user@finalproject:~/gem5$ ./build/X86/gem5.opt configs/example/se.py \

> -c tests/test-progs/multiply/bin/multiply \

> --cpu-type=TimingSimpleCPU \

> --caches --l2cache --l3cache \

> --l1i\_size=32kB --l1i\_assoc=4 \

> --l1d\_size=32kB --l1d\_assoc=4 \

> --l2\_size=128kB --l2\_assoc=4 \

> --l3\_size=1MB --l3\_assoc=4 \

> --mem-type=NVMainMemory \

> --nvmain-config=../NVmain/Config/PCM\_ISSCC\_2012\_4GB.config

gem5 Simulator System. http://gem5.org

gem5 is copyrighted software; use the --copyright option for details.

gem5 compiled Jun 19 2025 02:02:35

gem5 started Jun 19 2025 02:03:08

gem5 executing on finalproject, pid 20960

command line: ./build/X86/gem5.opt configs/example/se.py -c tests/test-progs/multiply/bin/multiply --cpu-type=TimingSimpleCPU --caches --l2cache --l3cache --l1i\_size=32kB --l1i\_assoc=4 --l1d\_size=32kB --l1d\_assoc=4 --l2\_size=128kB --l2\_assoc=4 --l3\_size=1MB --l3\_assoc=4 --mem-type=NVMainMemory --nvmain-config=../NVmain/Config/PCM\_ISSCC\_2012\_4GB.config

Global frequency set at 1000000000000 ticks per second

NVMainControl: Reading NVMain config file: ../NVmain/Config/PCM\_ISSCC\_2012\_4GB.config.

0: system.remote\_gdb: listening for remote gdb on port 7000

NVMain: GlobalEventQueue: Added a memory subsystem running at 400MHz. My frequency is 2000MHz.

Config: Warning: Key EIDD0 is not set. Using '85' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD1 is not set. Using '54' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD2P0 is not set. Using '30' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD2P1 is not set. Using '30' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD2N is not set. Using '37' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD3P is not set. Using '35' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD3N is not set. Using '40' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD4R is not set. Using '160' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD4W is not set. Using '165' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD5B is not set. Using '200' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD6 is not set. Using '12' as the default. Please configure this value if this is wrong.

Config: Warning: Key Eactstdby is not set. Using '0.09009' as the default. Please configure this value if this is wrong.

Config: Warning: Key Eprestdby is not set. Using '0.083333' as the default. Please configure this value if this is wrong.

Config: Warning: Key Rtt\_nom is not set. Using '30' as the default. Please configure this value if this is wrong.

Config: Warning: Key Rtt\_wr is not set. Using '60' as the default. Please configure this value if this is wrong.

Config: Warning: Key Rtt\_cont is not set. Using '75' as the default. Please configure this value if this is wrong.

Config: Warning: Key VDDQ is not set. Using '1.5' as the default. Please configure this value if this is wrong.

Config: Warning: Key VSSQ is not set. Using '0' as the default. Please configure this value if this is wrong.

Config: Warning: Key RanksPerDIMM is not set. Using '1' as the default. Please configure this value if this is wrong.

Config: Warning: Key DataEncoder is not set. Using 'default' as the default. Please configure this value if this is wrong.

Config: Warning: Key UseLowPower is not set. Using 'true' as the default. Please configure this value if this is wrong.

Config: Warning: Key PowerDownMode is not set. Using 'FASTEXIT' as the default. Please configure this value if this is wrong.

Config: Warning: Key PrintAllDevices is not set. Using 'false' as the default. Please configure this value if this is wrong.

Config: Warning: Key PrintConfig is not set. Using 'false' as the default. Please configure this value if this is wrong.

Config: Warning: Key StaggerRefresh is not set. Using 'false' as the default. Please configure this value if this is wrong.

Config: Warning: Key UsePrecharge is not set. Using 'true' as the default. Please configure this value if this is wrong.

Config: Warning: Key OffChipLatency is not set. Using '10' as the default. Please configure this value if this is wrong.

Config: Warning: Key RBSize is not set. Using '32' as the default. Please configure this value if this is wrong.

Config: Warning: Key MemoryPrefetcher is not set. Using 'none' as the default. Please configure this value if this is wrong.

Config: Warning: Key PrefetchBufferSize is not set. Using '32' as the default. Please configure this value if this is wrong.

