user@finalproject:~$ cd gem5/

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

> -c tests/test-progs/quicksort/bin/x86/linux/quicksort \

> --cpu-type=TimingSimpleCPU \

> --caches --l2cache --l3cache \

> --l1i\_size=32kB --l1i\_assoc=1 \

> --l1d\_size=32kB --l1d\_assoc=1 \

> --l2\_size=256kB --l2\_assoc=1 \

> --l3\_size=1MB --l3\_assoc=2 \

> --cacheline\_size=64 \

> --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 14 2025 22:40:21

gem5 started Jun 17 2025 19:35:34

gem5 executing on finalproject, pid 29363

command line: ./build/X86/gem5.opt configs/example/se.py -c tests/test-progs/quicksort/bin/x86/linux/quicksort --cpu-type=TimingSimpleCPU --caches --l2cache --l3cache --l1i\_size=32kB --l1i\_assoc=1 --l1d\_size=32kB --l1d\_assoc=1 --l2\_size=256kB --l2\_assoc=1 --l3\_size=1MB --l3\_assoc=2 --cacheline\_size=64 --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 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.

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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.

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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/quicksort/bin/x86/linux/quicksort'

info: Increasing stack size by one page.

warn: ignoring syscall access(...)

info: Increasing stack size by one page.

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Exiting @ tick 518358564000 because exiting with last active thread context

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.subArrayEnergy 774393nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.activeEnergy 687.277nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.burstEnergy 35753nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.writeEnergy 737953nJ

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 21196

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 25815

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.writes 21196

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.activates 8464

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.precharges 8463

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 21196

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.subarray0.cancelCountHisto {0: 21195}

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 774393nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.activeEnergy 687.277nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.burstEnergy 35753nJ

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.bankPower 7.46966e+06W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.activePower 6629.36W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.burstPower 344867W

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.bandwidth 92.8687MB/s

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.dataCycles 188044

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.powerCycles 103671708

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.utilization 0.00181384

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.reads 25815

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.writes 21196

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.activates 8464

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.precharges 8463

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.activeCycles 103337292

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank0.standbyCycles 334416

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 510585nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.activeEnergy 476.076nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.burstEnergy 23421.5nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.writeEnergy 486688nJ

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 13884

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 18287

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.writes 13884

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.activates 5863

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.precharges 5862

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 13884

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.subarray0.cancelCountHisto {0: 13883}

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 510585nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.activeEnergy 476.076nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.burstEnergy 23421.5nJ

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.bankPower 4.92502e+06W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.activePower 4592.15W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.burstPower 225920W

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.bandwidth 63.5527MB/s

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.dataCycles 128684

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.powerCycles 103671708

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.utilization 0.00124126

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.reads 18287

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.writes 13884

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.activates 5863

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.precharges 5862

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.activeCycles 103419479

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank1.standbyCycles 252229

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 554616nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.activeEnergy 543.472nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.burstEnergy 25527.6nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.writeEnergy 528545nJ

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 15133

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 19428

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.writes 15133

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.activates 6693

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.precharges 6692

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 15133

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.subarray0.cancelCountHisto {0: 15132}

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 554616nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.activeEnergy 543.472nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.burstEnergy 25527.6nJ

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.bankPower 5.34974e+06W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.activePower 5242.24W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.burstPower 246235W

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.bandwidth 68.2741MB/s

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.dataCycles 138244

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.powerCycles 103671708

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.utilization 0.00133348

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.reads 19428

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.writes 15133

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.activates 6693

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.precharges 6692

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.activeCycles 103325041

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank2.standbyCycles 346667

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 779688nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.activeEnergy 724.872nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.burstEnergy 35858.8nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.writeEnergy 743104nJ

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 21259

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 25626

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.writes 21259

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.activates 8927

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.precharges 8926

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 21259

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.subarray0.cancelCountHisto {0: 21258}

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 779688nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.activeEnergy 724.872nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.burstEnergy 35858.8nJ

