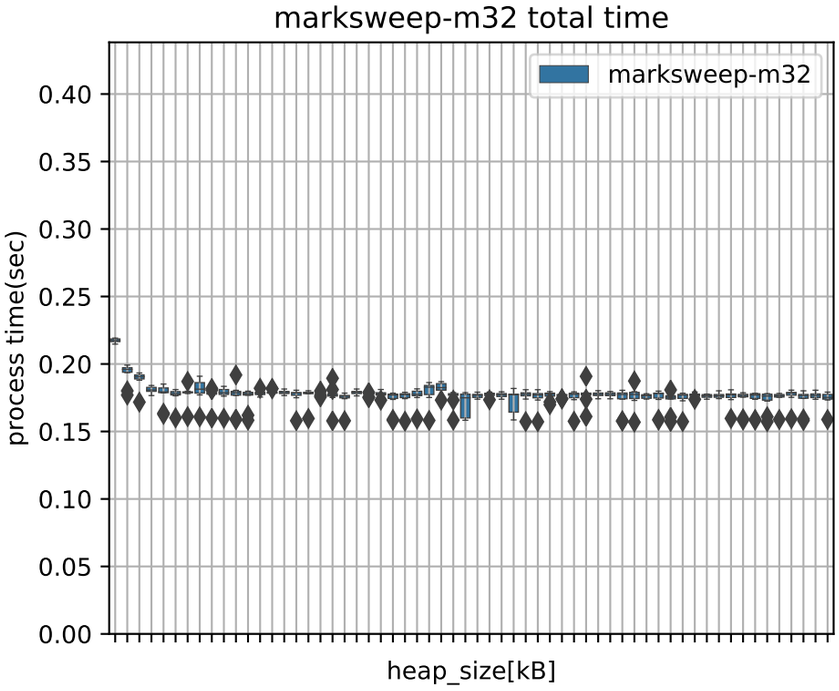

bm_fannkuch_gctime marksweep-measure-gc sweep time
process time(sec)
0.000054
0.000048
0.000042
0.000036
0.000030
0.000024
0.000018
0.000012
0.000006
0.000000
31
32
32
33
33
34
34
35
35
36
heap_size[kB]

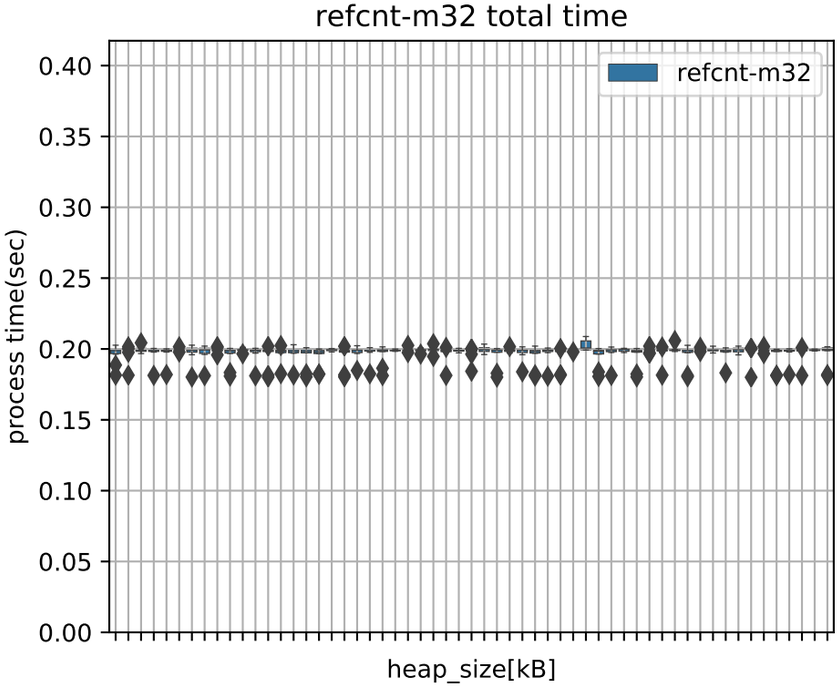
bm_fannkuch_gctime marksweep-measure-gc gc time
process time(sec)
0.000063
0.000056
0.000049
0.000042
0.000035
0.000028
0.000021
0.000014
0.000007
0.000000
31
32
32
33
33
34
34
35
35
36
heap_size[kB]

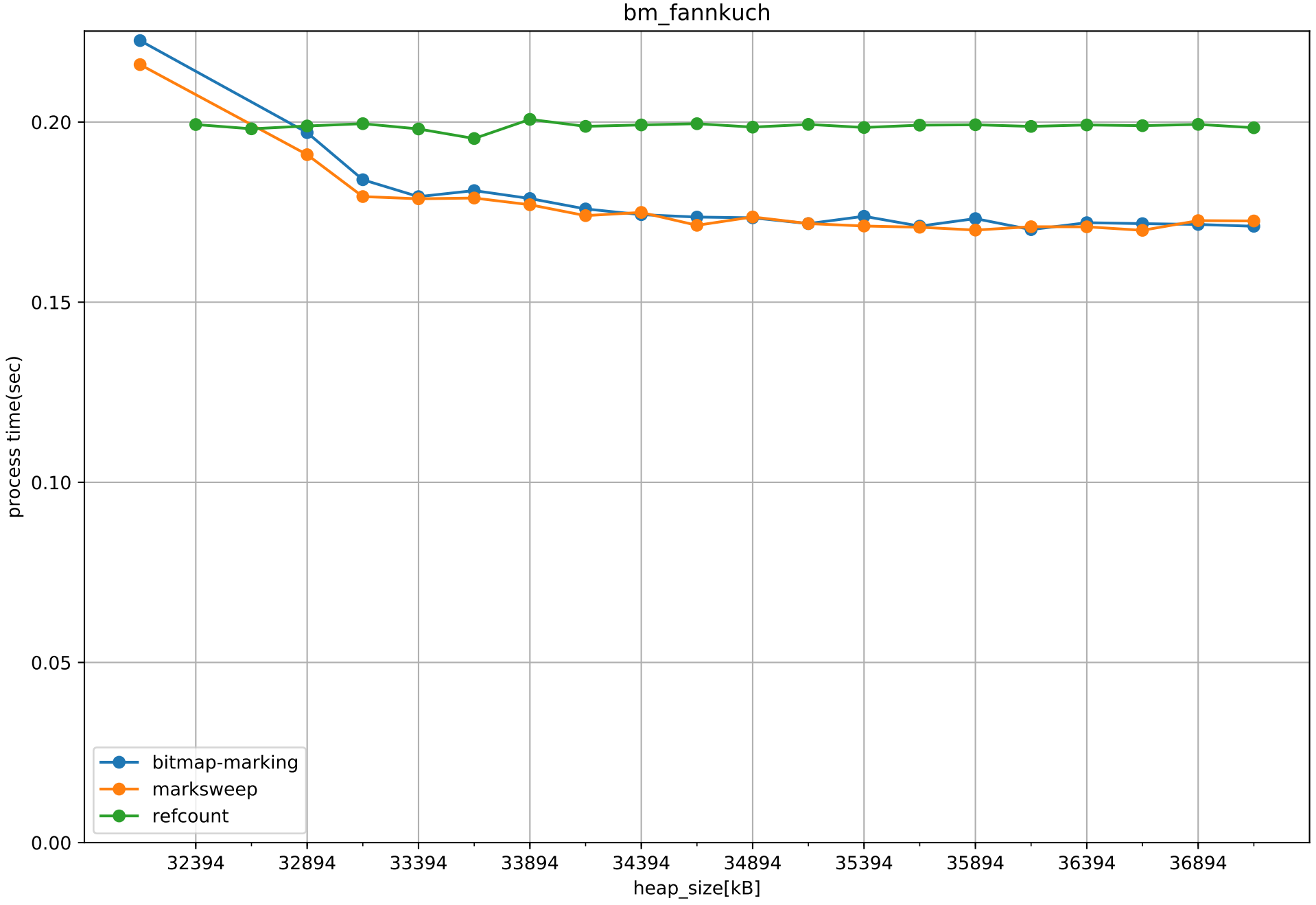

bm_fannkuch_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
recursive dec_ref_counter times
bm_fannkuch_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021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

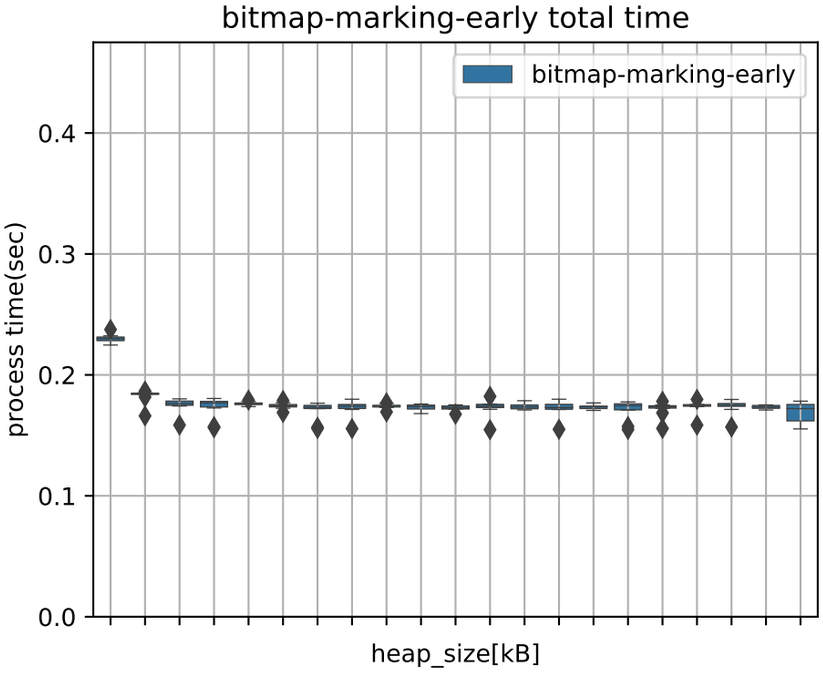

bm_fannkuch_m32
bitmap-marking-m32
marksweep-m32
refcnt-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
heap_size[kB]

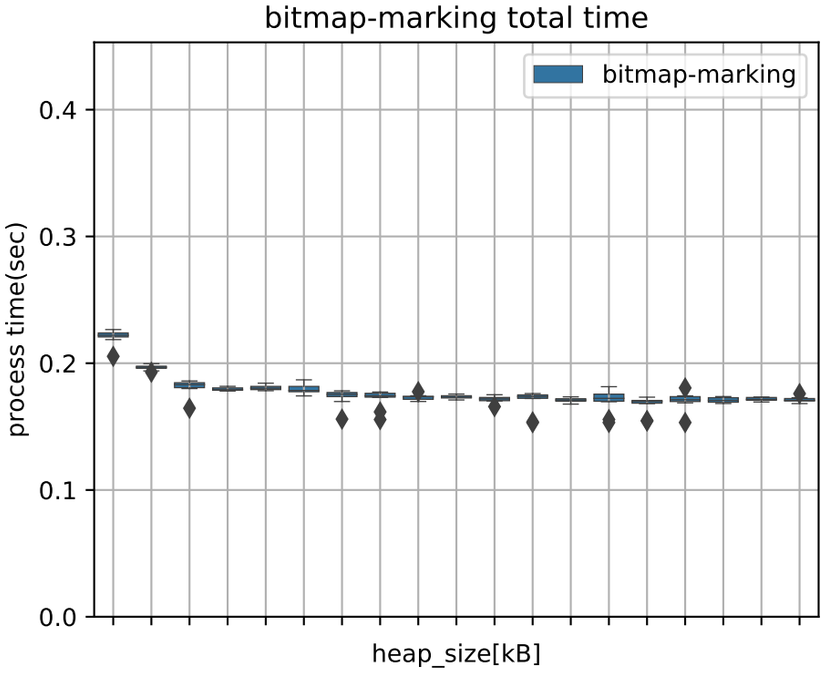

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
heap_size[kB]

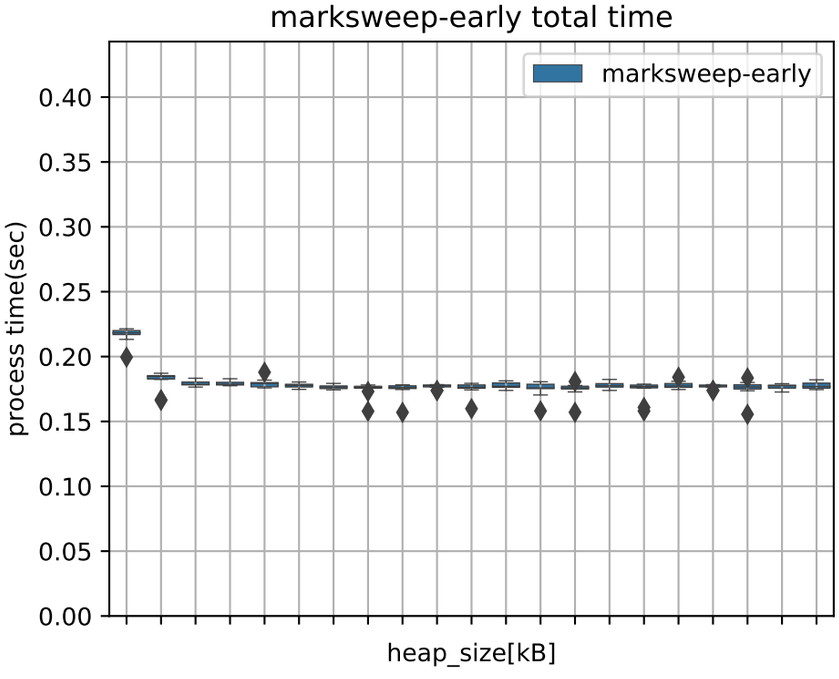

marksweep-m32 total time
marksweep-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
heap_size[kB]

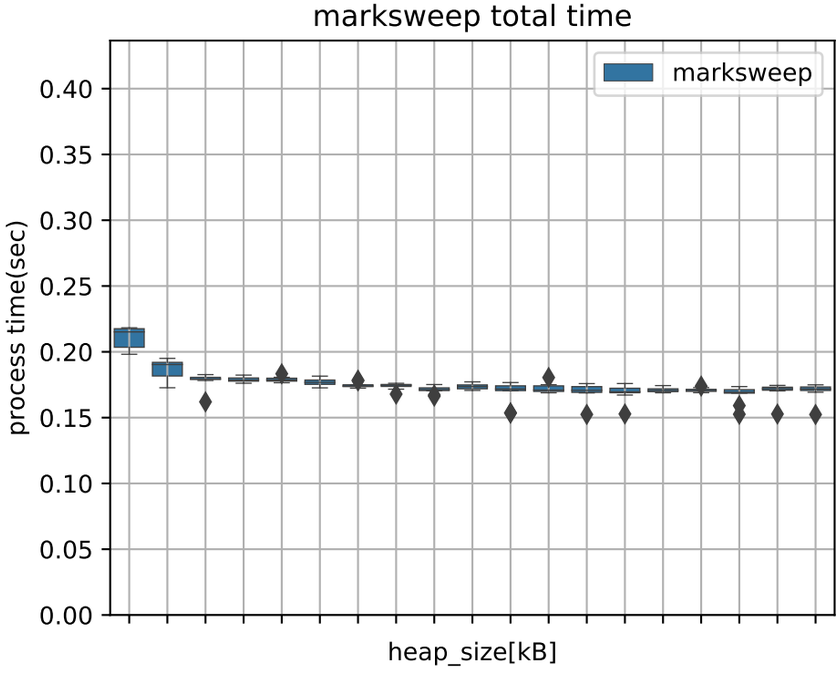

refcnt-m32 total time
refcnt-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
heap_size[kB]

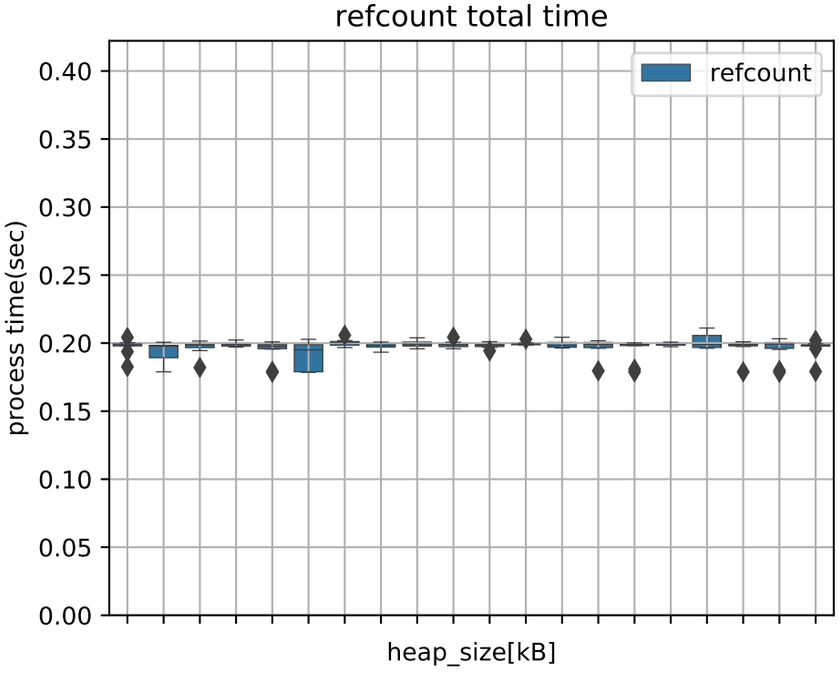

bm_fannkuch
process time(sec)
0.00
0.05
0.10
0.15
0.20
32394
32894
33394
33894
34394
34894
35394
35894
36394
36894
heap_size[kB]
bitmap-marking
marksweep
refcount

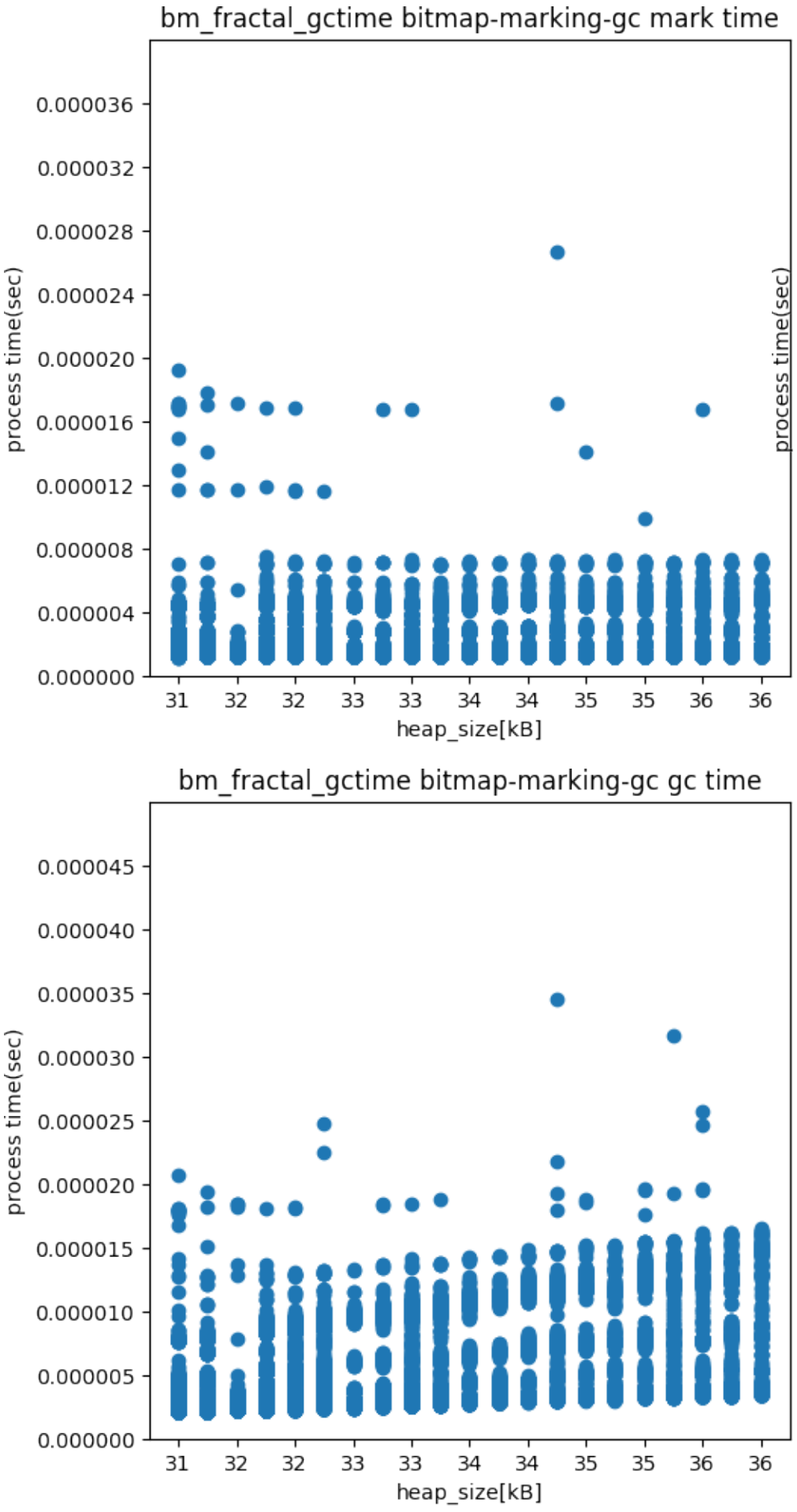

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

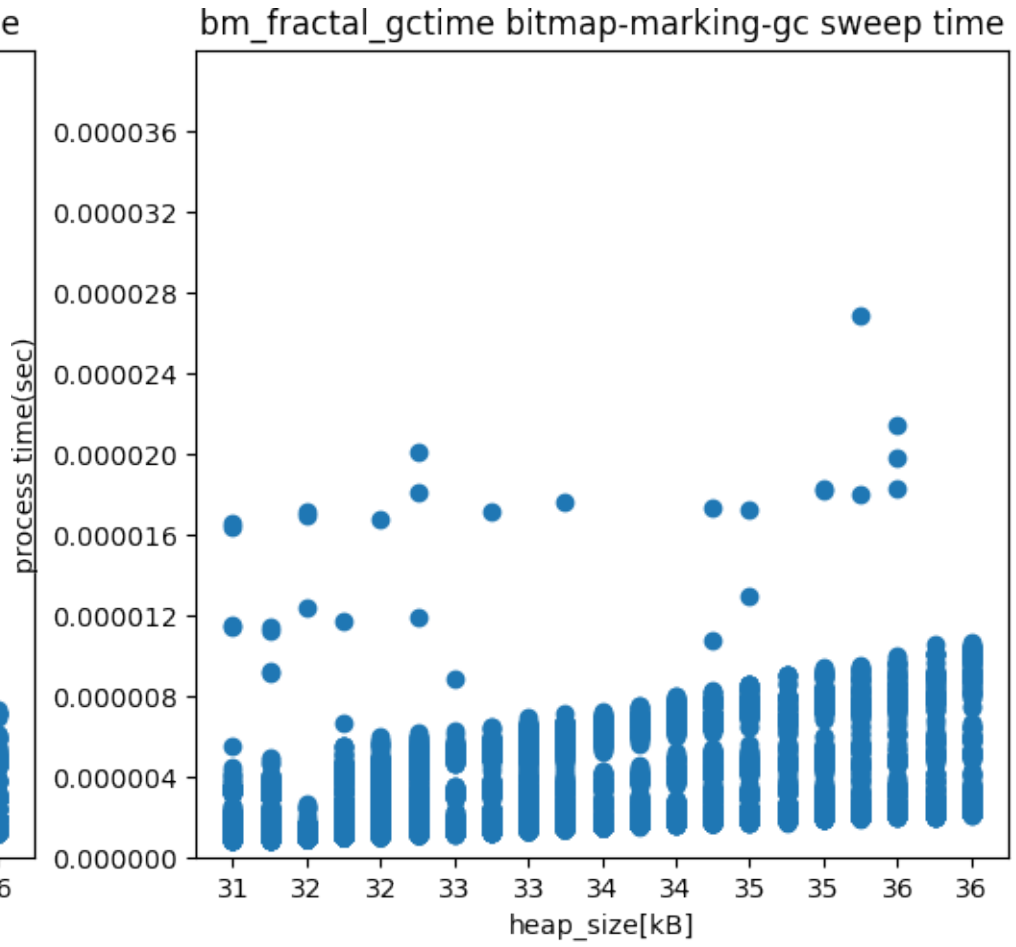

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

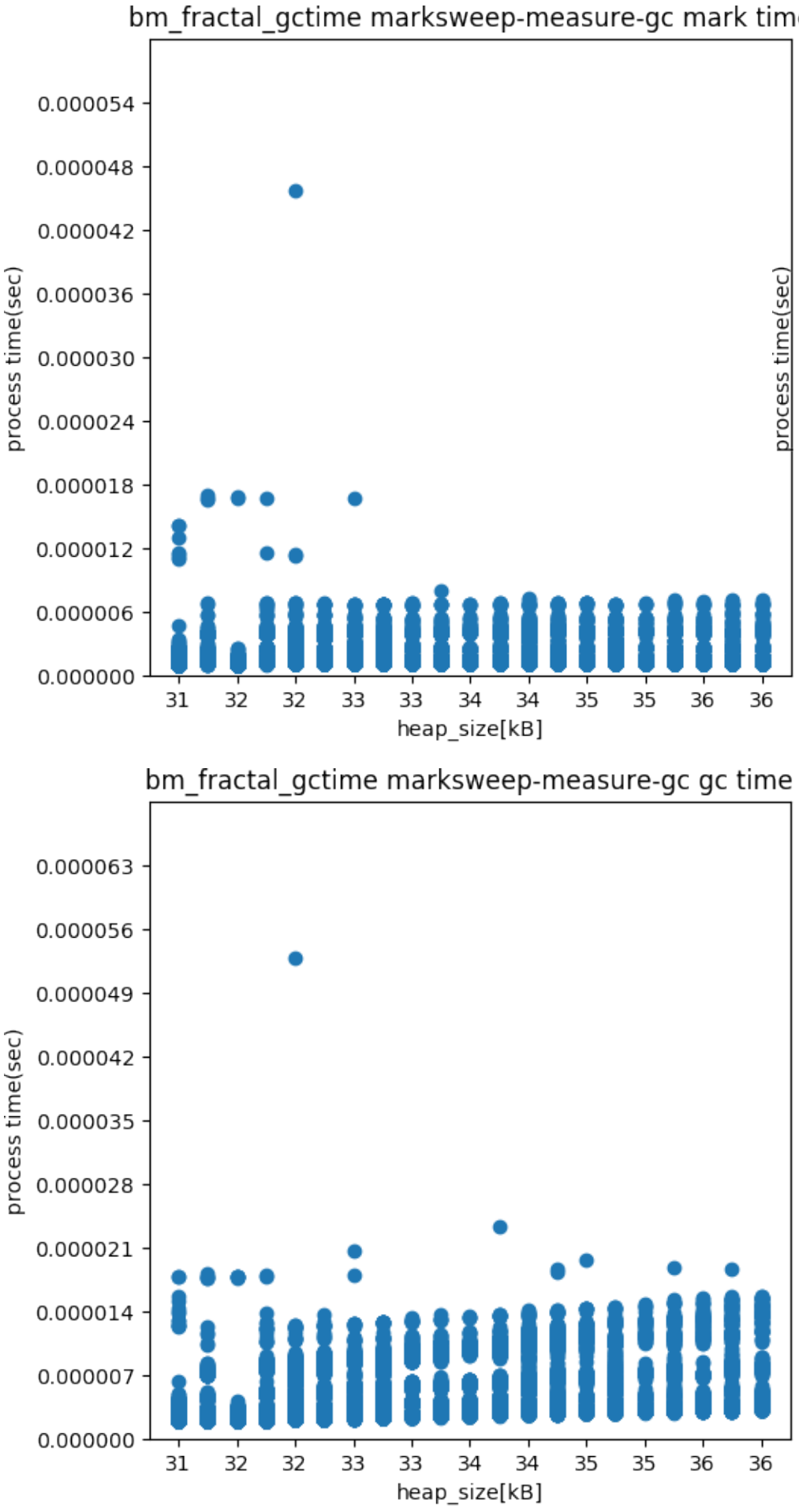

marksweep total time
marksweep
process time(sec)
heap_size[kB]

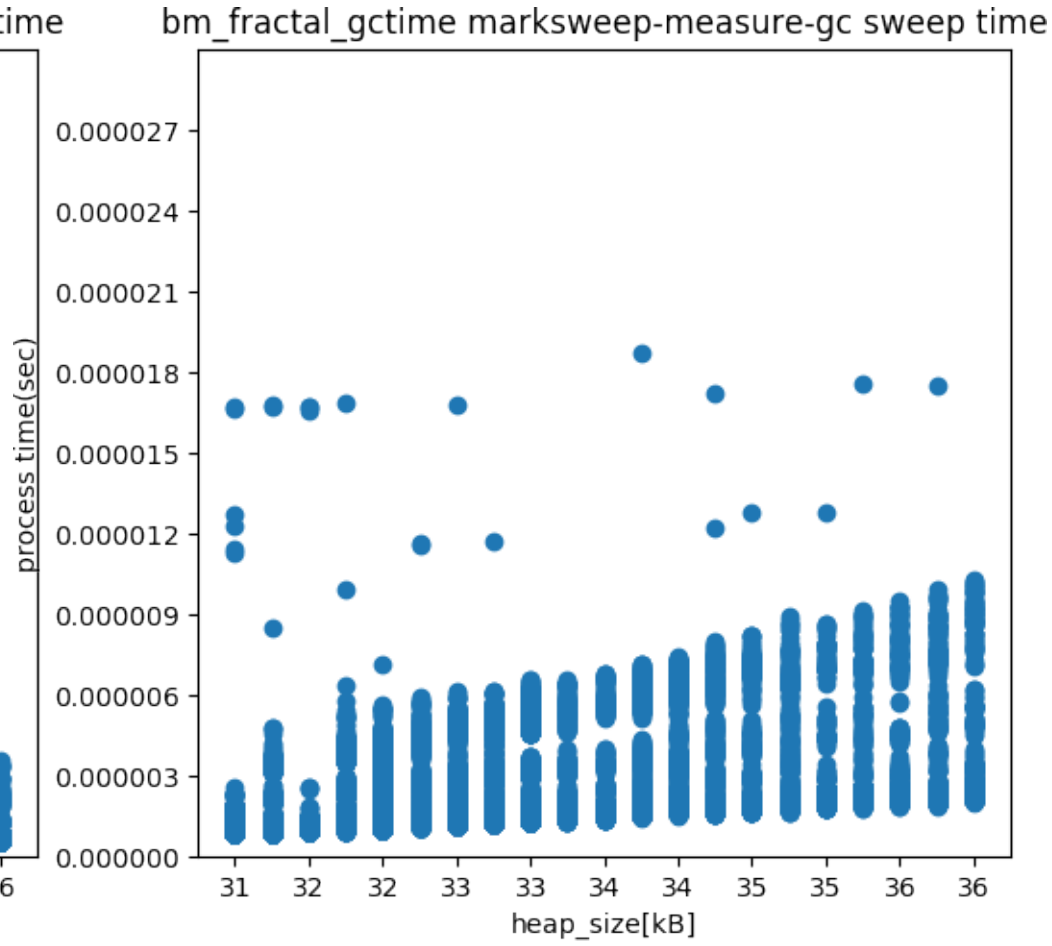

refcount total time
refcount
process time(sec)
heap_size[kB]


bm_fractal_gctime bitmap-marking-gc mark time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
31 32 32 33 33 34 34 35 35 36 36
heap_size[kB]

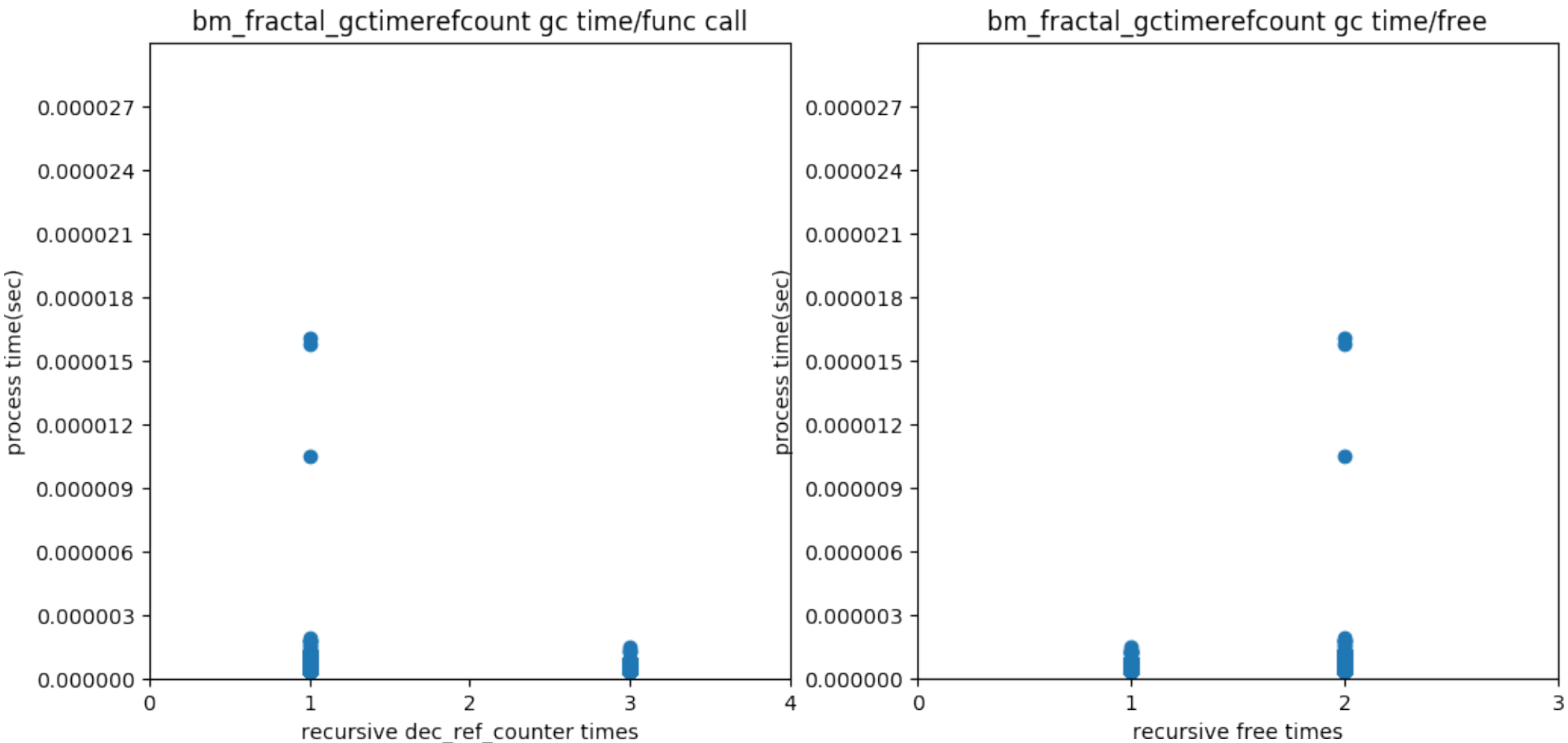

bm_fractal_gctime bitmap-marking-gc sweep time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
31 32 32 33 33 34 34 35 35 36 36
heap_size[kB]

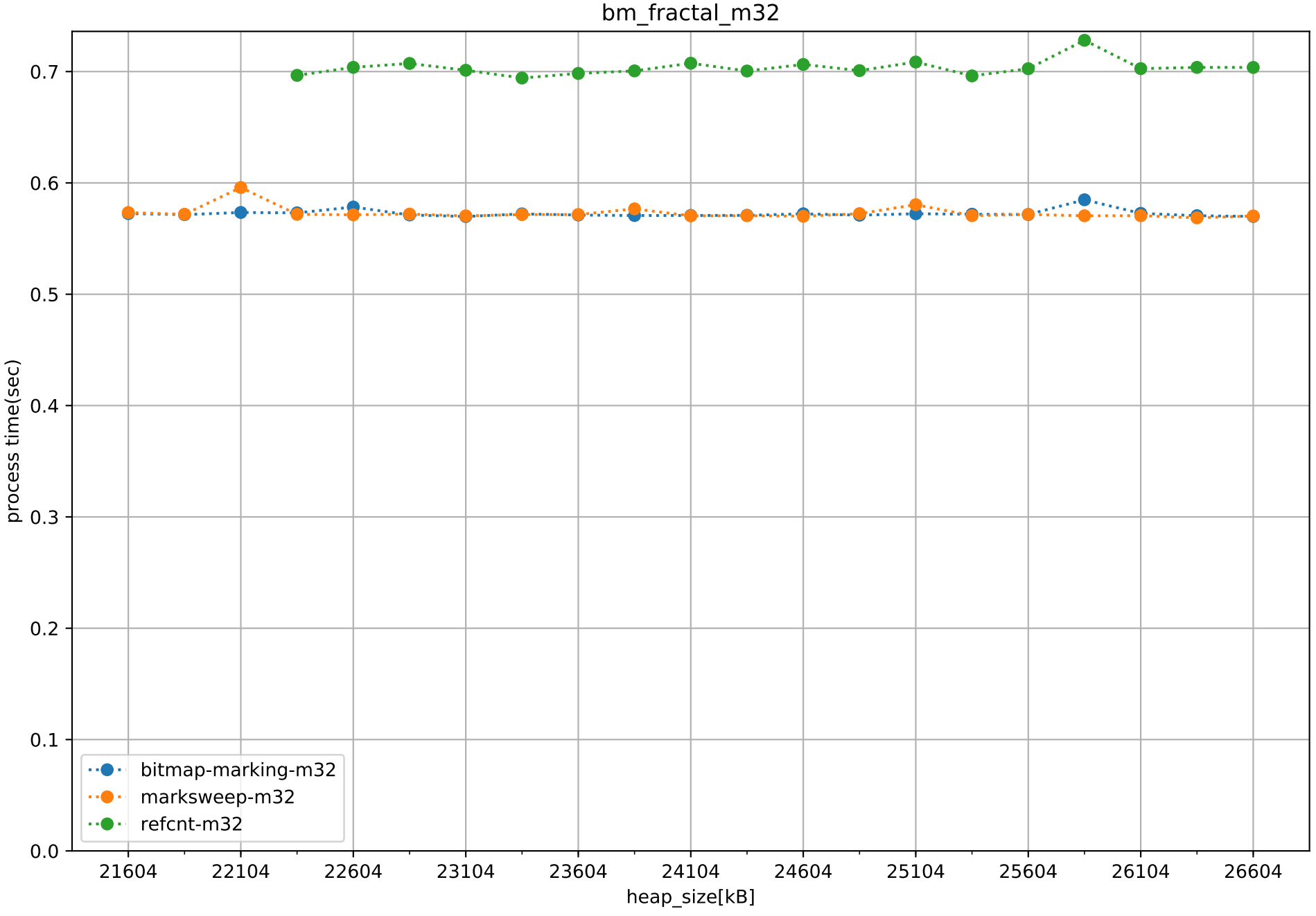
bm_fractal_gctime bitmap-marking-gc gc time
process time(sec)
0.000045
0.000040
0.000035
0.000030
0.000025
0.000020
0.000015
0.000010
0.000005
0.000000
31 32 32 33 33 34 34 35 35 36 36
heap_size[kB]

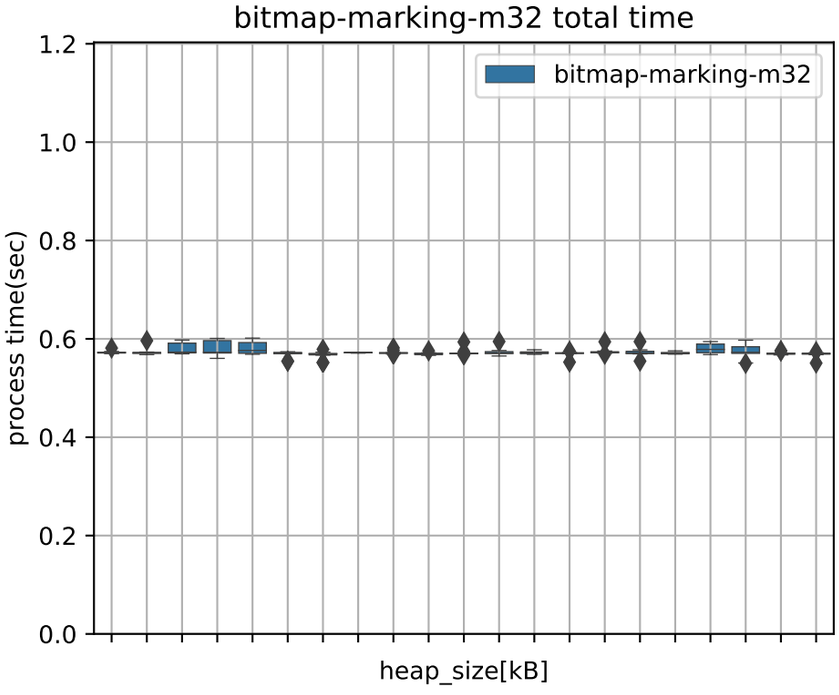

bm_fractal_gctime marksweep-measure-gc mark time
process time(sec)
0.000054
0.000048
0.000042
0.000036
0.000030
0.000024
0.000018
0.000012
0.000006
0.000000
31
32
32
33
33
34
34
35
35
36
36
heap_size[kB]

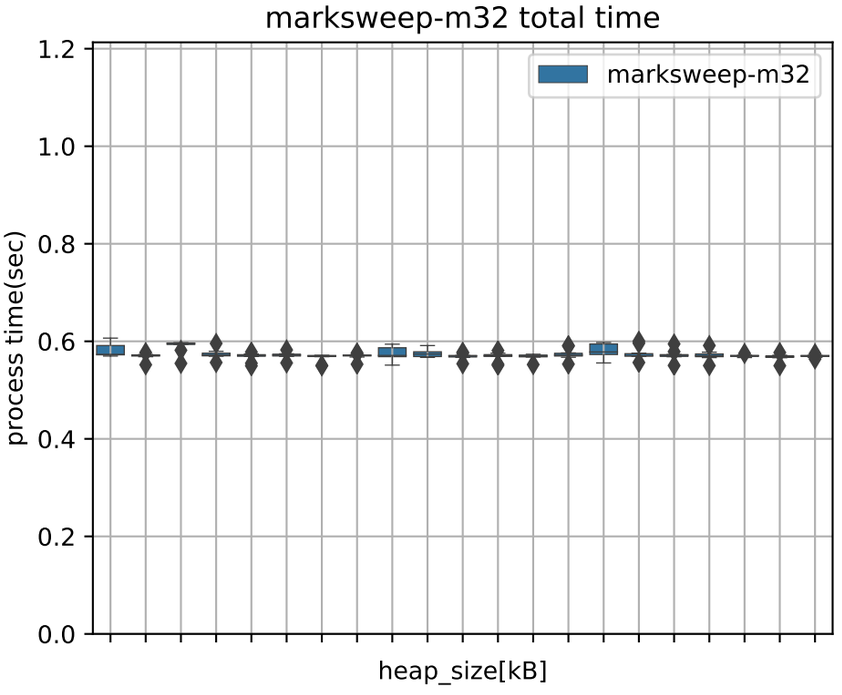

bm_fractal_gctime marksweep-measure-gc sweep time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
31
32
32
33
33
34
34
35
35
36
36
heap_size[kB]

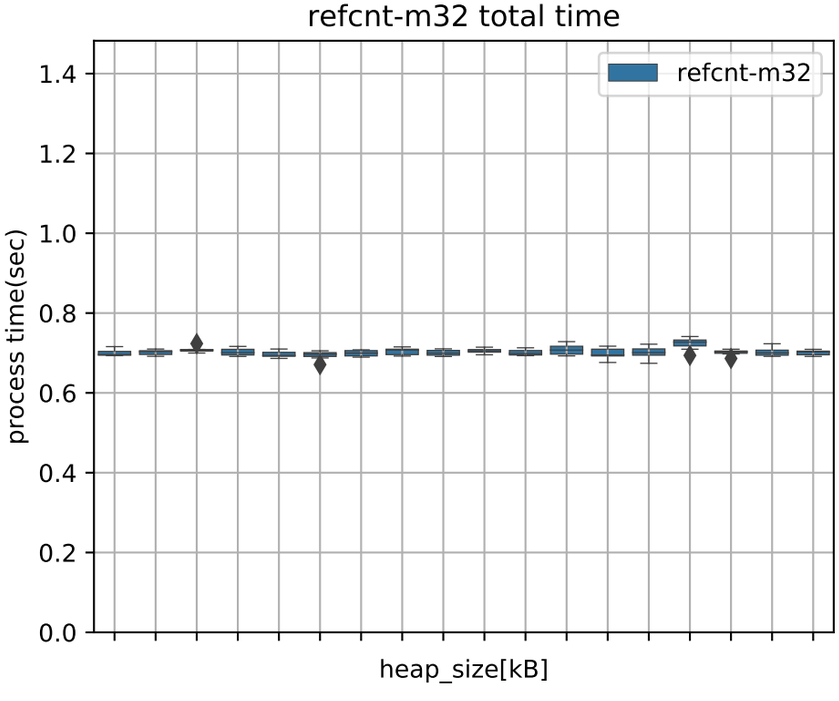
bm_fractal_gctime marksweep-measure-gc gc time
process time(sec)
0.000063
0.000056
0.000049
0.000042
0.000035
0.000028
0.000021
0.000014
0.000007
0.000000
31
32
32
33
33
34
34
35
35
36
36
heap_size[kB]

