

**Recommendations:****Increase execution time:**

Application execution time is too short. Metrics data may be unreliable. Consider reducing the sampling interval or increasing your application execution time.

**Elapsed Time:** 0.053s

Application execution time is too short. Metrics data may be unreliable. Consider reducing the sampling interval or increasing your application execution time.

**CPU Time:** 0.039s  
**Memory Bound:** 3.8% of Pipeline Slots  
**L1 Bound:** 0.0% of Clockticks  
**L2 Bound:** 5.5% of Clockticks  
**L3 Bound:** 5.5% of Clockticks  
**DRAM Bound:** 0.0% of Clockticks  
**DRAM Bandwidth Bound:** 0.0% of Elapsed Time  
**Store Bound:** 0.0% of Clockticks  
**Loads:** 15,000,000  
**Stores:** 9,000,000  
**LLC Miss Count:** 0  
**Average Latency (cycles):** 8  
**Total Thread Count:** 1  
**Paused Time:** 0s

**Bandwidth Utilization:**

| Bandwidth Domain | Platform Maximum | Observed Maximum | Average | % of Elapsed Time with High BW Utilization(%) |
|------------------|------------------|------------------|---------|---|
| DRAM, GB/sec     | 10               | 1.400            | 0.936   | 0.0%  |

**Collection and Platform Info:**

**Application Command Line:** ./codecs/HM/decoder/TAppDecoderStatic "-b" "./bin/HM/encoder\_randomaccess\_main.cfg/CLASS\_C/RaceHorses\_416x240\_30\_QP\_37\_HM.bin"

**User Name:** root

**Operating System:** 5.4.0-72-generic DISTRIB\_ID=Ubuntu  
DISTRIB\_RELEASE=18.04 DISTRIB\_CODENAME=bionic  
DISTRIB\_DESCRIPTION="Ubuntu 18.04.5 LTS"

**Computer Name:** eimon

**Result Size:** 13.1 MB

**Collection start time:** 22:27:46 18/04/2021 UTC

**Collection stop time:** 22:27:46 18/04/2021 UTC

**Collector Type:** Event-based sampling driver

**CPU:**

**Name:** Intel(R) Processor code named Kabylake  
ULX

**Frequency:** 1.992 GHz

**Logical CPU Count:** 8

**Max DRAM Single-Package Bandwidth:** 10.000 GB/s

**Cache Allocation Technology:**

**Level 2 capability:** not detected

**Level 3 capability:** not detected

**Intel® oneAPI VTune™ Profiler 2021.1.1 Gold**

**Recommendations:**

**Increase execution time:**

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**Elapsed Time:** 0.037s

Application execution time is too short. Metrics data may be unreliable. Consider reducing the sampling interval or increasing your application execution time.

**CPU Time:** 0.024s  
**Memory Bound:** 9.6% of Pipeline Slots  
**L1 Bound:** 5.6% of Clockticks  
**L2 Bound:** 5.6% of Clockticks  
**L3 Bound:** 0.0% of Clockticks  
**DRAM Bound:** 5.6% of Clockticks  
**DRAM Bandwidth Bound:** 0.0% of Elapsed Time  
**Store Bound:** 0.0% of Clockticks  
**Loads:** 20,640,000  
**Stores:** 7,320,000  
**LLC Miss Count:** 0  
**Average Latency (cycles):** 7  
**Total Thread Count:** 1  
**Paused Time:** 0s

#### Bandwidth Utilization:

| Bandwidth Domain | Platform Maximum | Observed Maximum | Average | % of Elapsed Time with High BW Utilization(%) |
|------------------|------------------|------------------|---------|---|
| DRAM, GB/sec     | 10               | 0.900            | 0.815   | 0.0%  |

#### Collection and Platform Info:

**Application Command Line:** ./codecs/HM/decoder/TAppDecoderStatic "-b" ".bin/HM/encoder\_randomaccess\_main.cfg/CLASS\_C/RaceHorses\_416x240\_30\_QP\_37\_HM.bin"

**User Name:** root

**Operating System:** 5.4.0-72-generic DISTRIB\_ID=Ubuntu  
 DISTRIB\_RELEASE=18.04 DISTRIB\_CODENAME=bionic  
 DISTRIB\_DESCRIPTION="Ubuntu 18.04.5 LTS"

**Computer Name:** eimon

**Result Size:** 12.4 MB

**Collection start time:** 07:46:57 19/04/2021 UTC

**Collection stop time:** 07:46:57 19/04/2021 UTC

**Collector Type:** Event-based sampling driver

#### CPU:

**Name:** Intel(R) Processor code named Kabylake  
 ULX

**Frequency:** 1.992 GHz

**Logical CPU Count:** 8

**Max DRAM Single-Package Bandwidth:** 10.000 GB/s

**Cache Allocation Technology:**

**Level 2 capability:** not detected

**Level 3 capability:** not detected