

The result:

```
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p FIFO 512
32 106409203 106179015 230188
valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p FIFO
512 32 71516662 71502337 14325
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p FIFO 512
32 71516662 71502337 14325
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p LRU 512
32 106426201 106211333 214868
valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p LRU
512 32 71530057 71513566 16491
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p LRU 512
32 71530057 71513566 16491
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p FIFO
512 32 1299229856 1294556617 4673239
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p FIFO
512 32 840119884 839956866 163018
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p FIFO
512 32 840119884 839956866 163018
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p LRU
512 32 1299166867 1294933798 4233069
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p LRU
512 32 840128673 839930611 198062
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p LRU
512 32 840128673 839930611 198062
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p FIFO
512 32 227046230 226440354 605876
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p FIFO
512 32 150574103 150546476 27627
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p FIFO
512 32 150574103 150546476 27627
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p LRU
512 32 227039777 226491766 548011
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p LRU
512 32 150579685 150546702 32983
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p LRU
512 32 150579685 150546702 32983
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p FIFO 512
128 106420355 106356647 63708
valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p FIFO
512 128 71522974 71515986 6988
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p FIFO 512
128 71522974 71515986 6988
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p LRU 512
128 106420234 106356828 63406
```

```
valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p LRU
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valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p LRU 512
128 71519154 71509755 9399
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p FIFO
512 128 1299147187 1296273980 2873207
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p FIFO
512 128 840126782 840017821 108961
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p FIFO
512 128 840126782 840017821 108961
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p LRU
512 128 1299295767 1296684788 2610979
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p LRU
512 128 840140080 839994859 145221
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p LRU
512 128 840140080 839994859 145221
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p FIFO
512 128 227026131 226769502 256629
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p FIFO
512 128 150575137 150559075 16062
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p FIFO
512 128 150575137 150559075 16062
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p LRU
512 128 227058683 226821711 236972
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p LRU
512 128 150577686 150556220 21466
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p LRU
512 128 150577686 150556220 21466
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p FIFO 512
512 106443649 106442591 1058
valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p FIFO
512 512 71525022 71521768 3254
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p FIFO 512
512 71525022 71521768 3254
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p LRU 512
512 106434441 106432131 2310
valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p LRU
512 512 71521322 71516090 5232
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p LRU 512
512 71521322 71516090 5232
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p FIFO
512 512 1299238711 1297792004 1446707
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p FIFO
512 512 840145132 840069991 75141
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p FIFO
512 512 840145132 840069991 75141
```

```
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p LRU
512 512 1299262318 1297909346 1352972
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p LRU
512 512 840146339 840038724 107615
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p LRU
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512 512 150585333 150576344 8989
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p FIFO
512 512 150585333 150576344 8989
