Colum major:

[yliu79@lws5047 Memory]$ …/…/…/pin -t obj-intel64/allcache.so – …/…/…/loop_col.out
ITLB:
Load Hits: 2000158059
Load Misses: 45
Load Accesses: 2000158104
Load Miss Rate: 0.00%

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

Total Hits: 2000158059
Total Misses: 45
Total Accesses: 2000158104
Total Miss Rate: 0.00%
Flushes: 0
Stat Resets: 0

DTLB:
Load Hits: 996960171
Load Misses: 103125175
Load Accesses: 1100085346
Load Miss Rate: 9.37%

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

Total Hits: 996960171
Total Misses: 103125175
Total Accesses: 1100085346
Total Miss Rate: 9.37%
Flushes: 0
Stat Resets: 0

L1 Instruction Cache:
Load Hits: 2000156973
Load Misses: 1131
Load Accesses: 2000158104
Load Miss Rate: 0.00%

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

Total Hits: 2000156973
Total Misses: 1131
Total Accesses: 2000158104
Total Miss Rate: 0.00%
Flushes: 0
Stat Resets: 0

L1 Data Cache:
Load Hits: 799953188
Load Misses: 100099886
Load Accesses: 900053074
Load Miss Rate: 11.12%

Store Hits: 200027751
Store Misses: 4521
Store Accesses: 200032272
Store Miss Rate: 0.00%

Total Hits: 999980939
Total Misses: 100104407
Total Accesses: 1100085346
Total Miss Rate: 9.10%
Flushes: 0
Stat Resets: 0

L2 Unified Cache:
Load Hits: 93836017
Load Misses: 6265000
Load Accesses: 100101017
Load Miss Rate: 6.26%

Store Hits: 4045
Store Misses: 476
Store Accesses: 4521
Store Miss Rate: 10.53%

Total Hits: 93840062
Total Misses: 6265476
Total Accesses: 100105538

Total Miss Rate: 6.26%
Flushes: 0
Stat Resets: 0

L3 Unified Cache:
Load Hits: 2846
Load Misses: 6262154
Load Accesses: 6265000
Load Miss Rate: 99.95%

Store Hits: 0
Store Misses: 476
Store Accesses: 476
Store Miss Rate: 100.00%

Total Hits: 2846
Total Misses: 6262630
Total Accesses: 6265476
Total Miss Rate: 99.95%
Flushes: 0
Stat Resets: 0

Row major:

[yliu79@lws5047 Memory]$ …/…/…/pin -t obj-intel64/allcache.so – …/…/…/loop_row.out
ITLB:
Load Hits: 2000158059
Load Misses: 45
Load Accesses: 2000158104
Load Miss Rate: 0.00%

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

Total Hits: 2000158059
Total Misses: 45
Total Accesses: 2000158104
Total Miss Rate: 0.00%
Flushes: 0
Stat Resets: 0

DTLB:
Load Hits: 1099984466

Load Misses: 100880
Load Accesses: 1100085346
Load Miss Rate: 0.01%

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

Total Hits: 1099984466
Total Misses: 100880
Total Accesses: 1100085346
Total Miss Rate: 0.01%
Flushes: 0
Stat Resets: 0

L1 Instruction Cache:
Load Hits: 2000156974
Load Misses: 1130
Load Accesses: 2000158104
Load Miss Rate: 0.00%

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

Total Hits: 2000156974
Total Misses: 1130
Total Accesses: 2000158104
Total Miss Rate: 0.00%
Flushes: 0
Stat Resets: 0

L1 Data Cache:
Load Hits: 887538637
Load Misses: 12514437
Load Accesses: 900053074
Load Miss Rate: 1.39%

Store Hits: 200027750
Store Misses: 4522
Store Accesses: 200032272
Store Miss Rate: 0.00%

Total Hits: 1087566387
Total Misses: 12518959
Total Accesses: 1100085346
Total Miss Rate: 1.14%
Flushes: 0
Stat Resets: 0

L2 Unified Cache:
Load Hits: 6263610
Load Misses: 6251957
Load Accesses: 12515567
Load Miss Rate: 49.95%

Store Hits: 4050
Store Misses: 472
Store Accesses: 4522
Store Miss Rate: 10.44%

Total Hits: 6267660
Total Misses: 6252429
Total Accesses: 12520089
Total Miss Rate: 49.94%
Flushes: 0
Stat Resets: 0

L3 Unified Cache:
Load Hits: 184
Load Misses: 6251773
Load Accesses: 6251957
Load Miss Rate: 100.00%

Store Hits: 0
Store Misses: 472
Store Accesses: 472
Store Miss Rate: 100.00%

Total Hits: 184
Total Misses: 6252245
Total Accesses: 6252429
Total Miss Rate: 100.00%
Flushes: 0
Stat Resets: 0