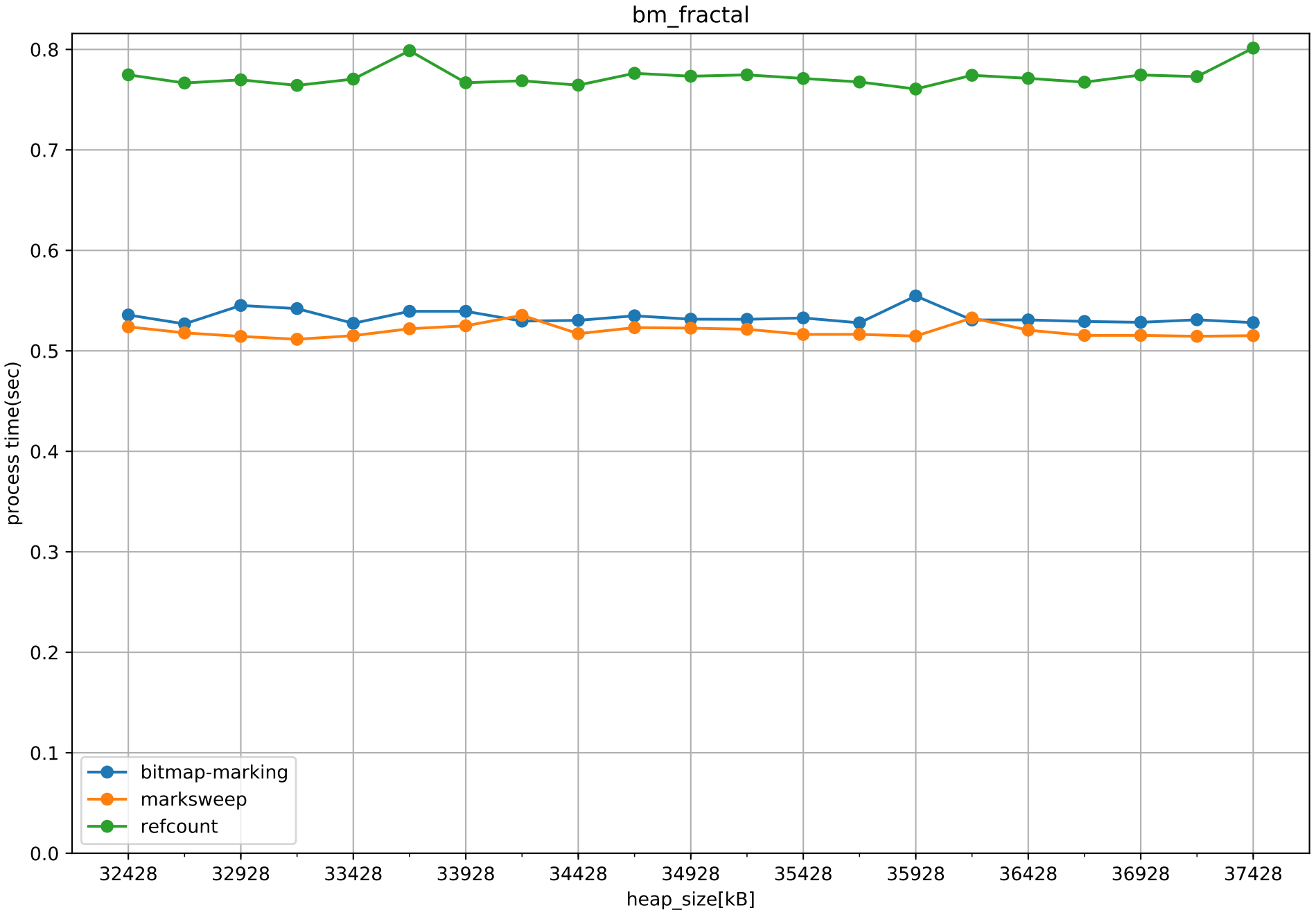

bm_fractal_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
1
2
3
4
recursive dec_ref_counter times
bm_fractal_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012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

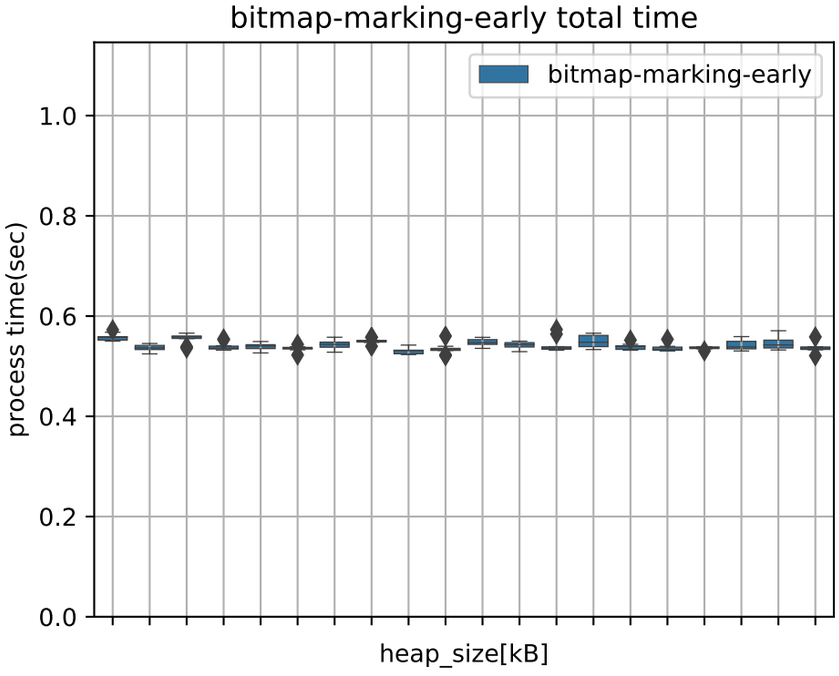

bm_fractal_m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
21604
22104
22604
23104
23604
24104
24604
25104
25604
26104
26604
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

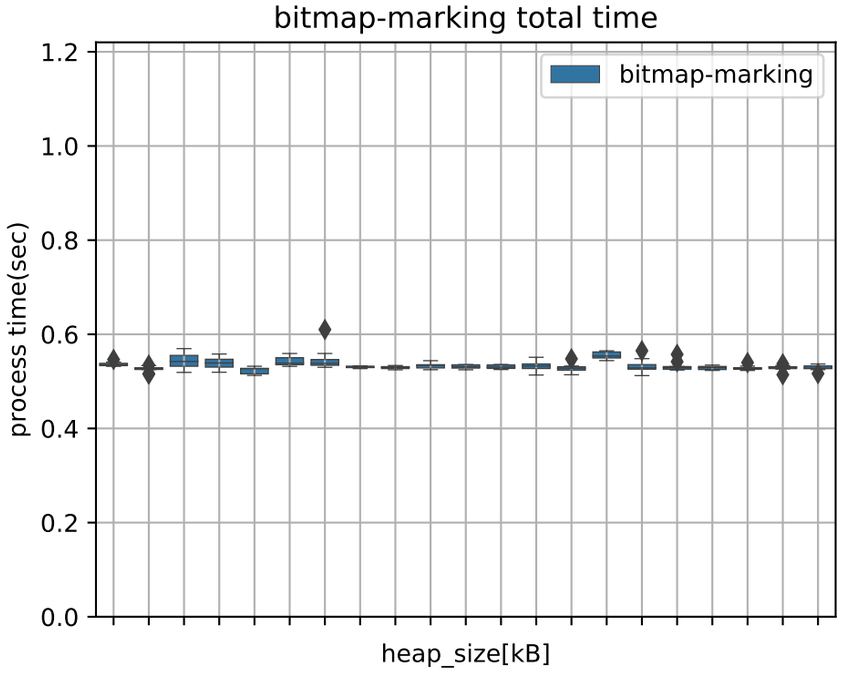

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2

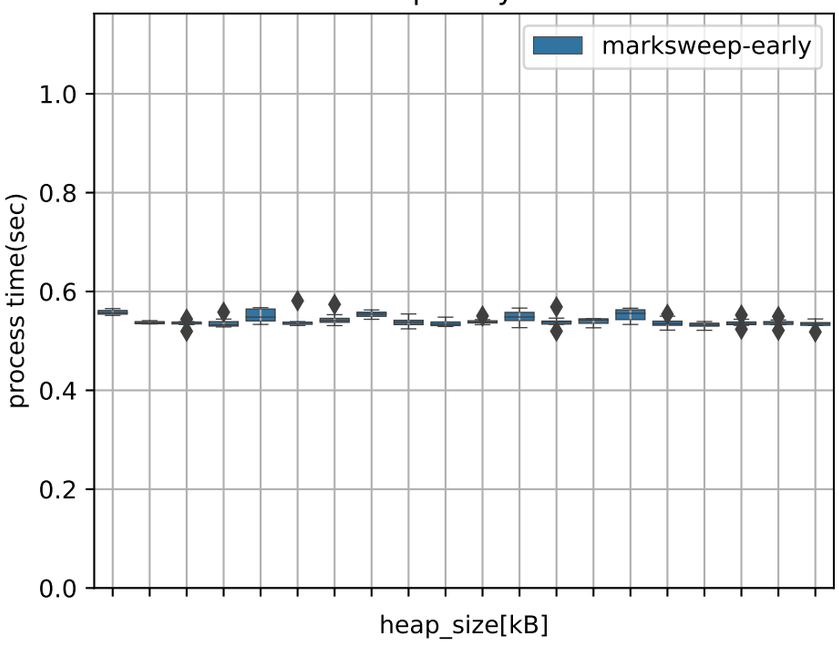

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2

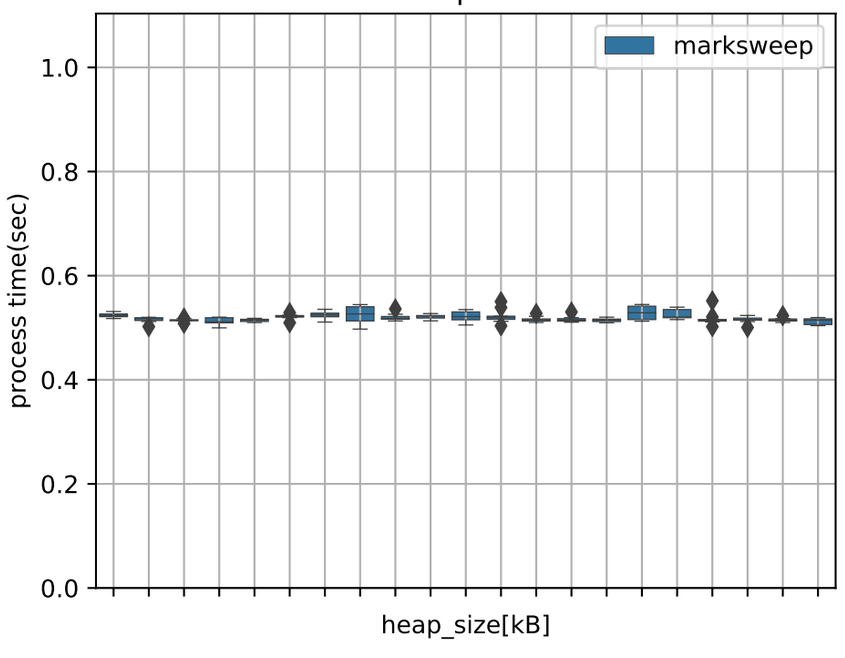

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4

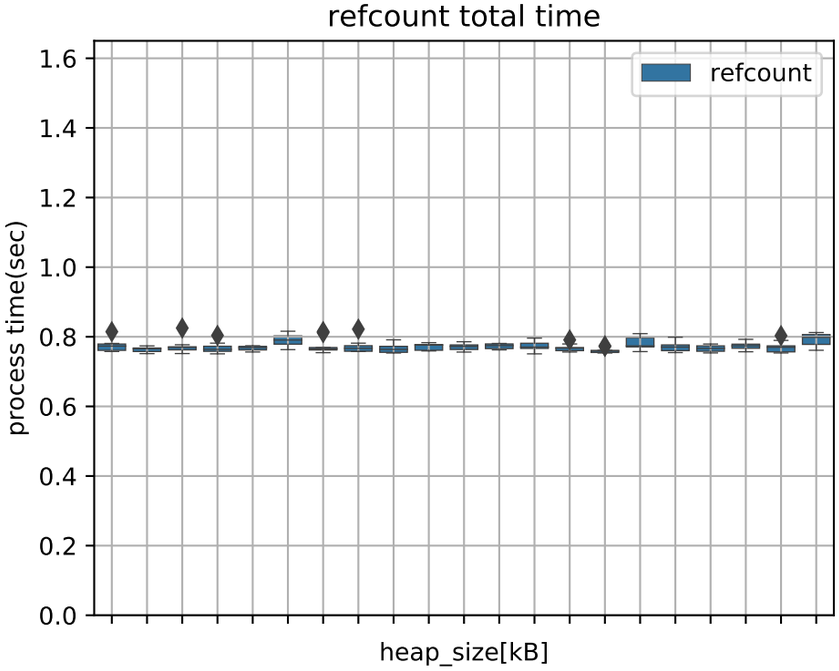

bm_fractal
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
32428
32928
33428
33928
34428
34928
35428
35928
36428
36928
37428
heap_size[kB]
bitmap-marking
marksweep
refcount

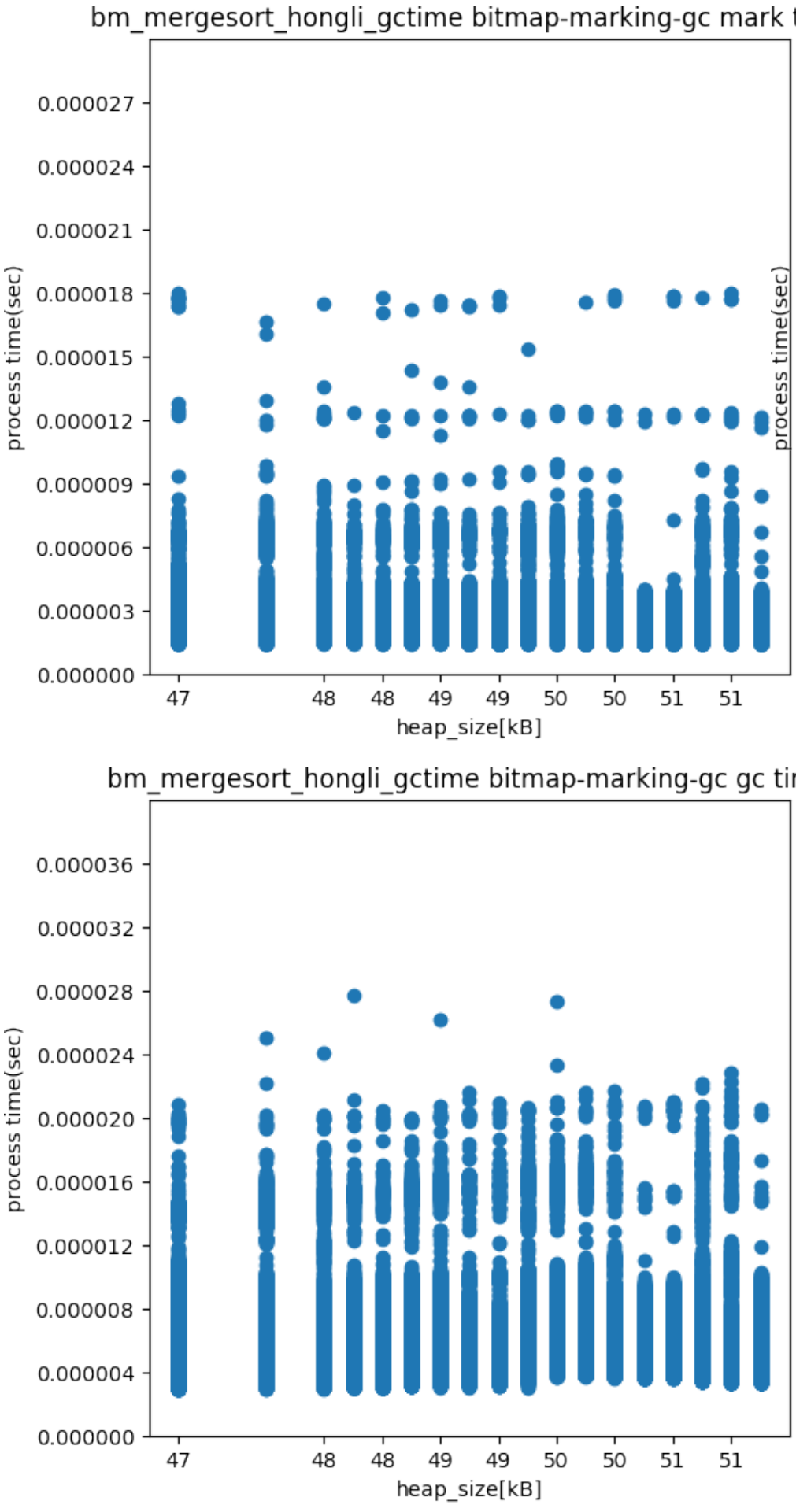

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

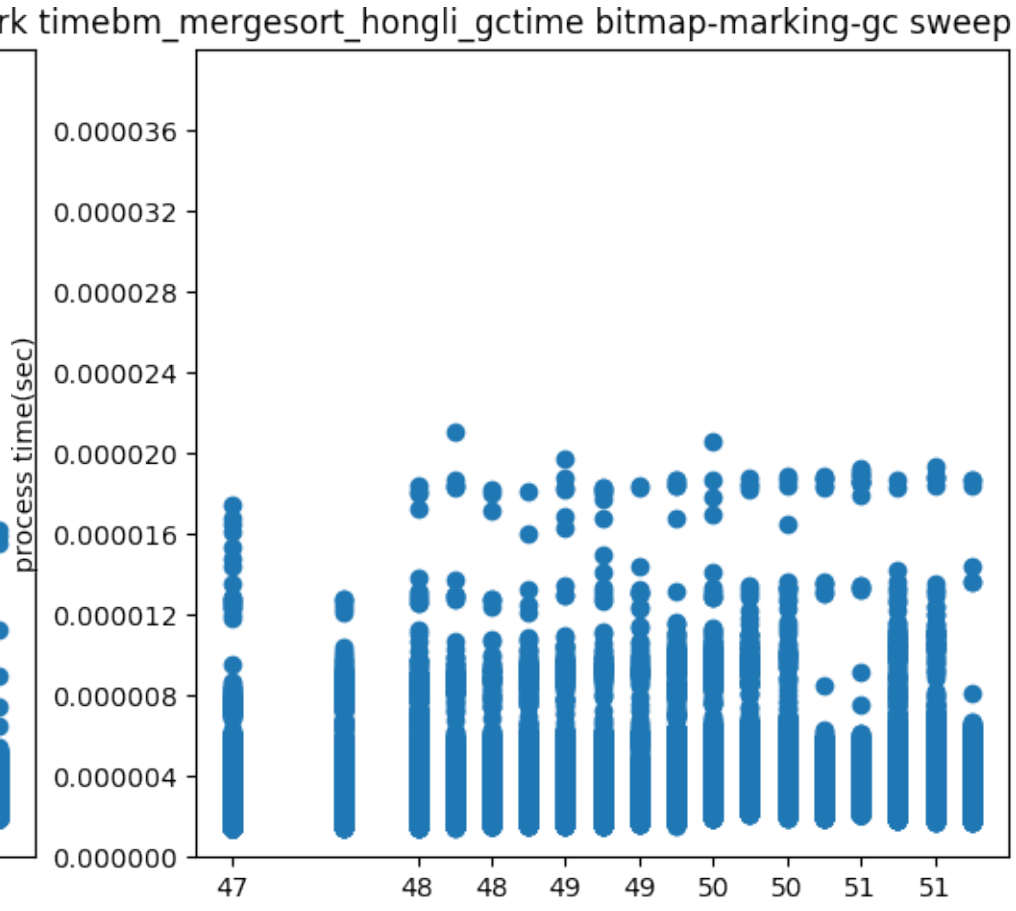

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

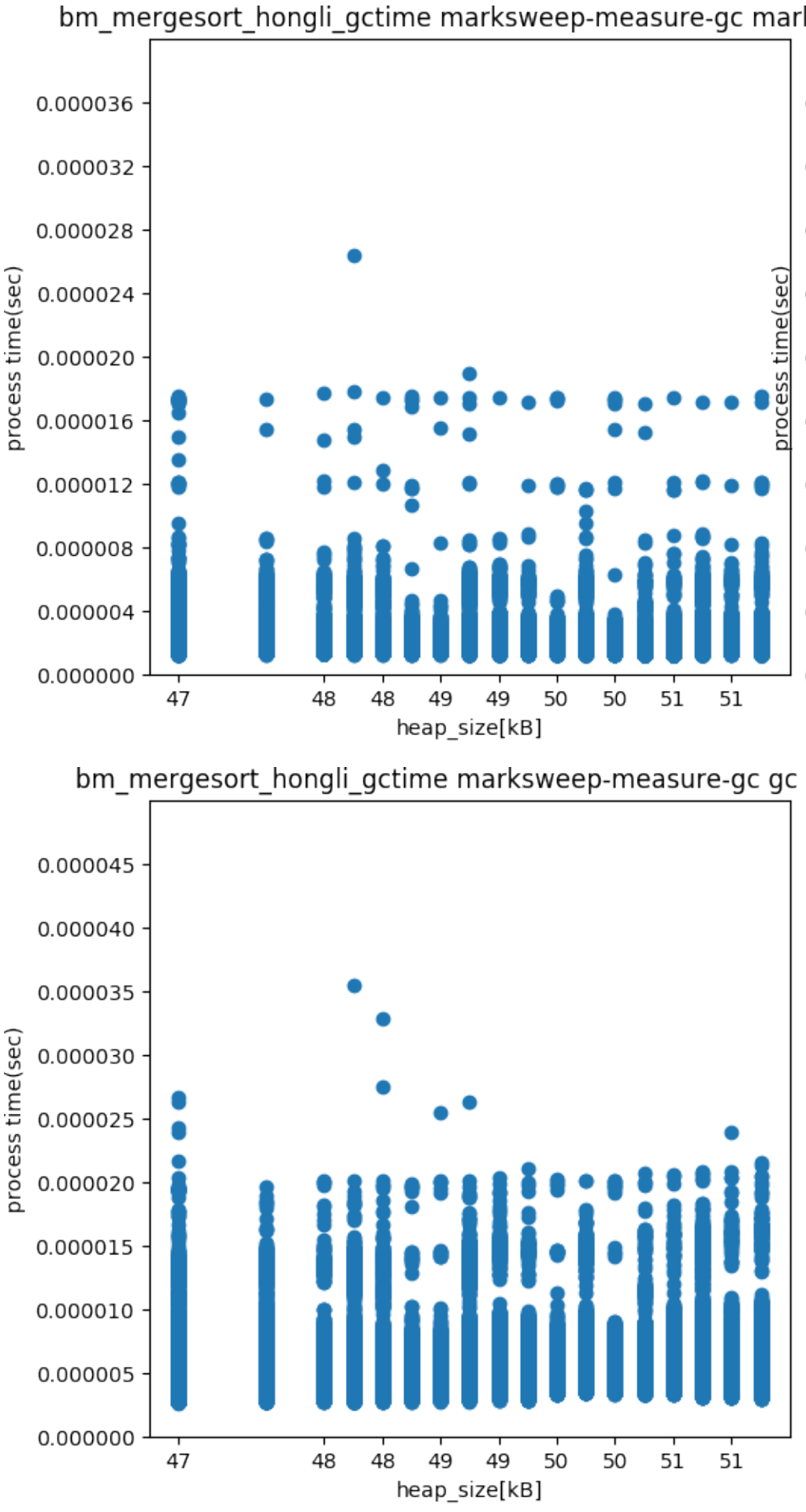

marksweep total time
marksweep
process time(sec)
heap_size[kB]

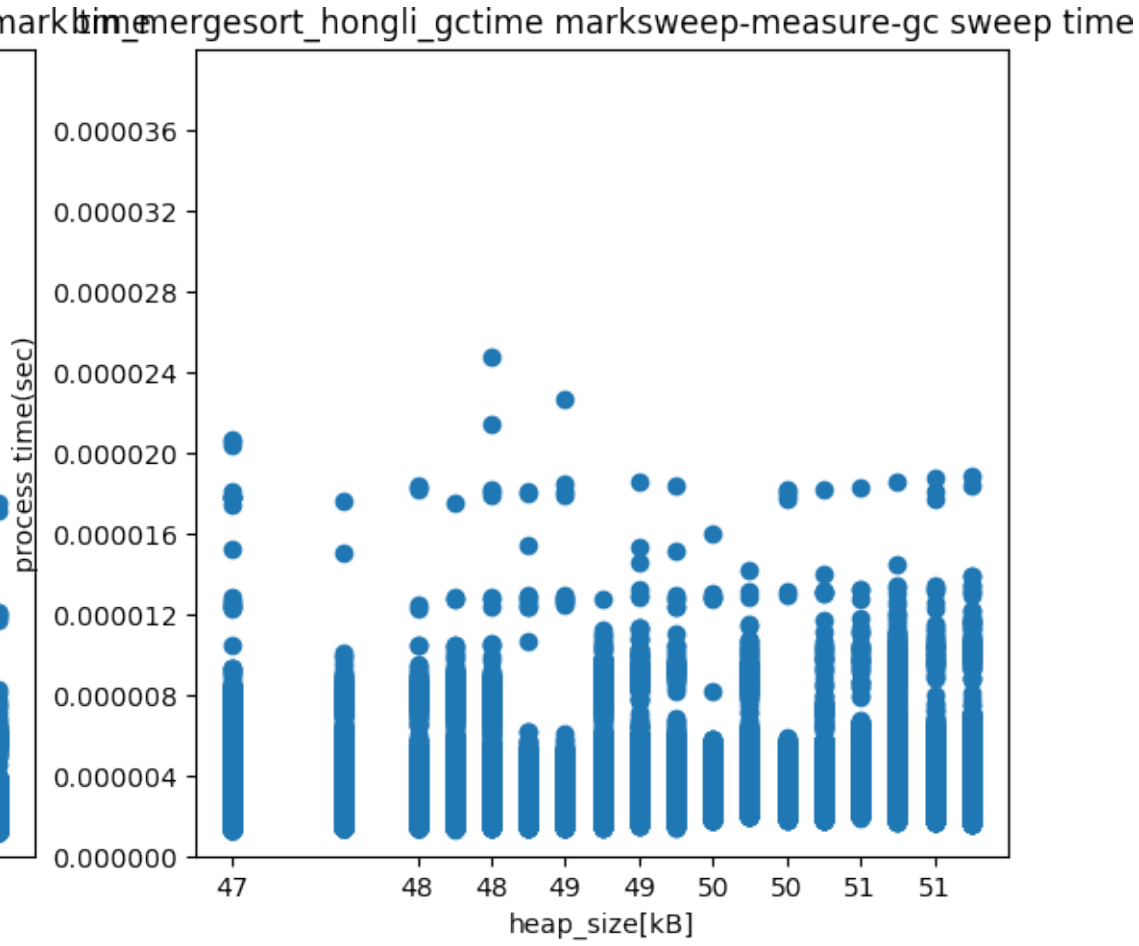

refcount total time
refcount
process time(sec)
heap_size[kB]


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
47
48
48
49
49
50
50
51
51
heap_size[kB]

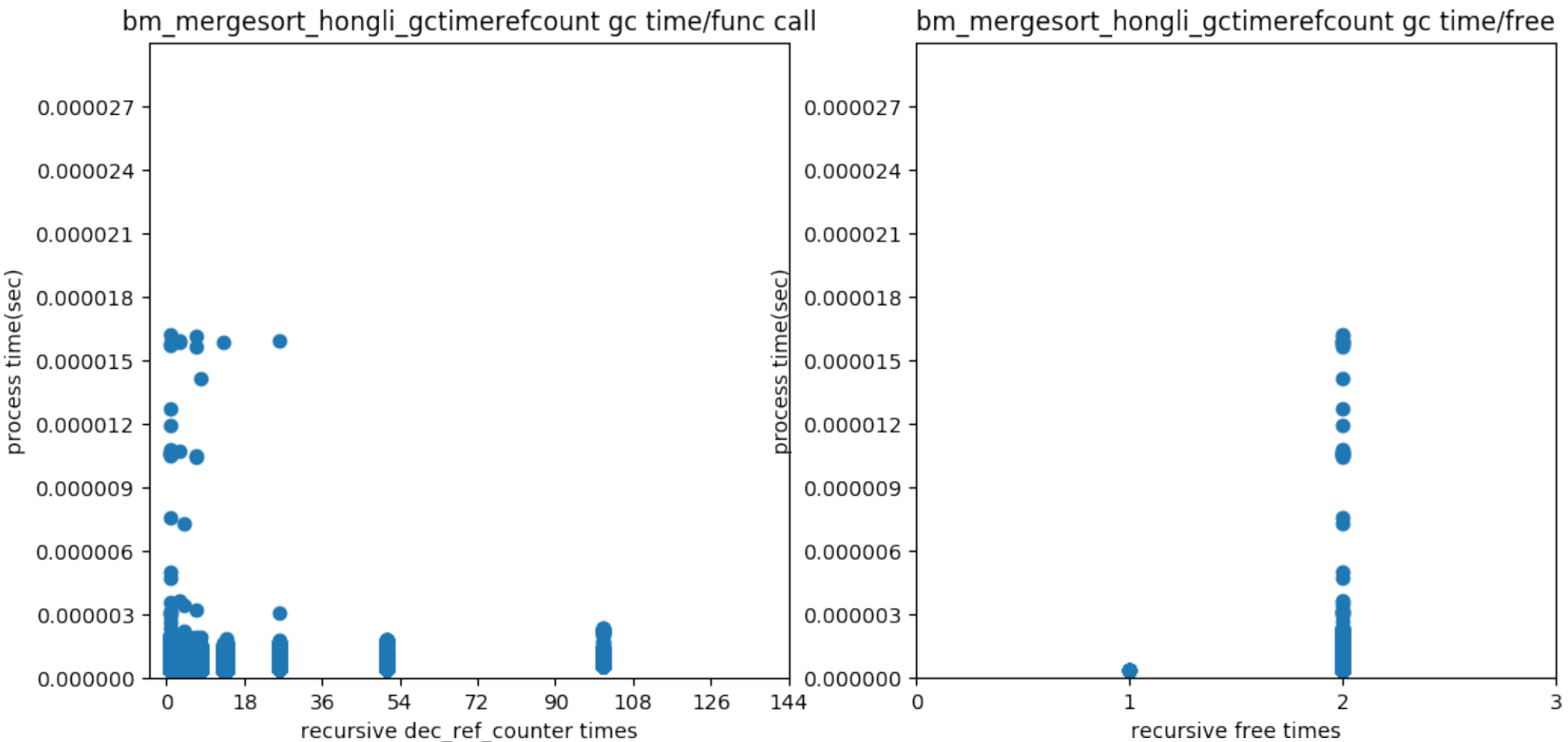

bm_mergesort_hongli_gctime bitmap-marking-gc sweep time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
47
48
48
49
49
50
50
51
51
heap_size[kB]

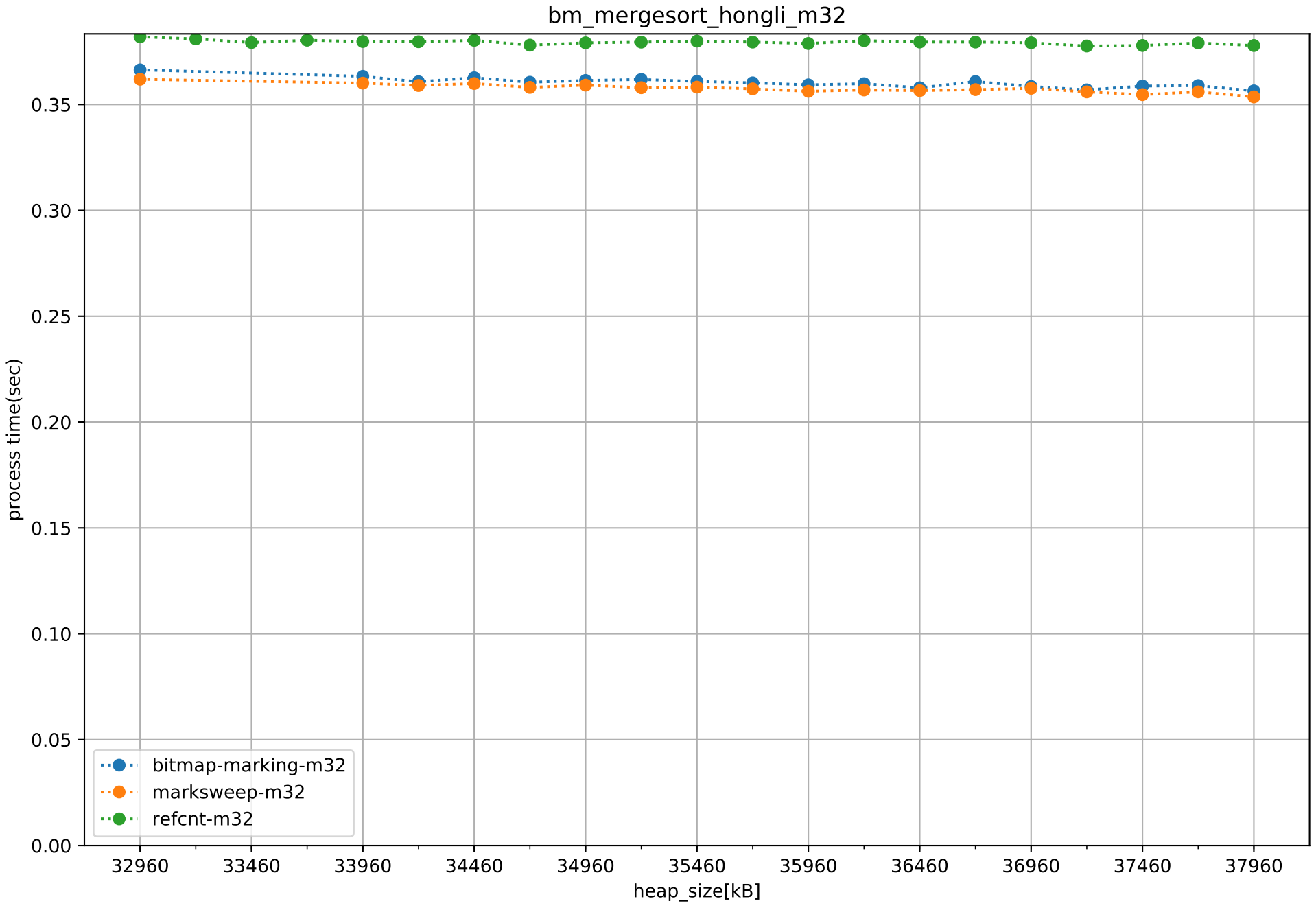
bm_mergesort_hongli_gctime bitmap-marking-gc gc time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
47
48
48
49
49
50
50
51
51
heap_size[kB]

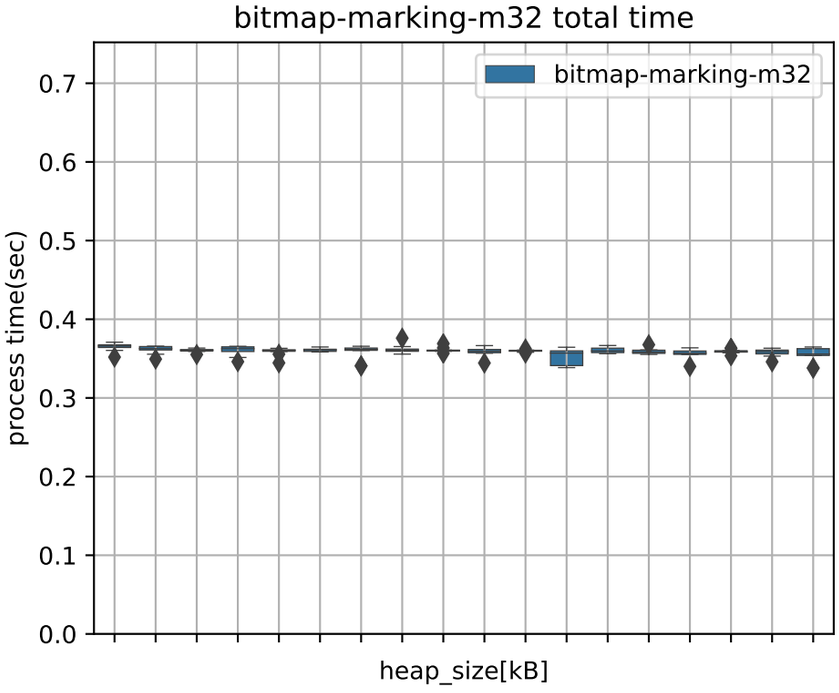

bm_mergesort_hongli_gctime marksweep-measure-gc mark time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
47
48
48
49
49
50
50
51
51
heap_size[kB]

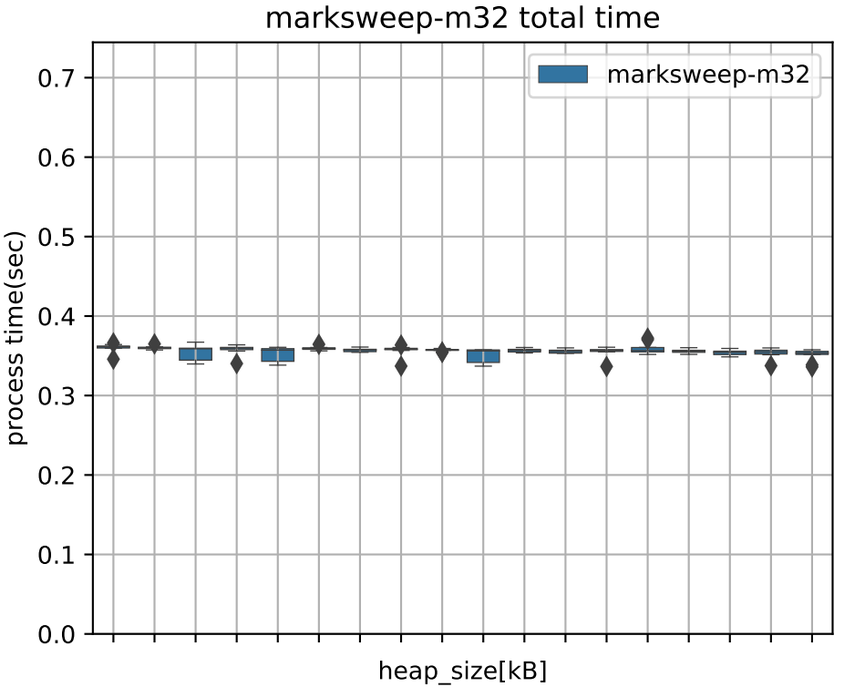

bm_mergesort_hongli_gctime marksweep-measure-gc sweep time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
47
48
48
49
49
50
50
51
51
heap_size[kB]

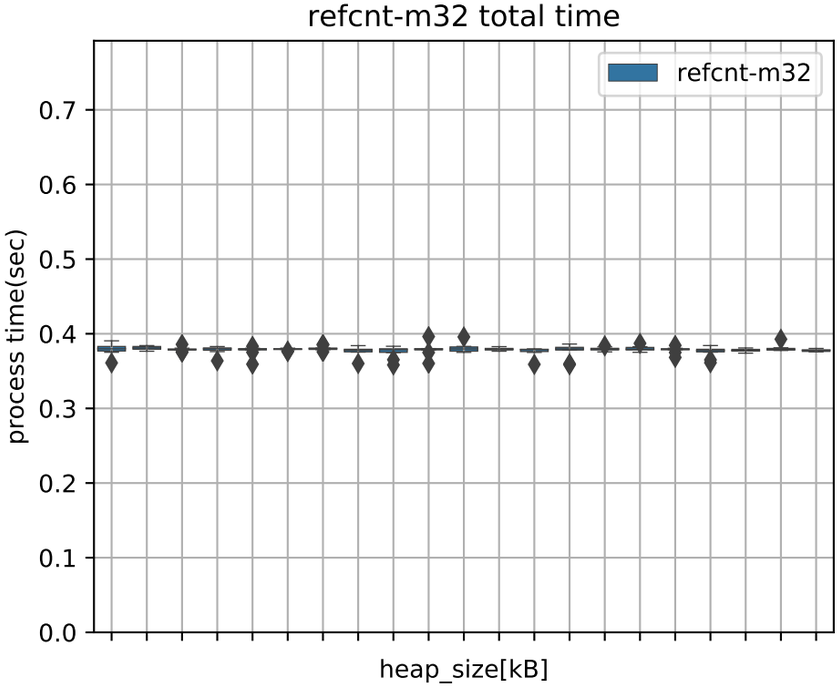
bm_mergesort_hongli_gctime marksweep-measure-gc gc time
process time(sec)
0.000045
0.000040
0.000035
0.000030
0.000025
0.000020
0.000015
0.000010
0.000005
0.000000
47
48
48
49
49
50
50
51
51
heap_size[kB]

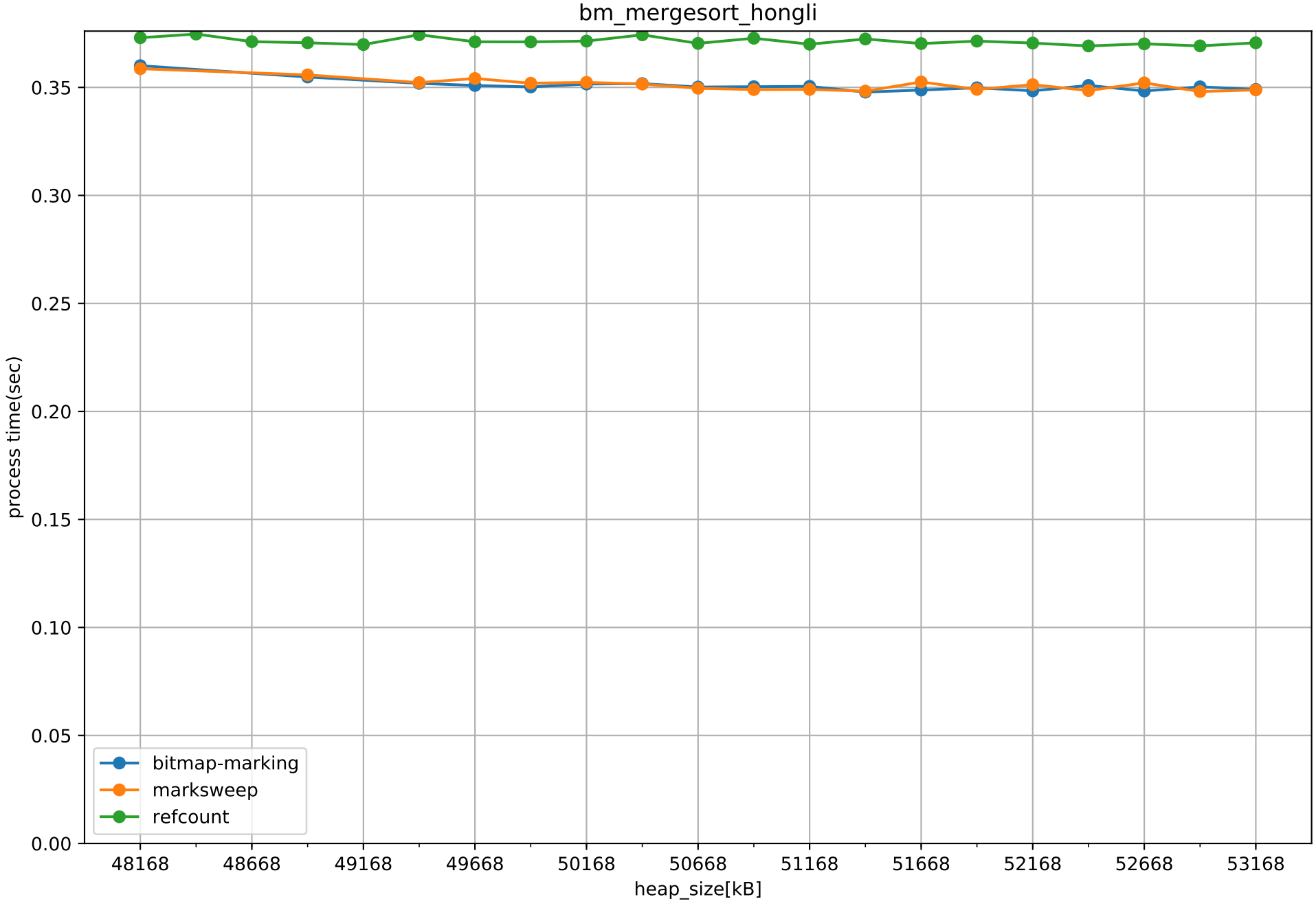

bm_mergesort_hongli_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
18
36
54
72
90
108
126
144
recursive dec_ref_counter times
bm_mergesort_hongli_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
1
2
3
recursive free times

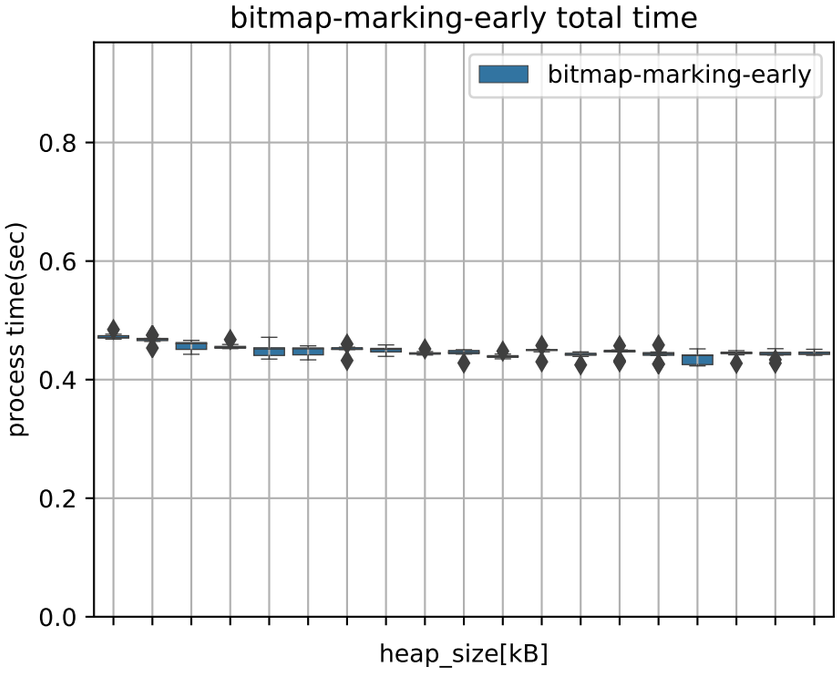

bm_mergesort_hongli_m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
32960
33460
33960
34460
34960
35460
35960
36460
36960
37460
37960
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