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p LRU
512 512 226984222 226944500 39722
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p LRU
512 512 150579299 150565775 13524
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p LRU
512 512 150579299 150565775 13524
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p FIFO
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valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p FIFO
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valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p FIFO
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valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p LRU
4096 32 106316179 106295859 20320
valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p LRU
4096 32 71410212 71408889 1323
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p LRU
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valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p FIFO
4096 32 838919575 838905620 13955
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p LRU
4096 32 1298352712 1296255379 2097333
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p LRU
4096 32 838919010 838901017 17993
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p LRU
4096 32 838919010 838901017 17993
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p FIFO
4096 32 226830177 226679386 150791
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p FIFO
4096 32 150333862 150331631 2231
```

```
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p FIFO
4096 32 150333862 150331631 2231
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p LRU
4096 32 226876051 226741301 134750
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p LRU
4096 32 150331251 150328552 2699
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p LRU
4096 32 150331251 150328552 2699
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p FIFO
4096 128 106304040 106303842 198
valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p FIFO
4096 128 71405524 71405272 252
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p FIFO
4096 128 71405524 71405272 252
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p LRU
4096 128 106305017 106304776 241
valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p LRU
4096 128 71399693 71399194 499
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p LRU
4096 128 71399693 71399194 499
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p FIFO
4096 128 1298281601 1297475647 805954
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p FIFO
4096 128 838921252 838913607 7645
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p FIFO
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valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p LRU
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valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p LRU
4096 128 838899531 838888088 11443
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p LRU
4096 128 838899531 838888088 11443
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p FIFO
4096 128 226831509 226831257 252
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p FIFO
4096 128 150332586 150331768 818
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p FIFO
4096 128 150332586 150331768 818
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p LRU
4096 128 226828860 226828241 619
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p LRU
4096 128 150327667 150326294 1373
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p LRU
4096 128 150327667 150326294 1373
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p FIFO
4096 512 106304529 106304350 179
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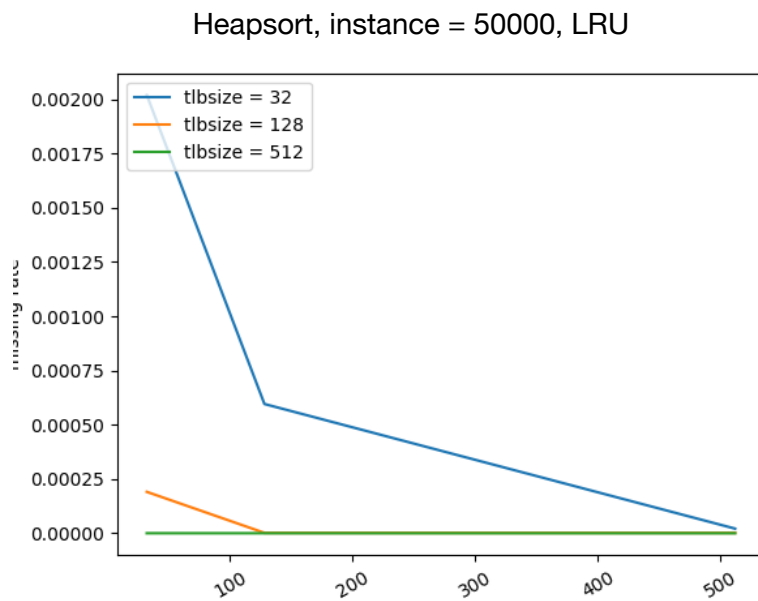
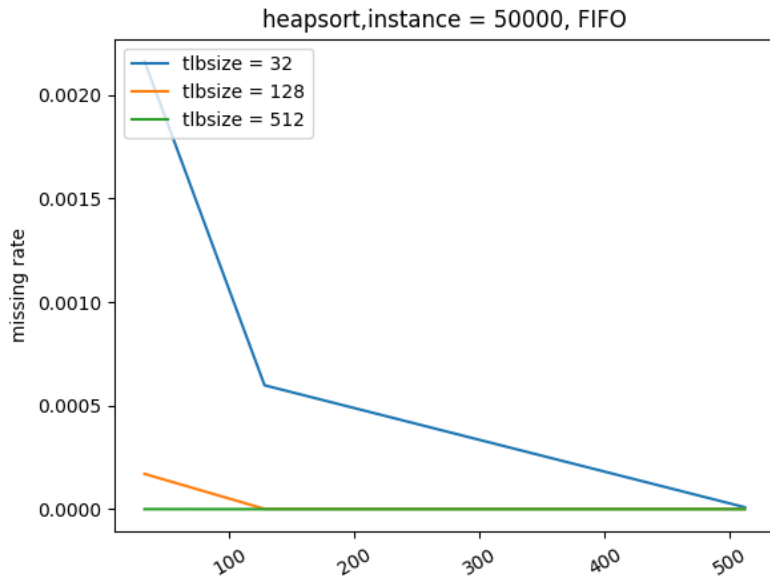
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4096 512 71405666 71405438 228
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p FIFO
4096 512 71405666 71405438 228
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p LRU
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4096 512 838893657 838890090 3567
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4096 512 838919672 838912865 6807
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p FIFO
4096 512 226864737 226864509 228
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p FIFO
4096 512 150328167 150327841 326
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p FIFO
4096 512 150328167 150327841 326
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p LRU
4096 512 226857738 226857416 322
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p LRU
4096 512 150329403 150328902 501