Config: Warning: Key MLCLevels is not set. Using '1' as the default. Please configure this value if this is wrong.

Config: Warning: Key WPVariance is not set. Using '1' as the default. Please configure this value if this is wrong.

Config: Warning: Key UniformWrites is not set. Using 'true' as the default. Please configure this value if this is wrong.

Config: Warning: Key WriteAllBits is not set. Using 'true' as the default. Please configure this value if this is wrong.

Config: Warning: Key Ereset is not set. Using '0.054331' as the default. Please configure this value if this is wrong.

Config: Warning: Key Eset is not set. Using '0.101581' as the default. Please configure this value if this is wrong.

Config: Warning: Key nWP00 is not set. Using '0' as the default. Please configure this value if this is wrong.

Config: Warning: Key nWP01 is not set. Using '7' as the default. Please configure this value if this is wrong.

Config: Warning: Key nWP10 is not set. Using '5' as the default. Please configure this value if this is wrong.

Config: Warning: Key nWP11 is not set. Using '1' as the default. Please configure this value if this is wrong.

Config: Warning: Key WPMaxVariance is not set. Using '2' as the default. Please configure this value if this is wrong.

Config: Warning: Key DeadlockTimer is not set. Using '10000000' as the default. Please configure this value if this is wrong.

Config: Warning: Key EnableDebug is not set. Using 'false' as the default. Please configure this value if this is wrong.

Config: Warning: Key WritePausing is not set. Using 'false' as the default. Please configure this value if this is wrong.

Config: Warning: Key PauseThreshold is not set. Using '0.4' as the default. Please configure this value if this is wrong.

Config: Warning: Key MaxCancellations is not set. Using '4' as the default. Please configure this value if this is wrong.

NVMain: the address mapping order is

Sub-Array 1

Row 6

Column 2

Bank 4

Rank 5

Channel 3

Config: Warning: Key CONFIG\_CHANNEL0 is not set. Using '' as the default. Please configure this value if this is wrong.

Created a First Ready First Come First Serve memory controller with write queue!

Config: Warning: Key EIDD0 is not set. Using '85' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD1 is not set. Using '54' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD2P0 is not set. Using '30' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD2P1 is not set. Using '30' as the default. Please configure this value if this is wrong.

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Config: Warning: Key EIDD3N is not set. Using '40' as the default. Please configure this value if this is wrong.

Config: Warning: Key EIDD4R is not set. Using '160' as the default. Please configure this value if this is wrong.

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Config: Warning: Key EIDD5B is not set. Using '200' as the default. Please configure this value if this is wrong.

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Config: Warning: Key PowerDownMode is not set. Using 'FASTEXIT' as the default. Please configure this value if this is wrong.

Config: Warning: Key PrintAllDevices is not set. Using 'false' as the default. Please configure this value if this is wrong.

Config: Warning: Key PrintConfig is not set. Using 'false' as the default. Please configure this value if this is wrong.

Config: Warning: Key StaggerRefresh is not set. Using 'false' as the default. Please configure this value if this is wrong.

Config: Warning: Key UsePrecharge is not set. Using 'true' as the default. Please configure this value if this is wrong.

Config: Warning: Key OffChipLatency is not set. Using '10' as the default. Please configure this value if this is wrong.

Config: Warning: Key RBSize is not set. Using '32' as the default. Please configure this value if this is wrong.

Config: Warning: Key MemoryPrefetcher is not set. Using 'none' as the default. Please configure this value if this is wrong.

Config: Warning: Key PrefetchBufferSize is not set. Using '32' as the default. Please configure this value if this is wrong.

Config: Warning: Key MLCLevels is not set. Using '1' as the default. Please configure this value if this is wrong.

Config: Warning: Key WPVariance is not set. Using '1' as the default. Please configure this value if this is wrong.

Config: Warning: Key UniformWrites is not set. Using 'true' as the default. Please configure this value if this is wrong.

Config: Warning: Key WriteAllBits is not set. Using 'true' as the default. Please configure this value if this is wrong.

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Config: Warning: Key WritePausing is not set. Using 'false' as the default. Please configure this value if this is wrong.

Config: Warning: Key PauseThreshold is not set. Using '0.4' as the default. Please configure this value if this is wrong.

Config: Warning: Key MaxCancellations is not set. Using '4' as the default. Please configure this value if this is wrong.