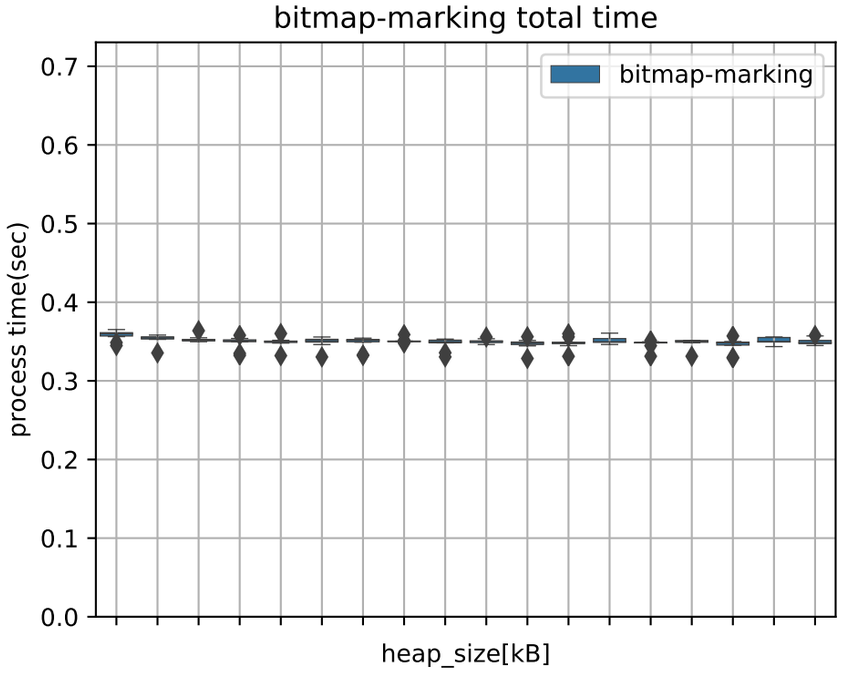

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
heap_size[kB]

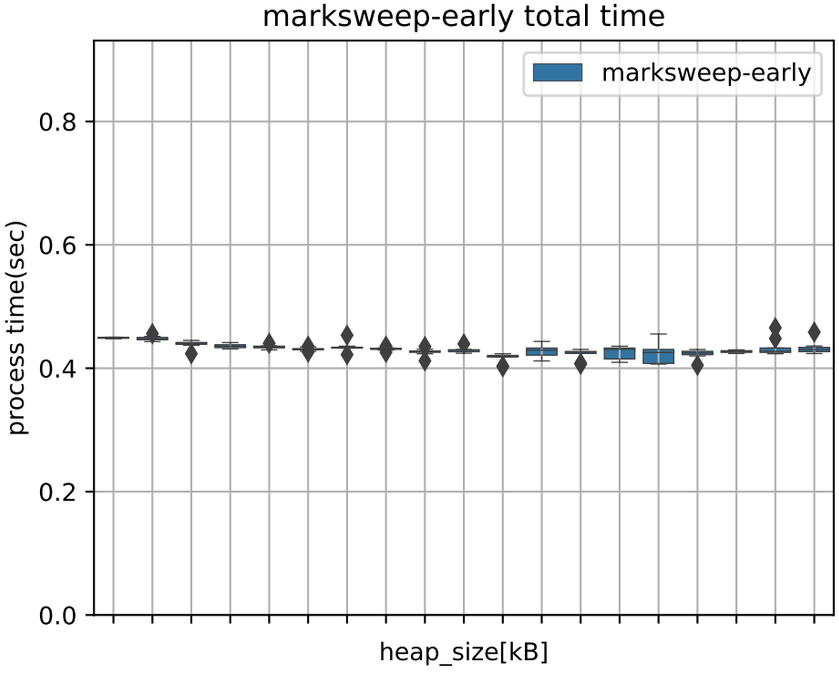

marksweep-m32 total time
marksweep-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
heap_size[kB]

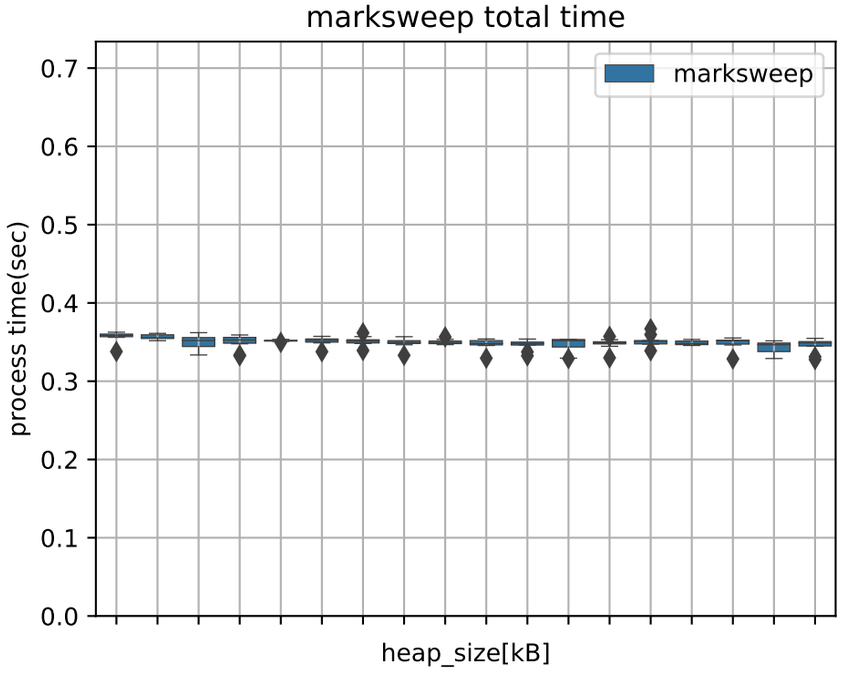

refcnt-m32 total time
refcnt-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
heap_size[kB]

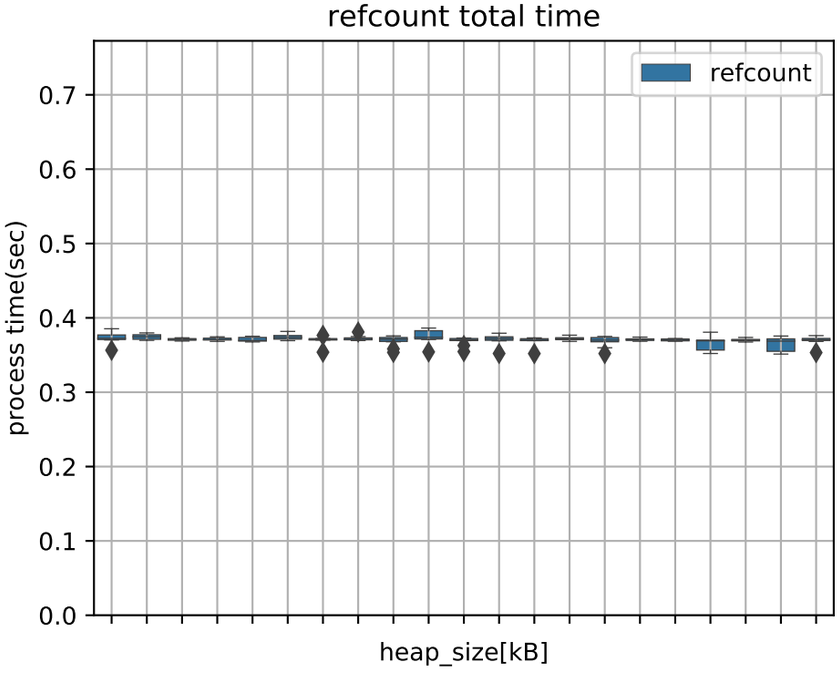

bm_mergesort_hongli
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
48168
48668
49168
49668
50168
50668
51168
51668
52168
52668
53168
heap_size[kB]
bitmap-marking
marksweep
refcount

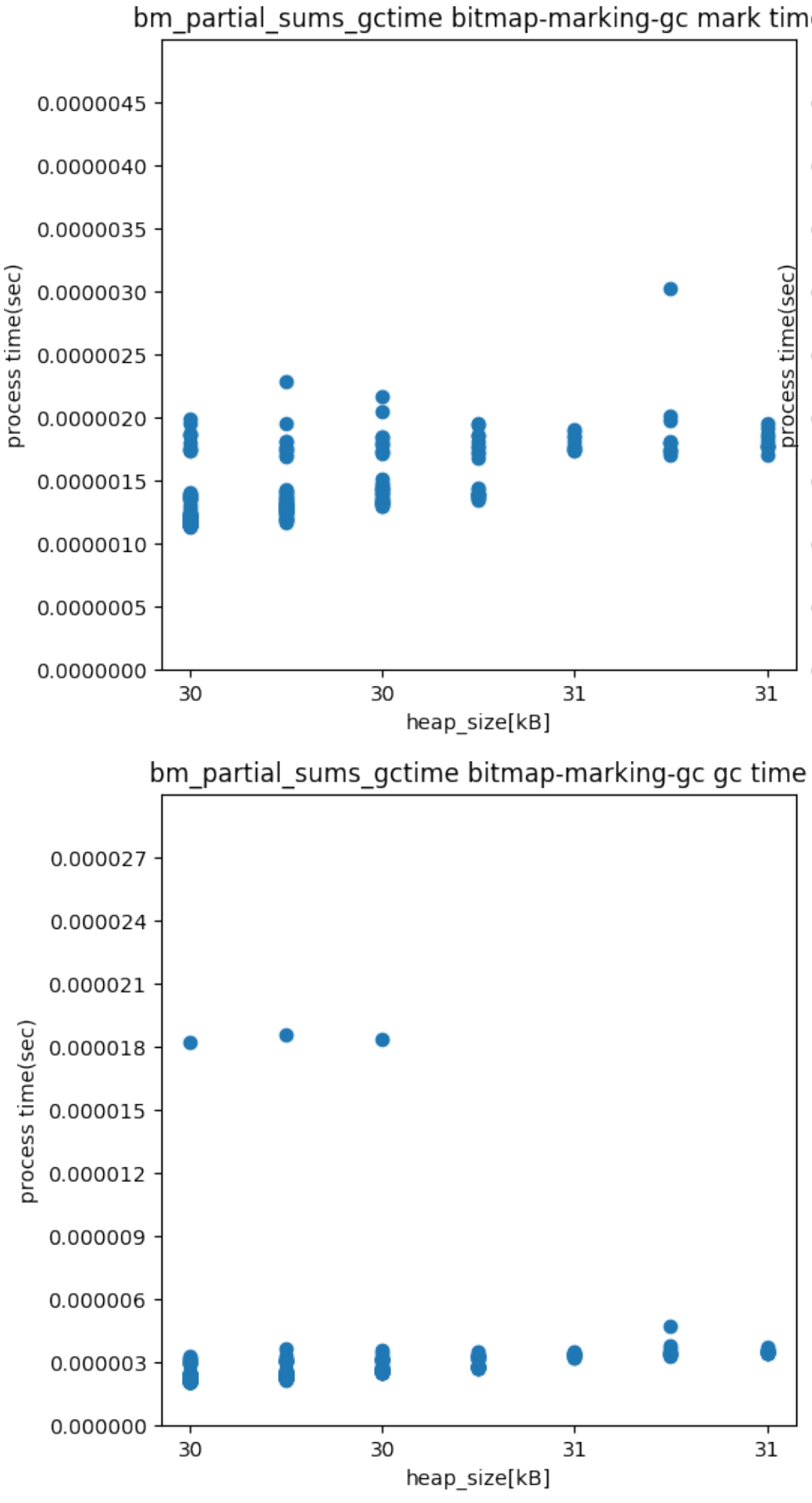

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

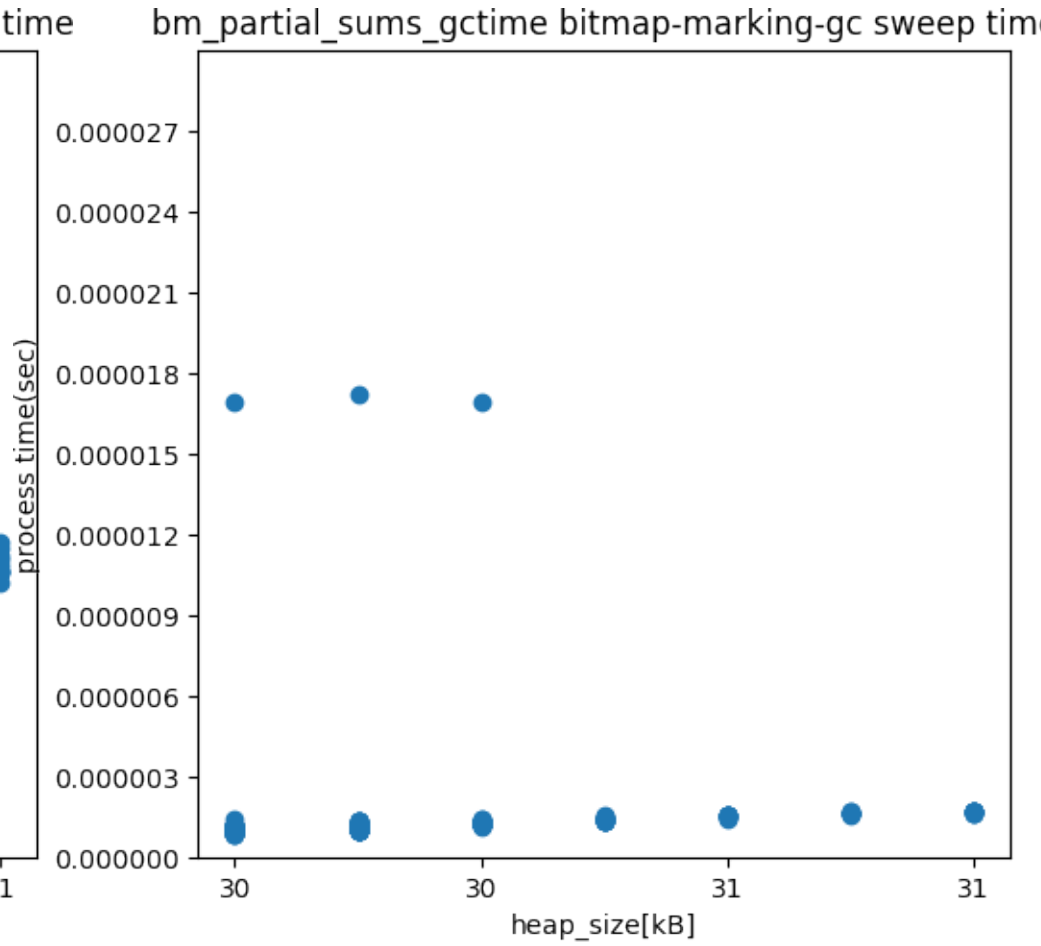

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

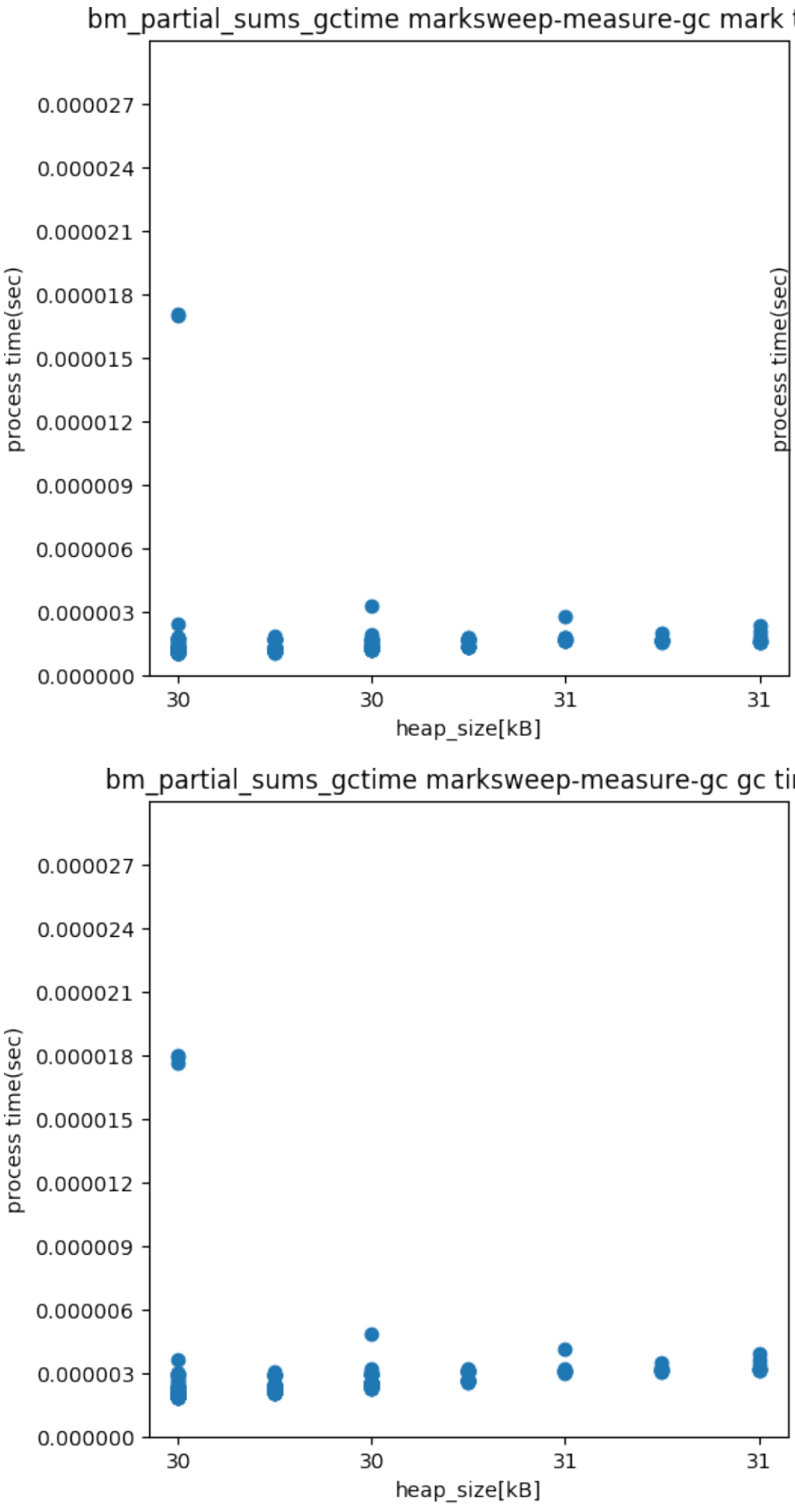

marksweep total time
marksweep
process time(sec)
heap_size[kB]

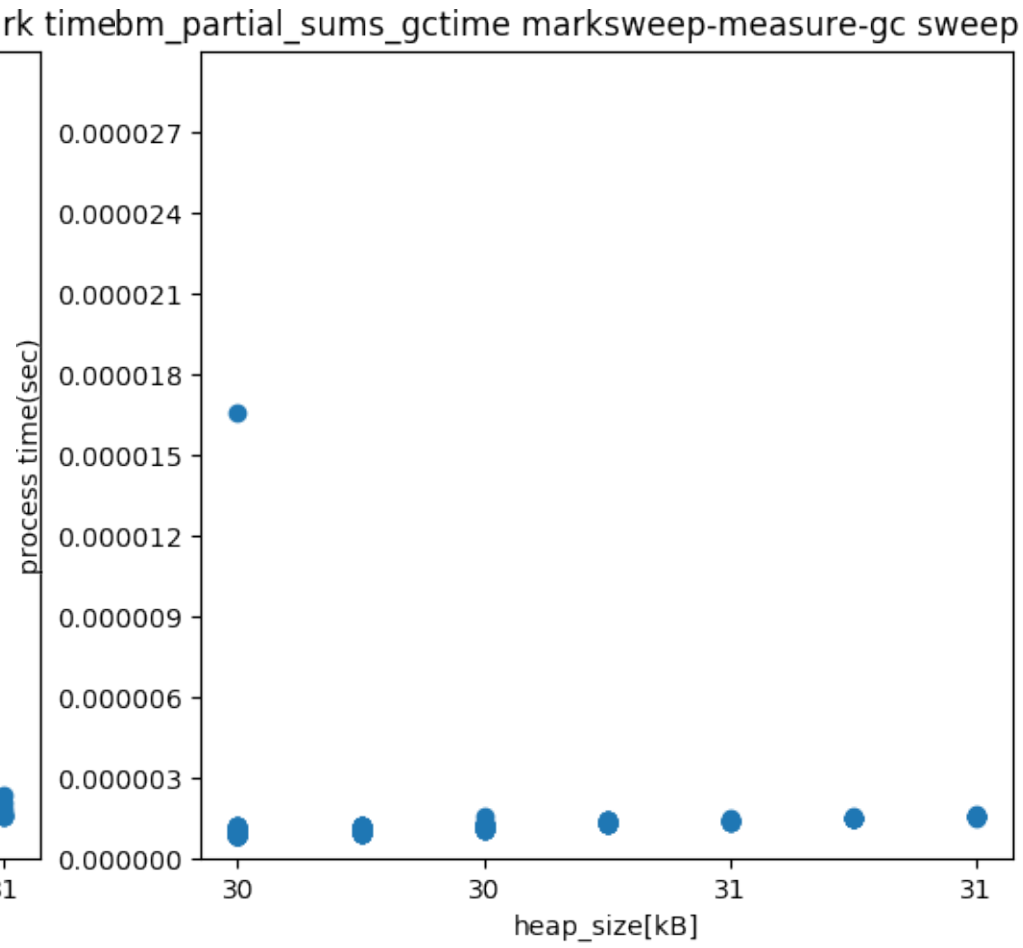

refcount total time
refcount
process time(sec)
heap_size[kB]


bm_partial_sums_gctime bitmap-marking-gc mark time
process time(sec)
0.0000045
0.0000040
0.0000035
0.0000030
0.0000025
0.0000020
0.0000015
0.0000010
0.0000005
0.0000000
30
30
31
31
heap_size[kB]

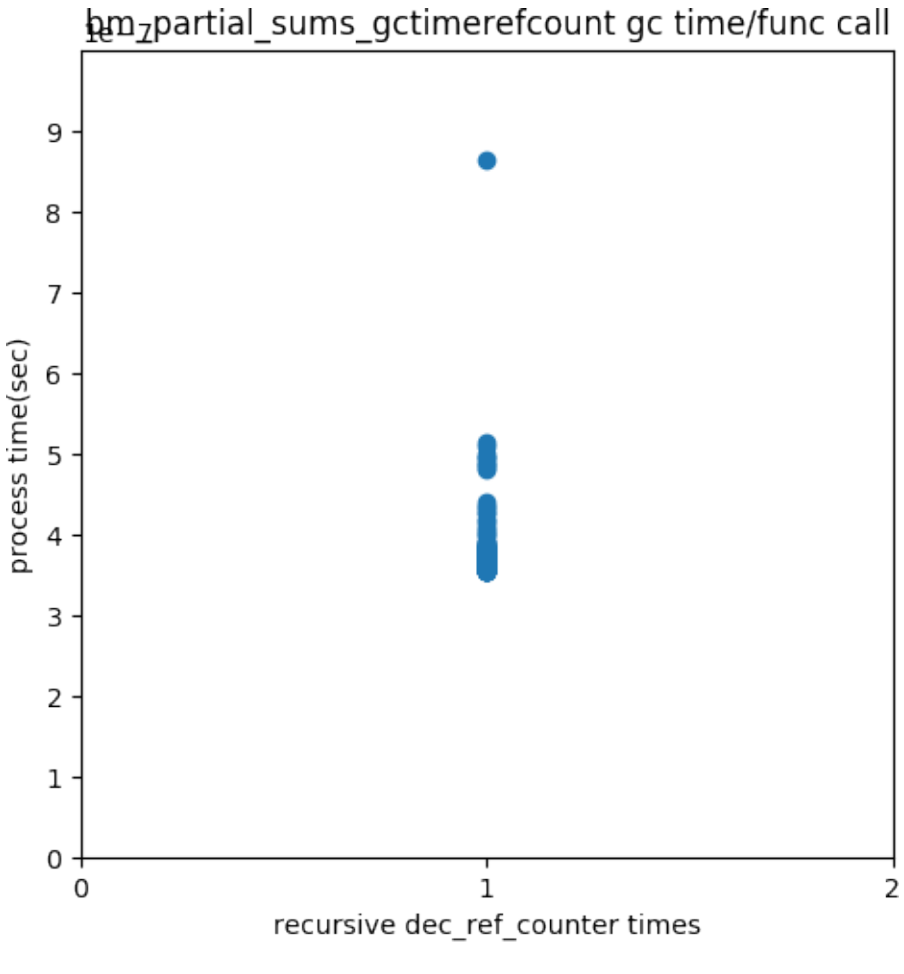

bm_partial_sums_gctime bitmap-marking-gc sweep time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
30
30
31
31
heap_size[kB]

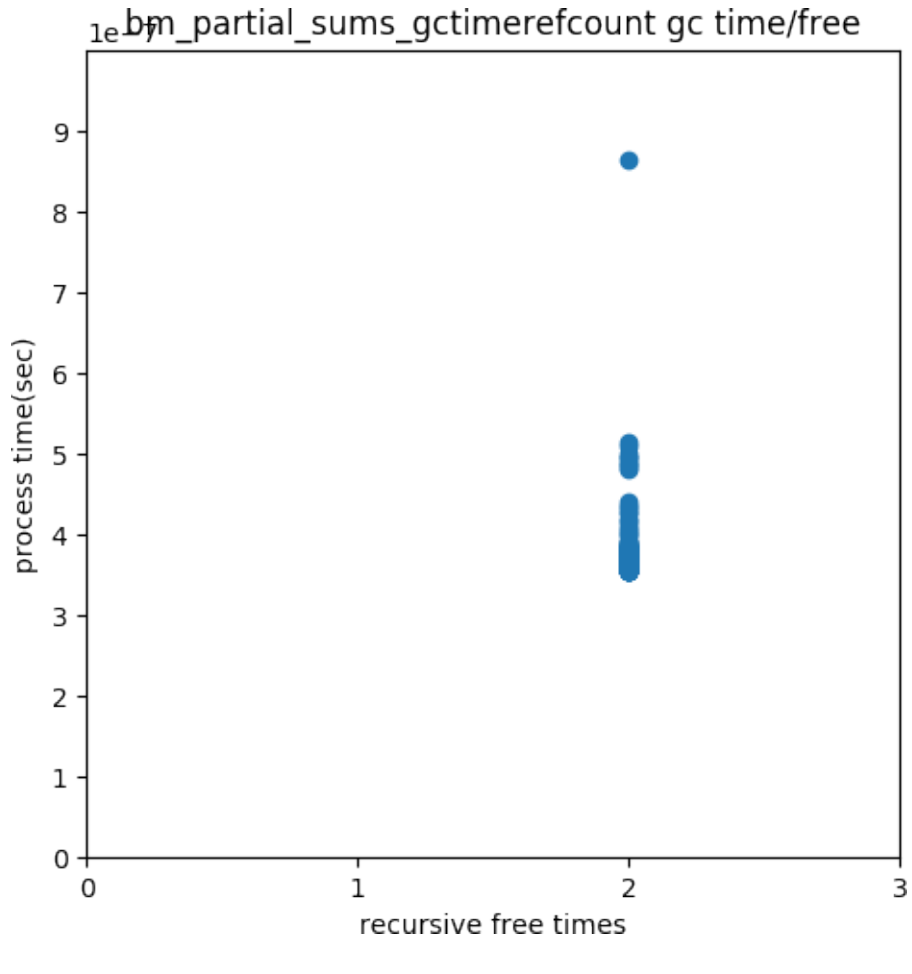
bm_partial_sums_gctime bitmap-marking-gc gc time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
30
30
31
31
heap_size[kB]

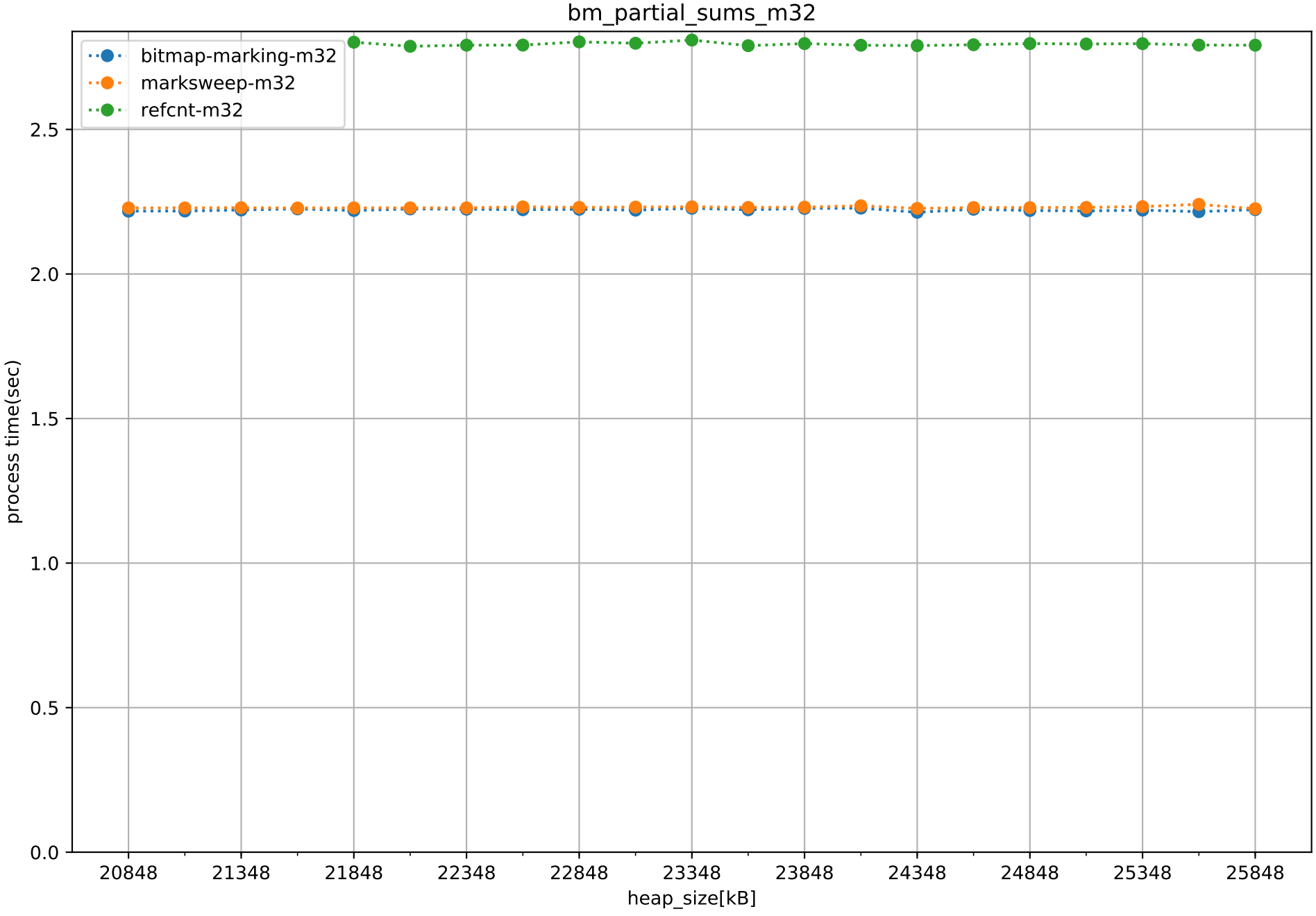

bm_partial_sums_gctime marksweep-measure-gc mark time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
30
30
31
31
heap_size[kB]

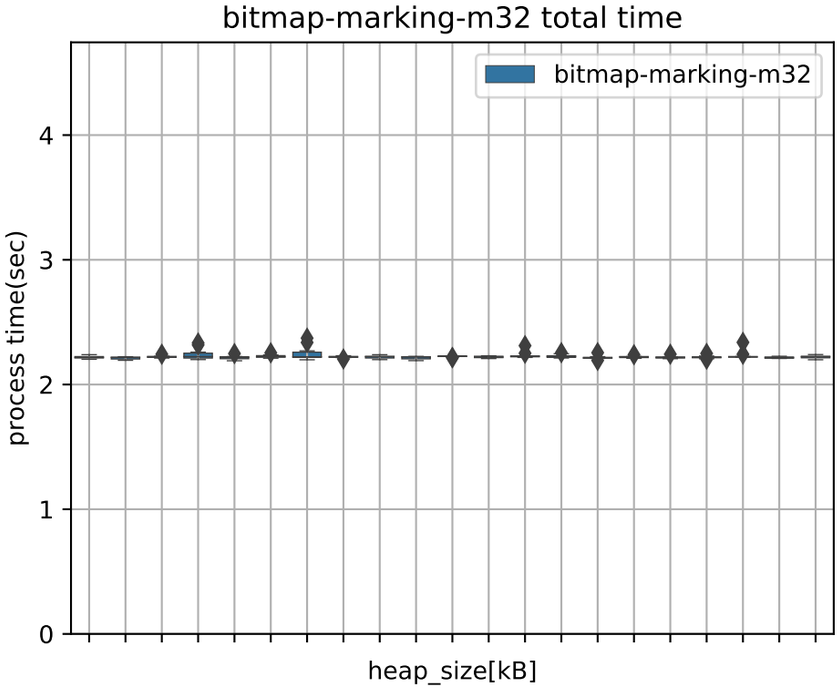

bm_partial_sums_gctime marksweep-measure-gc sweep time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
30
30
31
31
heap_size[kB]

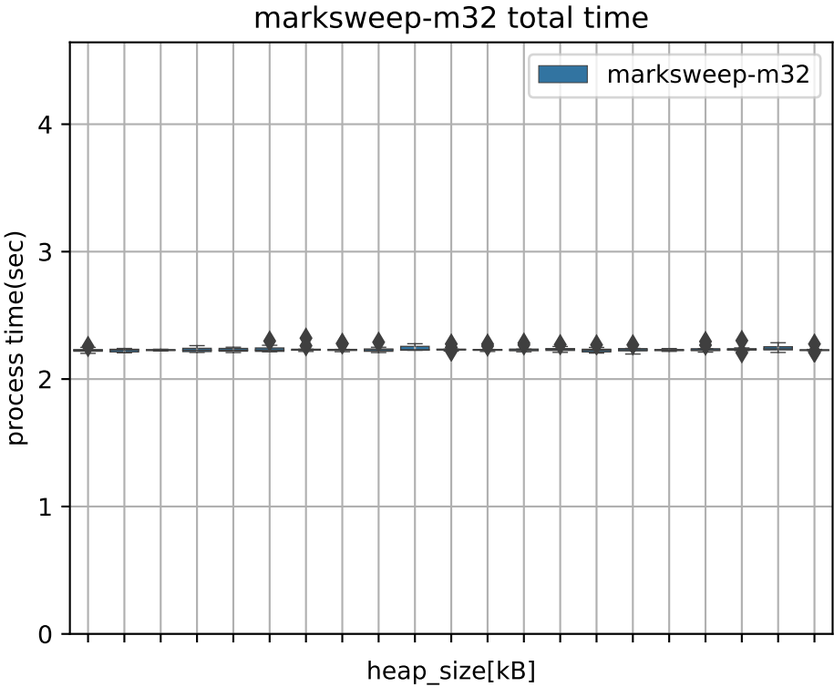
bm_partial_sums_gctime marksweep-measure-gc gc time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
30
30
31
31
heap_size[kB]

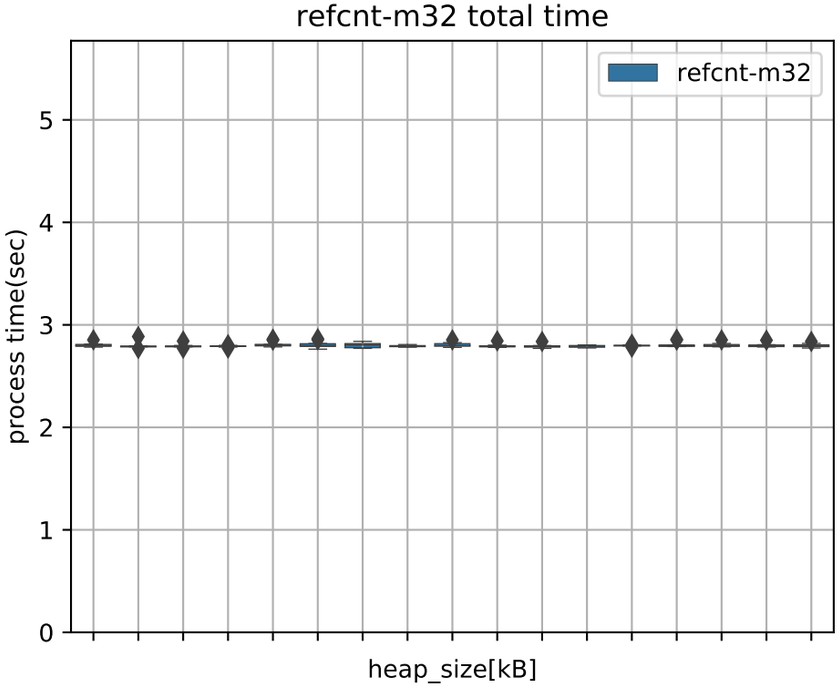

bm_partial_sums_gctimerefcount gc time/func call
1e−7
process time(sec)
recursive dec_ref_counter times

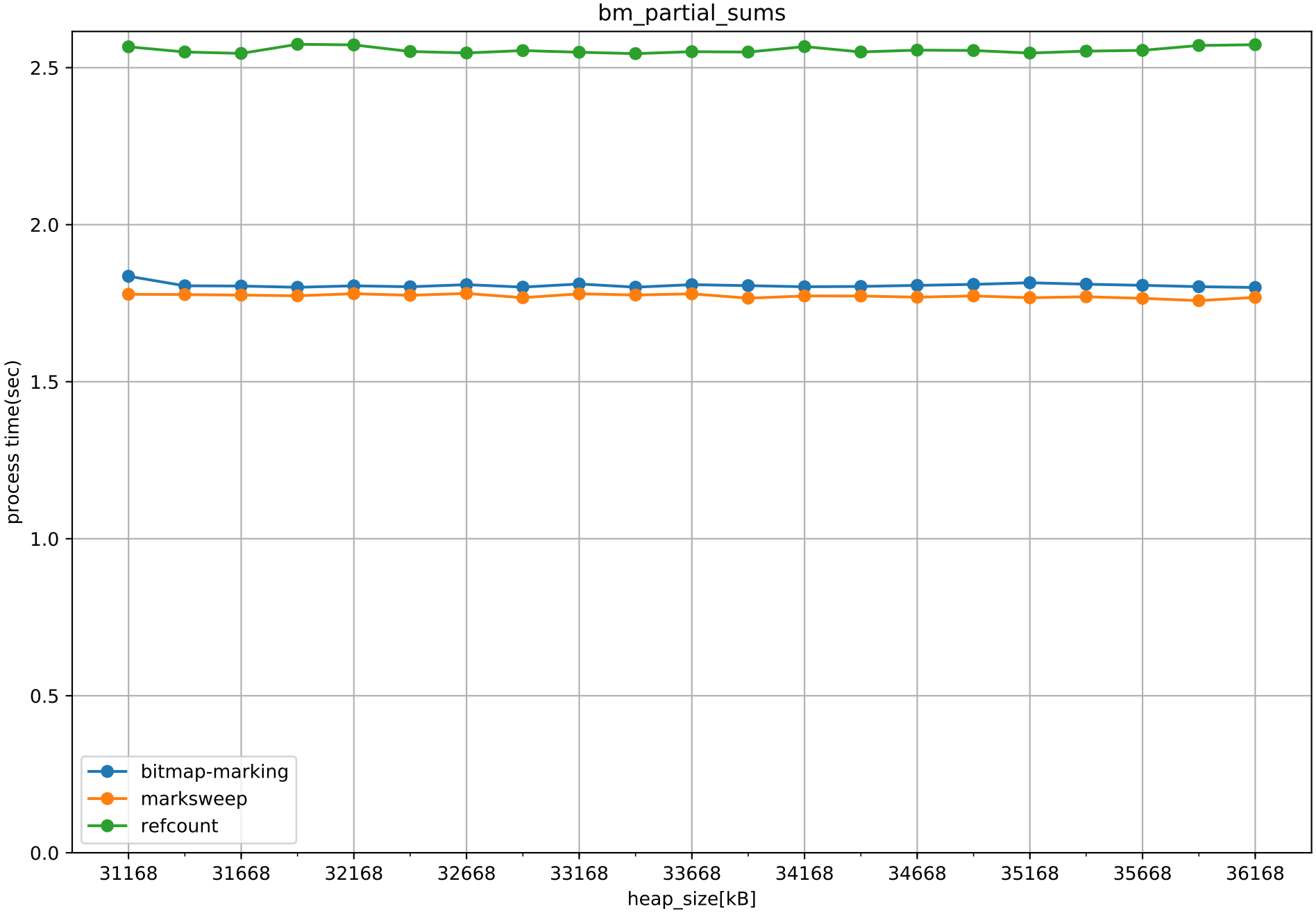

bm_partial_sums_gctimerefcount gc time/free
1e−7
process time(sec)
recursive free times

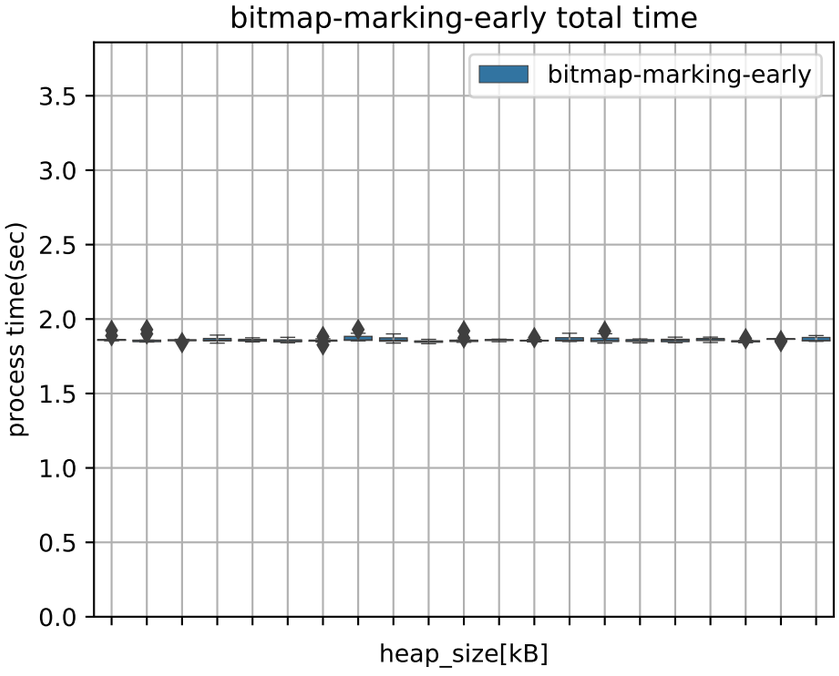

bm_partial_sums_m32
bitmap-marking-m32
marksweep-m32
refcnt-m32
process time(sec)
0.0
0.5
1.0
1.5
2.0
2.5
20848
21348
21848
22348
22848
23348
23848
24348
24848
25348
25848
heap_size[kB]