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p LRU
4096 512 150329403 150328902 501
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p FIFO
32768 32 106343403 106343333 70
valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p FIFO
32768 32 71400084 71399997 87
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p FIFO
32768 32 71400084 71399997 87
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p LRU
32768 32 106319246 106319184 62
valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p LRU
32768 32 71403534 71403451 83
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p LRU
32768 32 71403534 71403451 83
```

```
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p FIFO
32768 32 1298186141 1297841561 344580
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p FIFO
32768 32 838882362 838881411 951
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p FIFO
32768 32 838882362 838881411 951
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p LRU
32768 32 1298176295 1297846723 329572
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p LRU
32768 32 838864082 838862695 1387
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p LRU
32768 32 838864082 838862695 1387
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p FIFO
32768 32 226799041 226798953 88
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p FIFO
32768 32 150327486 150327383 103
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p FIFO
32768 32 150327486 150327383 103
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p LRU
32768 32 226819904 226819821 83
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p LRU
32768 32 150328090 150327919 171
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p LRU
32768 32 150328090 150327919 171
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valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p FIFO
32768 128 71396696 71396643 53
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p FIFO
32768 128 71396696 71396643 53
valgrind --tool=lackey --trace-mem=yes ./heapsort 50000 2>&1 | ./valtlb379 -p LRU
32768 128 106360490 106360434 56
valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p LRU
32768 128 71399850 71399781 69
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p LRU
32768 128 71399850 71399781 69
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p FIFO
32768 128 1298192119 1298192018 101
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p FIFO
32768 128 838861424 838861247 177
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p FIFO
32768 128 838861424 838861247 177
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p LRU
32768 128 1298213444 1298213274 170
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p LRU
32768 128 838891919 838891321 598
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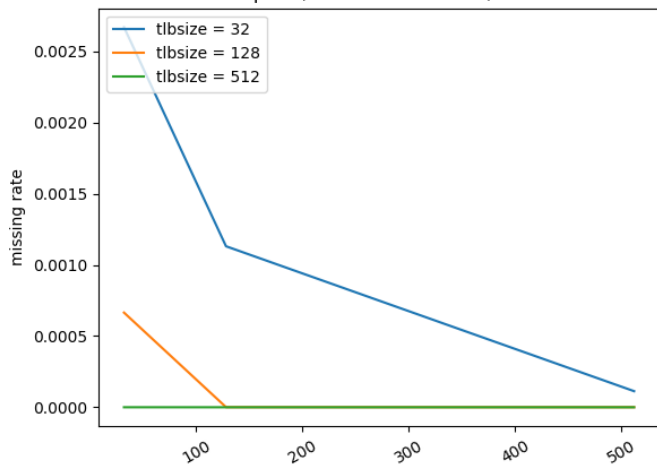
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32768 128 226823399 226823331 68
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32768 128 150331547 150331456 91
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p LRU
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32768 512 106300744 106300688 56
valgrind --tool=lackey --trace-mem=yes ./mergesort 50000 2>&1 | ./valtlb379 -p LRU
32768 512 71394389 71394320 69
valgrind --tool=lackey --trace-mem=yes ./quicksort 50000 2>&1 | ./valtlb379 -p LRU
32768 512 71394389 71394320 69
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p FIFO
32768 512 1298135970 1298135869 101
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p FIFO
32768 512 838871345 838871183 162
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p FIFO
32768 512 838871345 838871183 162
valgrind --tool=lackey --trace-mem=yes ./heapsort 500000 2>&1 | ./valtlb379 -p LRU
32768 512 1298199292 1298199131 161
valgrind --tool=lackey --trace-mem=yes ./mergesort 500000 2>&1 | ./valtlb379 -p LRU
32768 512 838869490 838869211 279
valgrind --tool=lackey --trace-mem=yes ./quicksort 500000 2>&1 | ./valtlb379 -p LRU
32768 512 838869490 838869211 279
valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p FIFO
32768 512 226796504 226796451 53
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p FIFO
32768 512 150310624 150310559 65
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p FIFO
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valgrind --tool=lackey --trace-mem=yes ./heapsort 100000 2>&1 | ./valtlb379 -p LRU
32768 512 226809856 226809787 69
```

```
valgrind --tool=lackey --trace-mem=yes ./mergesort 100000 2>&1 | ./valtlb379 -p LRU
32768 512 150321226 150321135 91
valgrind --tool=lackey --trace-mem=yes ./quicksort 100000 2>&1 | ./valtlb379 -p LRU
32768 512 150321226 150321135 91
```