Config: Warning: Key Decoder is not set. Using '' as the default. Please configure this value if this is wrong.

Config: Warning: Key RankType is not set. Using '' as the default. Please configure this value if this is wrong.

Creating 4 banks in all 8 devices.

Config: Warning: Key BankType is not set. Using '' as the default. Please configure this value if this is wrong.

NVMain: the address mapping order is

Sub-Array 1

Row 6

Column 2

Bank 4

Rank 5

Channel 3

defaultMemory.channel0.FRFCFS-WQF capacity is 4096 MB.

Creating 4 command queues.

\*\*\*\* REAL SIMULATION \*\*\*\*

info: Entering event queue @ 0. Starting simulation...

warn: readlink() called on '/proc/self/exe' may yield unexpected results in various settings.

Returning '/home/user/gem5/tests/test-progs/multiply/bin/multiply'

info: Increasing stack size by one page.

warn: ignoring syscall access(...)

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Exiting @ tick 5986558652000 because exiting with last active thread context

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.subArrayEnergy 4.49652e+07nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.activeEnergy 44.254nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.burstEnergy 2.21039e+06nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.writeEnergy 4.27547e+07nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.refreshEnergy 0nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.cancelledWrites 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.cancelledWriteTime 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.pausedWrites 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.averagePausesPerRequest 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.measuredPauses 1311945

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.averagePausedRequestProgress 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.measuredProgresses 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.reads 4397

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.writes 1311945

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.activates 545

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.precharges 544

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.refreshes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.worstCaseEndurance 18446744073709551615

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.averageEndurance 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.actWaits 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.actWaitTotal 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.actWaitAverage -nan

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.worstCaseWrite 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.num00Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.num01Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.num10Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.num11Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.averageWriteTime 60

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.measuredWriteTimes 1311945

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.mlcTimingHisto {}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.cancelCountHisto {0: 1311944}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.wpPauseHisto {}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.wpCancelHisto {}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.bankEnergy 4.49652e+07nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.activeEnergy 44.254nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.burstEnergy 2.21039e+06nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.refreshEnergy 0nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.bankPower 3.75556e+07W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.activePower 36.9616W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.burstPower 1.84615e+06W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.refreshPower 0W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.bandwidth 225.163MB/s

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.dataCycles 5265368

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.powerCycles 1197295099

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.utilization 0.00439772

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.reads 4397

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.writes 1311945

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.activates 545

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.precharges 544

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.refreshes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.activeCycles 1197226201

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.standbyCycles 68898

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.fastExitActiveCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.fastExitPrechargeCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.slowExitPrechargeCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.actWaits 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.actWaitTotal 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.actWaitAverage -nan

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.averageEndurance 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.worstCaseEndurance 18446744073709551615

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.subArrayEnergy 4.22988e+07nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.activeEnergy 19.3256nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.burstEnergy 2.08068e+06nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.writeEnergy 4.02181e+07nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.refreshEnergy 0nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.cancelledWrites 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.cancelledWriteTime 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.pausedWrites 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.averagePausesPerRequest 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.measuredPauses 1234960

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.averagePausedRequestProgress 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.measuredProgresses 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.reads 4201

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.writes 1234960

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.activates 238

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.precharges 237

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.refreshes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.worstCaseEndurance 18446744073709551615

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.averageEndurance 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.actWaits 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.actWaitTotal 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.actWaitAverage -nan

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.worstCaseWrite 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.num00Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.num01Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.num10Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.num11Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.averageWriteTime 60

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.measuredWriteTimes 1234960

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.mlcTimingHisto {}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.cancelCountHisto {0: 1234959}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.wpPauseHisto {}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.wpCancelHisto {}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.bankEnergy 4.22988e+07nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.activeEnergy 19.3256nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.burstEnergy 2.08068e+06nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.refreshEnergy 0nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.bankPower 3.53286e+07W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.activePower 16.141W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.burstPower 1.73782e+06W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.refreshPower 0W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.bandwidth 211.961MB/s

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.dataCycles 4956644

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.powerCycles 1197295099

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.utilization 0.00413987

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.reads 4201

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.writes 1234960

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.activates 238

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.precharges 237

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.refreshes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.activeCycles 1197278337

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.standbyCycles 16762

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.fastExitActiveCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.fastExitPrechargeCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.slowExitPrechargeCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.actWaits 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.actWaitTotal 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.actWaitAverage -nan