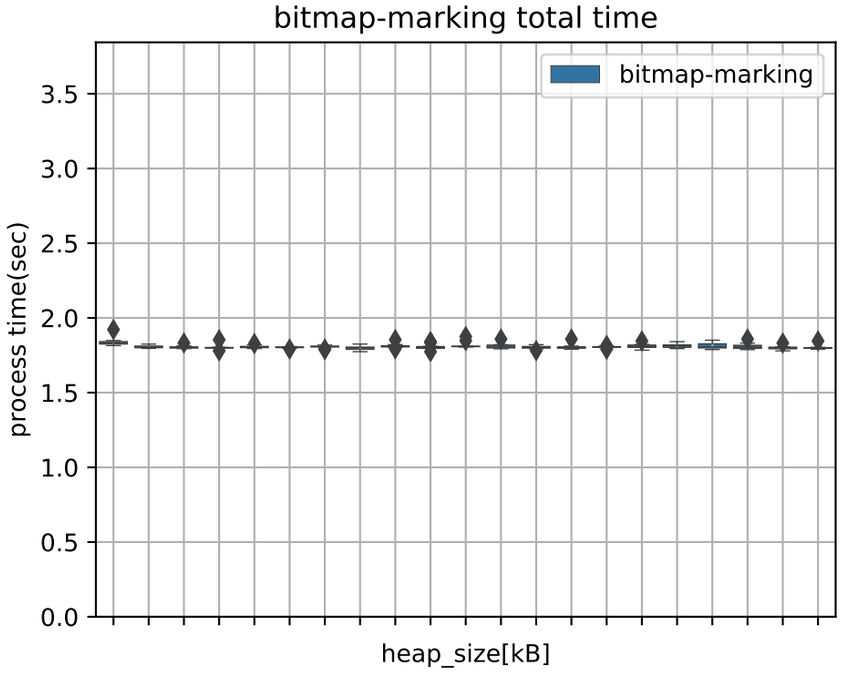

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0
1
2
3
4

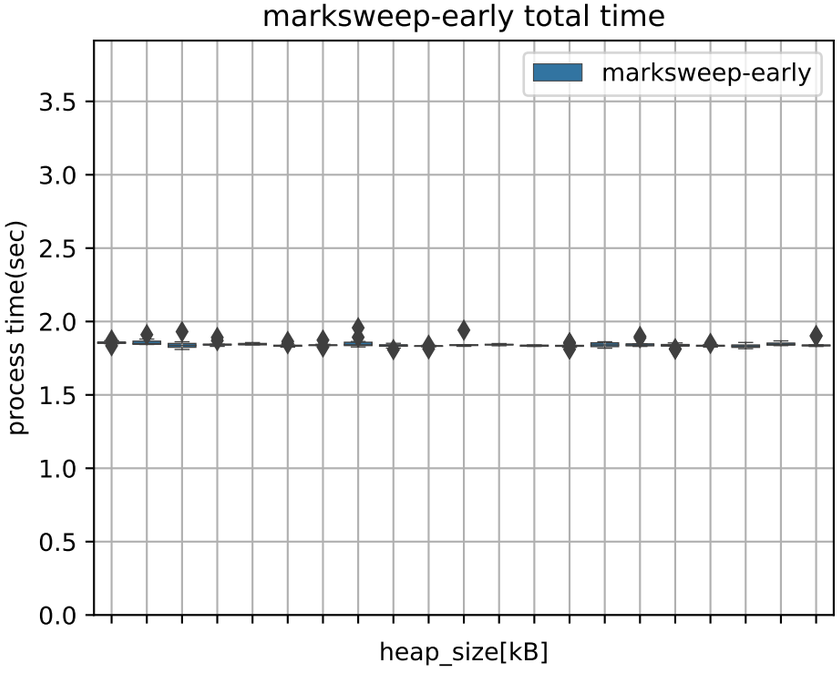

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0
1
2
3
4

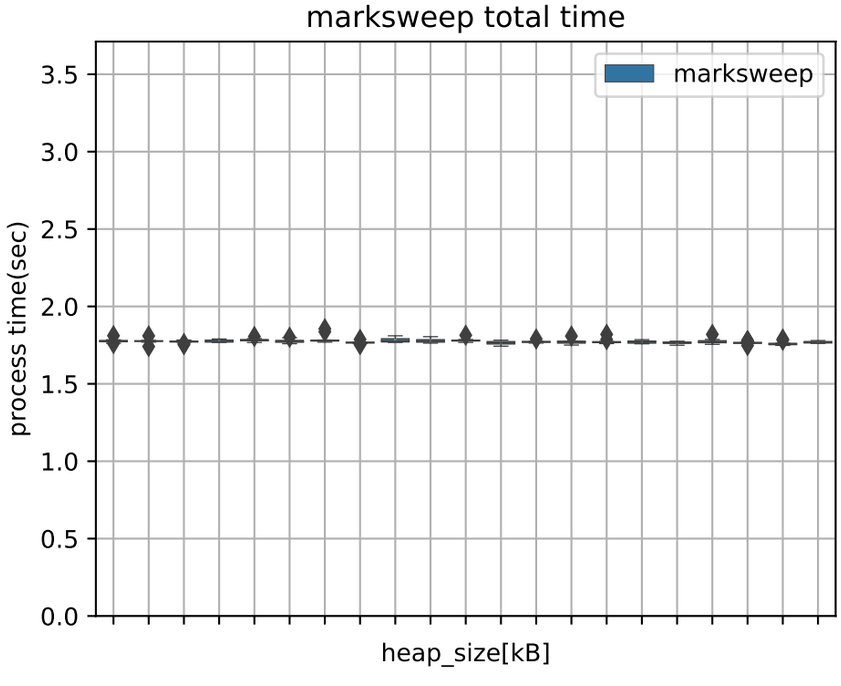

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0
1
2
3
4
5

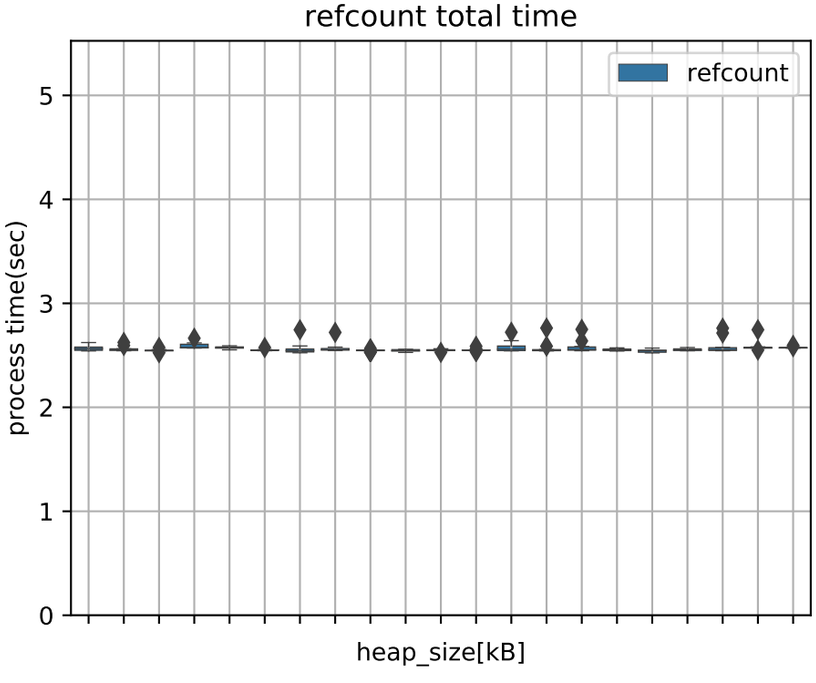

bm_partial_sums
process time(sec)
0.0
0.5
1.0
1.5
2.0
2.5
31168
31668
32168
32668
33168
33668
34168
34668
35168
35668
36168
heap_size[kB]
bitmap-marking
marksweep
refcount

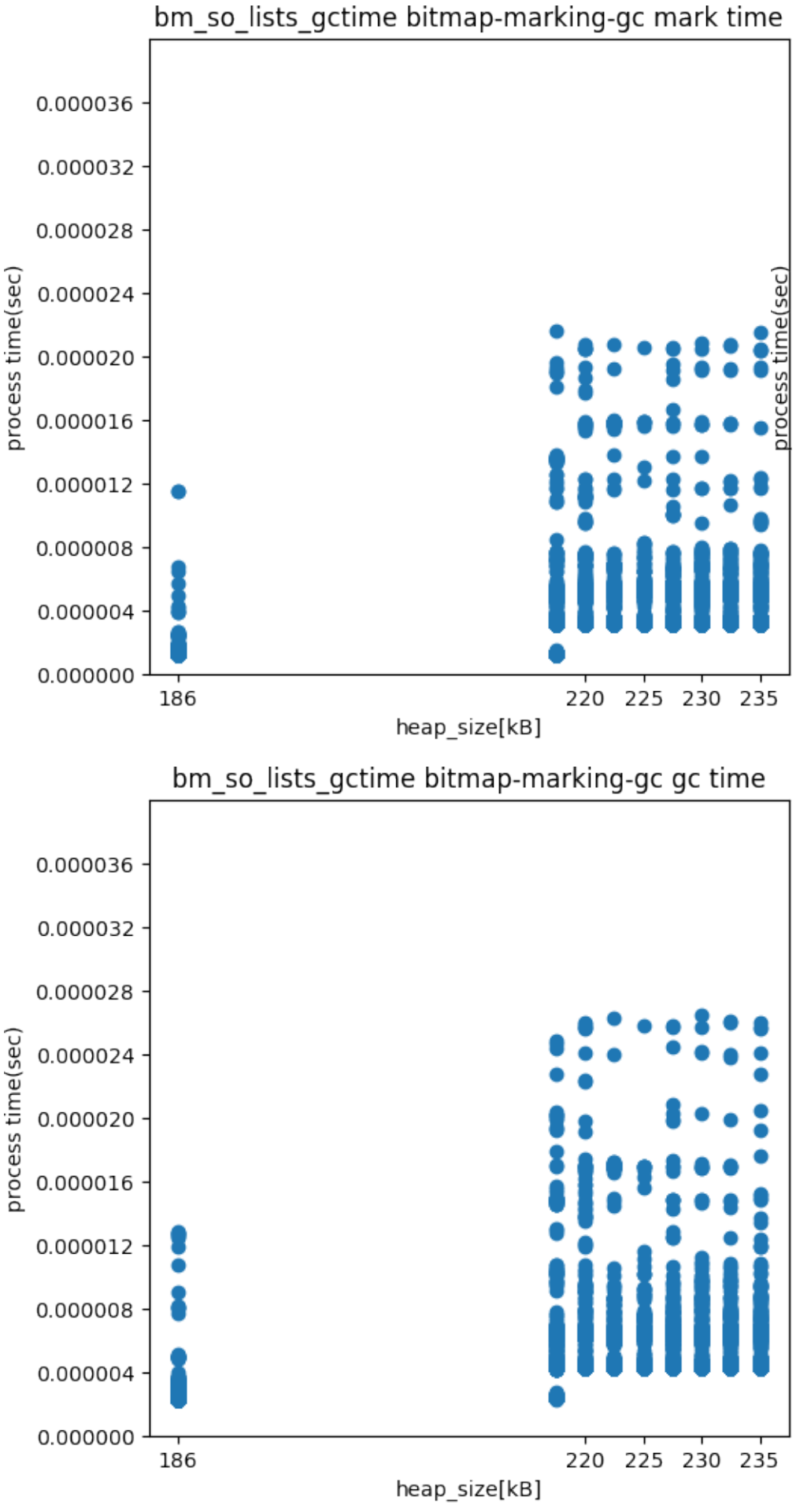

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

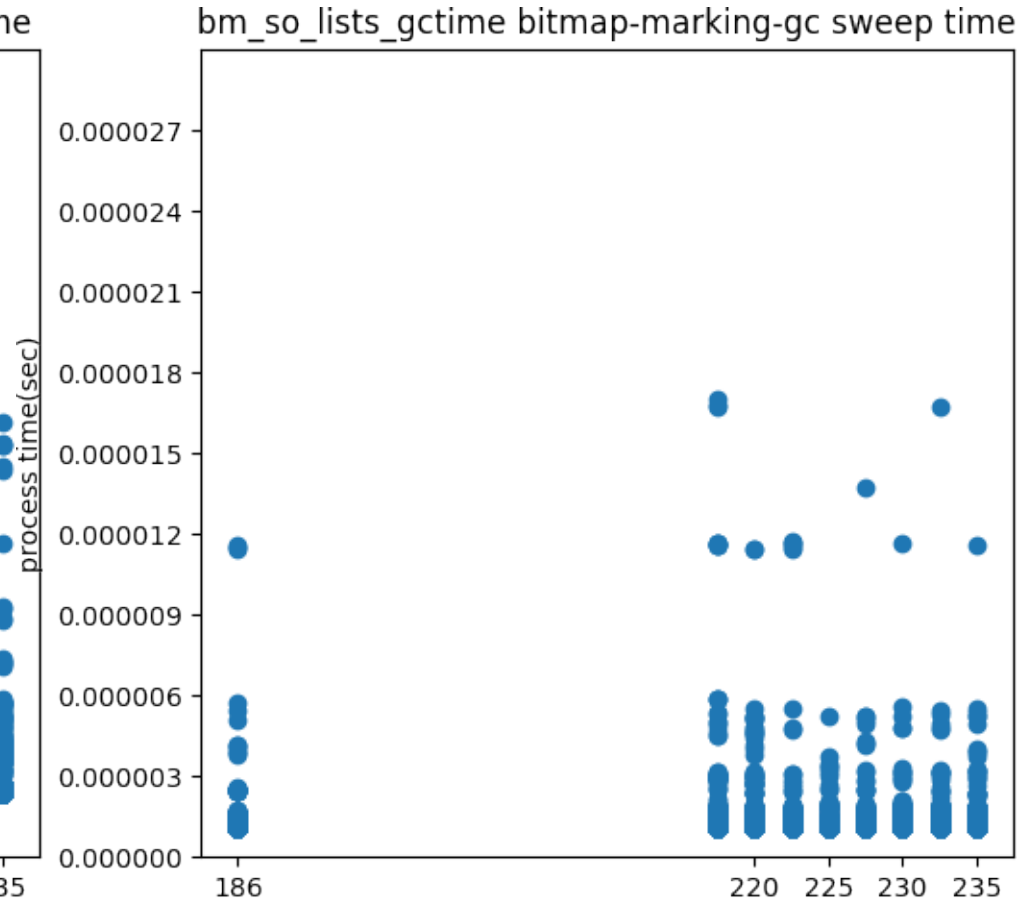

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

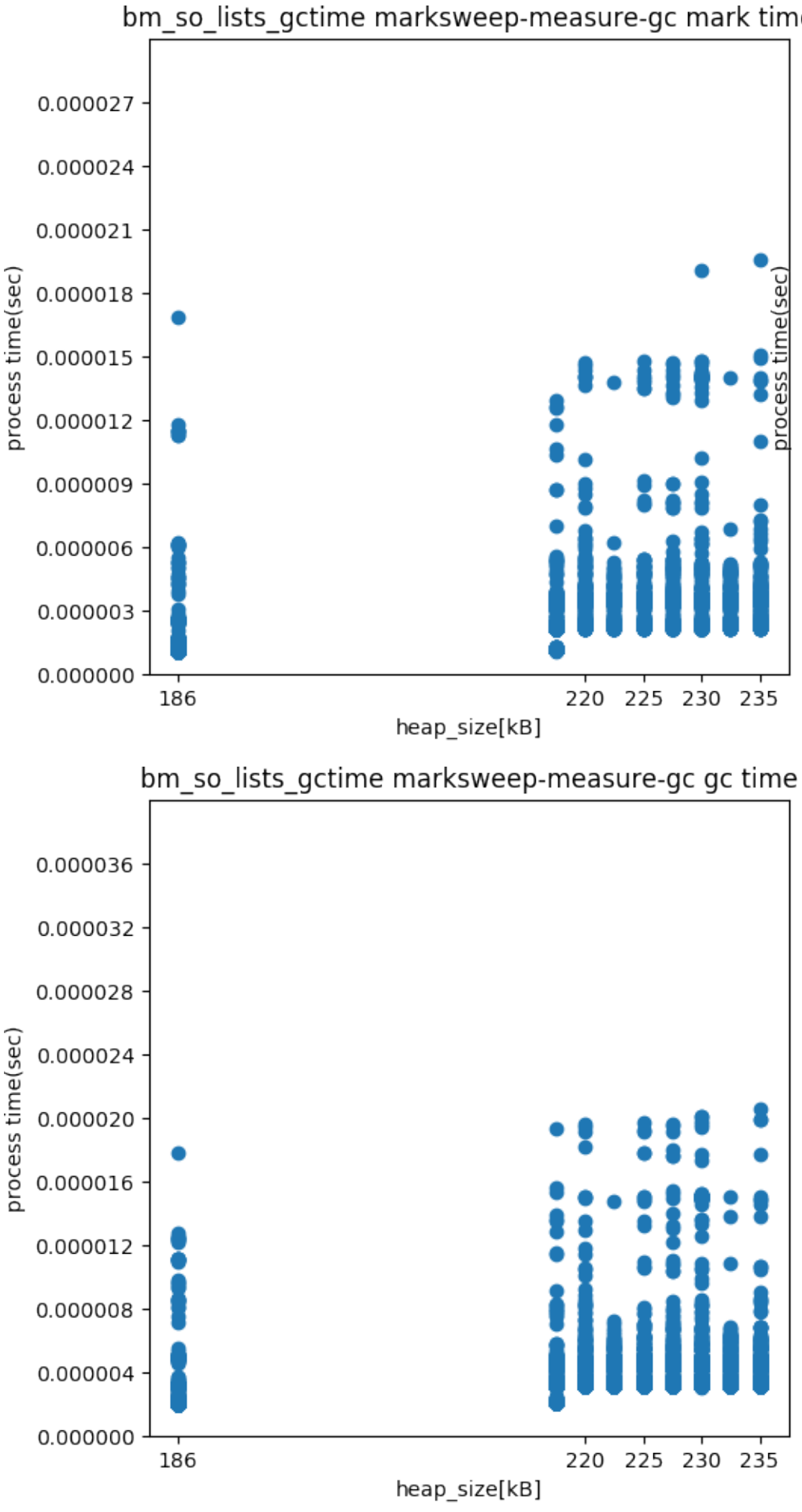

marksweep total time
marksweep
process time(sec)
heap_size[kB]

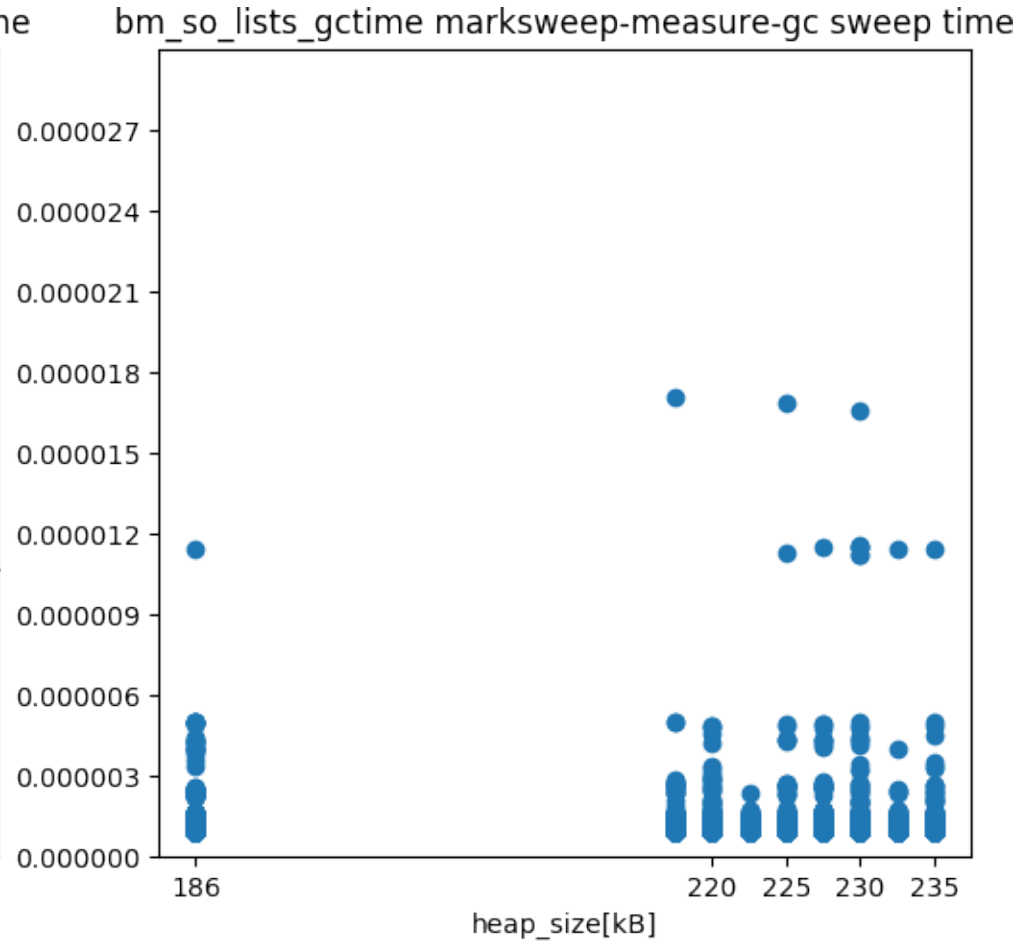

refcount total time
refcount
process time(sec)
heap_size[kB]


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
186
220
225
230
235
heap_size[kB]

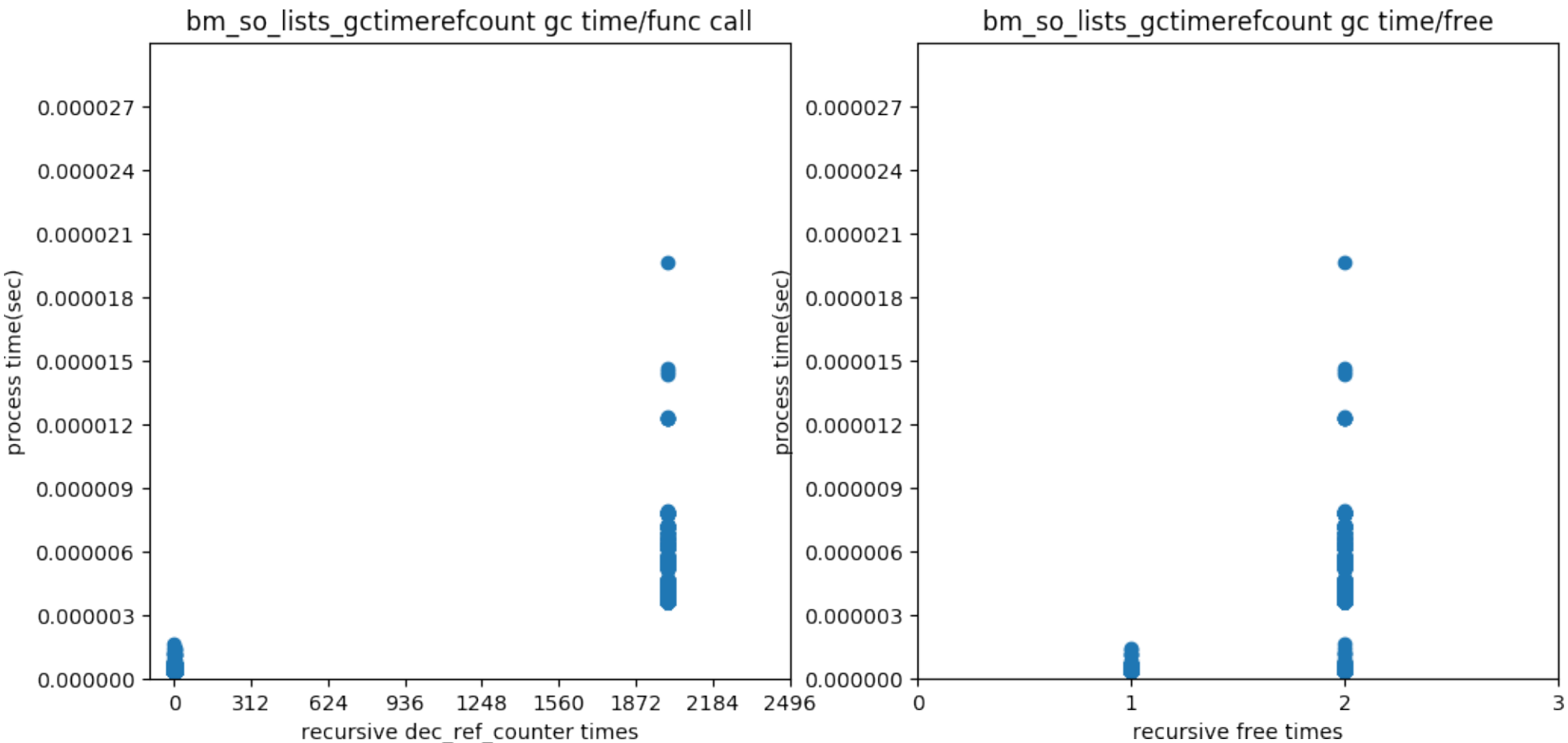

bm_so_lists_gctime bitmap-marking-gc sweep time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
186
220
225
230
235
heap_size[kB]

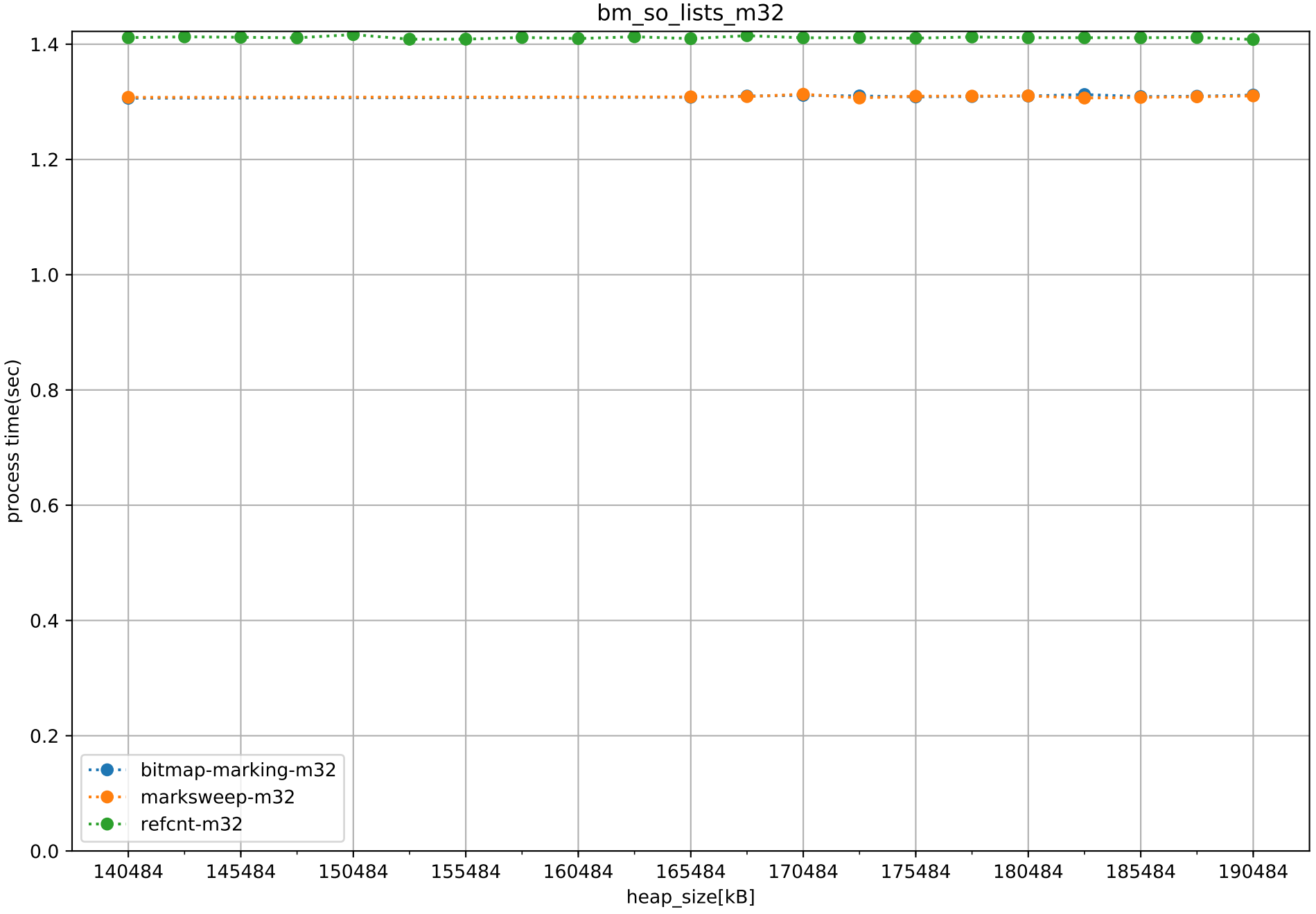
bm_so_lists_gctime bitmap-marking-gc gc time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
186
220
225
230
235
heap_size[kB]

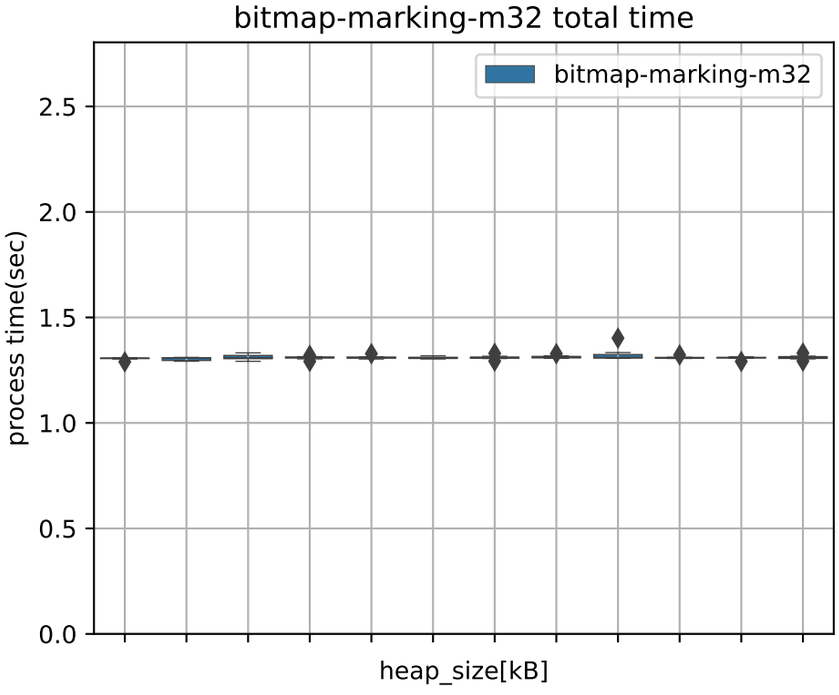

bm_so_lists_gctime marksweep-measure-gc mark time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
186
220
225
230
235
heap_size[kB]

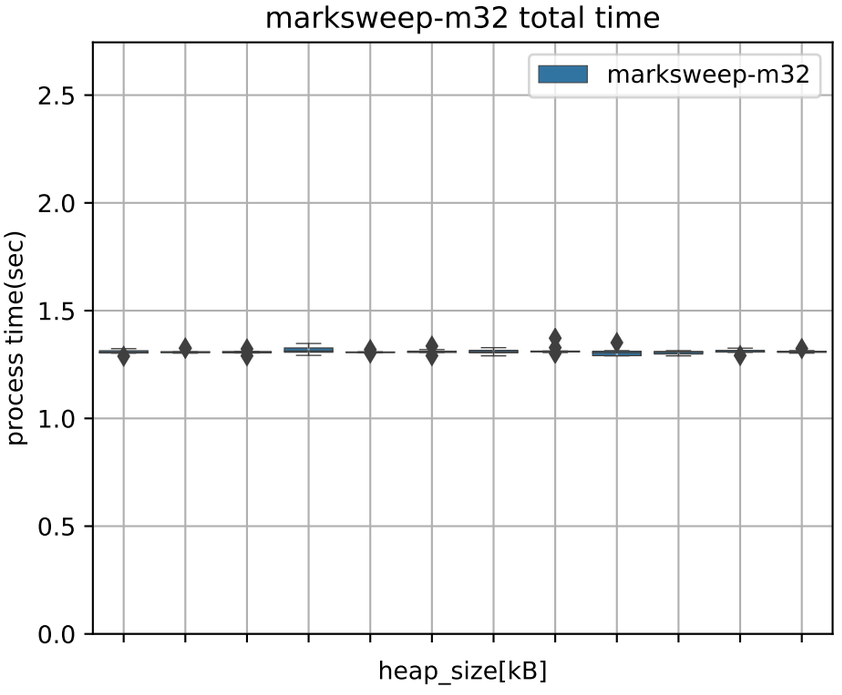

bm_so_lists_gctime marksweep-measure-gc sweep time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
186
220
225
230
235
heap_size[kB]

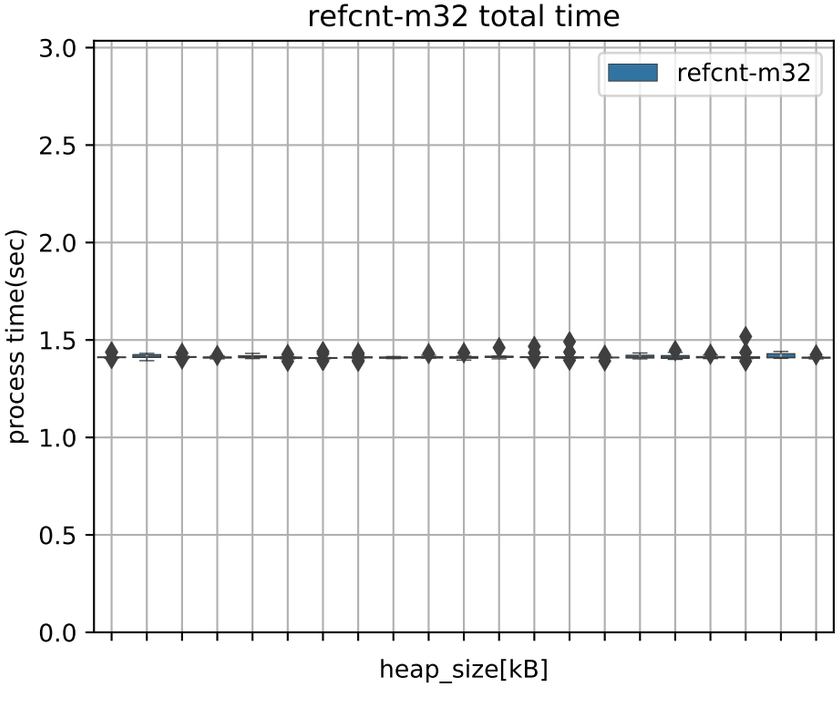
bm_so_lists_gctime marksweep-measure-gc gc time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
186
220
225
230
235
heap_size[kB]

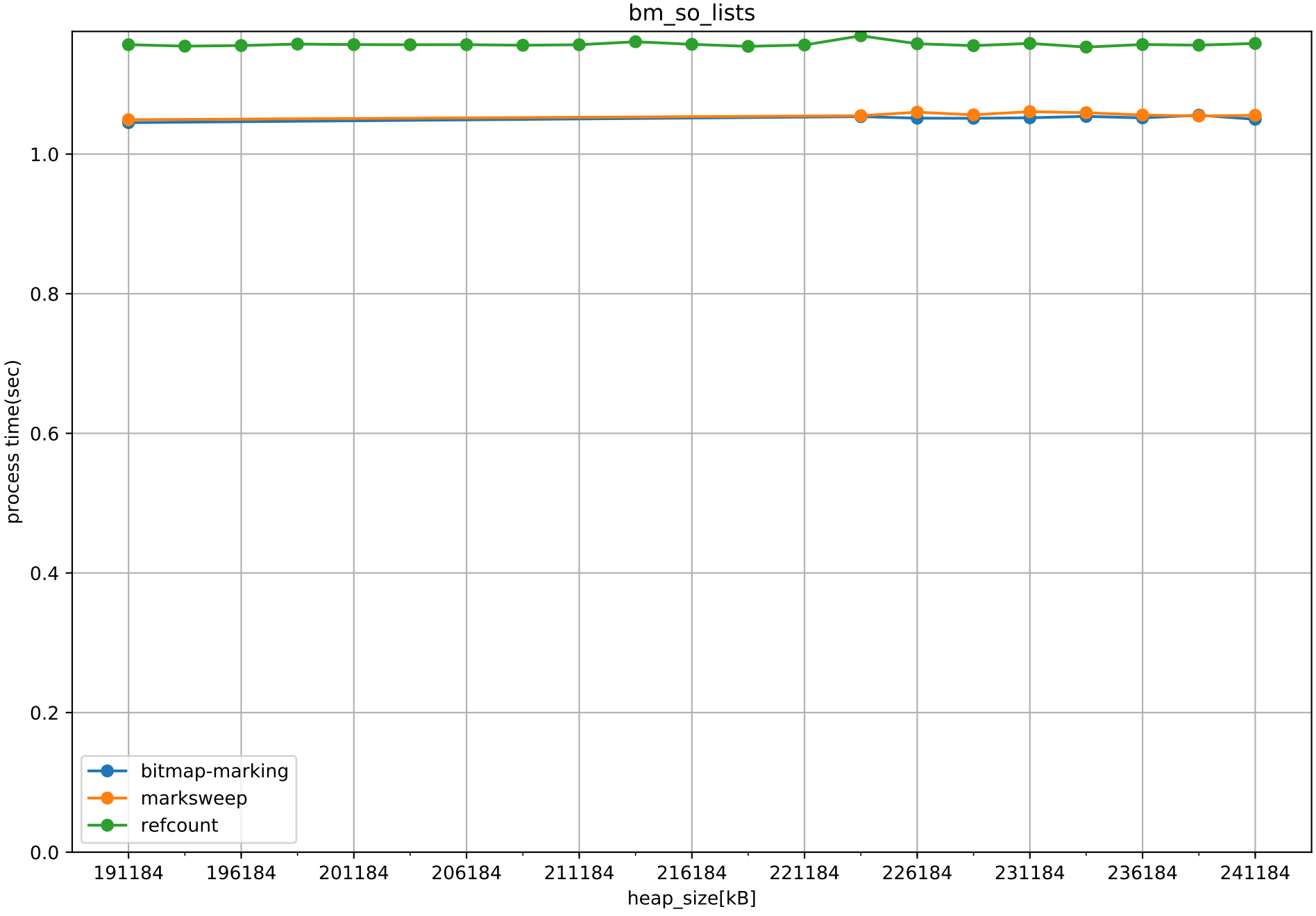

bm_so_lists_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
312
624
936
1248
1560
1872
2184
2496
recursive dec_ref_counter times
bm_so_lists_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
1
2
3
recursive free times

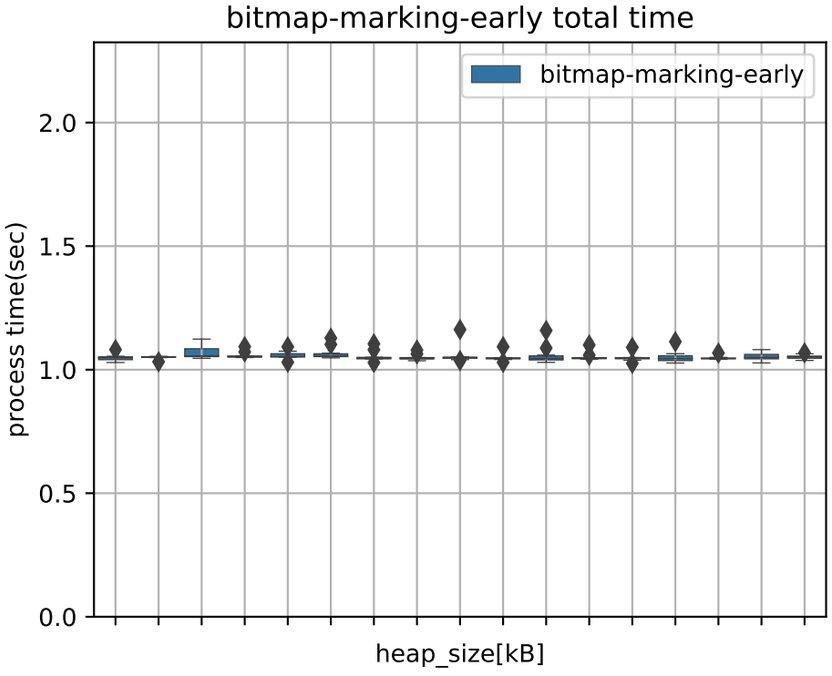

bm_so_lists_m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
140484
145484
150484
155484
160484
165484
170484
175484
180484
185484
190484
bitmap-marking-m32
marksweep-m32
refcnt-m32

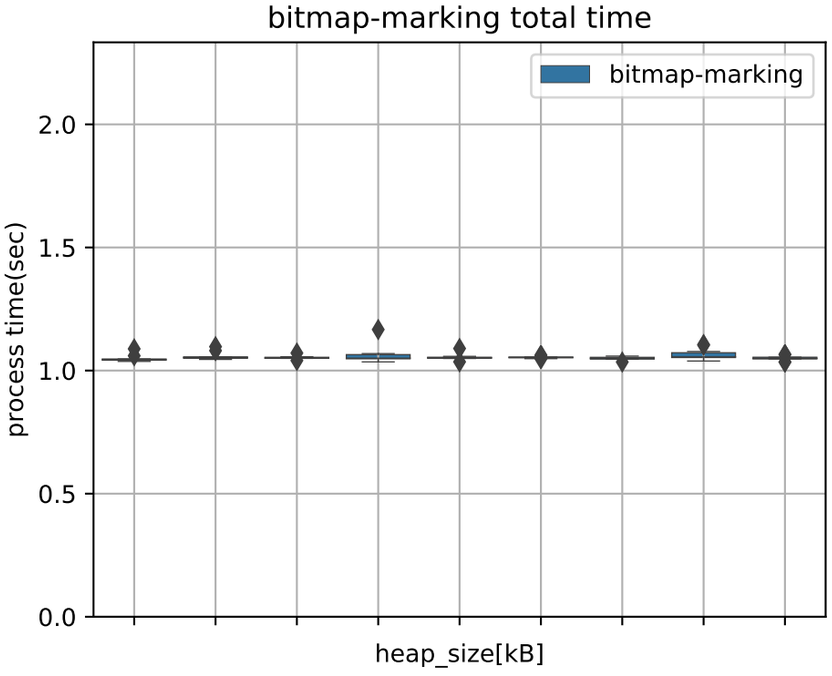

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0
2.5

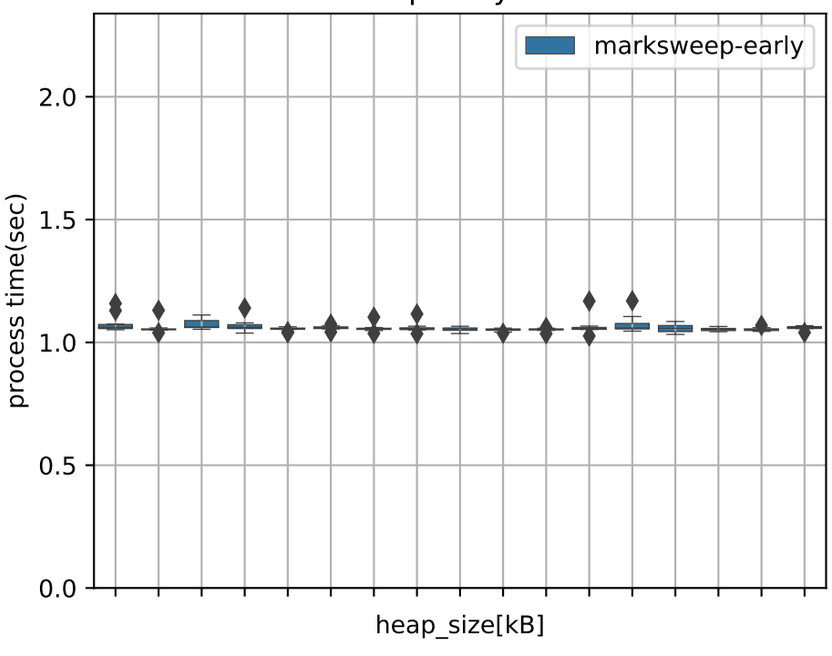

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0
2.5

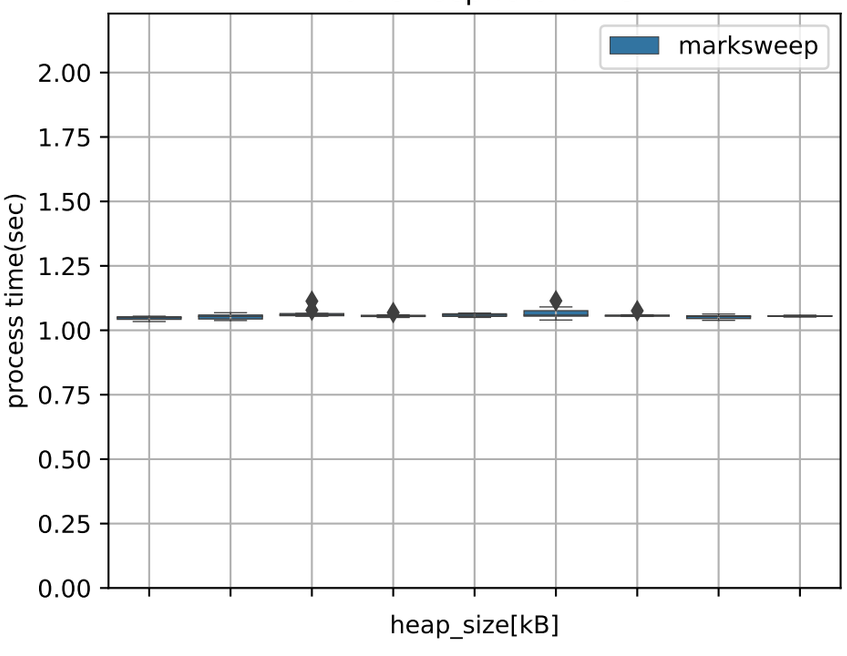

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0
2.5
3.0

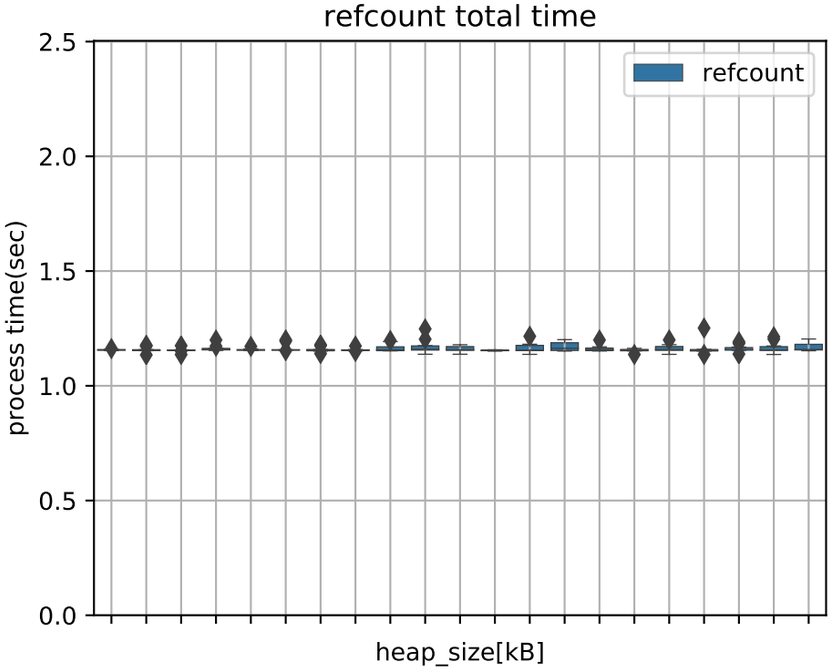

bm_so_lists
process time(sec)
0.0
0.2
0.4
0.6
0.8
1.0
191184
196184
201184
206184
211184
216184
221184
226184
231184
236184
241184
heap_size[kB]
bitmap-marking
marksweep
refcount