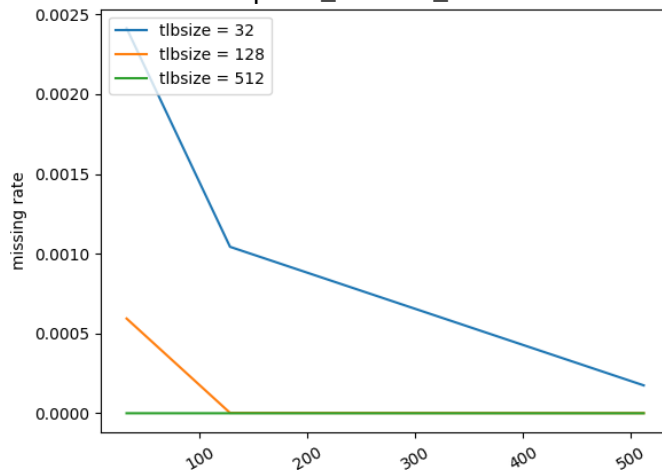
The plot:



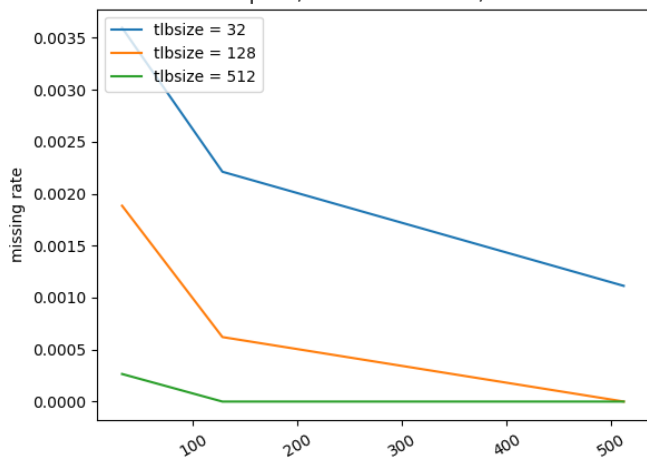
heapsort,instance = 100000, FIFO



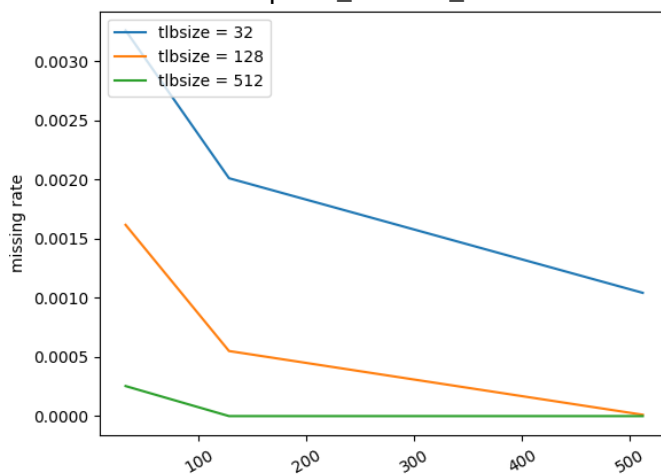
heapsort_100000_LRU



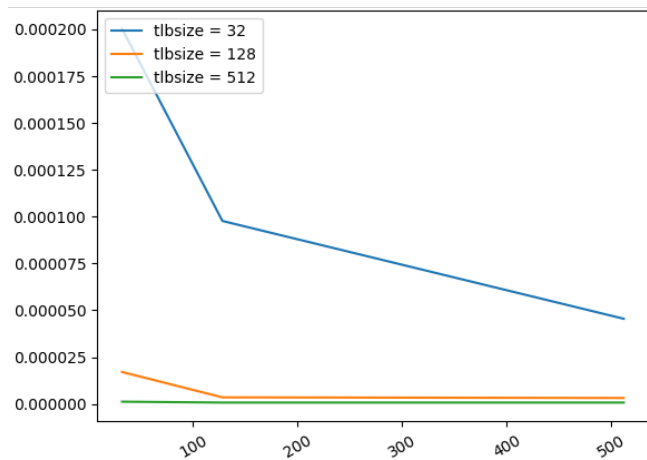
heapsort,instance = 500000, FIFO



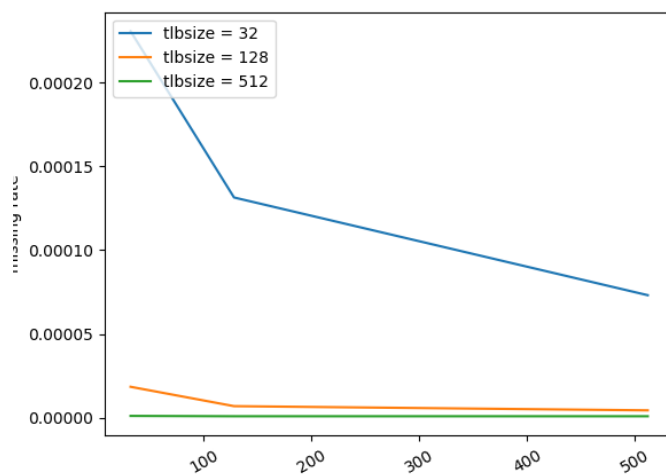