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.averageEndurance 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.worstCaseEndurance 18446744073709551615

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.subArrayEnergy 2.93908e+08nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.activeEnergy 71691.8nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.burstEnergy 1.53468e+07nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.writeEnergy 2.7849e+08nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.refreshEnergy 0nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.cancelledWrites 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.cancelledWriteTime 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.pausedWrites 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.averagePausesPerRequest 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.measuredPauses 9108939

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.averagePausedRequestProgress 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.measuredProgresses 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.reads 4507

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.writes 9108939

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.activates 882904

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.precharges 882903

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.refreshes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.worstCaseEndurance 18446744073709551615

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.averageEndurance 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.actWaits 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.actWaitTotal 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.actWaitAverage -nan

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.worstCaseWrite 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.num00Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.num01Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.num10Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.num11Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.averageWriteTime 60

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.measuredWriteTimes 9108939

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.mlcTimingHisto {}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.cancelCountHisto {0: 9108938}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.wpPauseHisto {}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.wpCancelHisto {}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.bankEnergy 2.93908e+08nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.activeEnergy 71691.8nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.burstEnergy 1.53468e+07nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.refreshEnergy 0nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.bankPower 2.45477e+08W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.activePower 59878.1W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.burstPower 1.28179e+07W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.refreshPower 0W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.bandwidth 1558.88MB/s

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.dataCycles 36453784

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.powerCycles 1197295099

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.utilization 0.0304468

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.reads 4507

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.writes 9108939

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.activates 882904

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.precharges 882903

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.refreshes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.activeCycles 1139704458

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.standbyCycles 57590641

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.fastExitActiveCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.fastExitPrechargeCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.slowExitPrechargeCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.actWaits 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.actWaitTotal 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.actWaitAverage -nan

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.averageEndurance 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.worstCaseEndurance 18446744073709551615

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.subArrayEnergy 7.70465e+07nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.activeEnergy 3370.37nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.burstEnergy 3.79142e+06nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.writeEnergy 7.32517e+07nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.refreshEnergy 0nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.cancelledWrites 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.cancelledWriteTime 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.pausedWrites 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.averagePausesPerRequest 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.measuredPauses 2250348

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.averagePausedRequestProgress 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.measuredProgresses 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.reads 4347

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.writes 2250348

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.activates 41507

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.precharges 41506

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.refreshes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.worstCaseEndurance 18446744073709551615

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.averageEndurance 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.actWaits 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.actWaitTotal 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.actWaitAverage -nan

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.worstCaseWrite 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.num00Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.num01Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.num10Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.num11Writes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.averageWriteTime 60

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.measuredWriteTimes 2250348

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.mlcTimingHisto {}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.cancelCountHisto {0: 2250347}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.wpPauseHisto {}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.wpCancelHisto {}

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.bankEnergy 7.70465e+07nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.activeEnergy 3370.37nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.burstEnergy 3.79142e+06nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.refreshEnergy 0nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.bankPower 6.43504e+07W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.activePower 2814.99W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.burstPower 3.16665e+06W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.refreshPower 0W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.bandwidth 385.671MB/s

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.dataCycles 9018780

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.powerCycles 1197295099

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.utilization 0.00753263

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.reads 4347

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.writes 2250348

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.activates 41507

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.precharges 41506

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.refreshes 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.activeCycles 1194104457

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.standbyCycles 3190642

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.fastExitActiveCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.fastExitPrechargeCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.slowExitPrechargeCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.actWaits 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.actWaitTotal 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.actWaitAverage -nan

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.averageEndurance 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.worstCaseEndurance 18446744073709551615

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.totalEnergy 5.89587e+08nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.backgroundEnergy 1.07864e+08nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.activateEnergy 75125.8nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.burstEnergy 2.34293e+07nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.refreshEnergy 0nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.totalPower 0.0438885W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.backgroundPower 0.036036W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.activatePower 2.50985e-05W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.burstPower 0.00782742W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.refreshPower 0W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.reads 17452

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.writes 13906192

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.activeCycles 1197295099

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.standbyCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.fastExitActiveCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.fastExitPrechargeCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.slowExitCycles 0