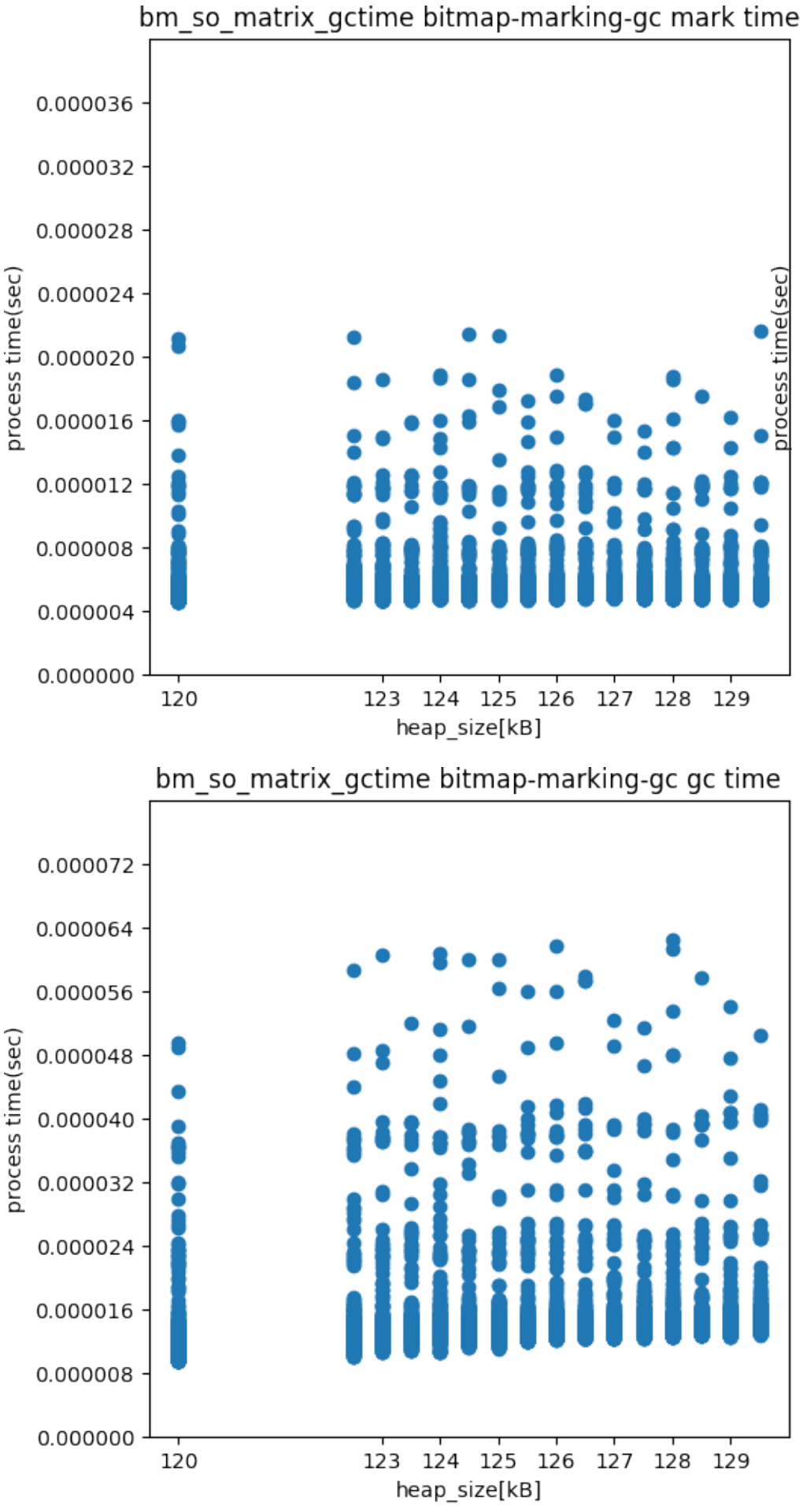

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

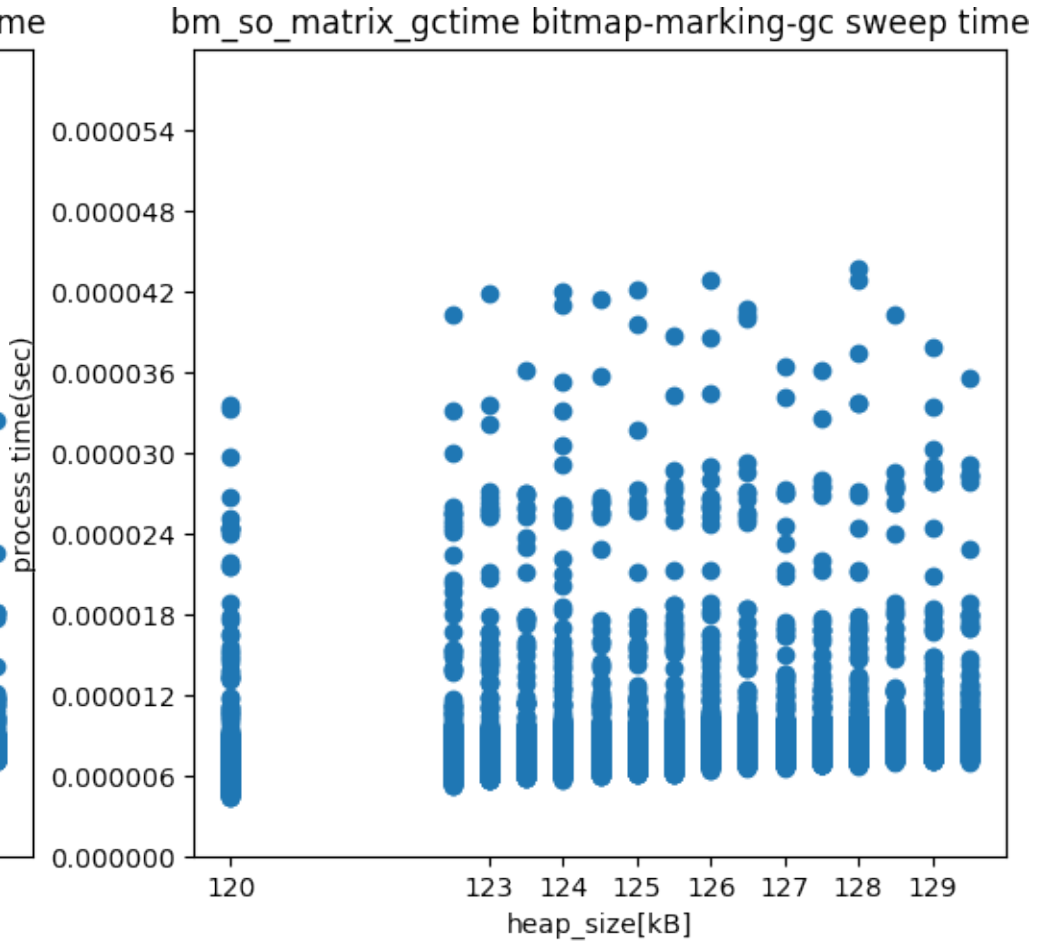

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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


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

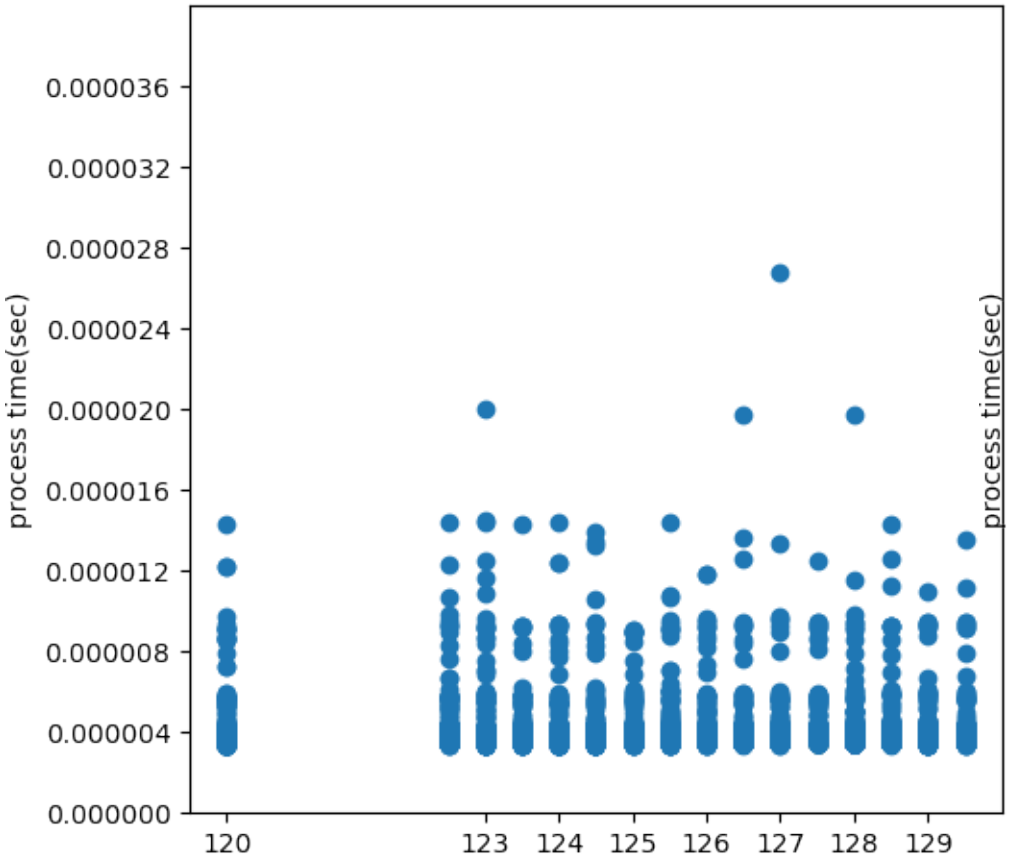

refcount total time
refcount
process time(sec)
heap_size[kB]


bm_so_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
120
123
124
125
126
127
128
129
heap_size[kB]

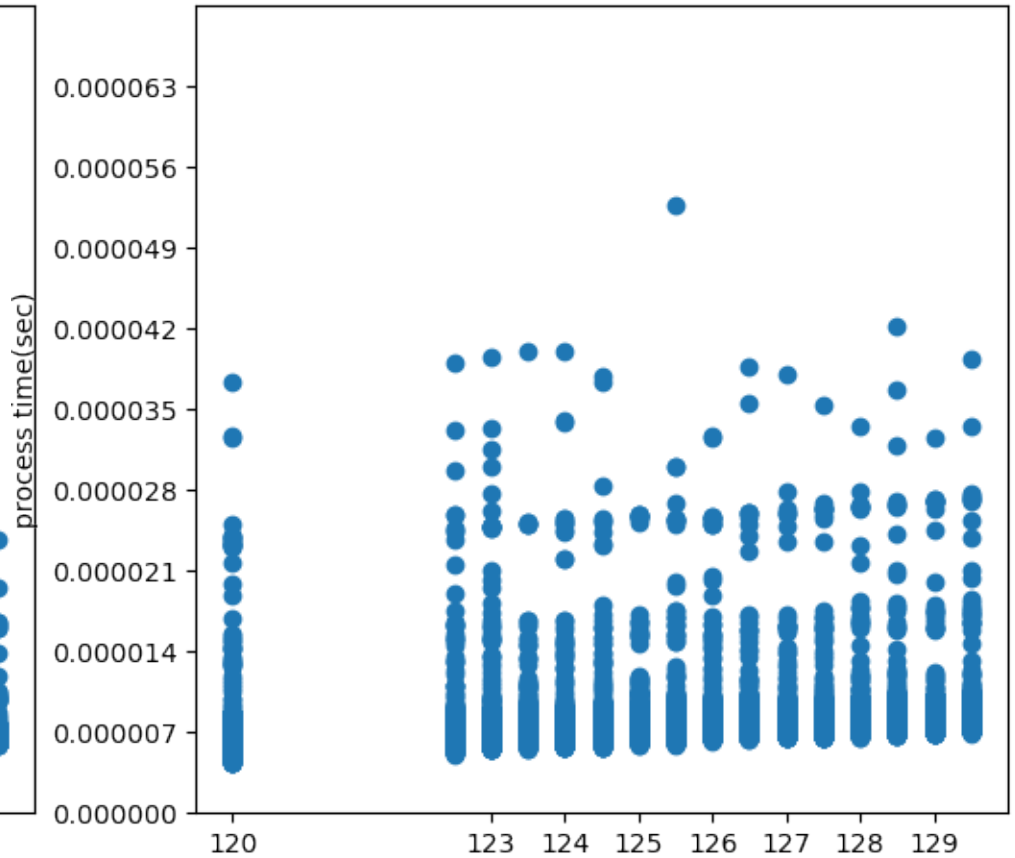

bm_so_matrix_gctime bitmap-marking-gc sweep time
process time(sec)
0.000054
0.000048
0.000042
0.000036
0.000030
0.000024
0.000018
0.000012
0.000006
0.000000
120
123
124
125
126
127
128
129
heap_size[kB]

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
120
123
124
125
126
127
128
129
heap_size[kB]

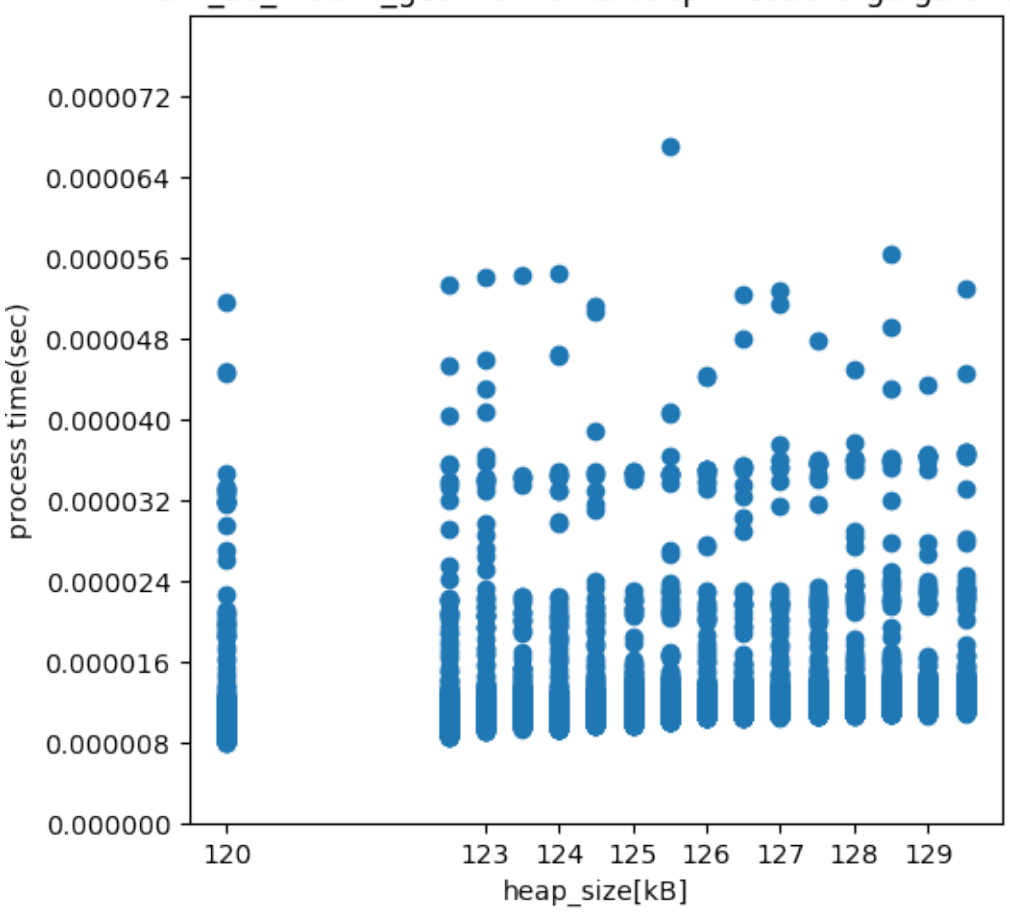
bm_so_matrix_gctime marksweep-measure-gc mark time

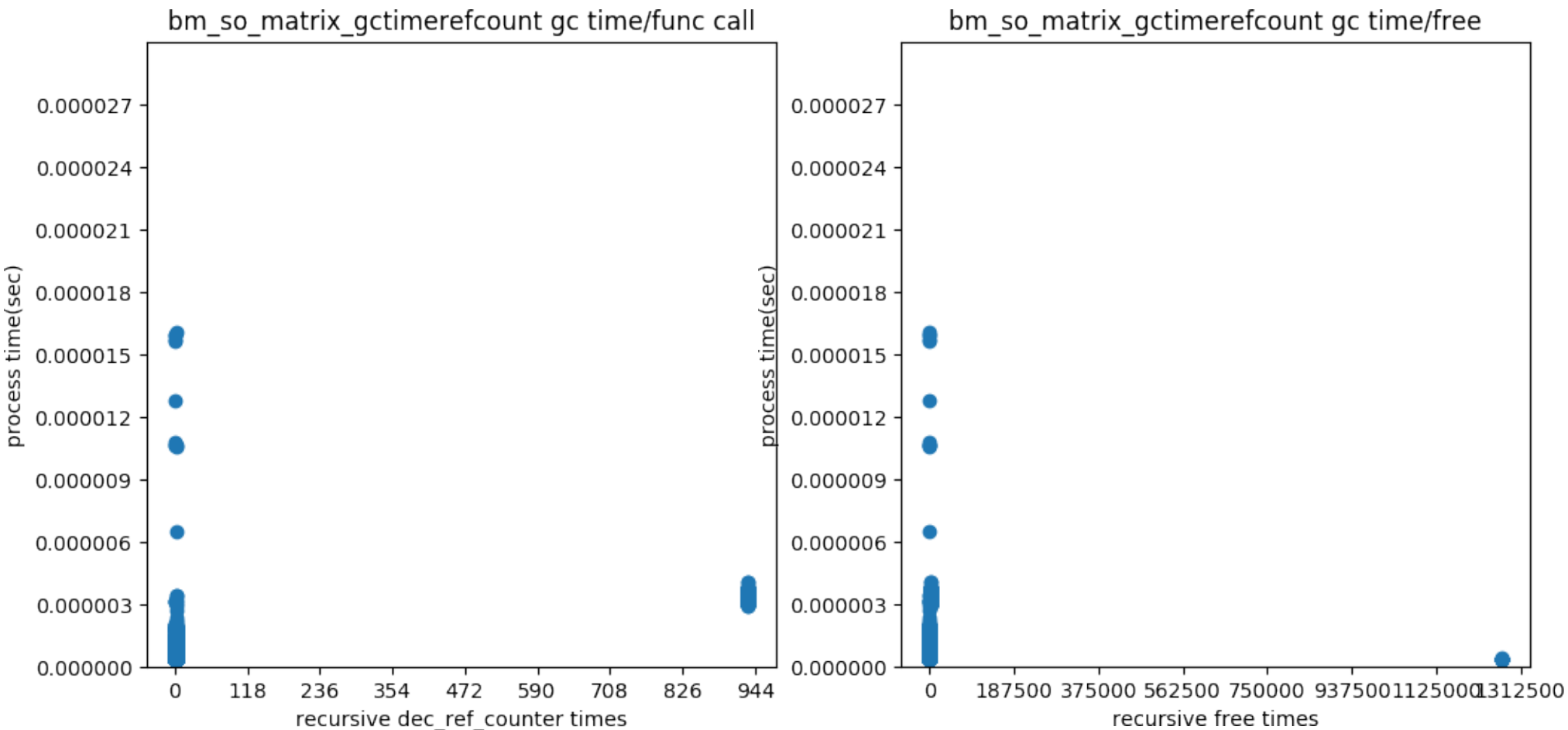


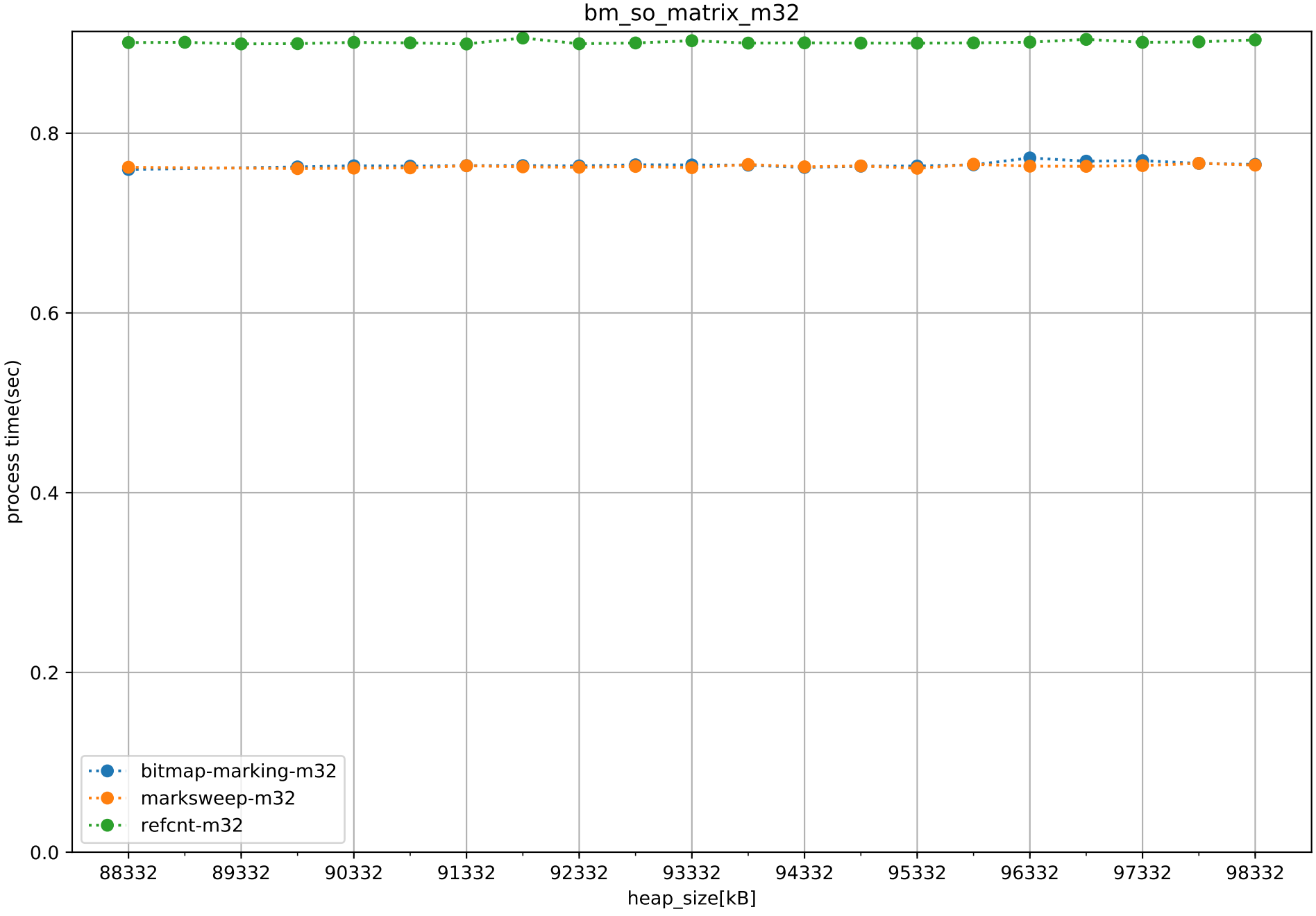
bm_so_matrix_gctime marksweep-measure-gc sweep time

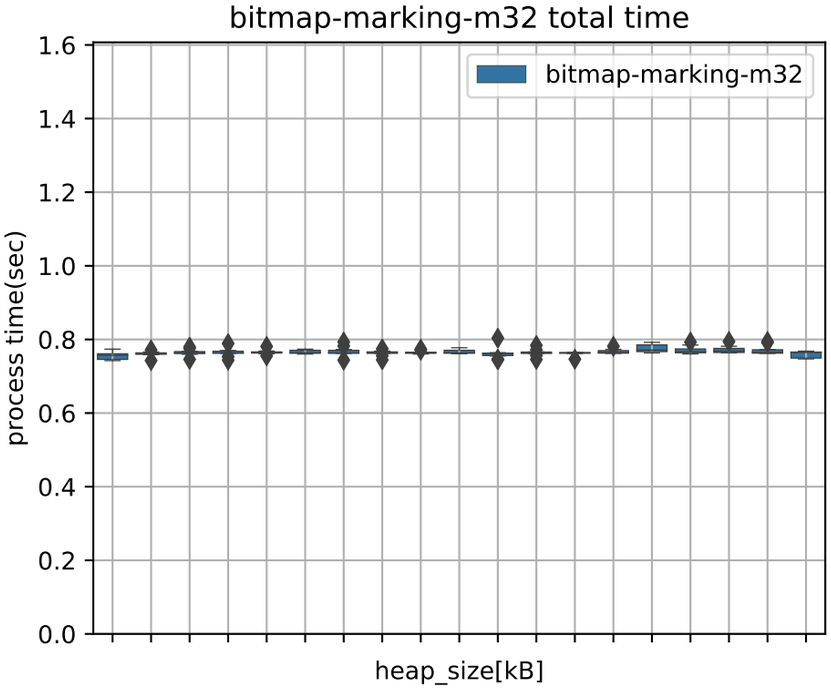


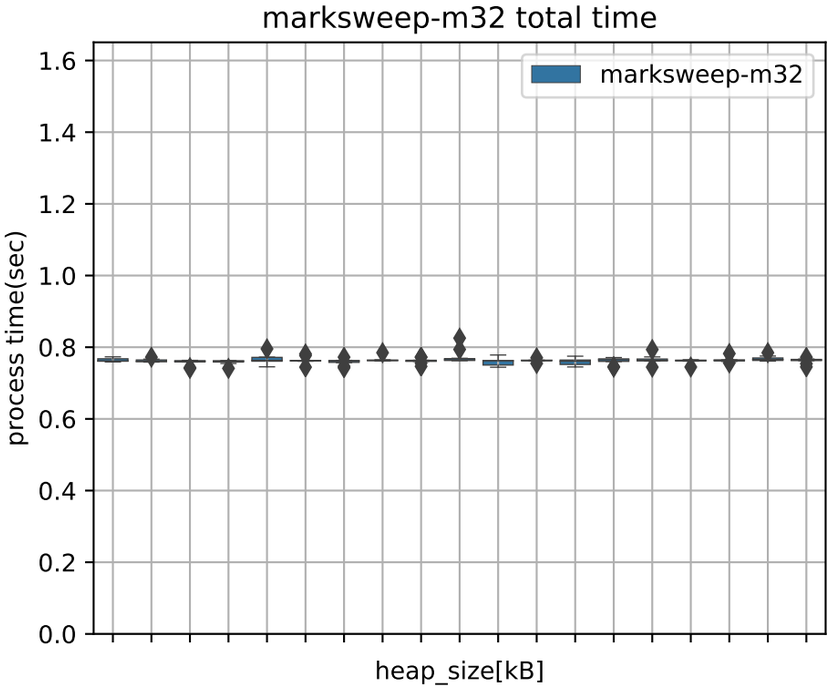
bm_so_matrix_gctime marksweep-measure-gc gc time

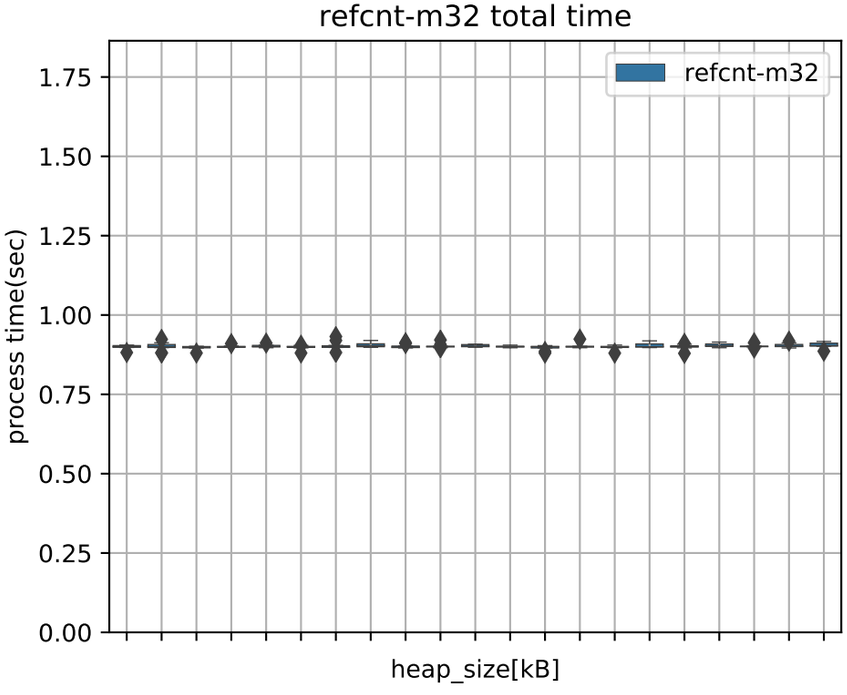


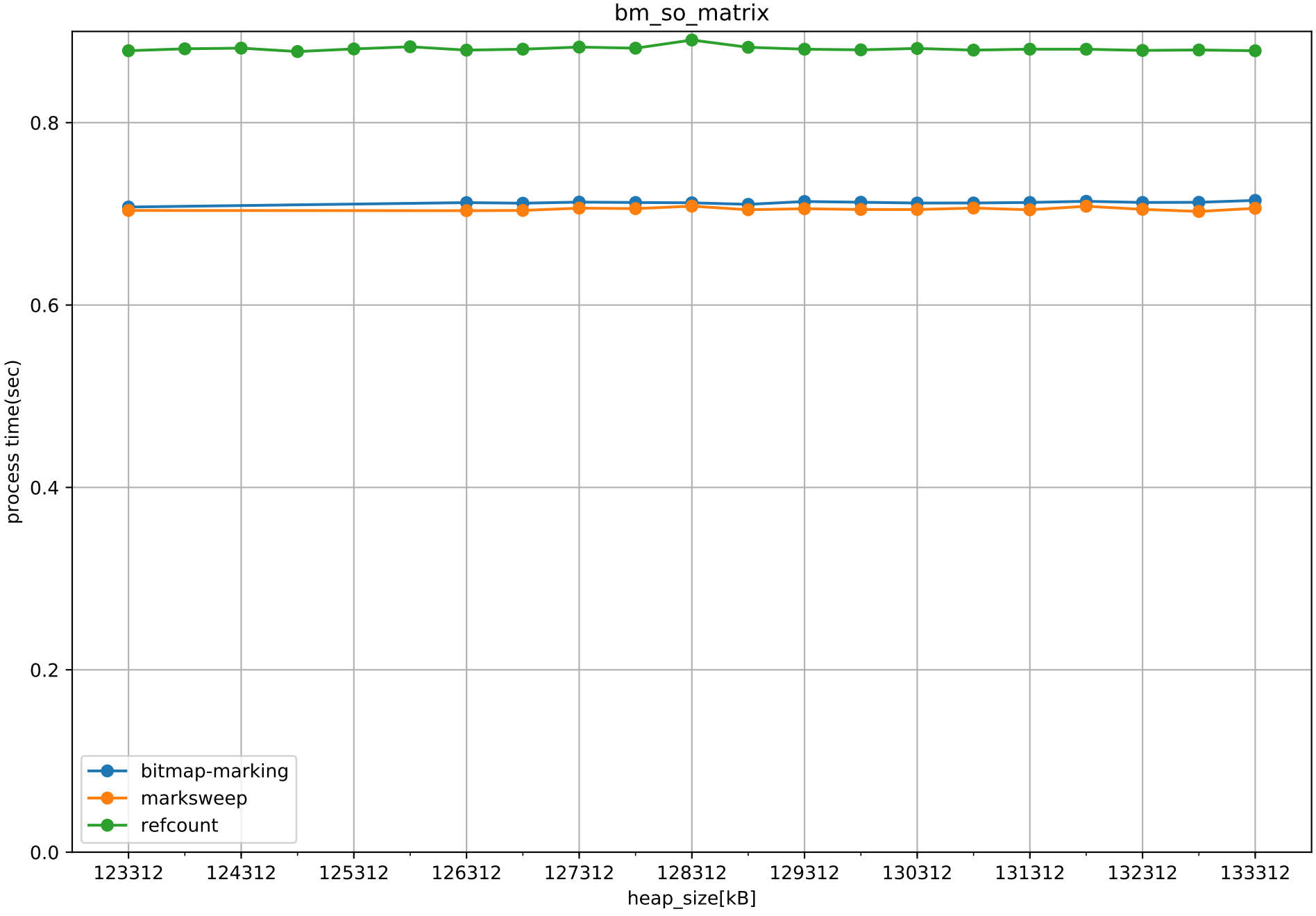

bm_so_matrix_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
118
236
354
472
590
708
826
944
recursive dec_ref_counter times
bm_so_matrix_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021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

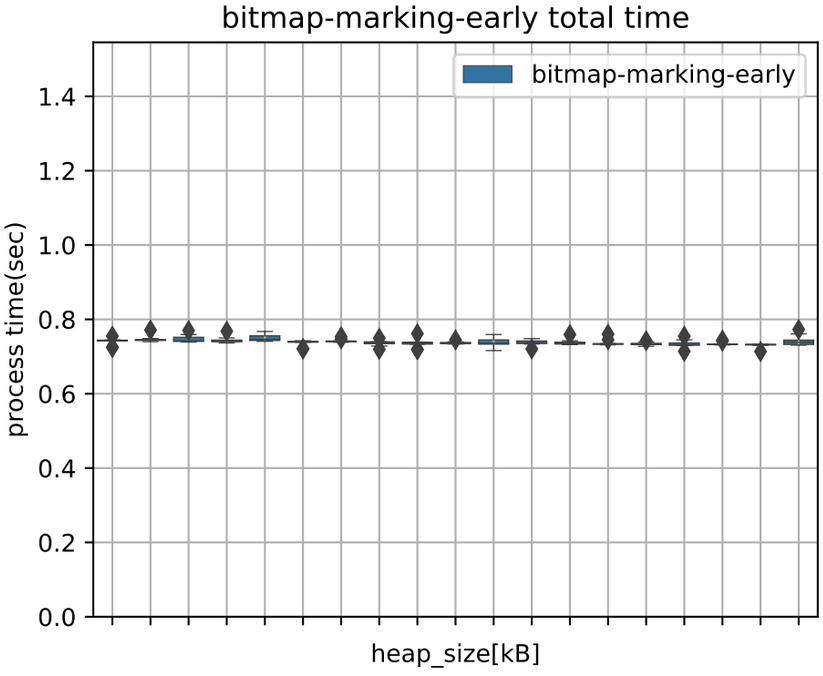

bm_so_matrix_m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
88332
89332
90332
91332
92332
93332
94332
95332
96332
97332
98332
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

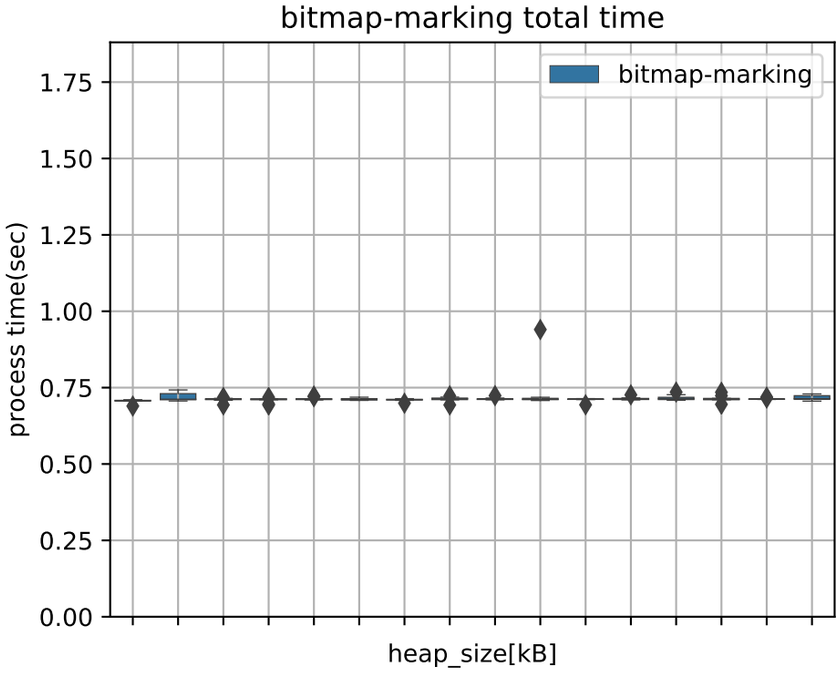

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

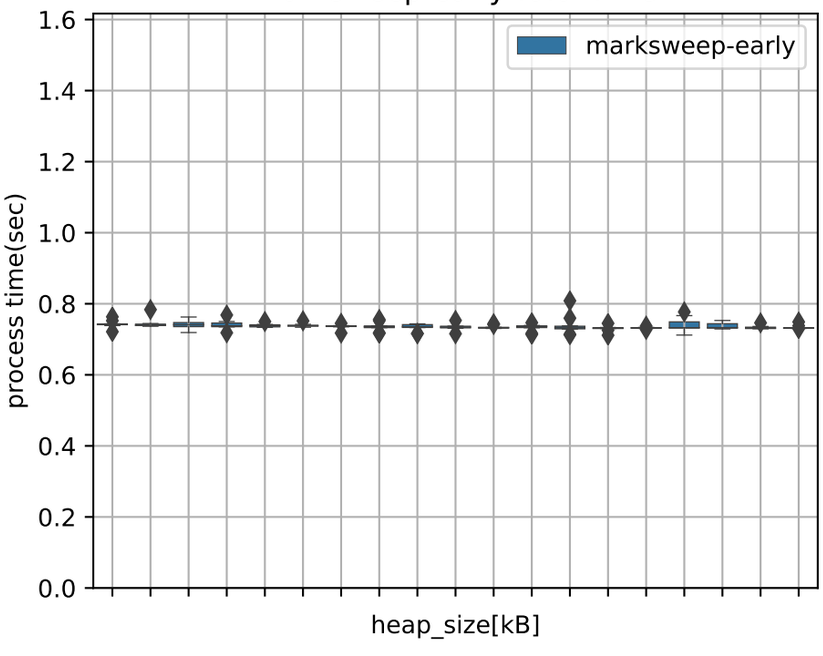

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6

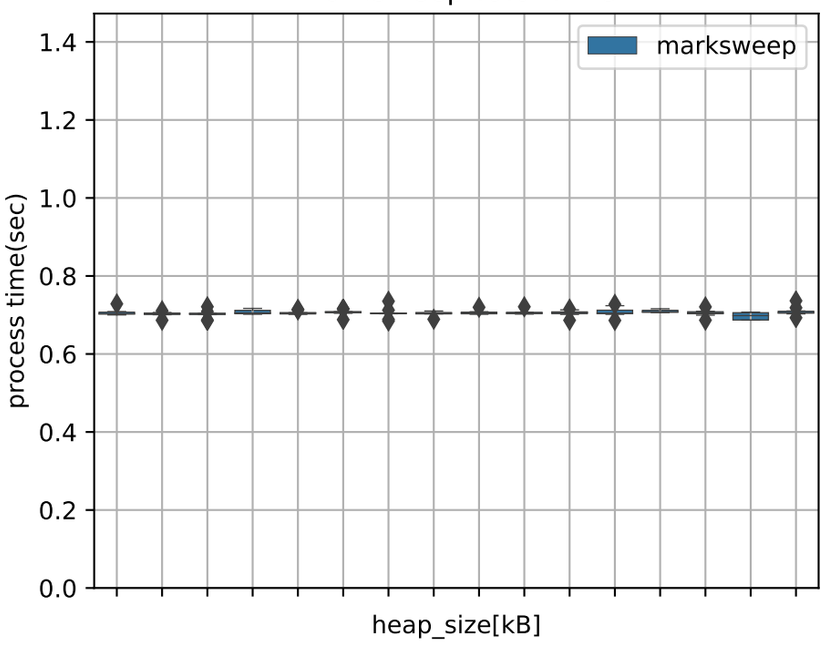

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.00
0.25
0.50
0.75
1.00
1.25
1.50
1.75

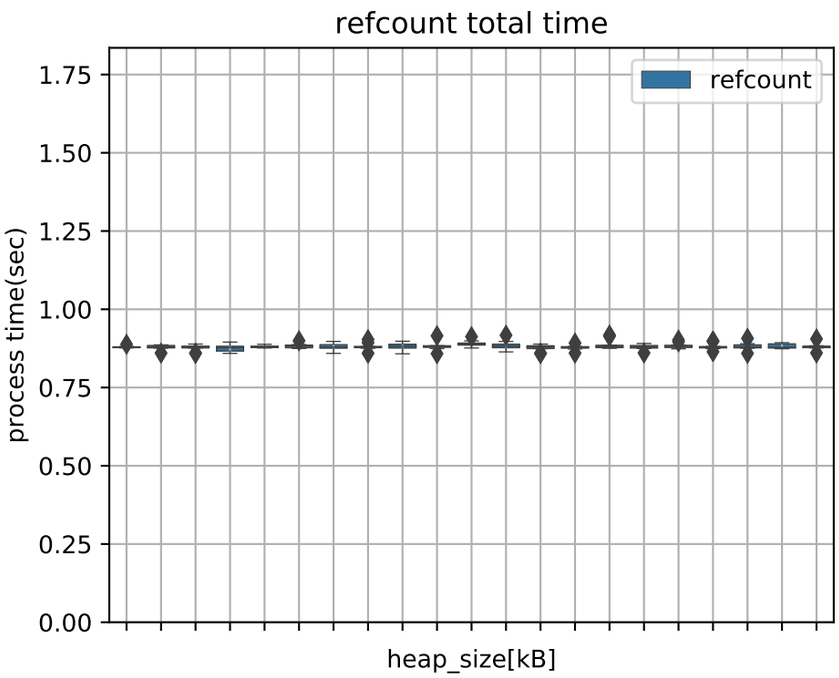

bm_so_matrix
process time(sec)
0.0
0.2
0.4
0.6
0.8
123312
124312
125312
126312
127312
128312
129312
130312
131312
132312
133312
heap_size[kB]
bitmap-marking
marksweep
refcount

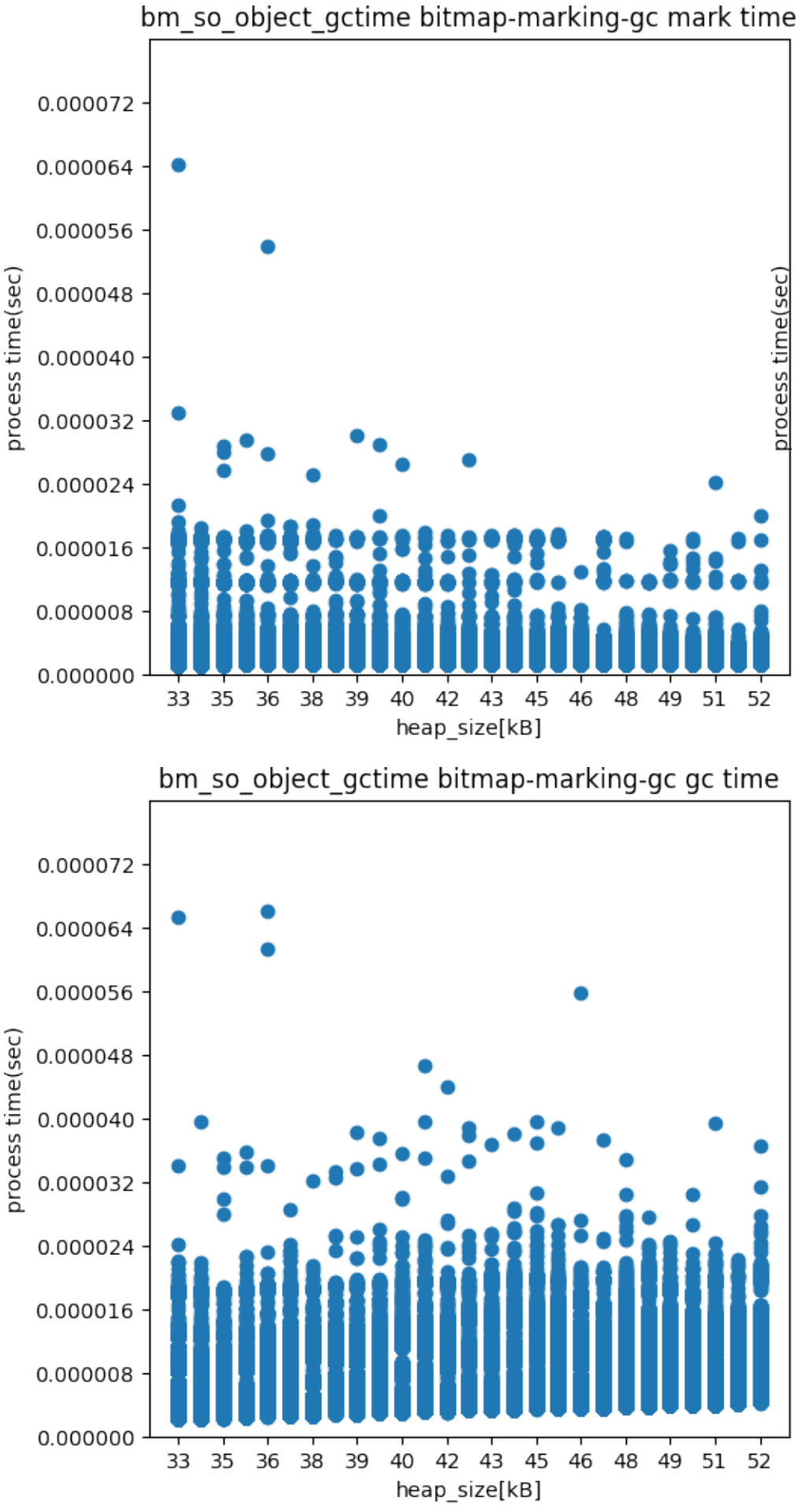

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

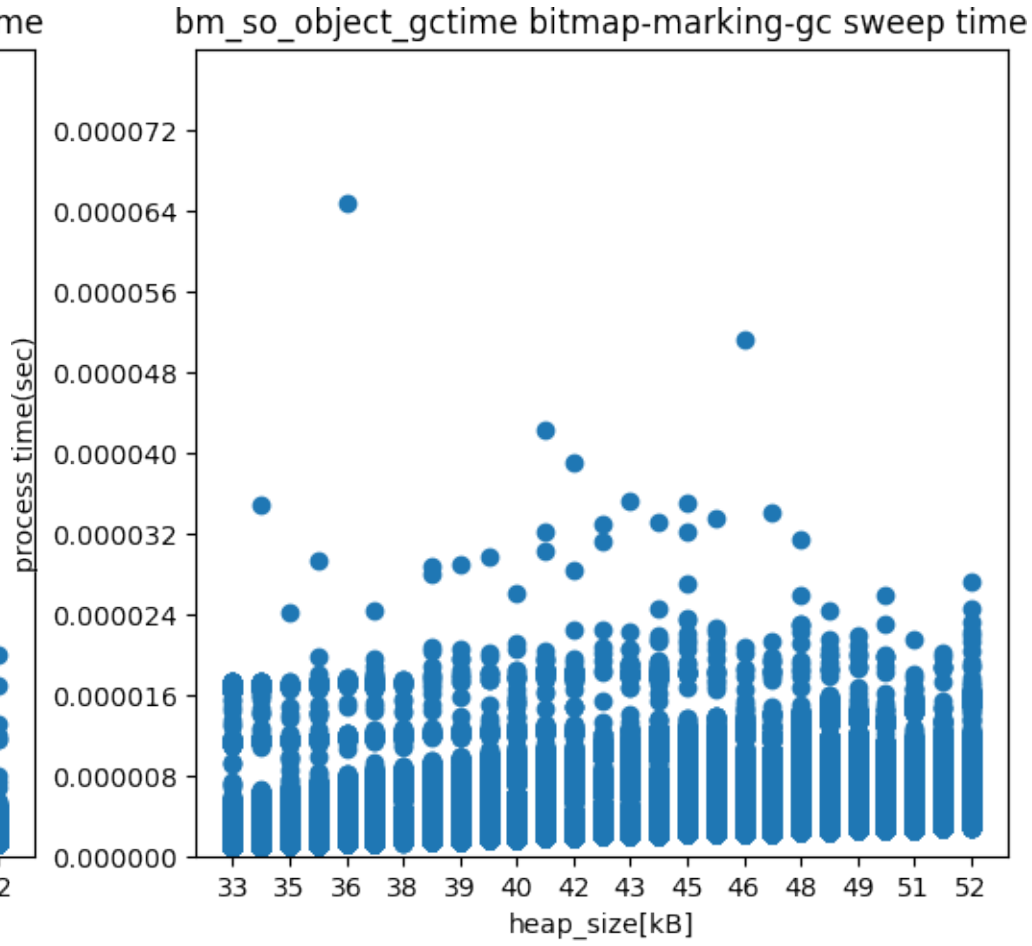

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

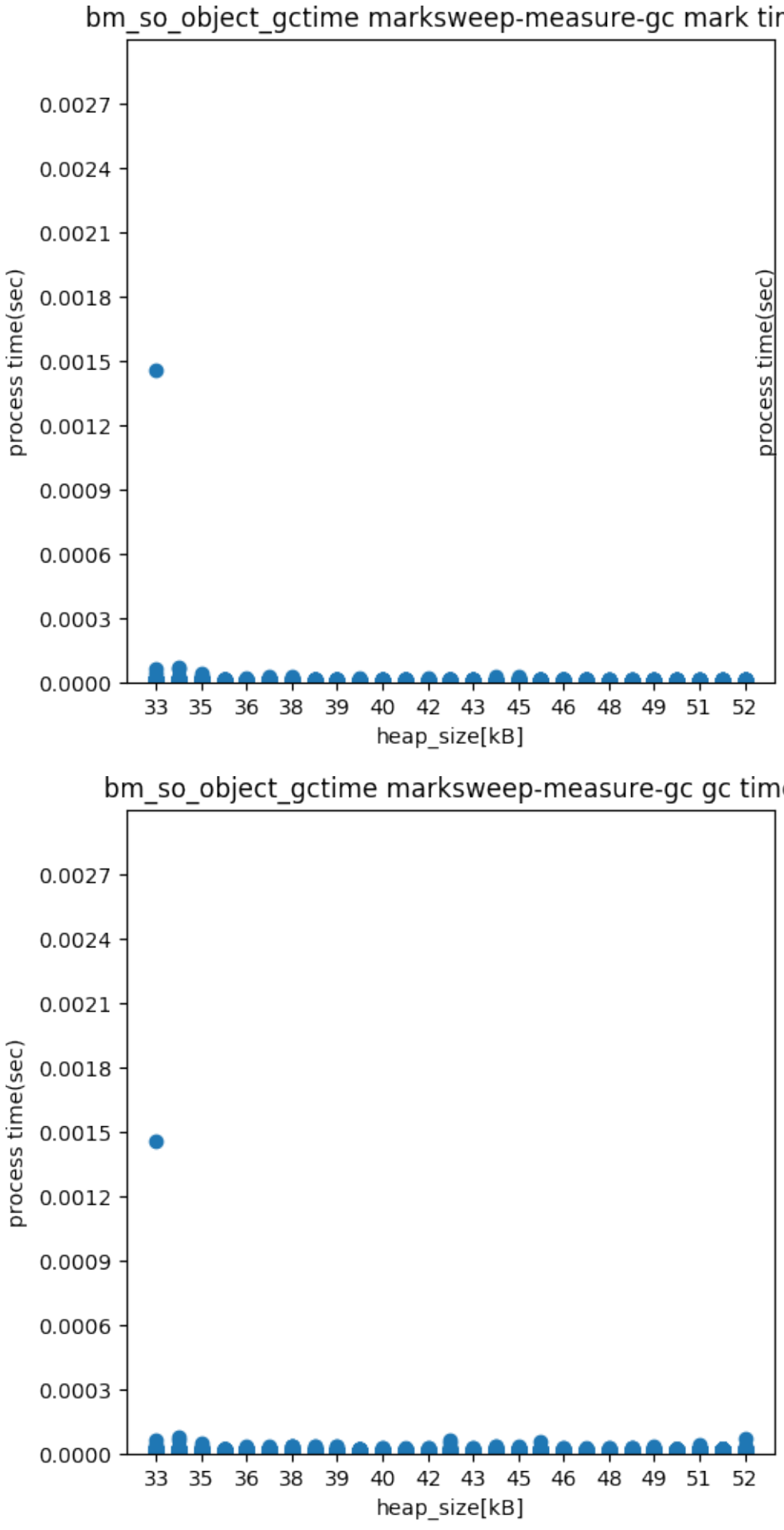

marksweep total time
marksweep
process time(sec)
heap_size[kB]