heapsort_500000_IRU



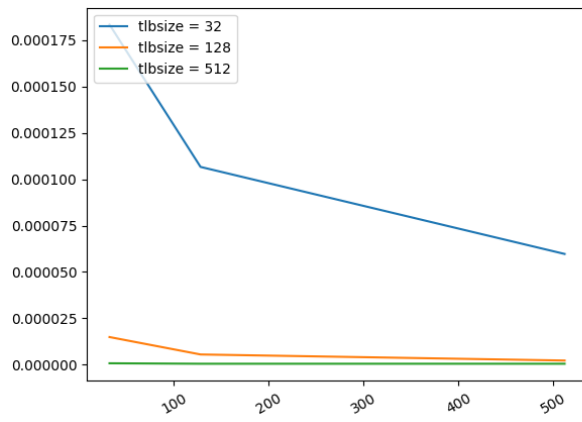
mergesort_50000,FIFO



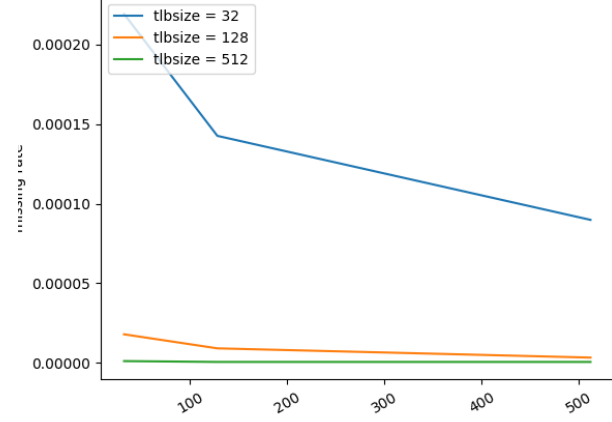
Merge sort _50000_LRU



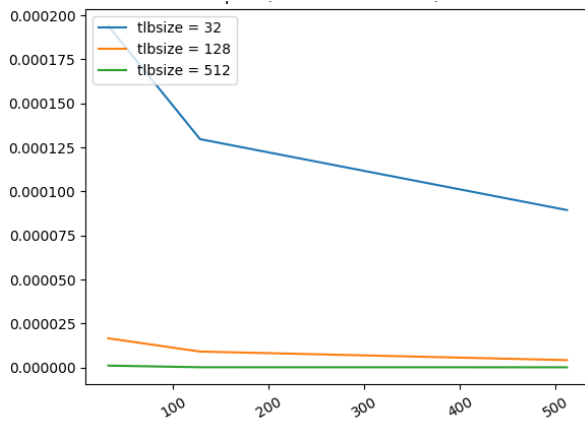
Merge sort_100000_FIFO



mergesort 100000 LRU



mergesort_500000_FIFO



mergesort_500000_LRU