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.actWaits 2096

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.actWaitTotal 5926

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.actWaitAverage 2.82729

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.rrdWaits 2097

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.rrdWaitTotal 5929

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.rrdWaitAverage 2.82737

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.fawWaits 1

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.fawWaitTotal 19

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.fawWaitAverage 19

i0.defaultMemory.channel0.FRFCFS-WQF.mem\_reads 17452

i0.defaultMemory.channel0.FRFCFS-WQF.mem\_writes 13906220

i0.defaultMemory.channel0.FRFCFS-WQF.rq\_rb\_hits 11258

i0.defaultMemory.channel0.FRFCFS-WQF.rq\_rb\_miss 6194

i0.defaultMemory.channel0.FRFCFS-WQF.wq\_rb\_hits 12987192

i0.defaultMemory.channel0.FRFCFS-WQF.wq\_rb\_miss 919000

i0.defaultMemory.channel0.FRFCFS-WQF.total\_drains 869136

i0.defaultMemory.channel0.FRFCFS-WQF.total\_drain\_writes 13906176

i0.defaultMemory.channel0.FRFCFS-WQF.average\_writes\_per\_drain 16

i0.defaultMemory.channel0.FRFCFS-WQF.minimum\_drain\_writes 16

i0.defaultMemory.channel0.FRFCFS-WQF.maximum\_drain\_writes 16

i0.defaultMemory.channel0.FRFCFS-WQF.total\_drain\_cycles 577258001

i0.defaultMemory.channel0.FRFCFS-WQF.average\_drain\_cycles 664.175

i0.defaultMemory.channel0.FRFCFS-WQF.minimum\_drain\_cycles 250

i0.defaultMemory.channel0.FRFCFS-WQF.maximum\_drain\_cycles 1226

i0.defaultMemory.channel0.FRFCFS-WQF.total\_non\_drain\_cycles 1197283232

i0.defaultMemory.channel0.FRFCFS-WQF.average\_drain\_spacing 1377.56

i0.defaultMemory.channel0.FRFCFS-WQF.minimum\_drain\_spacing 724

i0.defaultMemory.channel0.FRFCFS-WQF.maximum\_drain\_spacing 3399

i0.defaultMemory.channel0.FRFCFS-WQF.total\_read\_cycles 620025231

i0.defaultMemory.channel0.FRFCFS-WQF.average\_read\_spacing 713.381

i0.defaultMemory.channel0.FRFCFS-WQF.minimum\_read\_spacing 284

i0.defaultMemory.channel0.FRFCFS-WQF.maximum\_read\_spacing 2851

i0.defaultMemory.channel0.FRFCFS-WQF.total\_readqueue\_size 0

i0.defaultMemory.channel0.FRFCFS-WQF.average\_predrain\_readqueue\_size 0

i0.defaultMemory.channel0.FRFCFS-WQF.minimum\_predrain\_readqueue\_size 0

i0.defaultMemory.channel0.FRFCFS-WQF.maximum\_predrain\_readqueue\_size 0

i0.defaultMemory.channel0.FRFCFS-WQF.total\_reads\_during\_drain 2380

i0.defaultMemory.channel0.FRFCFS-WQF.average\_reads\_during\_drain 0.00273835

i0.defaultMemory.channel0.FRFCFS-WQF.minimum\_reads\_during\_drain 0

i0.defaultMemory.channel0.FRFCFS-WQF.maximum\_reads\_during\_drain 1

i0.defaultMemory.channel0.FRFCFS-WQF.starvation\_precharges 900627

i0.defaultMemory.channel0.FRFCFS-WQF.averageLatency 137.785

i0.defaultMemory.channel0.FRFCFS-WQF.averageQueueLatency 2016.66

i0.defaultMemory.channel0.FRFCFS-WQF.averageTotalLatency 2154.44

i0.defaultMemory.channel0.FRFCFS-WQF.measuredLatencies 13923644

i0.defaultMemory.channel0.FRFCFS-WQF.measuredQueueLatencies 13923644

i0.defaultMemory.channel0.FRFCFS-WQF.measuredTotalLatencies 13923644

i0.defaultMemory.channel0.FRFCFS-WQF.simulation\_cycles 1197295099

i0.defaultMemory.channel0.FRFCFS-WQF.wakeupCount 29712423

i0.defaultMemory.totalReadRequests 17452

i0.defaultMemory.totalWriteRequests 13906220

i0.defaultMemory.successfulPrefetches 0

i0.defaultMemory.unsuccessfulPrefetches 0

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