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.bankPower 7.52074e+06W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.activePower 6992W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.burstPower 345888W

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.bandwidth 92.6198MB/s

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.dataCycles 187540

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.powerCycles 103671708

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.utilization 0.00180898

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.reads 25626

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.writes 21259

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.activates 8927

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.precharges 8926

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.activeCycles 103334915

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.bank3.standbyCycles 336793

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 1.20821e+07nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.backgroundEnergy 9.33978e+06nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.activateEnergy 2431.7nJ

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.burstEnergy 120561nJ

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.totalPower 0.0365105W

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.activatePower 9.3823e-06W

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.burstPower 0.000465164W

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

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.reads 89156

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.writes 71472

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.activeCycles 103671706

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.standbyCycles 2

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 1804

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.actWaitTotal 5351

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.actWaitAverage 2.96619

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.rrdWaits 1805

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.rrdWaitTotal 5354

i0.defaultMemory.channel0.FRFCFS-WQF.channel0.rank0.rrdWaitAverage 2.9662

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 89156

i0.defaultMemory.channel0.FRFCFS-WQF.mem\_writes 71497

i0.defaultMemory.channel0.FRFCFS-WQF.rq\_rb\_hits 77145

i0.defaultMemory.channel0.FRFCFS-WQF.rq\_rb\_miss 12011

i0.defaultMemory.channel0.FRFCFS-WQF.wq\_rb\_hits 53536

i0.defaultMemory.channel0.FRFCFS-WQF.wq\_rb\_miss 17936

i0.defaultMemory.channel0.FRFCFS-WQF.total\_drains 4466

i0.defaultMemory.channel0.FRFCFS-WQF.total\_drain\_writes 71456

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 4469316

i0.defaultMemory.channel0.FRFCFS-WQF.average\_drain\_cycles 1000.74

i0.defaultMemory.channel0.FRFCFS-WQF.minimum\_drain\_cycles 262

i0.defaultMemory.channel0.FRFCFS-WQF.maximum\_drain\_cycles 1328

i0.defaultMemory.channel0.FRFCFS-WQF.total\_non\_drain\_cycles 99857109

i0.defaultMemory.channel0.FRFCFS-WQF.average\_drain\_spacing 22359.4

i0.defaultMemory.channel0.FRFCFS-WQF.minimum\_drain\_spacing 1238

i0.defaultMemory.channel0.FRFCFS-WQF.maximum\_drain\_spacing 17618358

i0.defaultMemory.channel0.FRFCFS-WQF.total\_read\_cycles 95387793

i0.defaultMemory.channel0.FRFCFS-WQF.average\_read\_spacing 21358.7

i0.defaultMemory.channel0.FRFCFS-WQF.minimum\_read\_spacing 617

i0.defaultMemory.channel0.FRFCFS-WQF.maximum\_read\_spacing 17617928

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 4236

i0.defaultMemory.channel0.FRFCFS-WQF.average\_reads\_during\_drain 0.9485

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 16434

i0.defaultMemory.channel0.FRFCFS-WQF.averageLatency 79.5308

i0.defaultMemory.channel0.FRFCFS-WQF.averageQueueLatency 14473.1

i0.defaultMemory.channel0.FRFCFS-WQF.averageTotalLatency 14552.6

i0.defaultMemory.channel0.FRFCFS-WQF.measuredLatencies 160628

i0.defaultMemory.channel0.FRFCFS-WQF.measuredQueueLatencies 160628

i0.defaultMemory.channel0.FRFCFS-WQF.measuredTotalLatencies 160628

i0.defaultMemory.channel0.FRFCFS-WQF.simulation\_cycles 103671708

i0.defaultMemory.channel0.FRFCFS-WQF.wakeupCount 316567

i0.defaultMemory.totalReadRequests 89156

i0.defaultMemory.totalWriteRequests 71497

i0.defaultMemory.successfulPrefetches 0

i0.defaultMemory.unsuccessfulPrefetches 0

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