liuyu@LIUYU:~/study/0architecture/homework1/pin311\$./pin -t source/tools/Memory/obj-intel64/allcache.so -- ../problem3/sim_O0.out ITLB:

Load Hits:	220079
Load Misses:	91
Load Accesses:	220170
Load Miss Rate:	0.04%

Store Hits: 0
Store Misses: 0
Store Accesses: 0
Store Miss Rate: nan%

Total Hits: 220079
Total Misses: 91
Total Accesses: 220170
Total Miss Rate: 0.04%
Flushes: 0
Stat Resets: 0

DTLB:

Load Hits: 86895 Load Misses: 333 Load Accesses: 87228 Load Miss Rate: 0.38%

Store Hits:0Store Misses:0Store Accesses:0Store Miss Rate:nan%

Total Hits: 86895
Total Misses: 333
Total Accesses: 87228
Total Miss Rate: 0.38%
Flushes: 0
Stat Resets: 0

L1 Instruction Cache:

Load Hits: 218766
Load Misses: 1404
Load Accesses: 220170
Load Miss Rate: 0.64%

Store Hits: 0
Store Misses: 0
Store Accesses: 0
Store Miss Rate: nan%

Total Hits: 218766
Total Misses: 1404
Total Accesses: 220170
Total Miss Rate: 0.64%
Flushes: 0
Stat Resets: 0

L1 Data Cache:

Load Hits: 59573 Load Misses: 4673 Load Accesses: 64246 Load Miss Rate: 7.27%

Store Hits: 15517
Store Misses: 7465
Store Accesses: 22982
Store Miss Rate: 32.48%

Total Hits: 75090
Total Misses: 12138
Total Accesses: 87228
Total Miss Rate: 13.92%
Flushes: 0
Stat Resets: 0

L2 Unified Cache:

Load Hits: 3142 Load Misses: 2935 Load Accesses: 6077 Load Miss Rate: 48.30%

Store Hits: 4867 Store Misses: 2598 Store Accesses: 7465 Store Miss Rate: 34.80%

Total Hits: 8009
Total Misses: 5533
Total Accesses: 13542

Total Miss Rate: 40.86%
Flushes: 0
Stat Resets: 0

L3 Unified Cache:

Load Hits: 71
Load Misses: 2864
Load Accesses: 2935
Load Miss Rate: 97.58%

Store Hits: 32
Store Misses: 2566
Store Accesses: 2598
Store Miss Rate: 98.77%

Total Hits: 103
Total Misses: 5430
Total Accesses: 5533
Total Miss Rate: 98.14%
Flushes: 0
Stat Resets: 0

段错误 (核心已转储)

liuyu@LIUYU:~/study/0architecture/homework1/pin311\$./pin -t source/tools/Memory/obj-intel64/allcache.so -- ../problem3/sim_O1.out ITLB:

Load Hits: 175166
Load Misses: 90
Load Accesses: 175256
Load Miss Rate: 0.05%

Store Hits: 0
Store Misses: 0
Store Accesses: 0
Store Miss Rate: nan%

Total Hits: 175166
Total Misses: 90
Total Accesses: 175256
Total Miss Rate: 0.05%
Flushes: 0
Stat Resets: 0

DTLB:

Load Hits: 58281
Load Misses: 340
Load Accesses: 58621
Load Miss Rate: 0.58%

Store Hits: 0
Store Misses: 0
Store Accesses: 0
Store Miss Rate: nan%

Total Hits: 58281
Total Misses: 340
Total Accesses: 58621
Total Miss Rate: 0.58%
Flushes: 0
Stat Resets: 0

L1 Instruction Cache:

Load Hits: 173862 Load Misses: 1394 Load Accesses: 175256 Load Miss Rate: 0.80%

Store Hits: 0
Store Misses: 0
Store Accesses: 0
Store Miss Rate: nan%

Total Hits: 173862
Total Misses: 1394
Total Accesses: 175256
Total Miss Rate: 0.80%
Flushes: 0
Stat Resets: 0

L1 Data Cache:

Load Hits: 37102 Load Misses: 4671 Load Accesses: 41773 Load Miss Rate: 11.18%

Store Hits: 9379 Store Misses: 7469 Store Accesses: 16848 Store Miss Rate: 44.33%

Total Hits: 46481
Total Misses: 12140
Total Accesses: 58621
Total Miss Rate: 20.71%
Flushes: 0

Stat Resets: 0

L2 Unified Cache:

Load Hits: 3208 Load Misses: 2857 Load Accesses: 6065 Load Miss Rate: 47.11%

Store Hits: 4903 Store Misses: 2566 Store Accesses: 7469 Store Miss Rate: 34.36%

Total Hits: 8111
Total Misses: 5423
Total Accesses: 13534
Total Miss Rate: 40.07%
Flushes: 0
Stat Resets: 0

L3 Unified Cache:

Load Hits: 1
Load Misses: 2856
Load Accesses: 2857
Load Miss Rate: 99.96%

Store Hits: 0
Store Misses: 2566
Store Accesses: 2566
Store Miss Rate: 100.00%

Total Hits: 1
Total Misses: 5422
Total Accesses: 5423
Total Miss Rate: 99.98%
Flushes: 0
Stat Resets: 0

段错误 (核心已转储)

liuyu@LIUYU:~/study/0architecture/homework1/pin311\$./pin -t source/tools/Memory/obj-intel64/allcache.so -- ../problem3/sim_O2.out ITLB:

Load Hits:	174453
Load Misses:	87
Load Accesses:	174540
Load Miss Rate:	0.05%

Store Hits: 0
Store Misses: 0
Store Accesses: 0
Store Miss Rate: nan%

Total Hits: 174453
Total Misses: 87
Total Accesses: 174540
Total Miss Rate: 0.05%
Flushes: 0
Stat Resets: 0

DTLB:

Load Hits:57987Load Misses:333Load Accesses:58320Load Miss Rate:0.57%

Store Hits: 0
Store Misses: 0
Store Accesses: 0
Store Miss Rate: nan%

Total Hits: 57987
Total Misses: 333
Total Accesses: 58320
Total Miss Rate: 0.57%
Flushes: 0
Stat Resets: 0

L1 Instruction Cache:

Load Hits: 173153 Load Misses: 1387 Load Accesses: 174540 Load Miss Rate: 0.79%

Store Hits: 0
Store Misses: 0
Store Accesses: 0
Store Miss Rate: nan%

Total Hits: 173153
Total Misses: 1387
Total Accesses: 174540
Total Miss Rate: 0.79%
Flushes: 0
Stat Resets: 0

L1 Data Cache:

Load Hits: 36912 Load Misses: 4658 Load Accesses: 41570 Load Miss Rate: 11.21%

Store Hits: 9276
Store Misses: 7474
Store Accesses: 16750
Store Miss Rate: 44.62%

Total Hits: 46188
Total Misses: 12132
Total Accesses: 58320
Total Miss Rate: 20.80%
Flushes: 0
Stat Resets: 0

L2 Unified Cache:

Load Hits: 3157 Load Misses: 2888 Load Accesses: 6045 Load Miss Rate: 47.78%

Store Hits:4886Store Misses:2588Store Accesses:7474Store Miss Rate:34.63%

Total Hits: 8043

Total Misses: 5476
Total Accesses: 13519
Total Miss Rate: 40.51%
Flushes: 0
Stat Resets: 0

L3 Unified Cache:

Load Hits: 47
Load Misses: 2841
Load Accesses: 2888
Load Miss Rate: 98.37%

Store Hits: 21
Store Misses: 2567
Store Accesses: 2588
Store Miss Rate: 99.19%

Total Hits: 68
Total Misses: 5408
Total Accesses: 5476
Total Miss Rate: 98.76%
Flushes: 0
Stat Resets: 0

段错误 (核心已转储)

 $\label{liuyu@LIUYU:~/study/0architecture/homework1/pin311$./pin -t source/tools/Memory/obj-intel64/allcache.so -- ../problem3/sim_O3.out ITLB:$

Load Hits: 174456 Load Misses: 87 Load Accesses: 174543 Load Miss Rate: 0.05%

Store Hits: 0
Store Misses: 0
Store Accesses: 0
Store Miss Rate: nan%

Total Hits: 174456
Total Misses: 87
Total Accesses: 174543
Total Miss Rate: 0.05%
Flushes: 0
Stat Resets: 0

DTLB:

Load Hits: 57985 Load Misses: 337 Load Accesses: 58322 Load Miss Rate: 0.58%

Store Hits: 0
Store Misses: 0
Store Accesses: 0
Store Miss Rate: nan%

Total Hits: 57985
Total Misses: 337
Total Accesses: 58322
Total Miss Rate: 0.58%
Flushes: 0
Stat Resets: 0

L1 Instruction Cache:

Load Hits: 173157 Load Misses: 1386 Load Accesses: 174543 Load Miss Rate: 0.79%

Store Hits: 0
Store Misses: 0
Store Accesses: 0
Store Miss Rate: nan%

Total Hits: 173157
Total Misses: 1386
Total Accesses: 174543
Total Miss Rate: 0.79%
Flushes: 0
Stat Resets: 0

L1 Data Cache:

Load Hits: 36915 Load Misses: 4655 Load Accesses: 41570 Load Miss Rate: 11.20%

Store Hits: 9290

Store Misses: 7462 Store Accesses: 16752 Store Miss Rate: 44.54%

Total Hits: 46205
Total Misses: 12117
Total Accesses: 58322
Total Miss Rate: 20.78%
Flushes: 0
Stat Resets: 0

L2 Unified Cache:

Load Hits: 3199
Load Misses: 2842
Load Accesses: 6041
Load Miss Rate: 47.05%

Store Hits: 4896 Store Misses: 2566 Store Accesses: 7462 Store Miss Rate: 34.39%

Total Hits: 8095
Total Misses: 5408
Total Accesses: 13503
Total Miss Rate: 40.05%
Flushes: 0
Stat Resets: 0

L3 Unified Cache:

Load Hits: 0
Load Misses: 2842
Load Accesses: 2842
Load Miss Rate: 100.00%

Store Hits: 0
Store Misses: 2566
Store Accesses: 2566
Store Miss Rate: 100.00%

Total Hits: 0
Total Misses: 5408
Total Accesses: 5408
Total Miss Rate: 100.00%

Flushes: 0
Stat Resets: 0

段错误 (核心已转储)

liuyu@LIUYU:~/study/0architecture/homework1/pin311\$./pin -t source/tools/Memory/obj-intel64/allcache.so -- ../problem3/sim_OS.out ../problem3/sim_OS.out : No such file or directory liuyu@LIUYU:~/study/0architecture/homework1/pin311\$./pin -t source/tools/Memory/obj-intel64/allcache.so -- ../problem3/sim_Os.out ITLB:

Load Hits: 179257 Load Misses: 90 Load Accesses: 179347 Load Miss Rate: 0.05%

Store Hits: 0
Store Misses: 0
Store Accesses: 0
Store Miss Rate: nan%

Total Hits: 179257
Total Misses: 90
Total Accesses: 179347
Total Miss Rate: 0.05%
Flushes: 0
Stat Resets: 0

DTLB:

Load Hits: 58285 Load Misses: 336 Load Accesses: 58621 Load Miss Rate: 0.57%

Store Hits:0Store Misses:0Store Accesses:0Store Miss Rate:nan%

Total Hits: 58285
Total Misses: 336
Total Accesses: 58621
Total Miss Rate: 0.57%
Flushes: 0
Stat Resets: 0

L1 Instruction Cache:

Load Hits: 177951 Load Misses: 1396 Load Accesses: 179347 Load Miss Rate: 0.78%

Store Hits: 0
Store Misses: 0
Store Accesses: 0
Store Miss Rate: nan%

Total Hits: 177951
Total Misses: 1396
Total Accesses: 179347
Total Miss Rate: 0.78%
Flushes: 0
Stat Resets: 0

L1 Data Cache:

Load Hits: 37104 Load Misses: 4669 Load Accesses: 41773 Load Miss Rate: 11.18%

Store Hits: 9370 Store Misses: 7478 Store Accesses: 16848 Store Miss Rate: 44.39%

Total Hits: 46474
Total Misses: 12147
Total Accesses: 58621
Total Miss Rate: 20.72%
Flushes: 0
Stat Resets: 0

L2 Unified Cache:

Load Hits: 3185 Load Misses: 2880 Load Accesses: 6065 Load Miss Rate: 47.49%

Store Hits: 4912

Store Misses: 2566 Store Accesses: 7478 Store Miss Rate: 34.31%

Total Hits: 8097
Total Misses: 5446
Total Accesses: 13543
Total Miss Rate: 40.21%
Flushes: 0

Stat Resets: 0

L3 Unified Cache:

Load Hits: 24
Load Misses: 2856
Load Accesses: 2880
Load Miss Rate: 99.17%

Store Hits: 0
Store Misses: 2566
Store Accesses: 2566
Store Miss Rate: 100.00%

Total Hits: 24
Total Misses: 5422
Total Accesses: 5446
Total Miss Rate: 99.56%
Flushes: 0
Stat Resets: 0

段错误 (核心已转储)

liuyu@LIUYU:~/study/0architecture/homework1/pin311\$