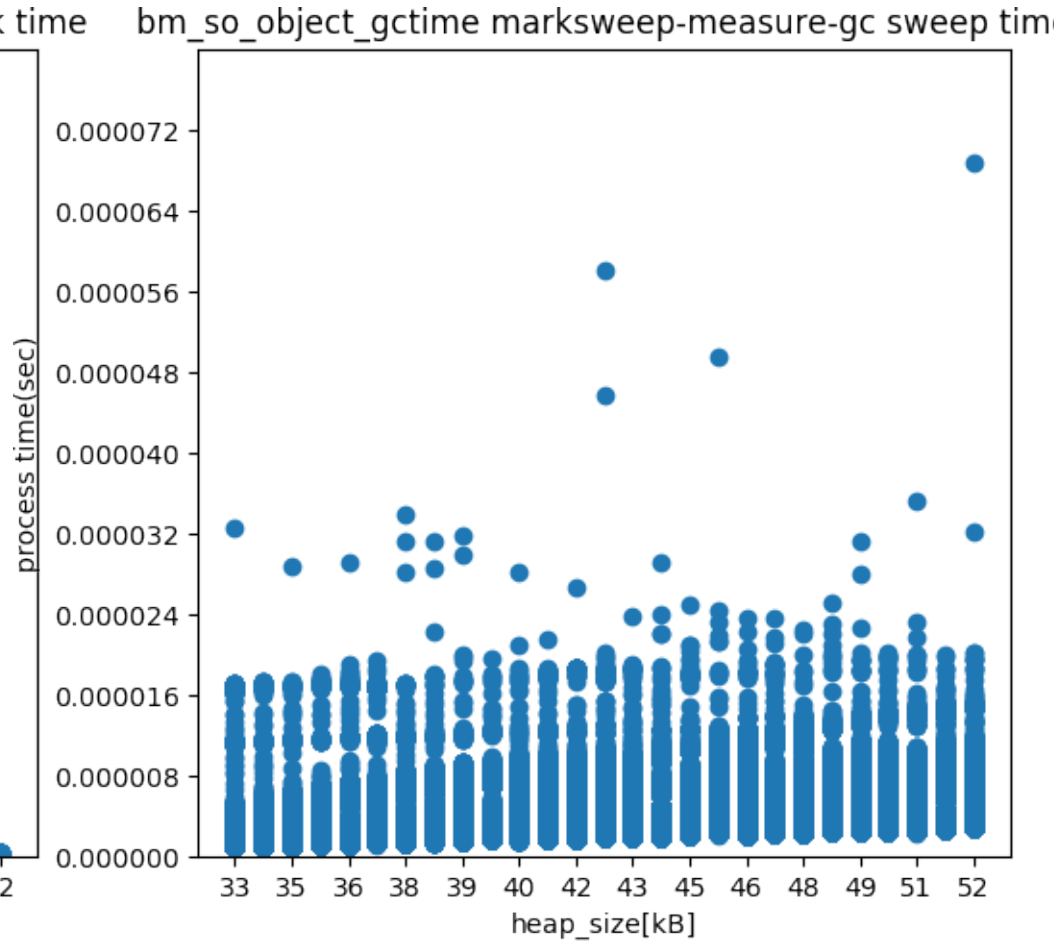

refcount total time
refcount
process time(sec)
heap_size[kB]


bm_so_object_gctime bitmap-marking-gc mark time
process time(sec)
0.000072
0.000064
0.000056
0.000048
0.000040
0.000032
0.000024
0.000016
0.000008
0.000000
33 35 36 38 39 40 42 43 45 46 48 49 51 52
heap_size[kB]

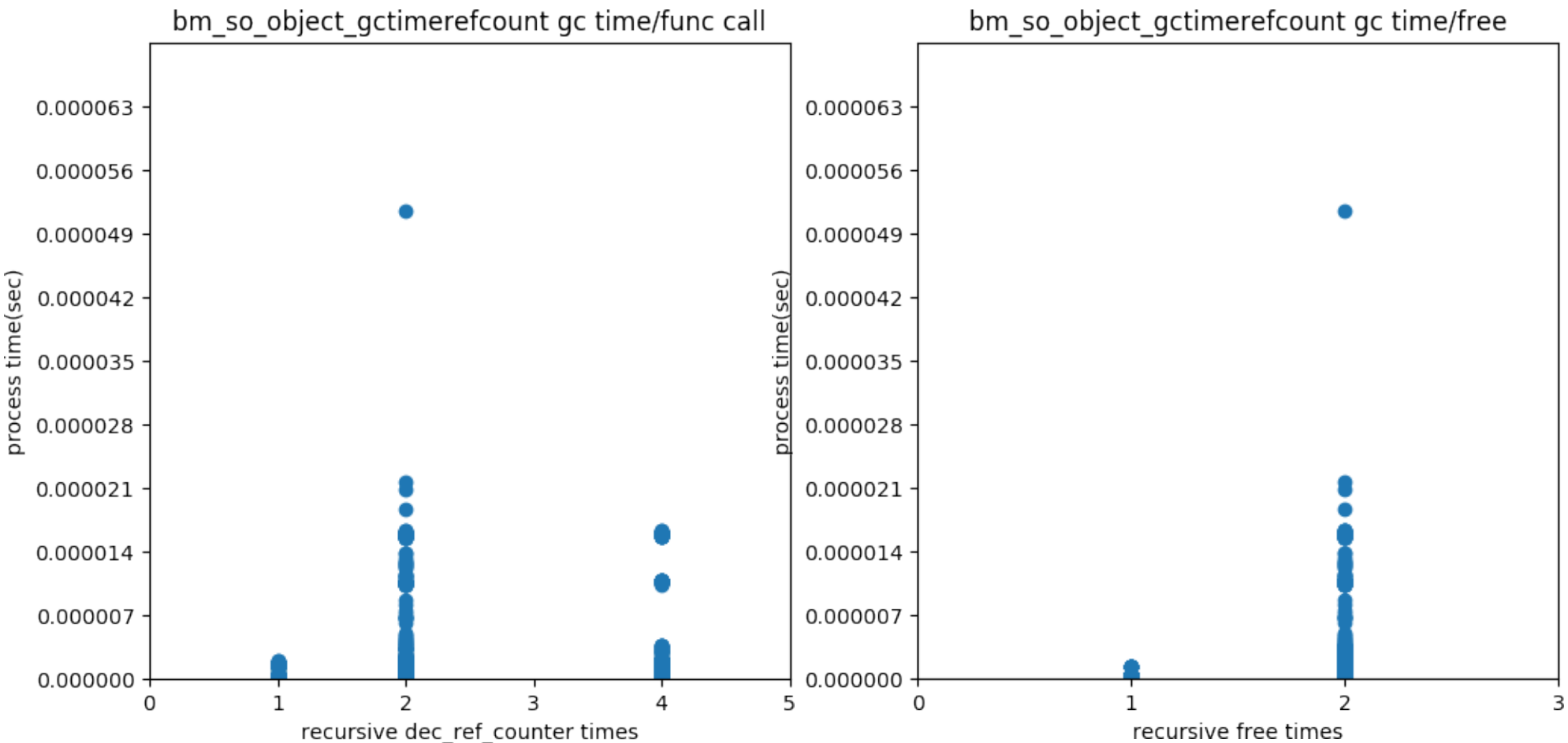

bm_so_object_gctime bitmap-marking-gc sweep time
process time(sec)
0.000072
0.000064
0.000056
0.000048
0.000040
0.000032
0.000024
0.000016
0.000008
0.000000
33 35 36 38 39 40 42 43 45 46 48 49 51 52
heap_size[kB]

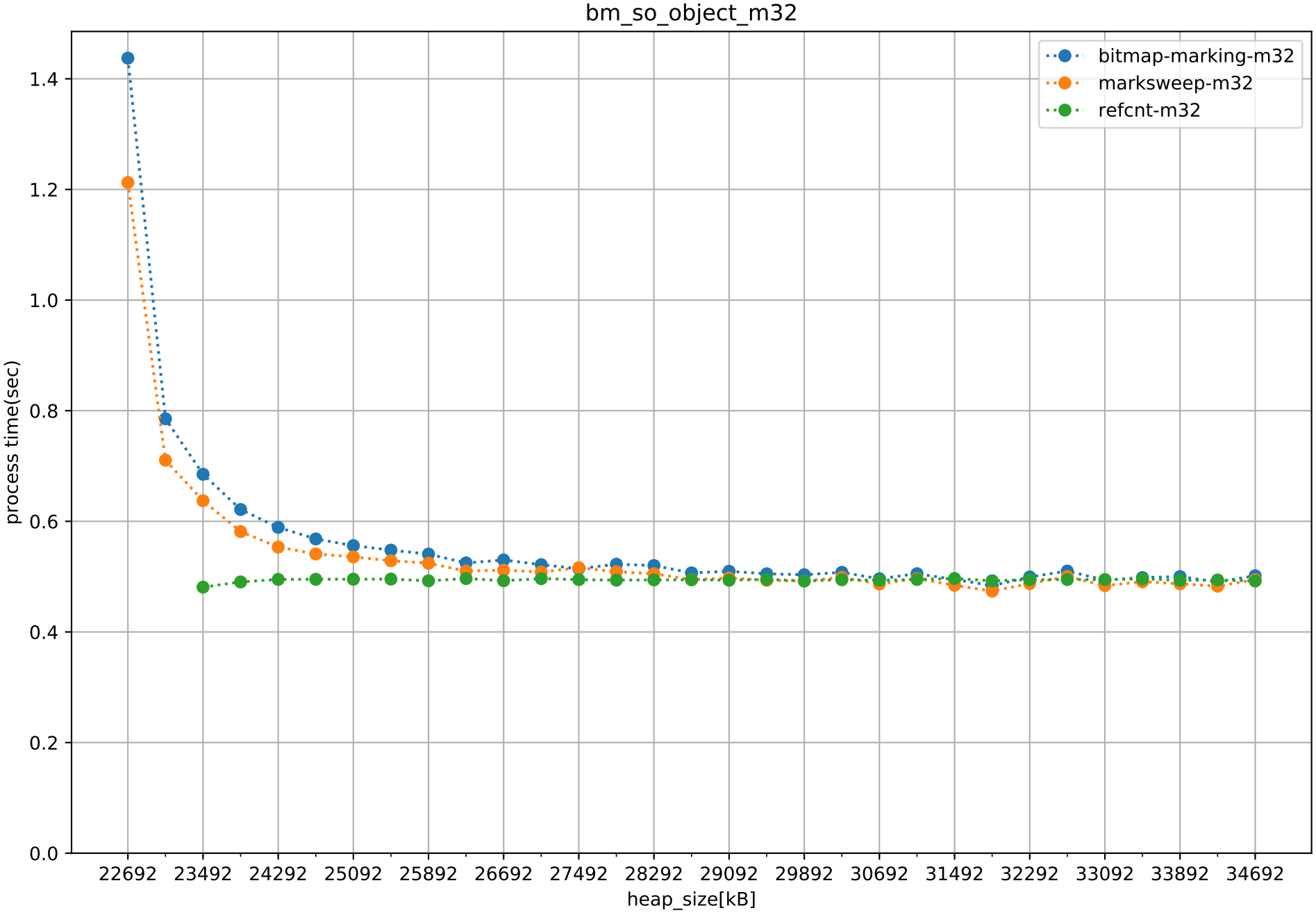
bm_so_object_gctime bitmap-marking-gc gc time
process time(sec)
0.000072
0.000064
0.000056
0.000048
0.000040
0.000032
0.000024
0.000016
0.000008
0.000000
33 35 36 38 39 40 42 43 45 46 48 49 51 52
heap_size[kB]

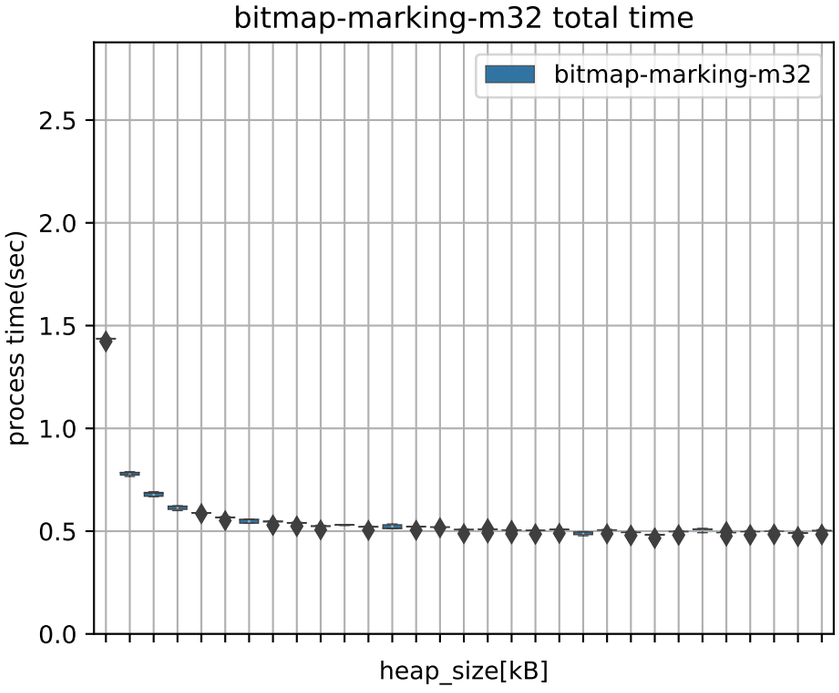

bm_so_object_gctime marksweep-measure-gc mark time
process time(sec)
0.0027
0.0024
0.0021
0.0018
0.0015
0.0012
0.0009
0.0006
0.0003
0.0000
33 35 36 38 39 40 42 43 45 46 48 49 51 52
heap_size[kB]

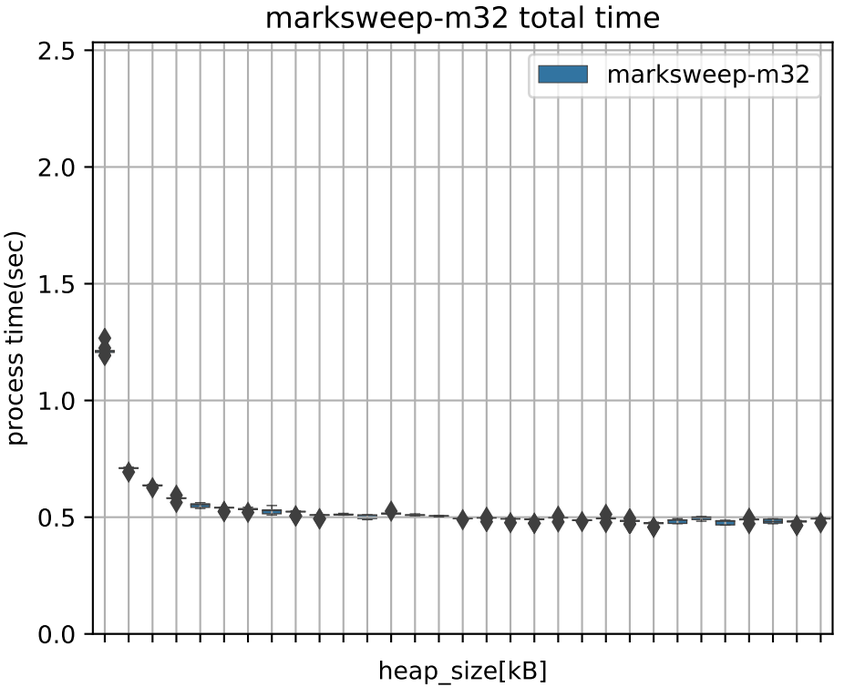

bm_so_object_gctime marksweep-measure-gc sweep time
process time(sec)
0.000072
0.000064
0.000056
0.000048
0.000040
0.000032
0.000024
0.000016
0.000008
0.000000
33 35 36 38 39 40 42 43 45 46 48 49 51 52
heap_size[kB]

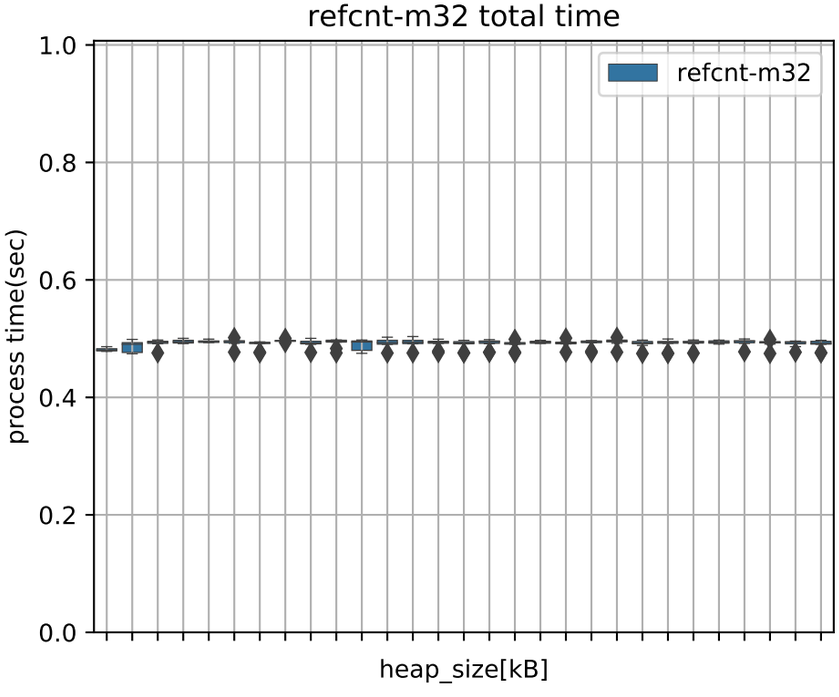
bm_so_object_gctime marksweep-measure-gc gc time
process time(sec)
0.0027
0.0024
0.0021
0.0018
0.0015
0.0012
0.0009
0.0006
0.0003
0.0000
33 35 36 38 39 40 42 43 45 46 48 49 51 52
heap_size[kB]

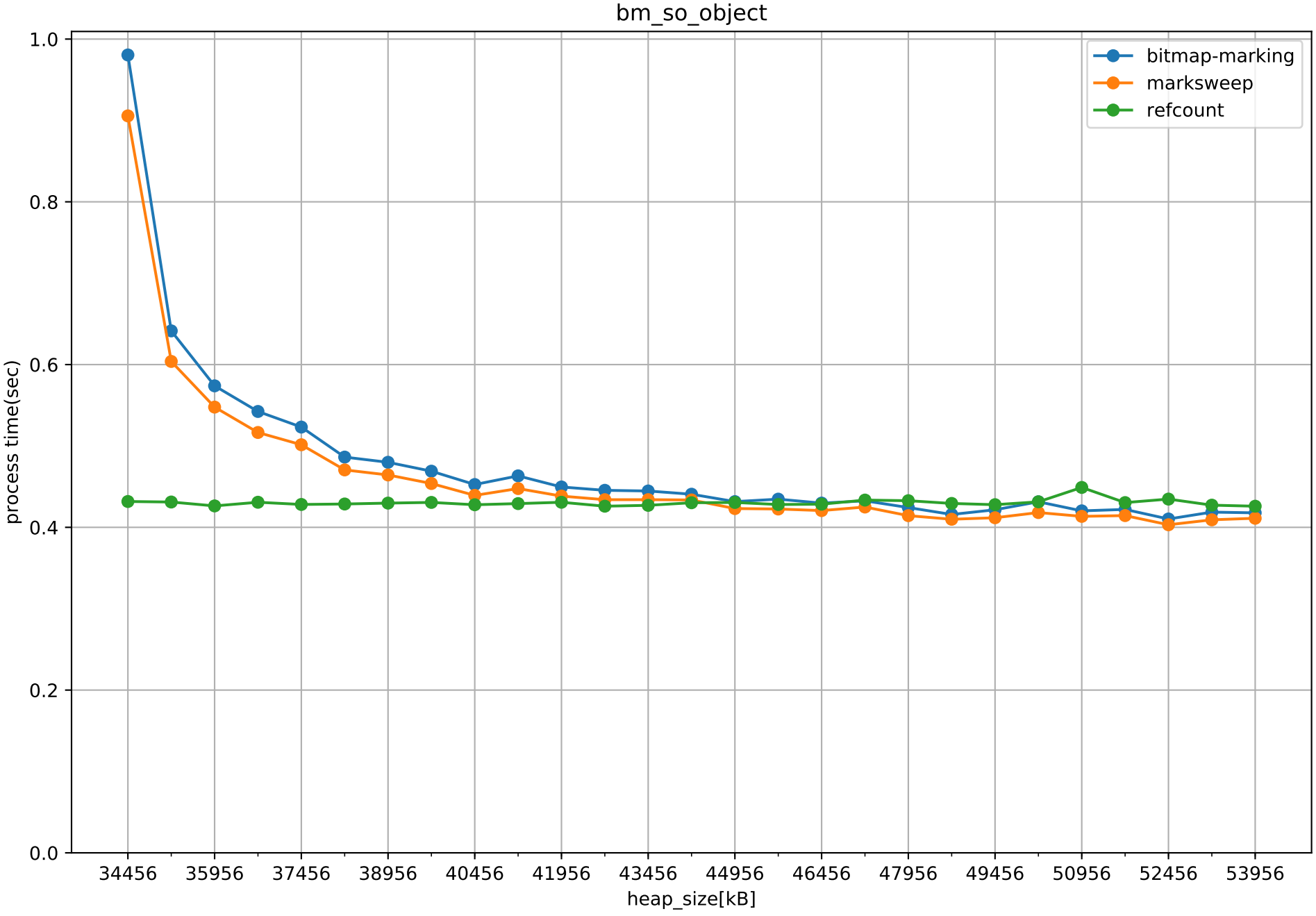

bm_so_object_gctimerefcount gc time/func call
process time(sec)
0.000063
0.000056
0.000049
0.000042
0.000035
0.000028
0.000021
0.000014
0.000007
0.000000
0
1
2
3
4
5
recursive dec_ref_counter times
bm_so_object_gctimerefcount gc time/free
process time(sec)
0.000063
0.000056
0.000049
0.000042
0.000035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

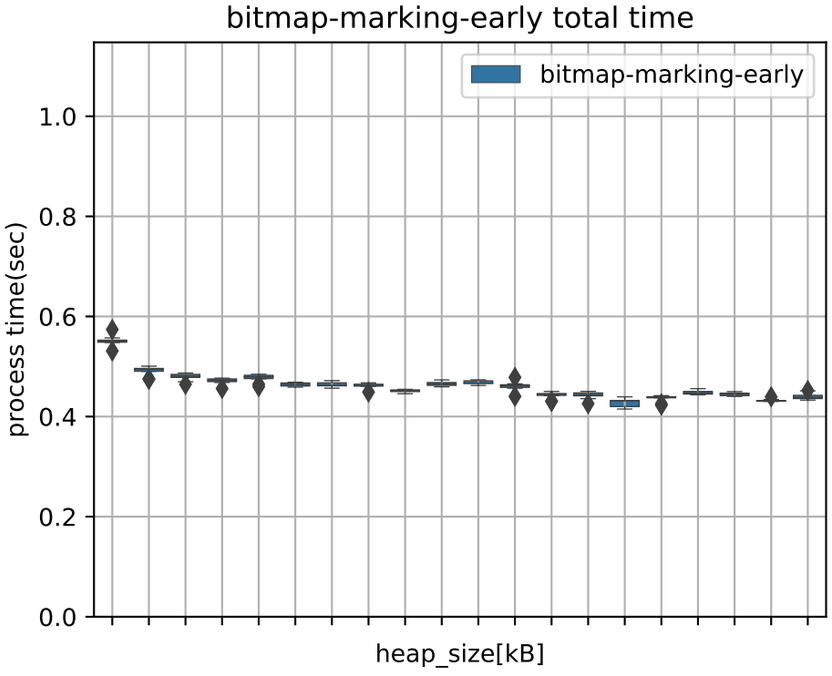

bm_so_object_m32
bitmap-marking-m32
marksweep-m32
refcnt-m32
process time(sec)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
22692
23492
24292
25092
25892
26692
27492
28292
29092
29892
30692
31492
32292
33092
33892
34692
heap_size[kB]

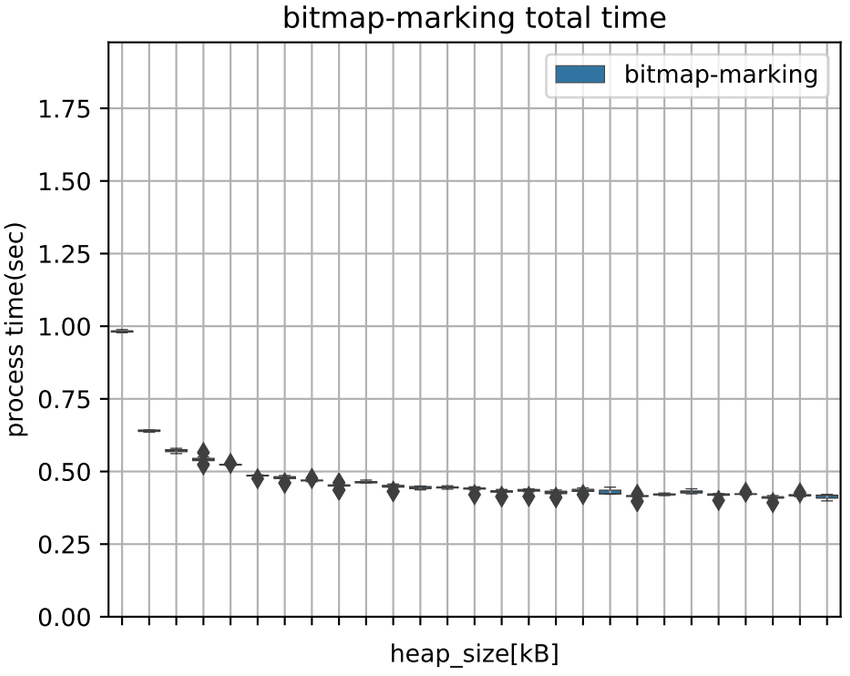

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0
2.5

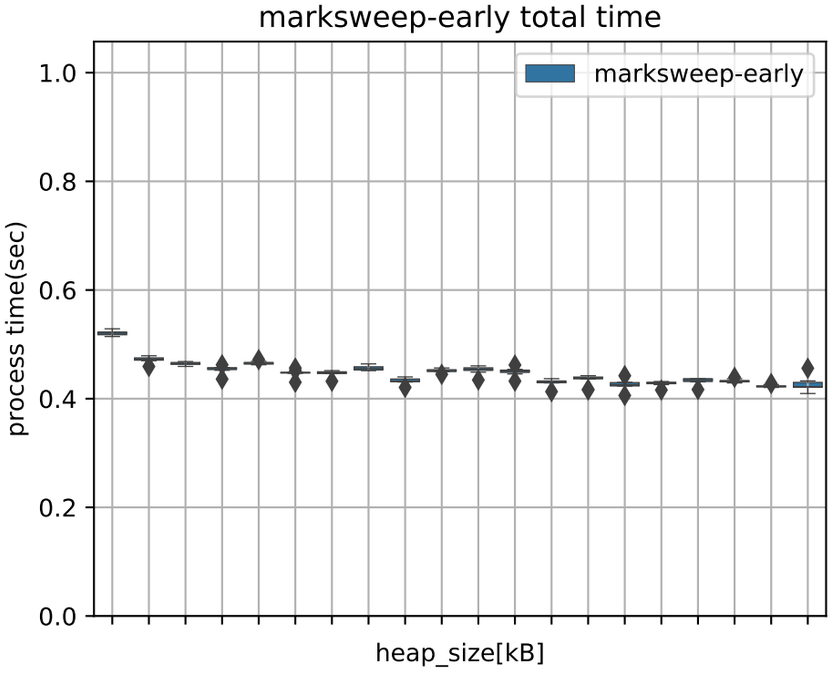

marksweep-m32 total time
marksweep-m32
process time(sec)
heap_size[kB]
0.0
0.5
1.0
1.5
2.0
2.5

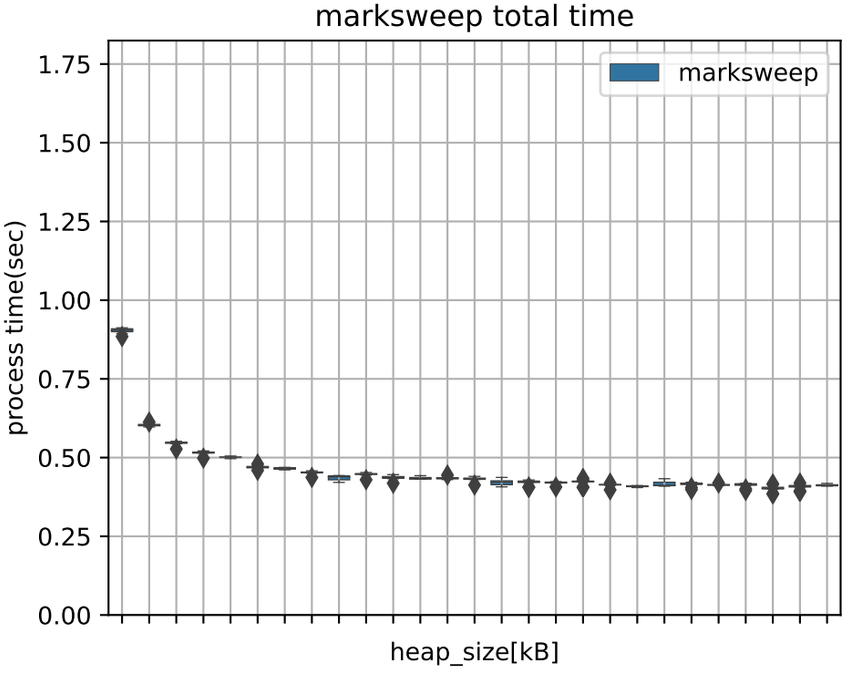

refcnt-m32 total time
refcnt-m32
process time(sec)
heap_size[kB]
0.0
0.2
0.4
0.6
0.8
1.0

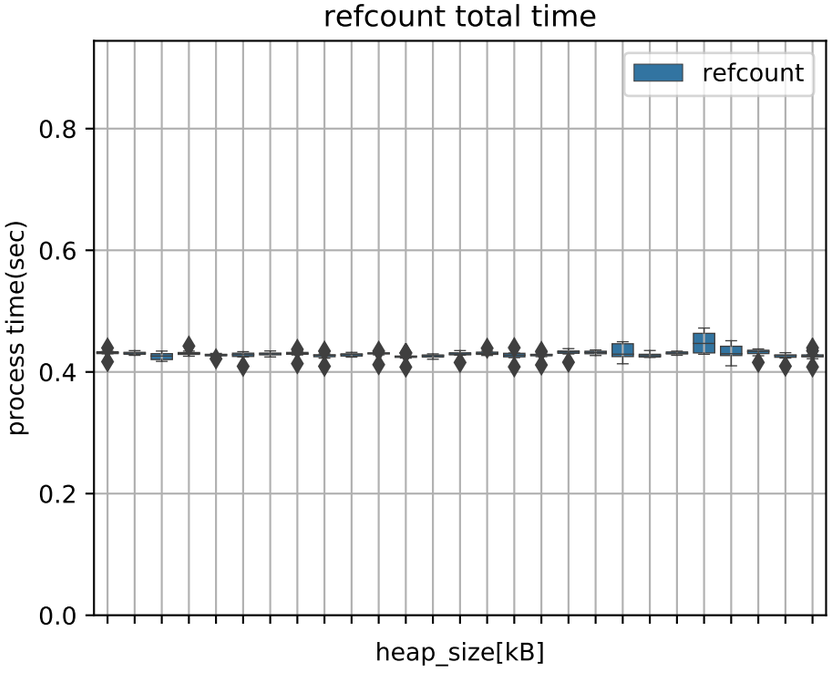

bm_so_object
bitmap-marking
marksweep
refcount
process time(sec)
1.0
0.8
0.6
0.4
0.2
0.0
34456
35956
37456
38956
40456
41956
43456
44956
46456
47956
49456
50956
52456
53956
heap_size[kB]

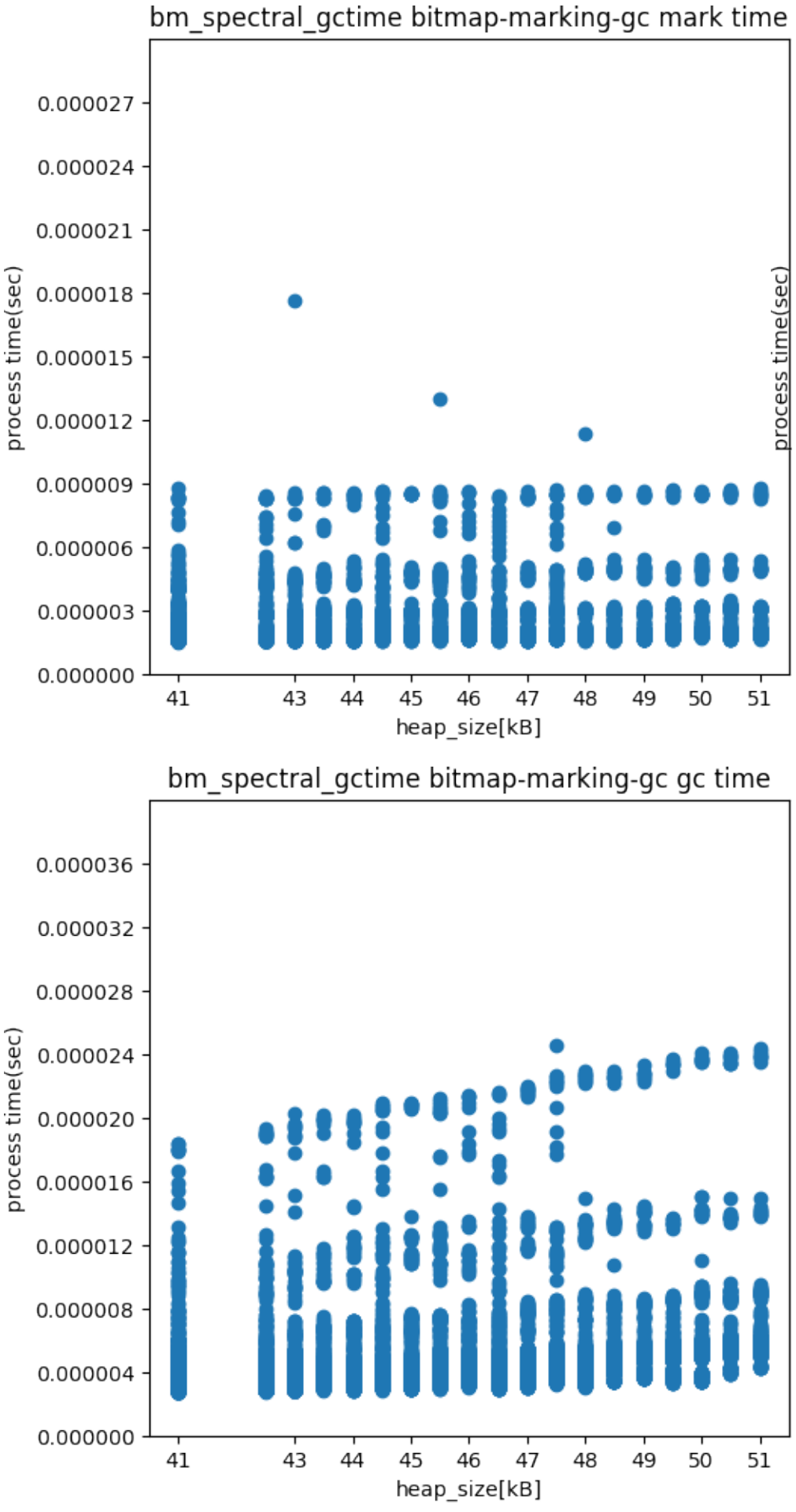

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
heap_size[kB]

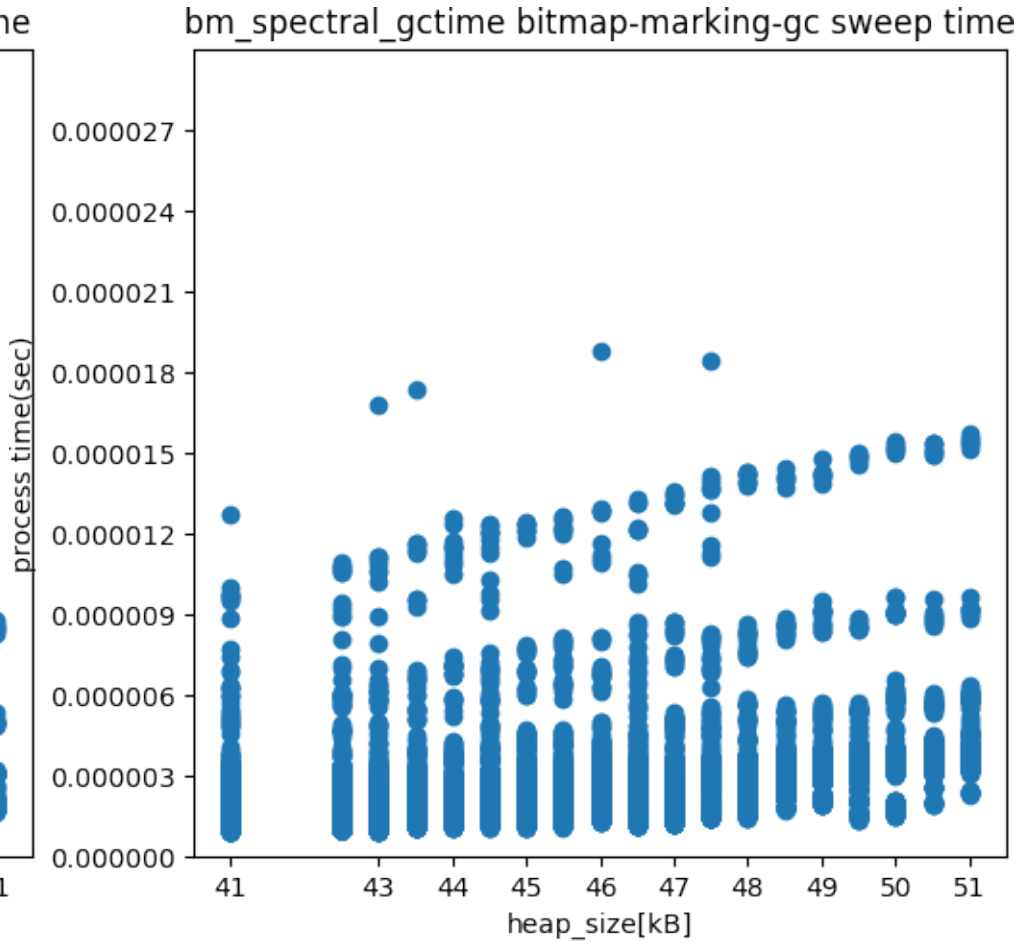

bitmap-marking total time
bitmap-marking
process time(sec)
heap_size[kB]


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

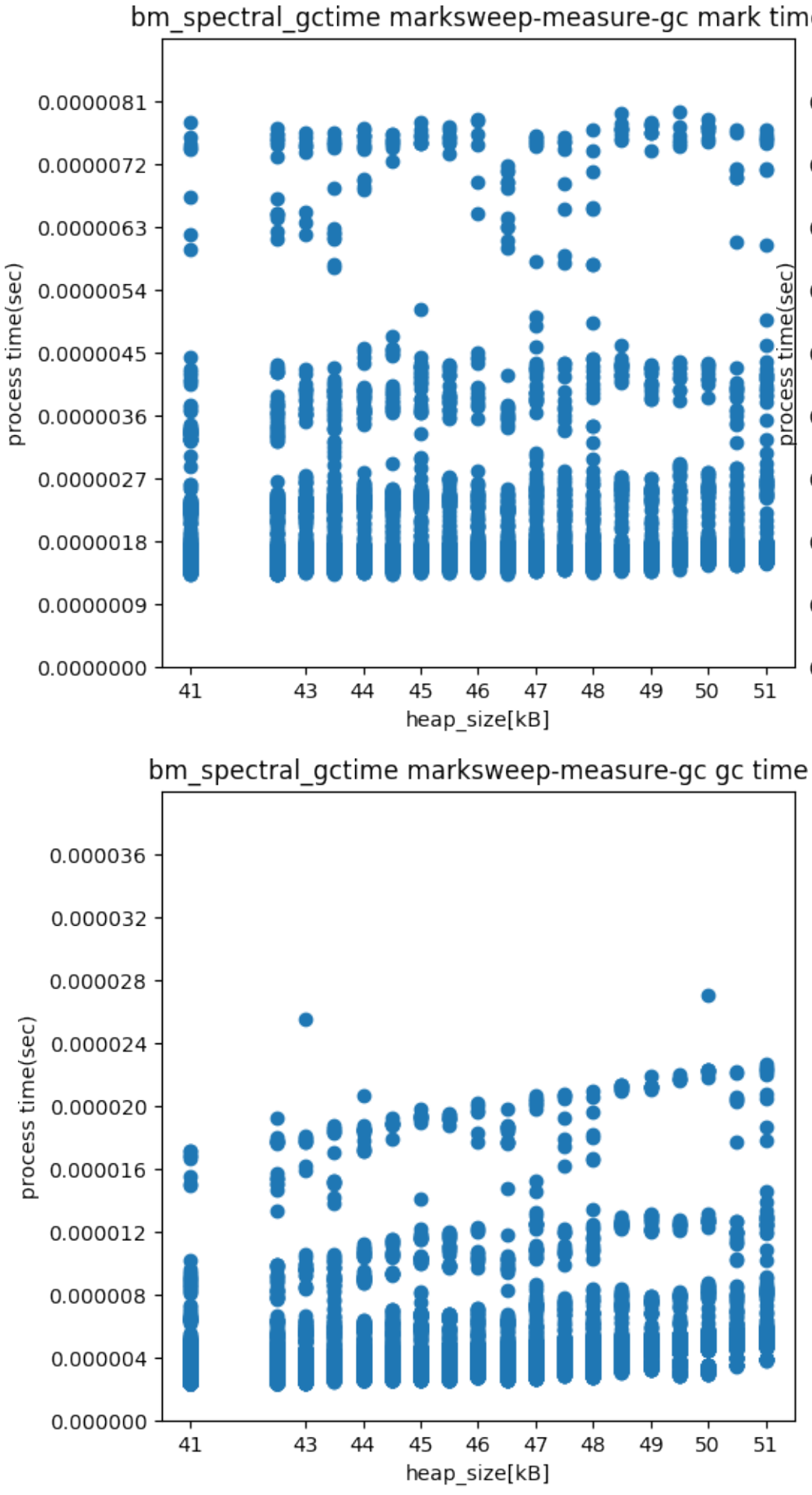

marksweep total time
marksweep
process time(sec)
heap_size[kB]

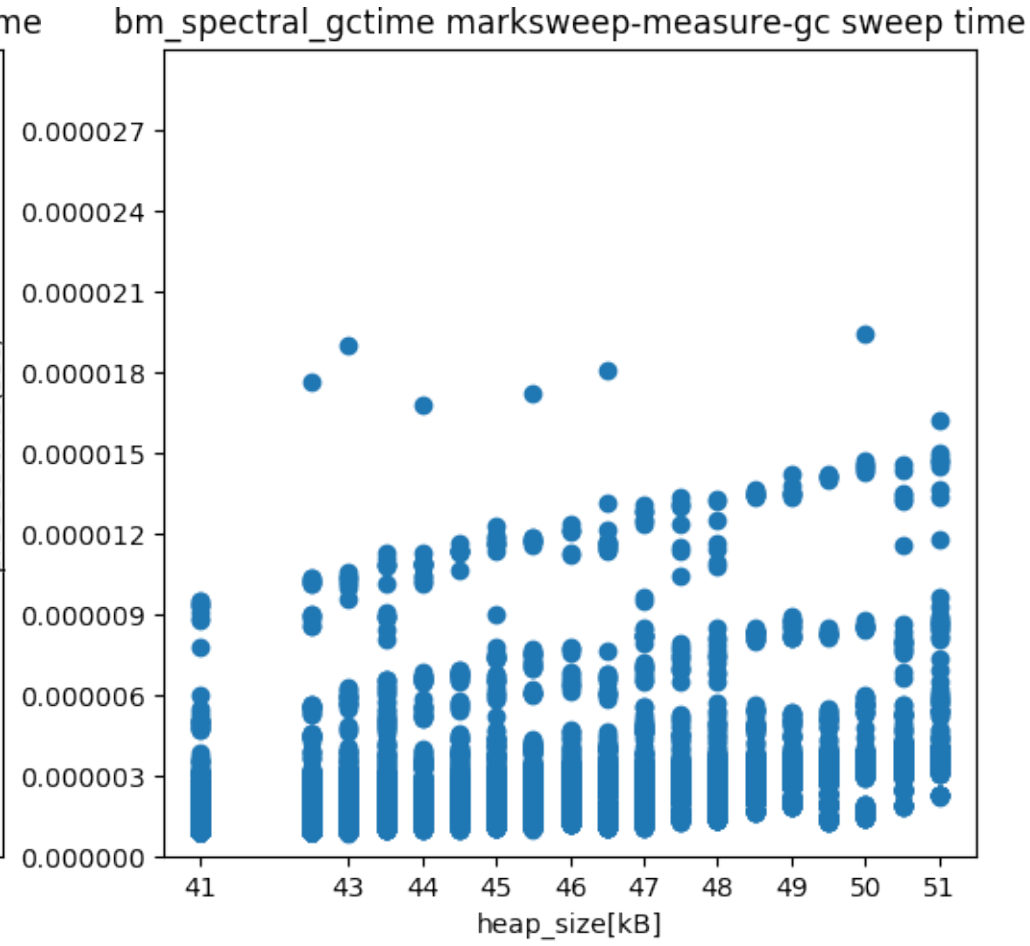

refcount total time
refcount
process time(sec)
heap_size[kB]


bm_spectral_gctime bitmap-marking-gc mark time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
41
43
44
45
46
47
48
49
50
51
heap_size[kB]

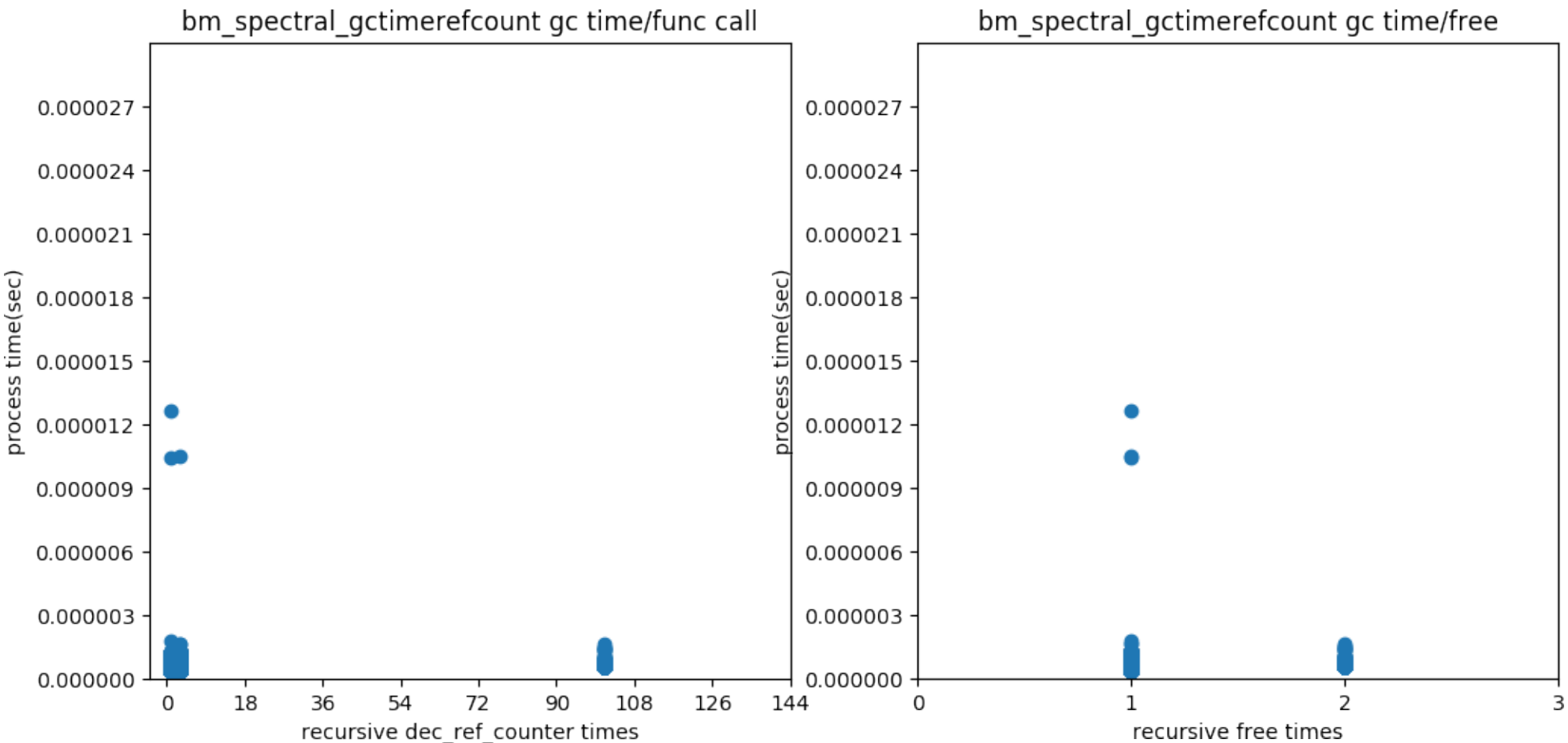

bm_spectral_gctime bitmap-marking-gc sweep time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
41
43
44
45
46
47
48
49
50
51
heap_size[kB]

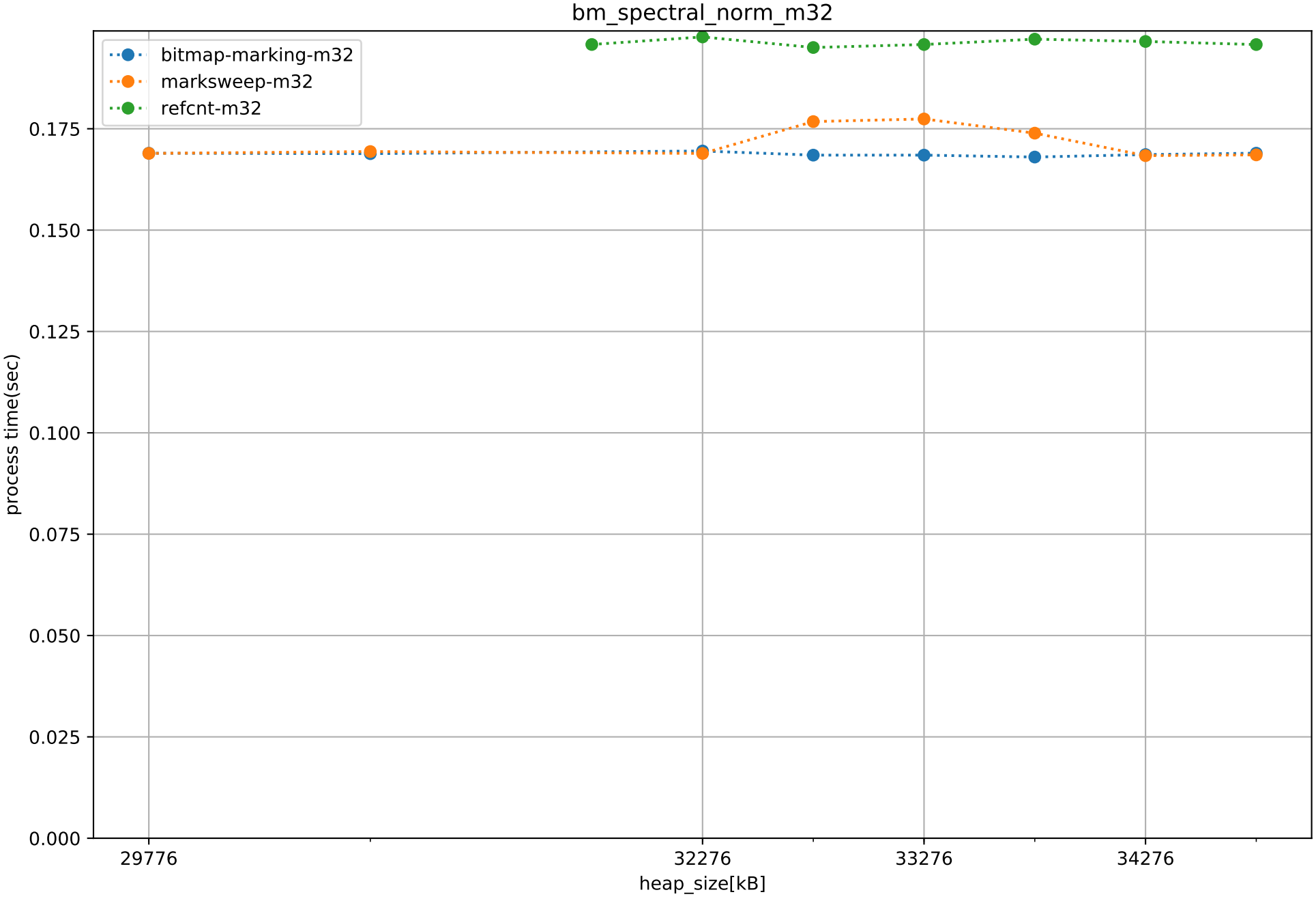
bm_spectral_gctime bitmap-marking-gc gc time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
41
43
44
45
46
47
48
49
50
51
heap_size[kB]

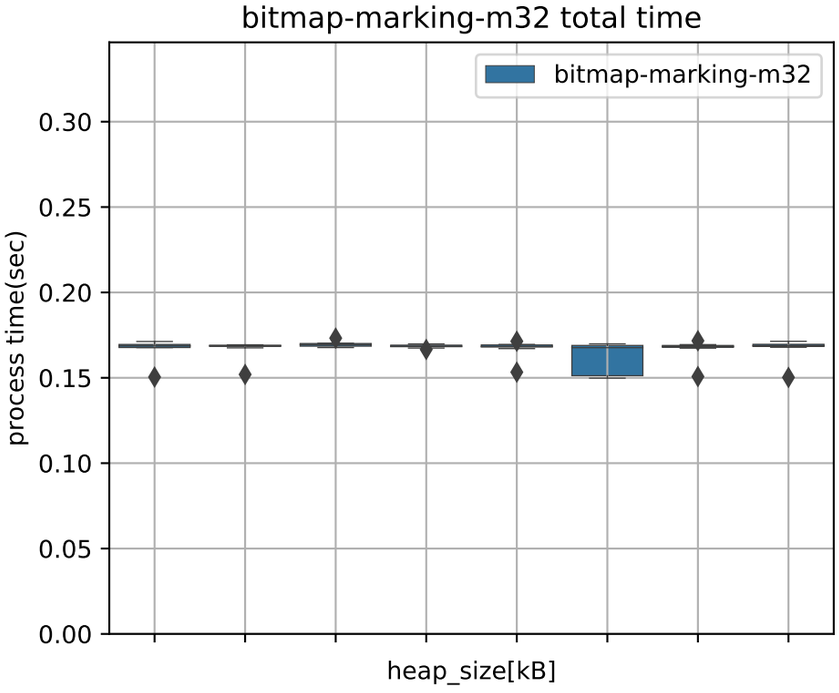

bm_spectral_gctime marksweep-measure-gc mark time
process time(sec)
0.0000081
0.0000072
0.0000063
0.0000054
0.0000045
0.0000036
0.0000027
0.0000018
0.0000009
0.0000000
41
43
44
45
46
47
48
49
50
51
heap_size[kB]

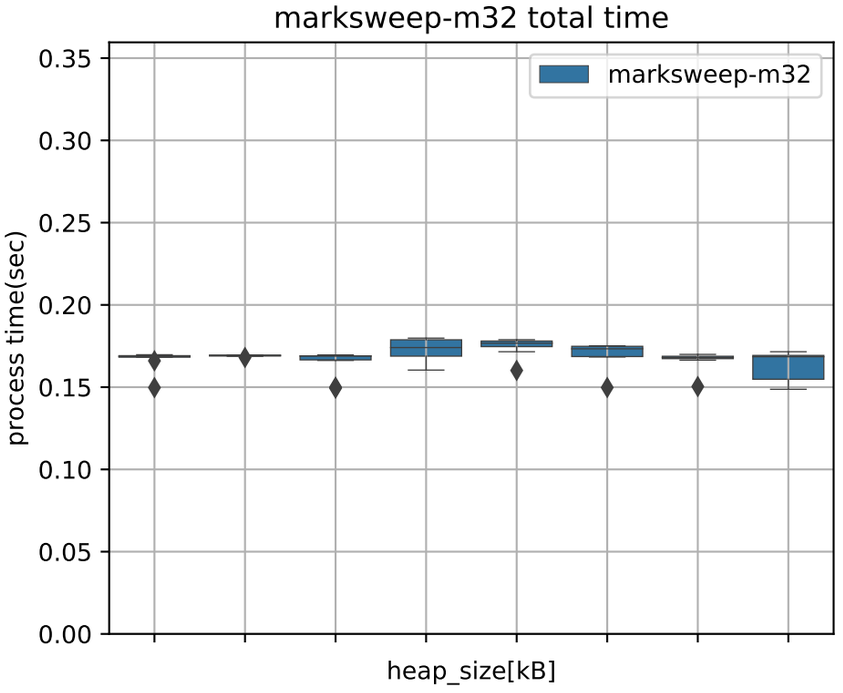

bm_spectral_gctime marksweep-measure-gc sweep time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
41
43
44
45
46
47
48
49
50
51
heap_size[kB]

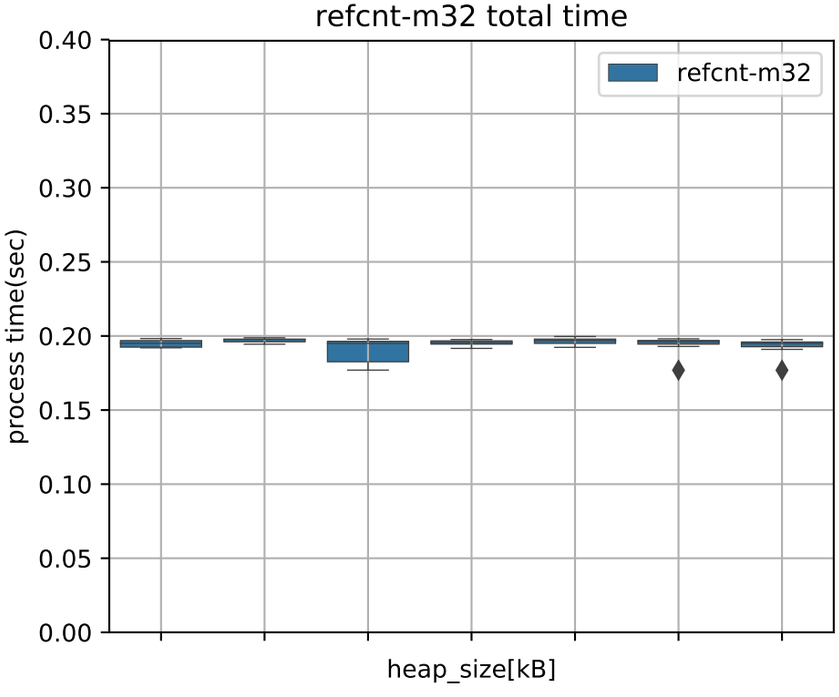
bm_spectral_gctime marksweep-measure-gc gc time
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
41
43
44
45
46
47
48
49
50
51
heap_size[kB]

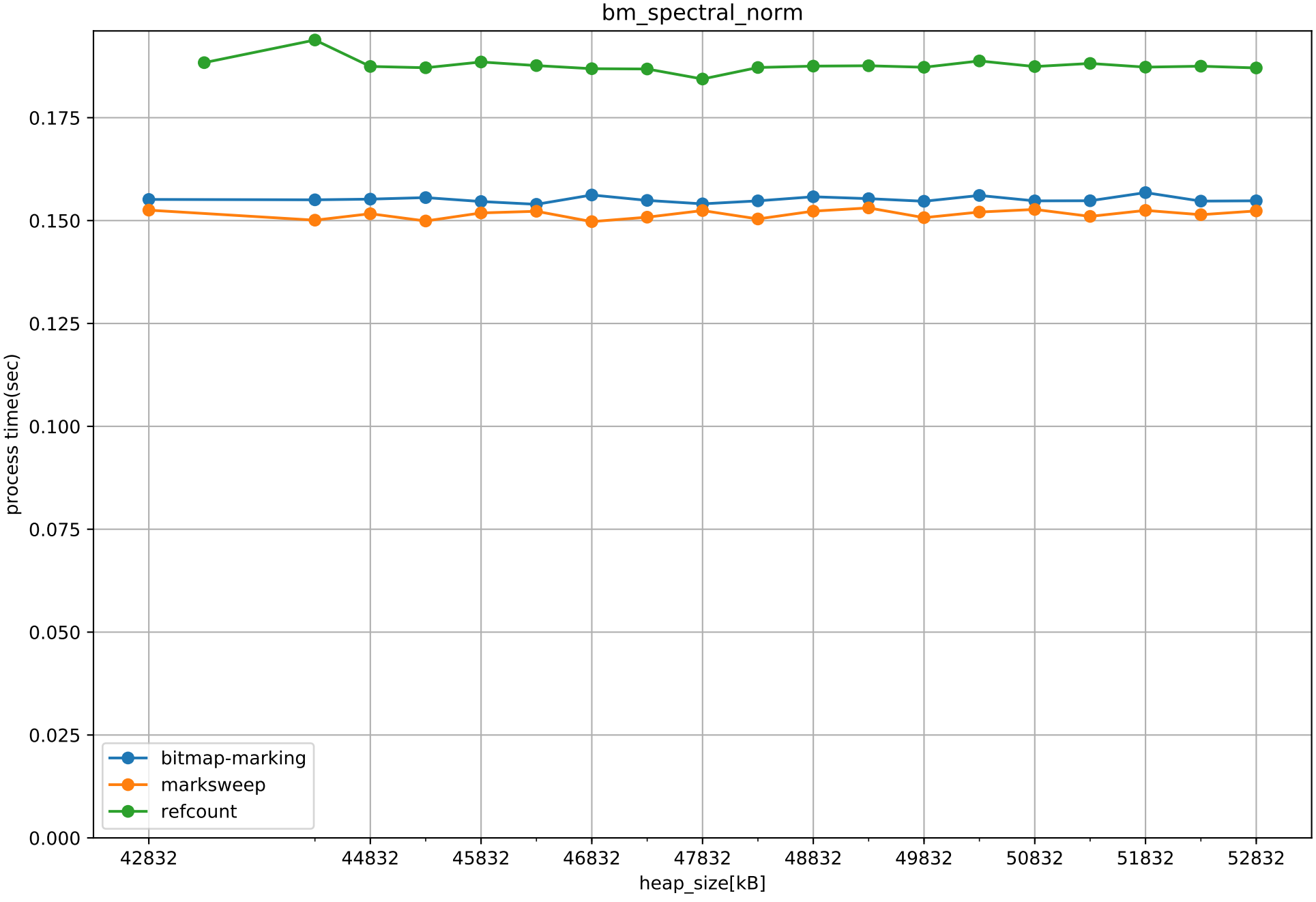

bm_spectral_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
18
36
54
72
90
108
126
144
recursive dec_ref_counter times
bm_spectral_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
1
2
3
recursive free times

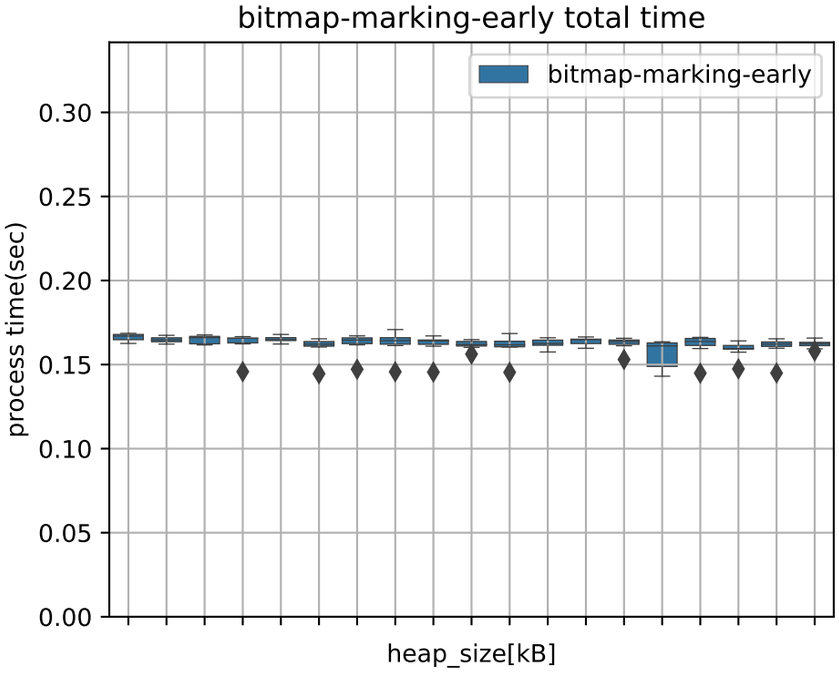

bm_spectral_norm_m32
bitmap-marking-m32
marksweep-m32
refcnt-m32
process time(sec)
0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
29776
32276
33276
34276
heap_size[kB]

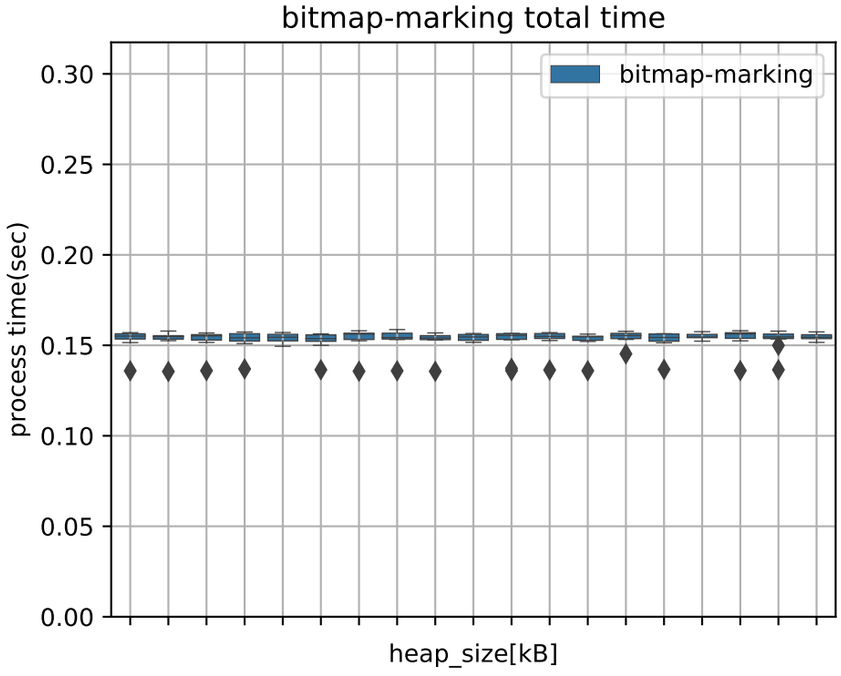

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
heap_size[kB]

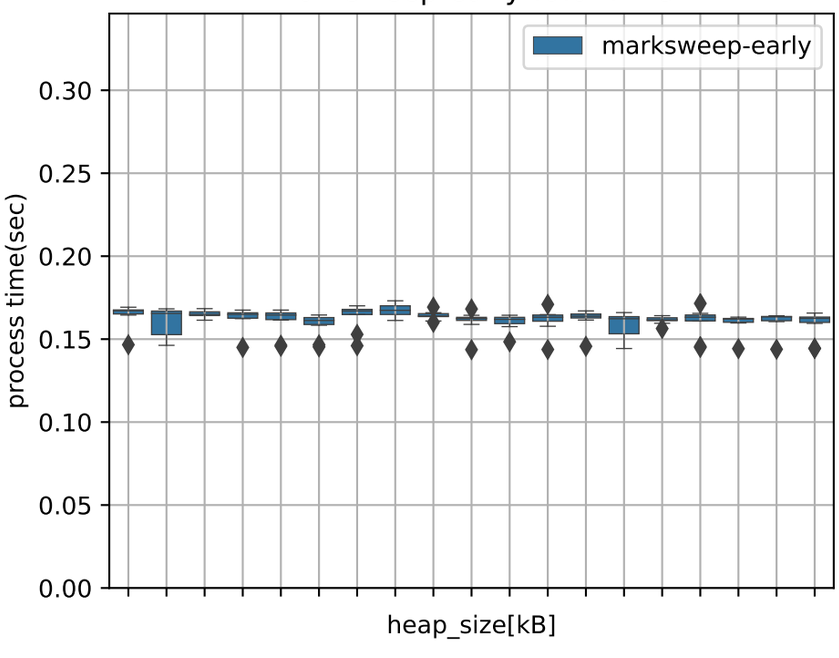

marksweep-m32 total time
marksweep-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
heap_size[kB]

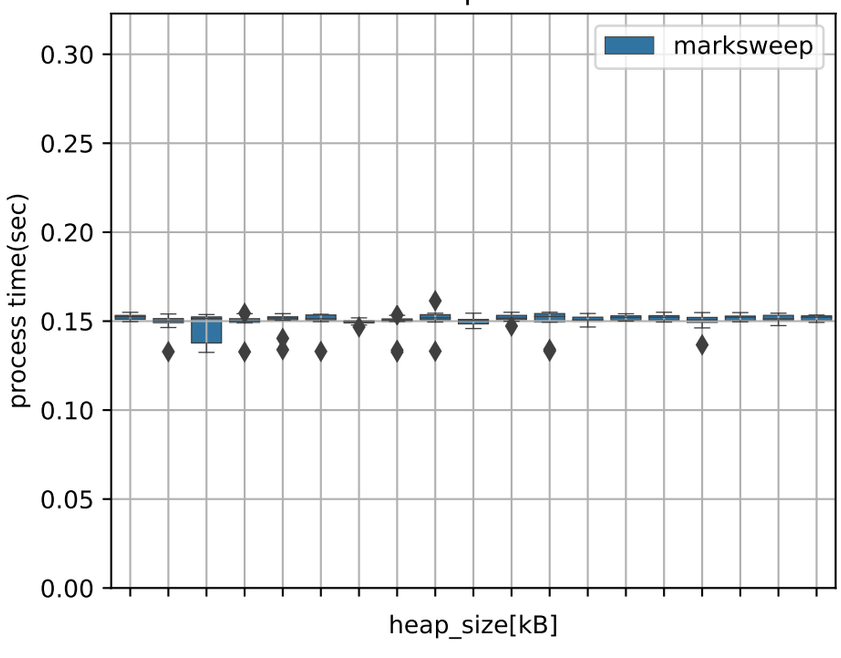

refcnt-m32 total time
refcnt-m32
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
heap_size[kB]

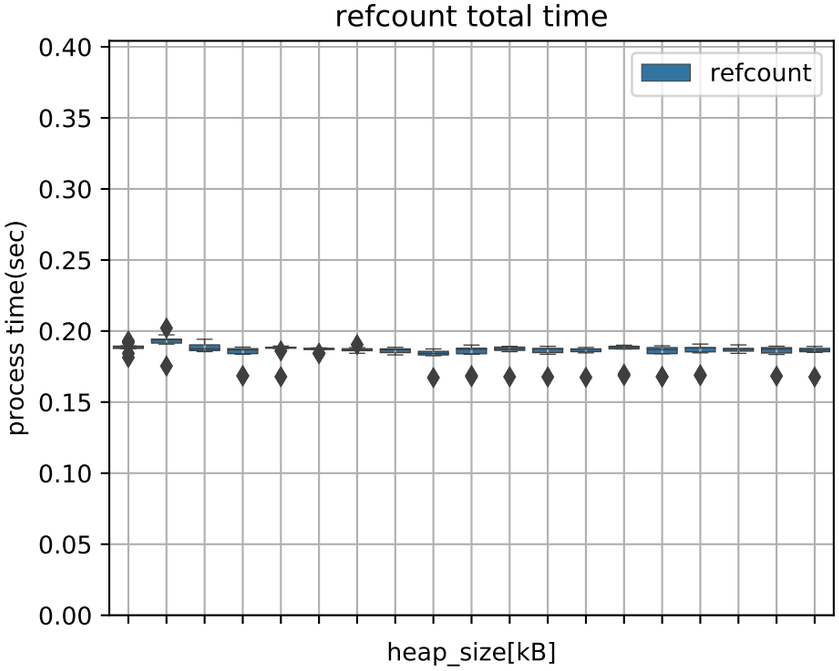

bm_spectral_norm
process time(sec)
0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
42832
44832
45832
46832
47832
48832
49832
50832
51832
52832
heap_size[kB]
bitmap-marking
marksweep
refcount

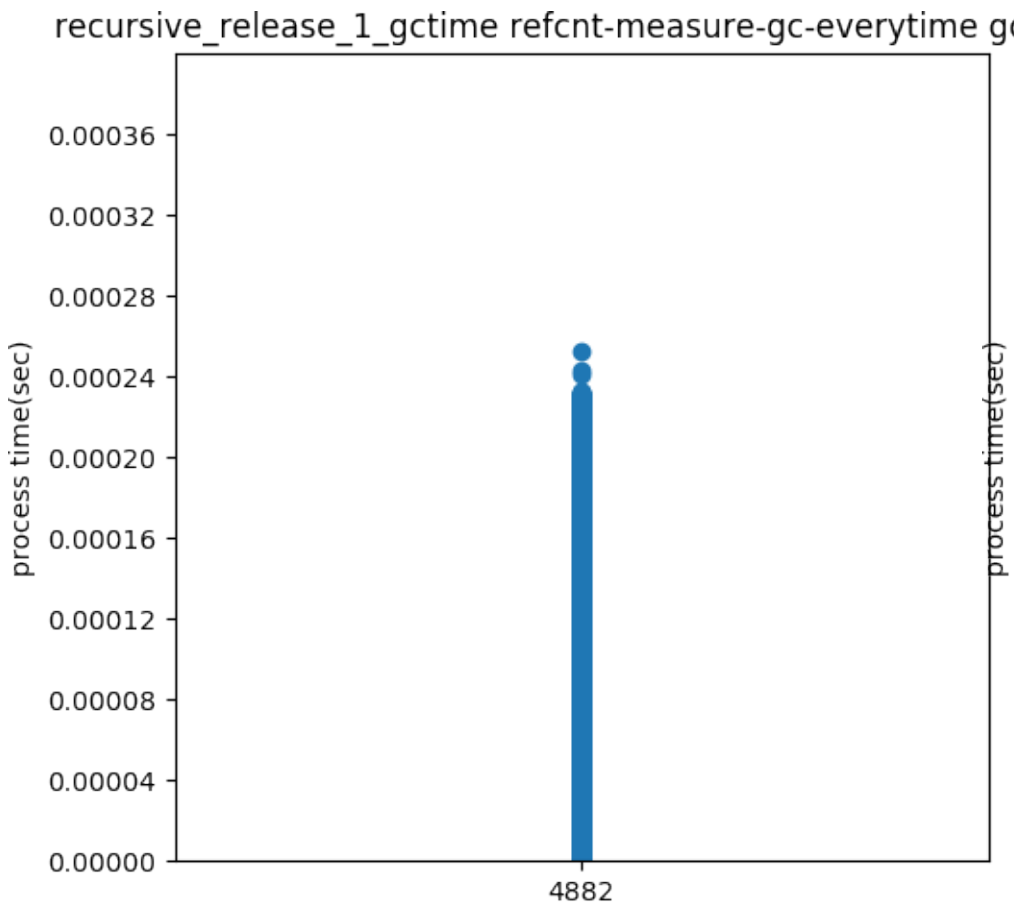

bitmap-marking-early total time
bitmap-marking-early
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
heap_size[kB]

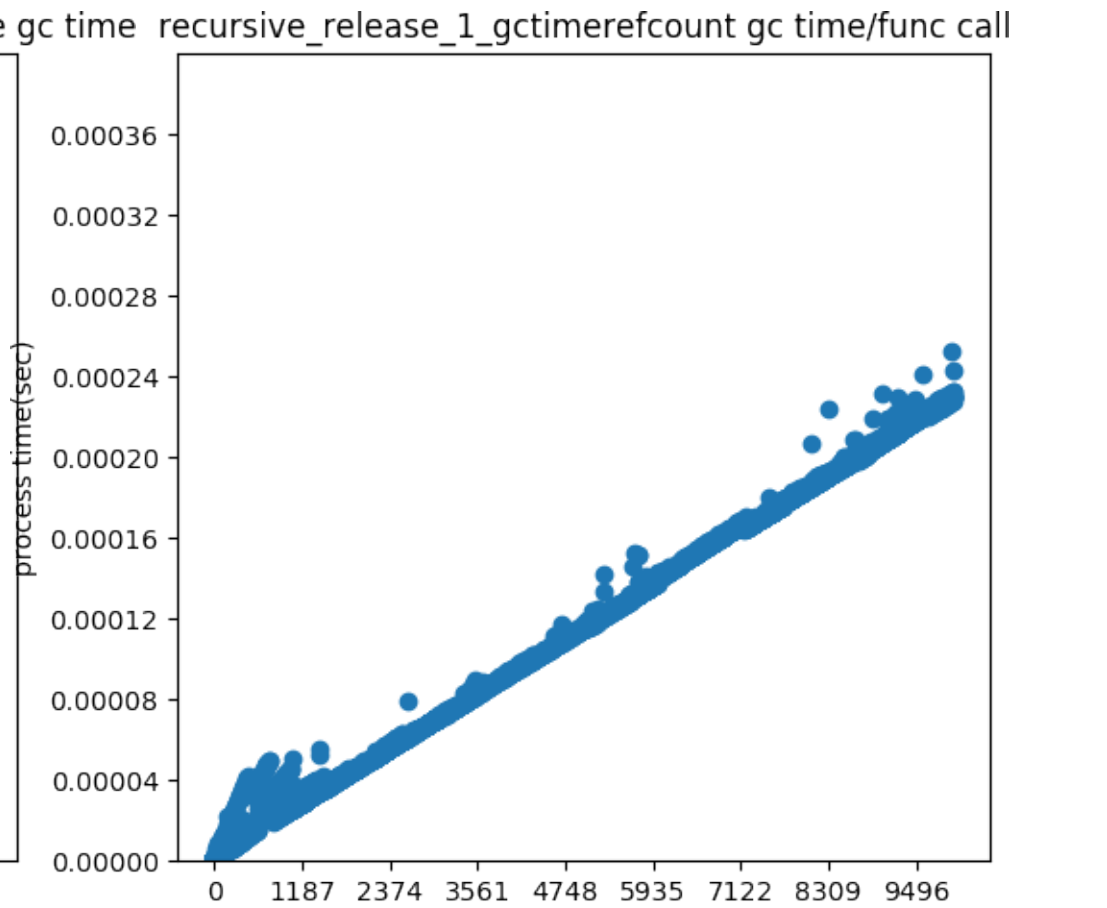

bitmap-marking total time
bitmap-marking
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
heap_size[kB]

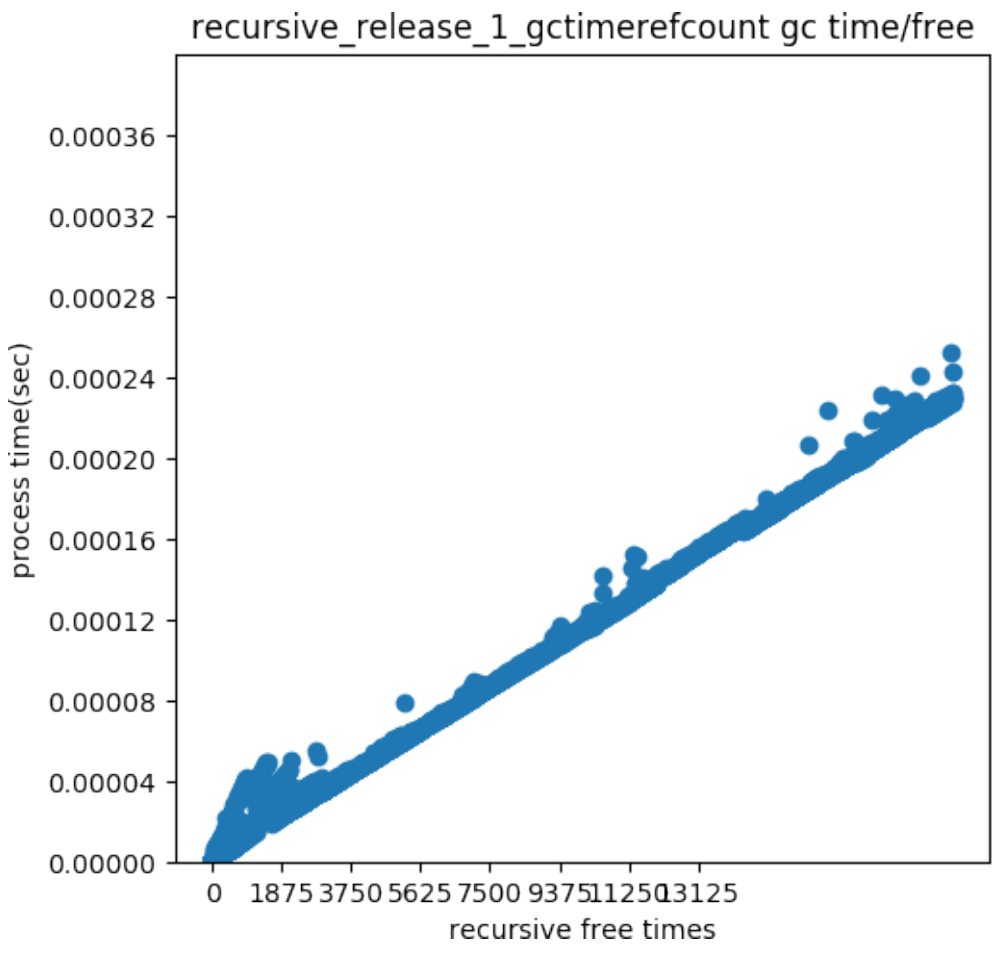

marksweep-early total time
marksweep-early
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
heap_size[kB]

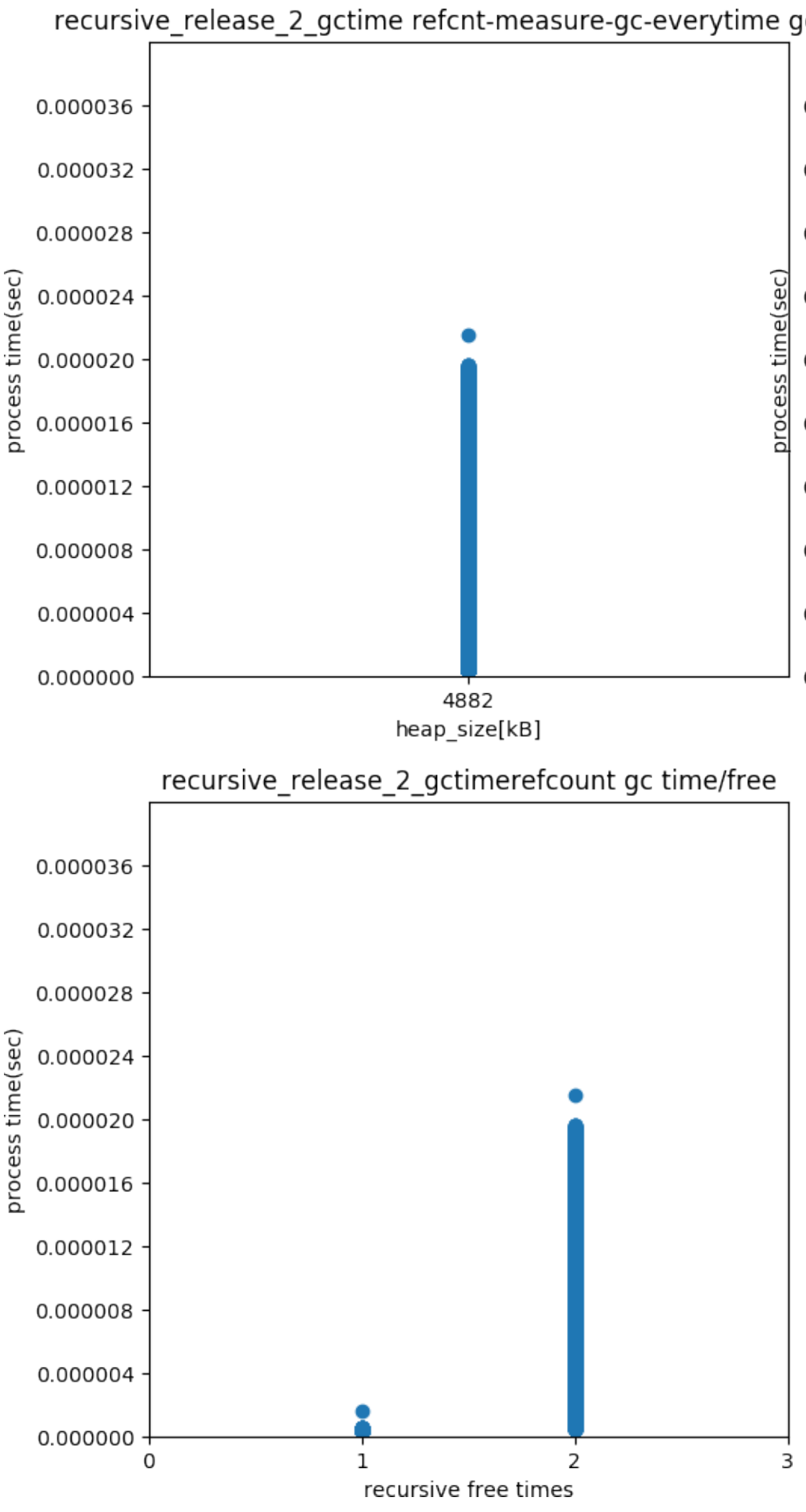

marksweep total time
marksweep
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
heap_size[kB]

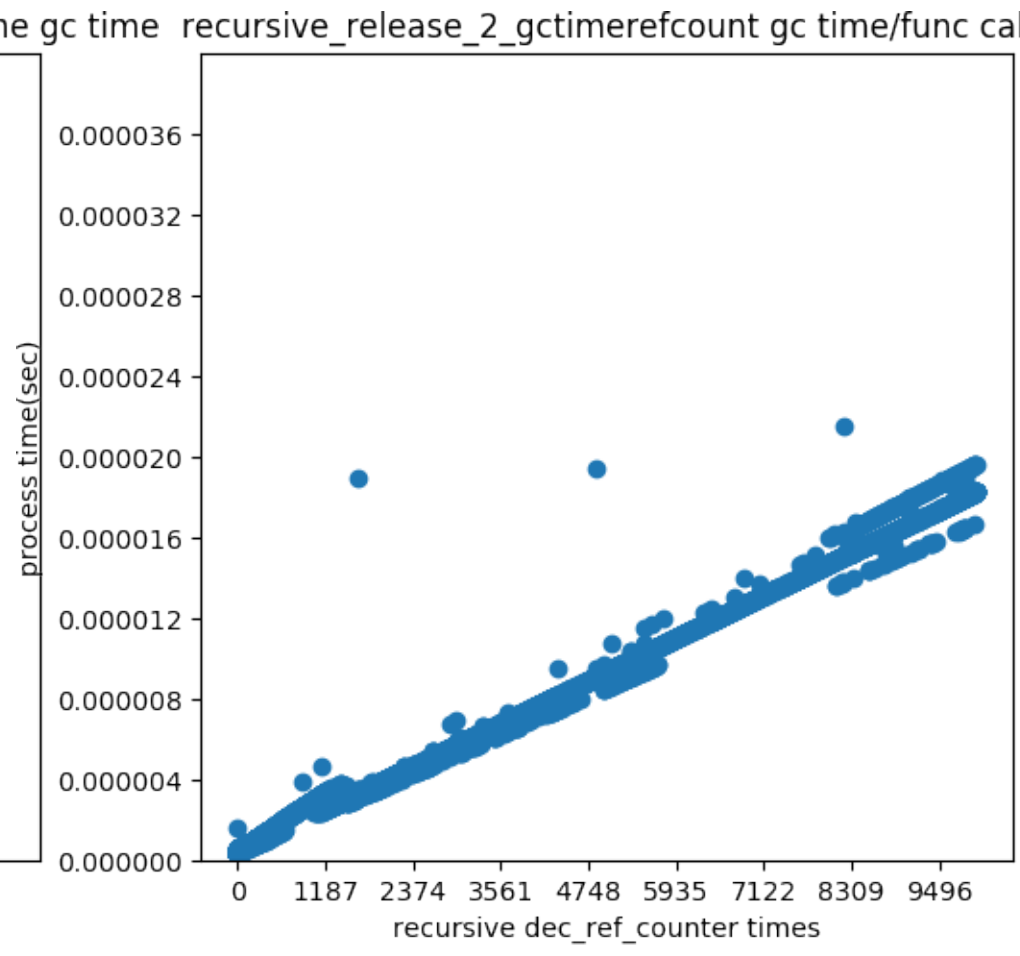

refcount total time
refcount
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.40
heap_size[kB]


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]

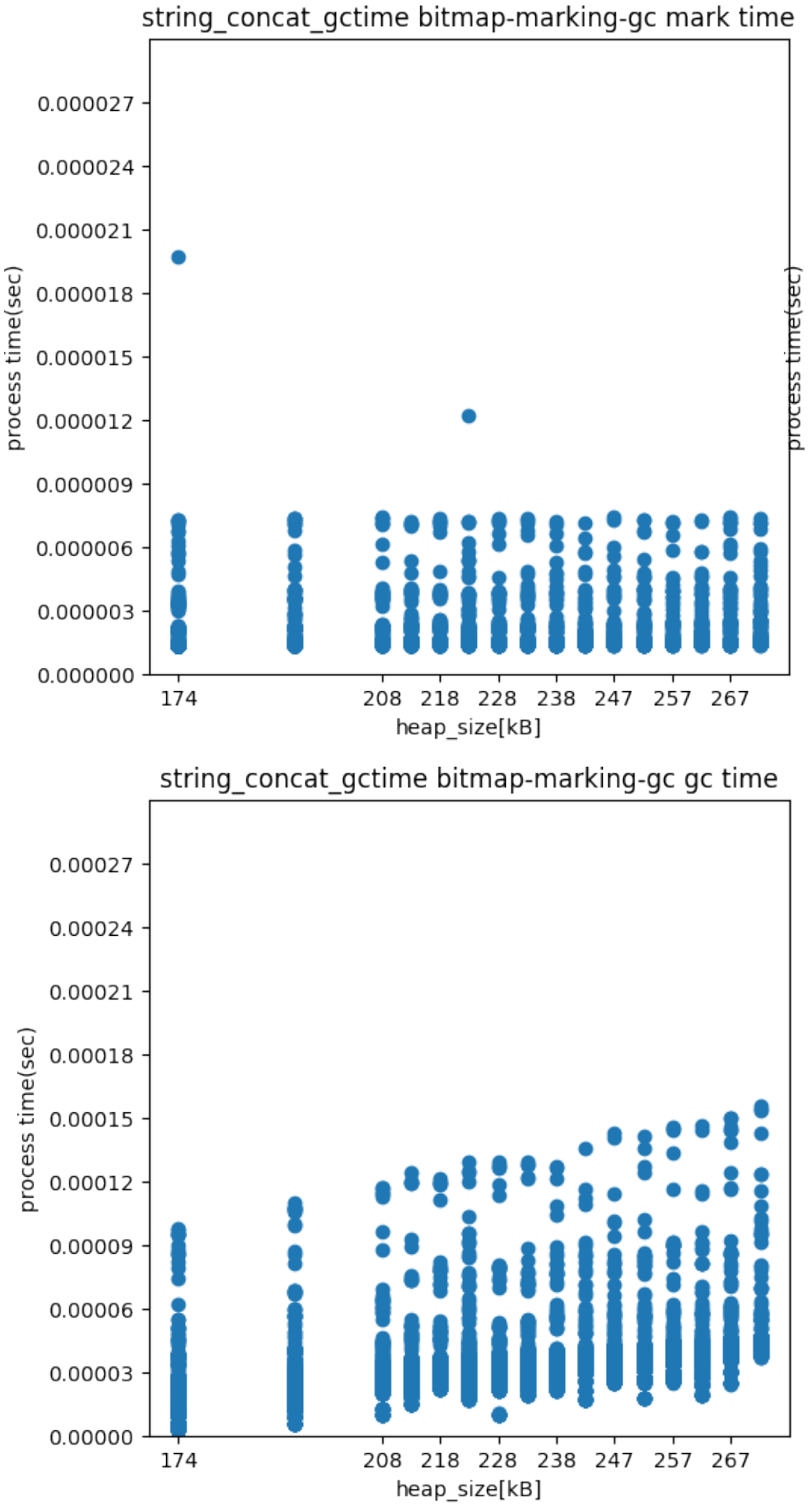

recursive_release_1_gctimerefcount gc time/func call
process time(sec)
0.00036
0.00032
0.00028
0.00024
0.00020
0.00016
0.00012
0.00008
0.00004
0.00000
0 1187 2374 3561 4748 5935 7122 8309 9496
recursive dec_ref_counter times

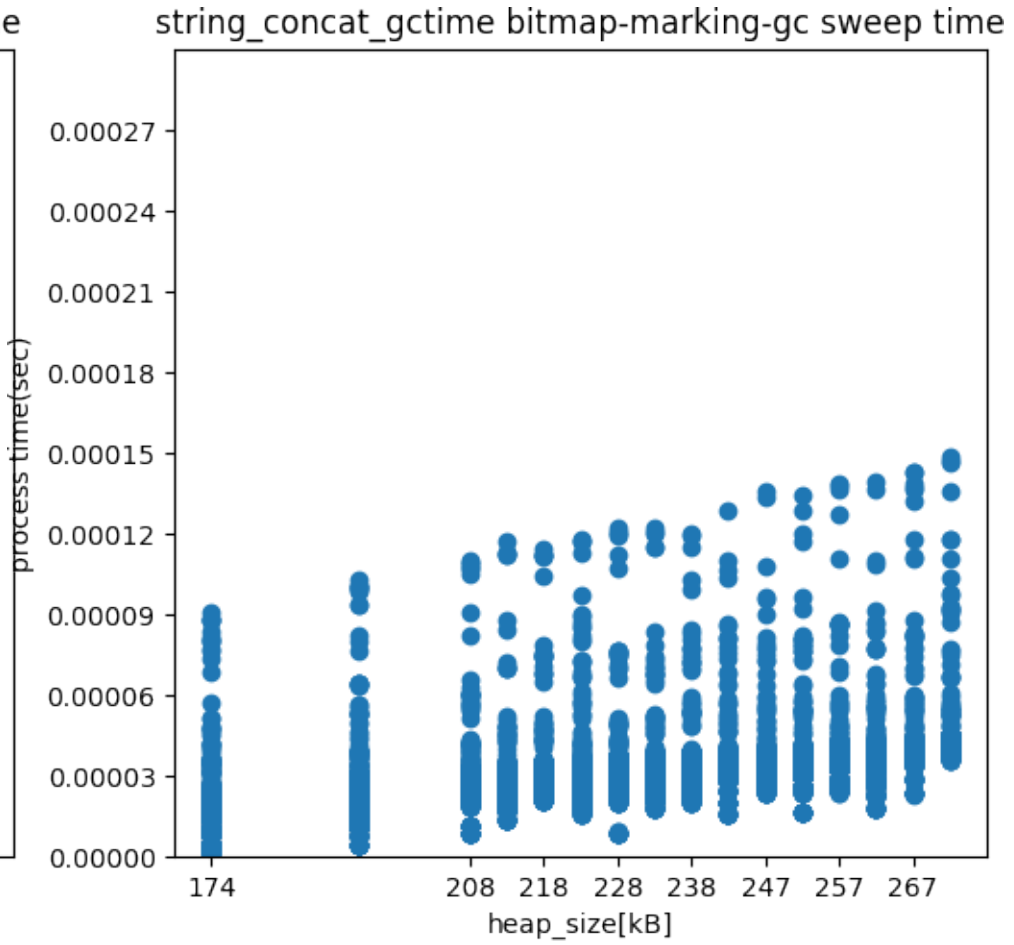

recursive_release_1_gctimerefcount gc time/free
process time(sec)
0.00036
0.00032
0.00028
0.00024
0.00020
0.00016
0.00012
0.00008
0.00004
0.00000
0 1875 3750 5625 7500 9375 11250 13125
recursive free times


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]

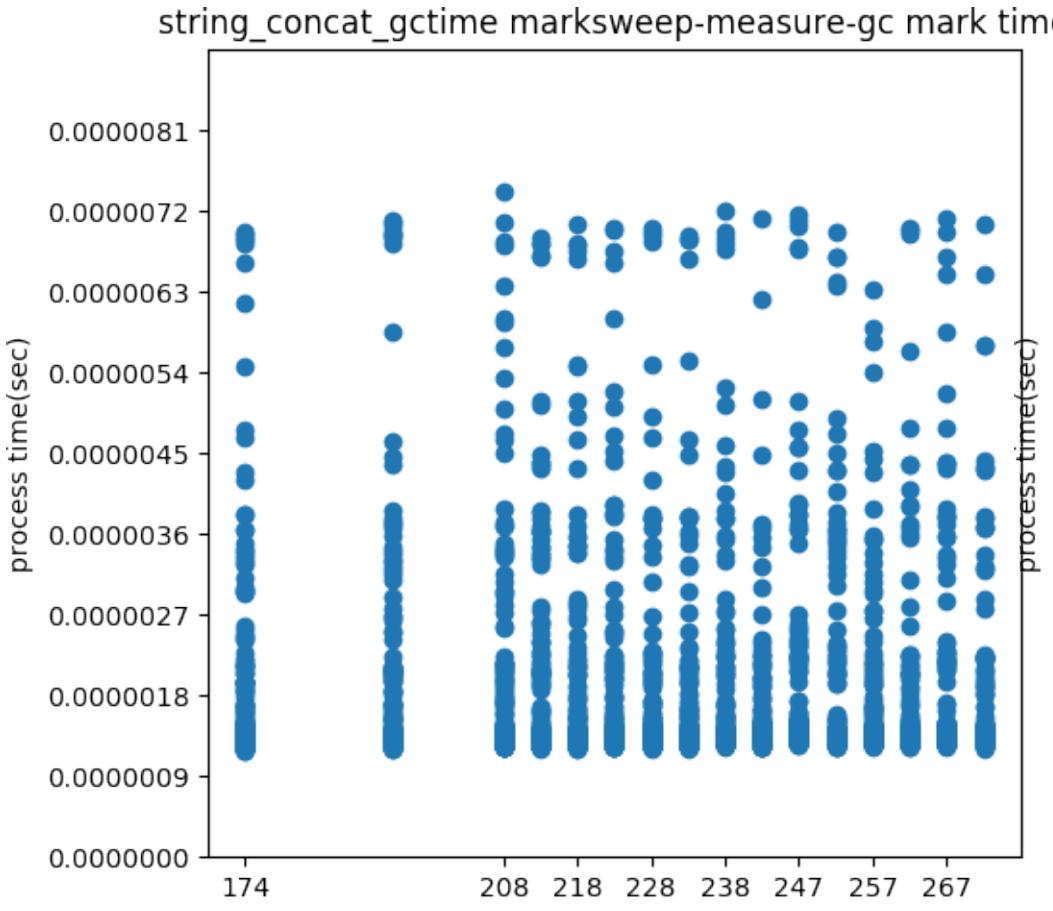

recursive_release_2_gctimerefcount gc time/func call
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
0
1187
2374
3561
4748
5935
7122
8309
9496
recursive dec_ref_counter times

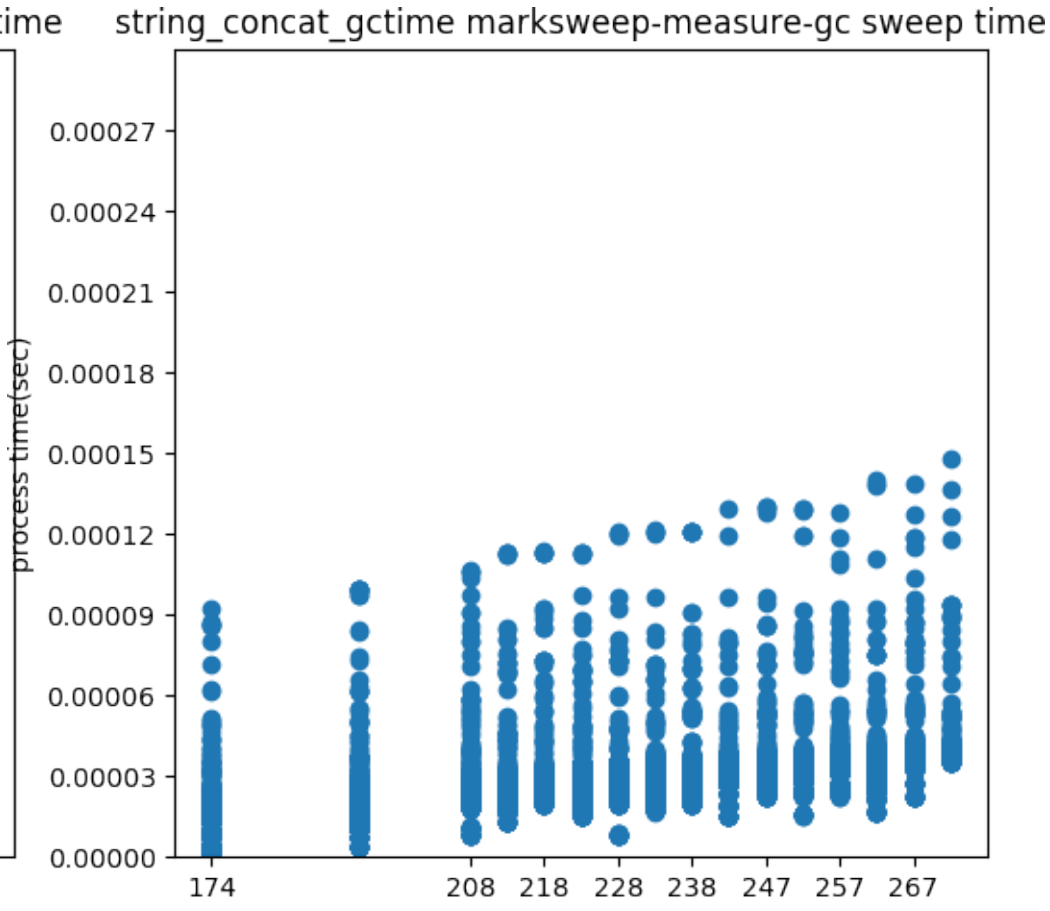
recursive_release_2_gctimerefcount gc time/free
process time(sec)
0.000036
0.000032
0.000028
0.000024
0.000020
0.000016
0.000012
0.000008
0.000004
0.000000
0
1
2
3
recursive free times

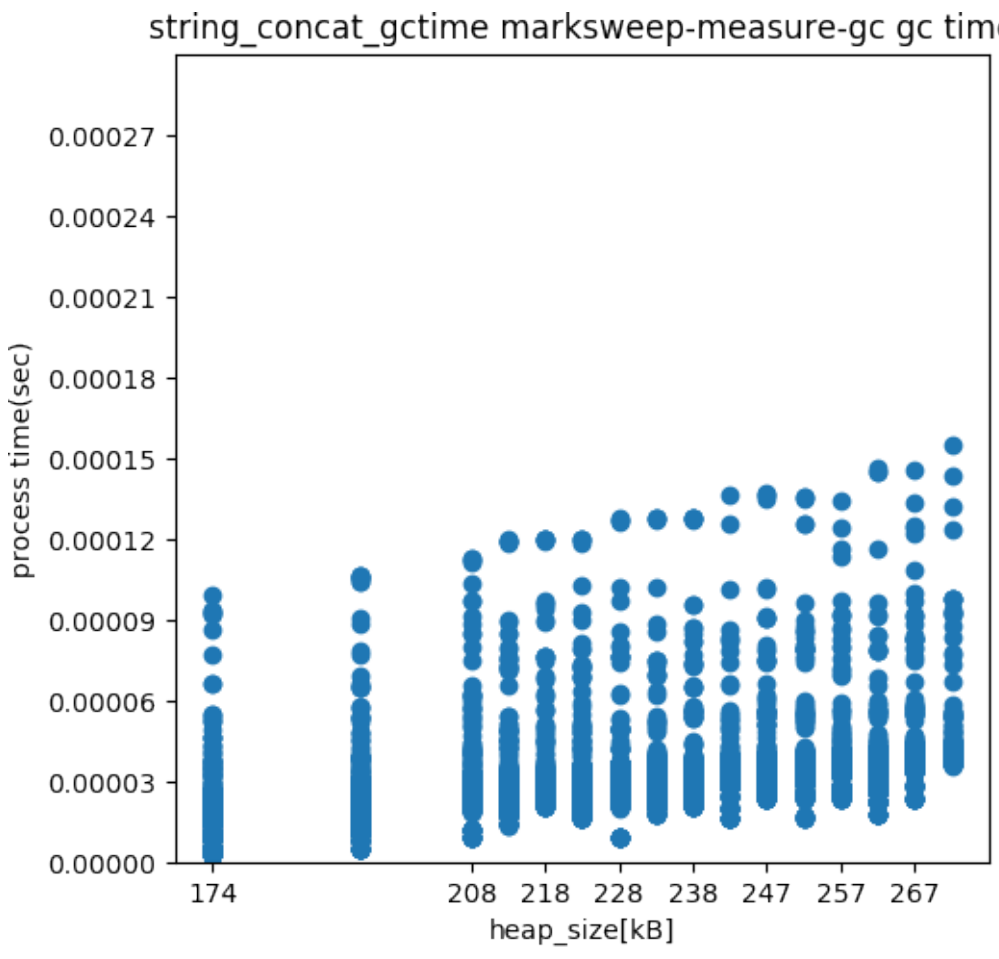

string_concat_gctime bitmap-marking-gc mark time
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
174
208
218
228
238
247
257
267
heap_size[kB]

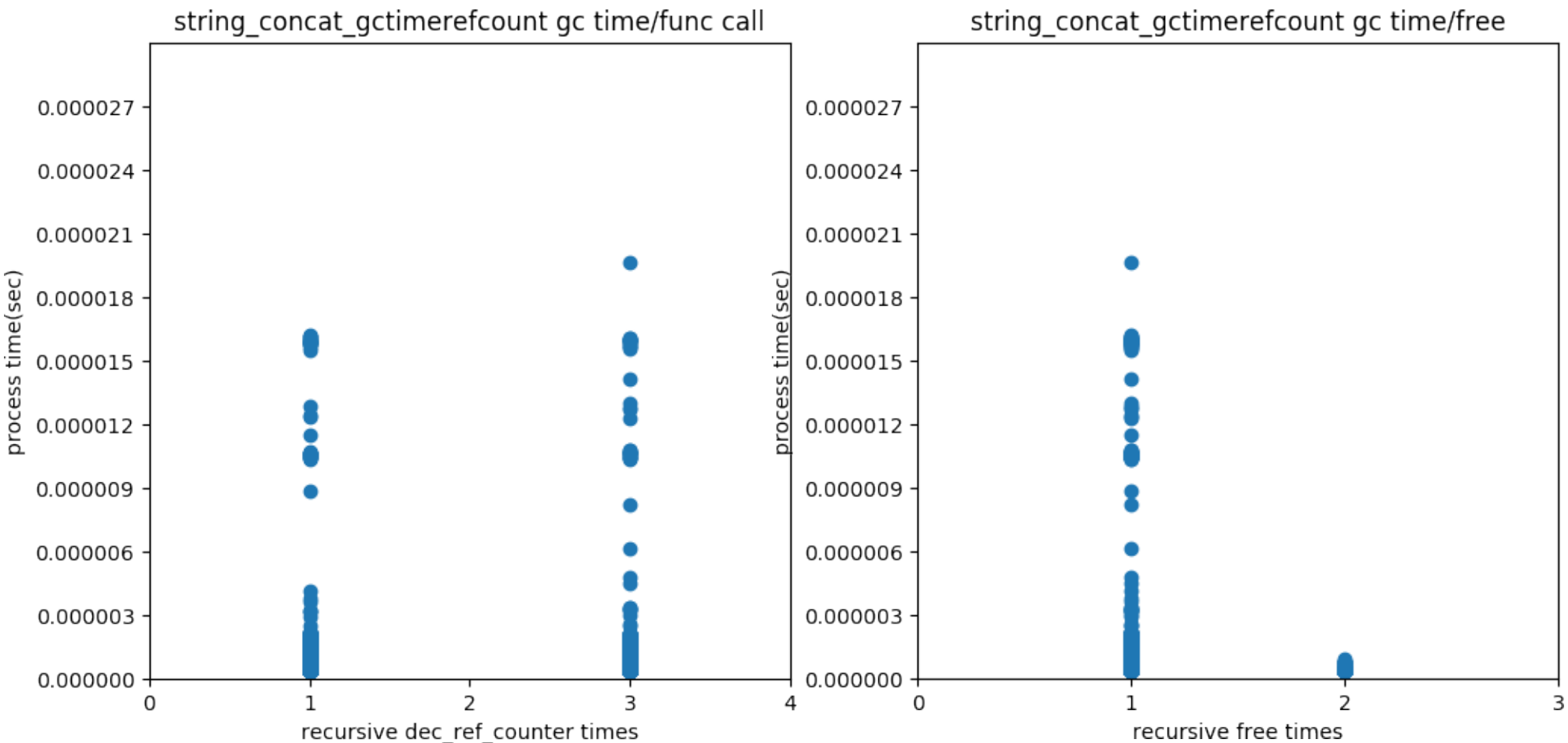

string_concat_gctime bitmap-marking-gc sweep time
process time(sec)
0.00027
0.00024
0.00021
0.00018
0.00015
0.00012
0.00009
0.00006
0.00003
0.00000
174
208
218
228
238
247
257
267
heap_size[kB]

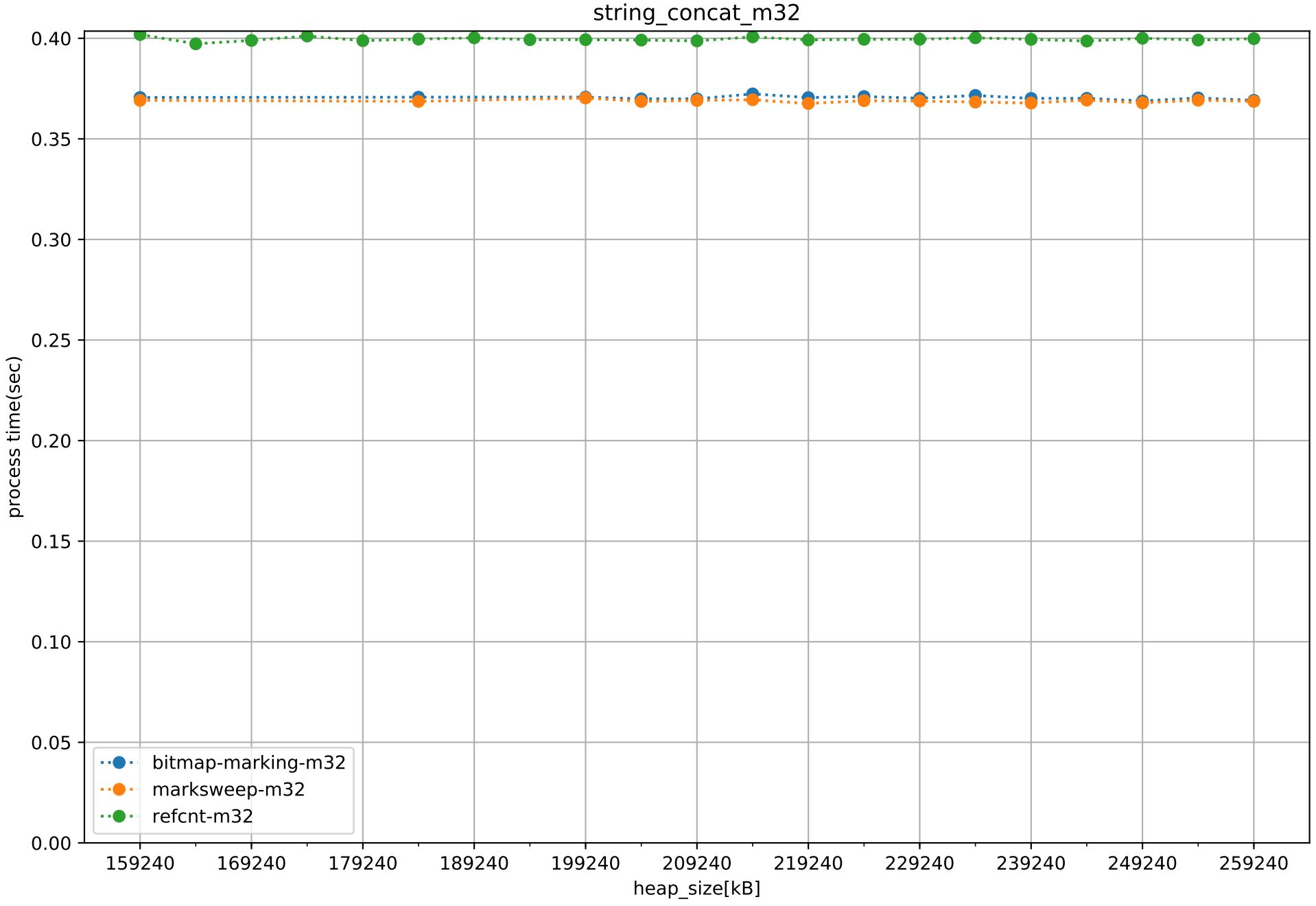
string_concat_gctime bitmap-marking-gc gc time
process time(sec)
0.00027
0.00024
0.00021
0.00018
0.00015
0.00012
0.00009
0.00006
0.00003
0.00000
174
208
218
228
238
247
257
267
heap_size[kB]

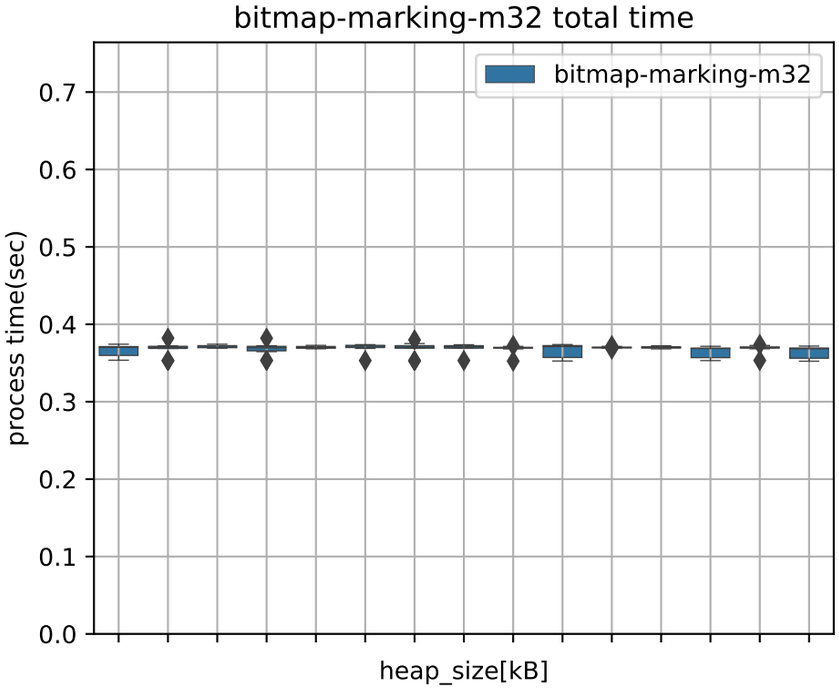

string_concat_gctime marksweep-measure-gc mark time
process time(sec)
0.0000081
0.0000072
0.0000063
0.0000054
0.0000045
0.0000036
0.0000027
0.0000018
0.0000009
0.0000000
174
208 218 228 238 247 257 267
heap_size[kB]

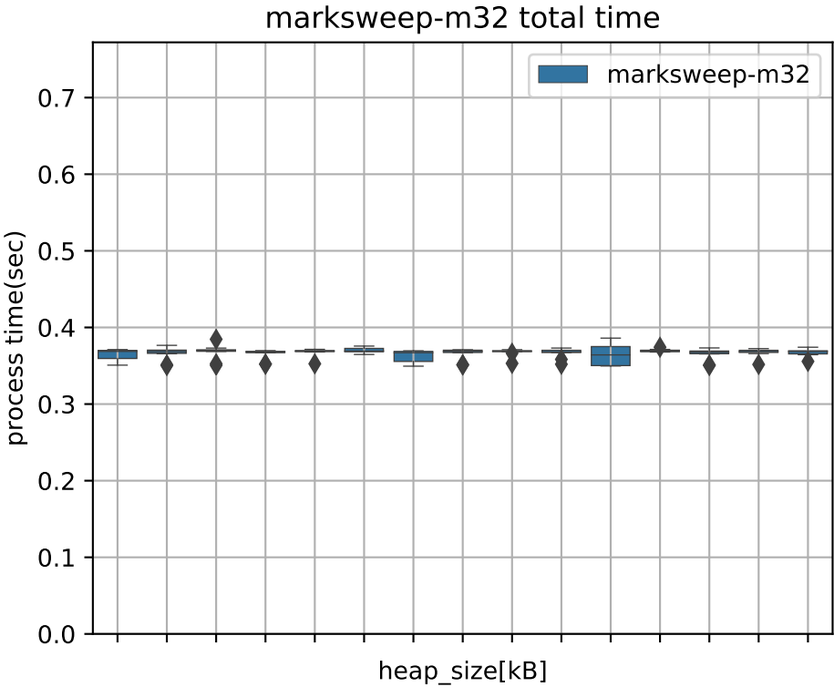

string_concat_gctime marksweep-measure-gc sweep time
process time(sec)
0.00027
0.00024
0.00021
0.00018
0.00015
0.00012
0.00009
0.00006
0.00003
0.00000
174
208 218 228 238 247 257 267
heap_size[kB]

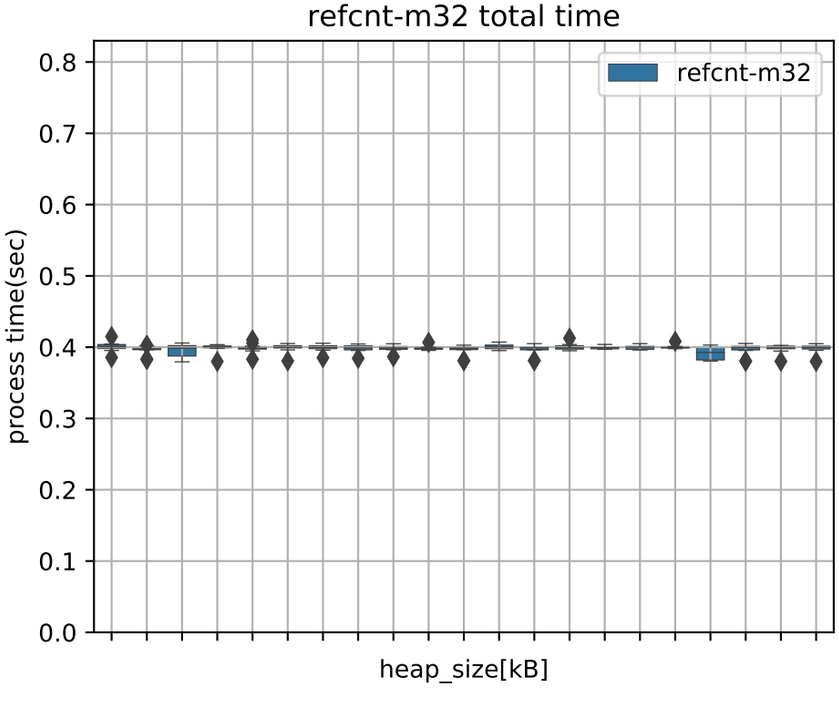

string_concat_gctime marksweep-measure-gc gc time
process time(sec)
0.00027
0.00024
0.00021
0.00018
0.00015
0.00012
0.00009
0.00006
0.00003
0.00000
174
208 218 228 238 247 257 267
heap_size[kB]

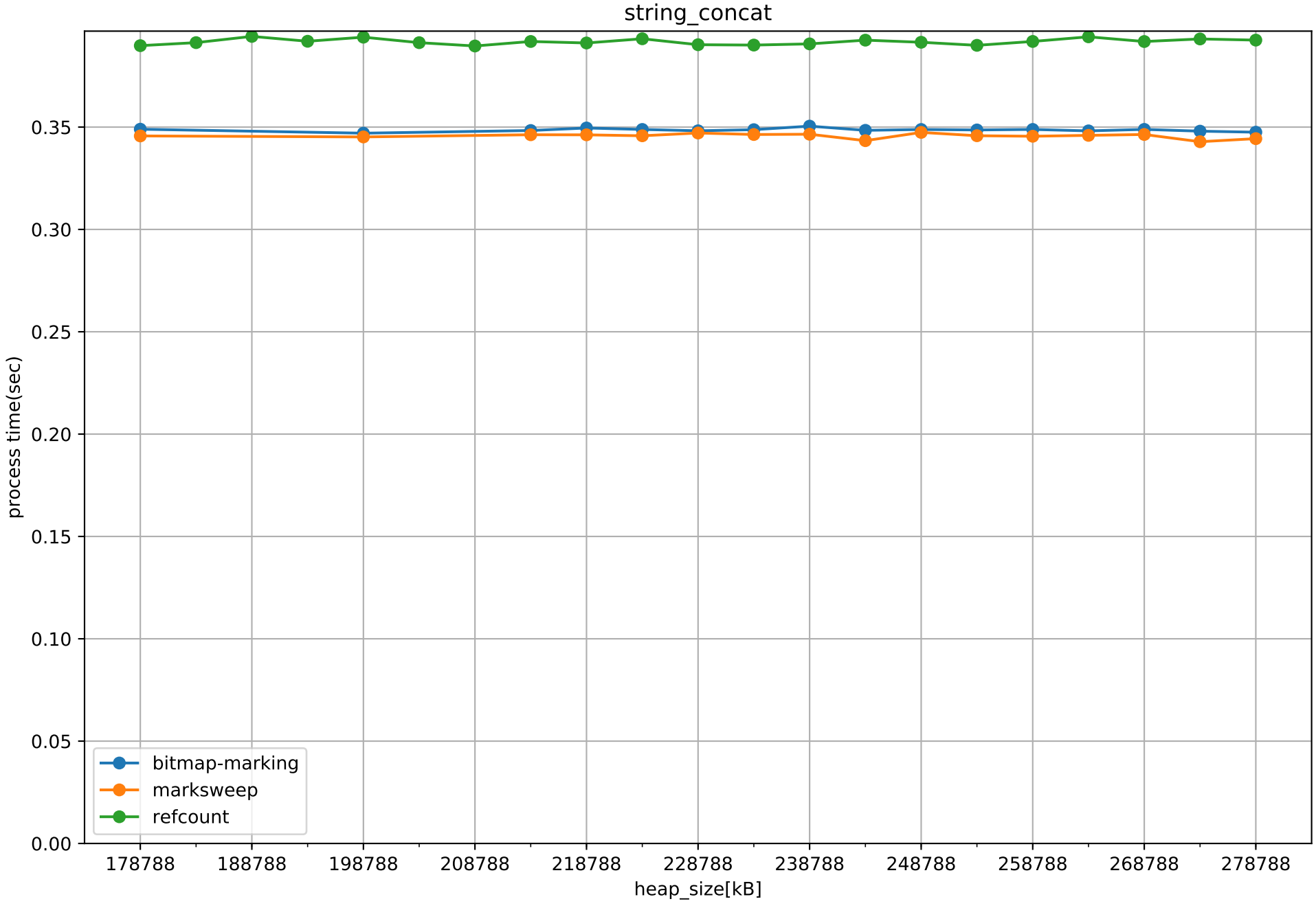

string_concat_gctimerefcount gc time/func call
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015
0.000012
0.000009
0.000006
0.000003
0.000000
0
1
2
3
4
recursive dec_ref_counter times
string_concat_gctimerefcount gc time/free
process time(sec)
0.000027
0.000024
0.000021
0.000018
0.000015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

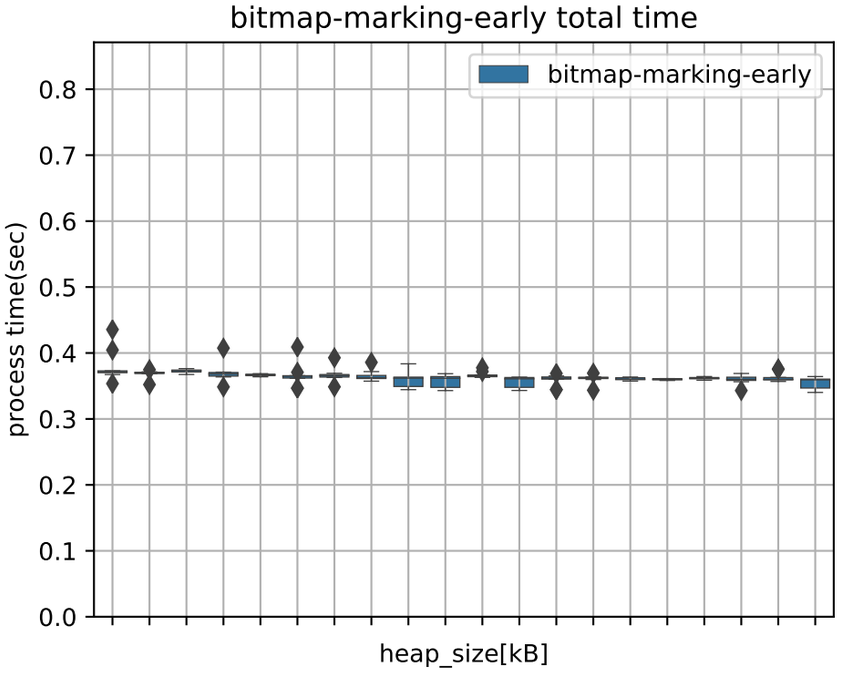

string_concat_m32
process time(sec)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
159240
169240
179240
189240
199240
209240
219240
229240
239240
249240
259240
heap_size[kB]
bitmap-marking-m32
marksweep-m32
refcnt-m32

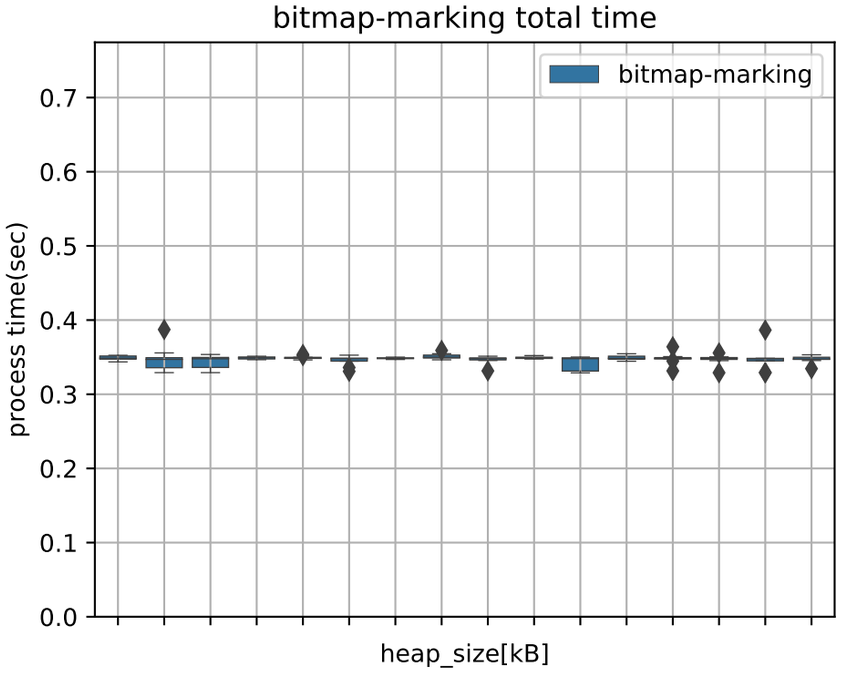

bitmap-marking-m32 total time
bitmap-marking-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
heap_size[kB]

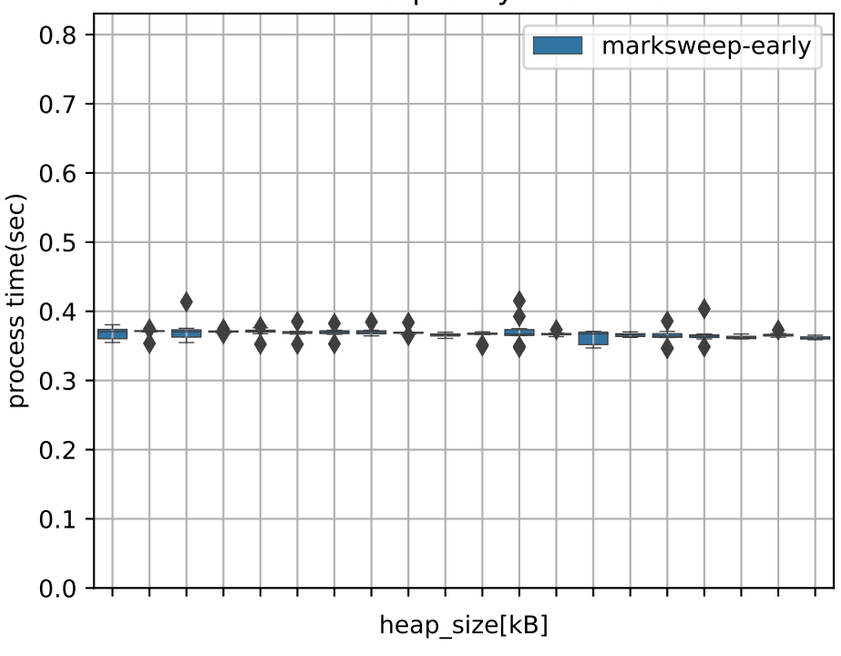

marksweep-m32 total time
marksweep-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
heap_size[kB]

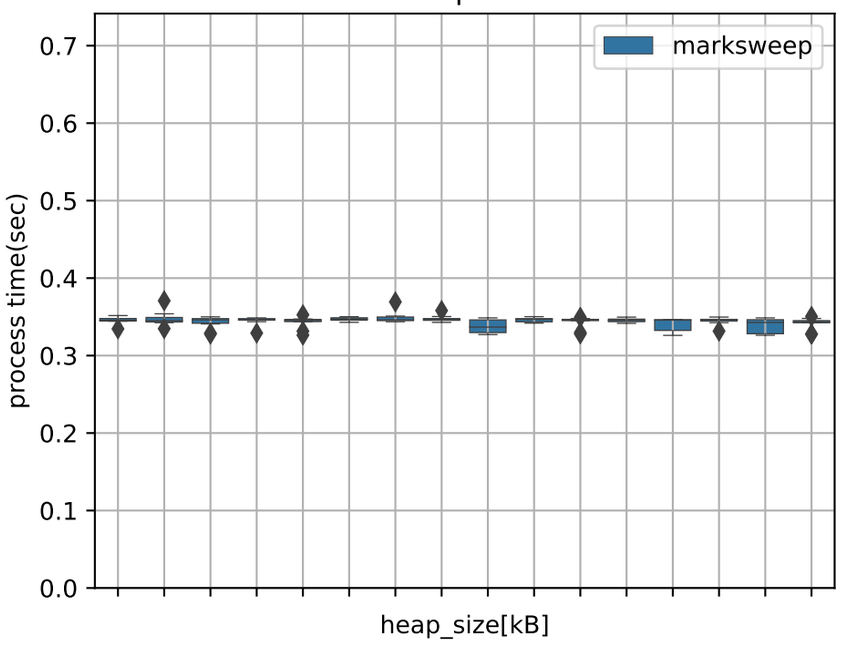

refcnt-m32 total time
refcnt-m32
process time(sec)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
heap_size[kB]

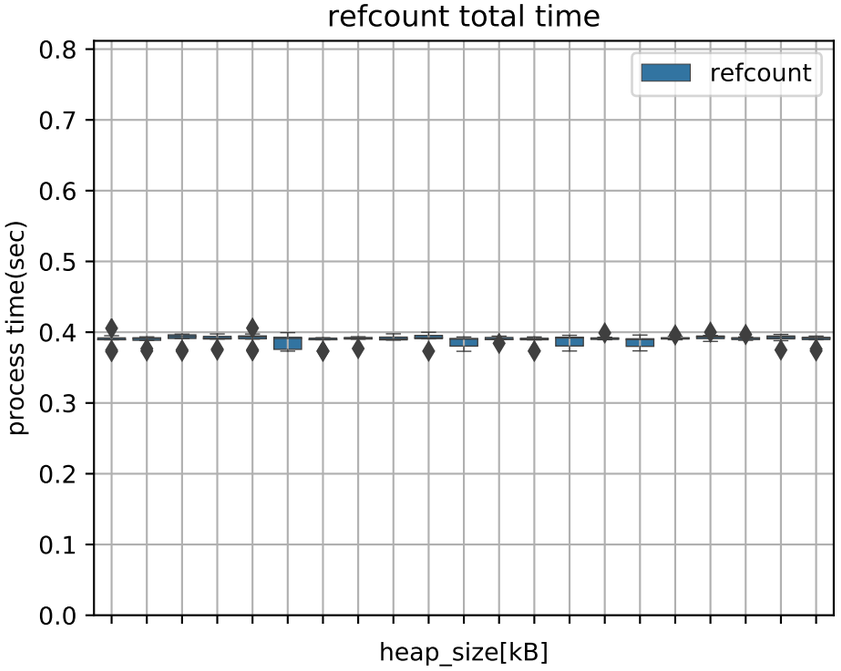

string_concat
process time(sec)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
178788
188788
198788
208788
218788
228788
238788
248788
258788
268788
278788
heap_size[kB]
bitmap-marking
marksweep
refcount


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]