

Advisor <@juwels01.ib.juwels.fzj.de>

Recalculate automatic

POP Assessment : ...cnodes...

Parallel Efficiency	1%	Very poor	0.01
Load balance	15%	Very poor	0.17
Communication Efficiency	5%	Very poor	0.07
Serialisation Efficiency	0%		
Transfer efficiency	0%		
Stalled Resources	0%		
IPC			
Instructions (only computation)			
Computation time	Value 486.89		

Candidates

Callpath	Issue

CubeGUI-4.5.0: scorep_hemepure_gpu_20a_129_trace/summary+topo.cubex <@juwels01.ib.juwels.fzj.de>

Absolute

Metric tree

- 0.00 Time (sec)
- 0.00 Execution
 - 6569.44 Computation
 - 432.60 CUDA kernels
 - 0.00 MPI
 - 2591.95 Management
 - 61.62 Synchronization
 - 0.00 Communication
 - 5.09 Point-to-point
 - 1176.11 Collective
 - 0.00 One-sided
 - 175.93 File I/O
 - 3632.37 Request Handling
 - 0.00 CUDA
 - 0.54 Initialization and Finalization
 - 141.14 Memory management
 - 180.72 Synchronization
 - 6.53 Kernel launches
 - 0.40 Overhead
 - 1.51e7 Visits (occ)
 - 5.10e11 Bytes transferred (bytes)
 - 2.02e5 MPI file operations (occ)
 - 269.69 Computational imbalance (sec)
 - 1.86e9 io_bytes_read (bytes)
 - 7.44e9 io_bytes_written (bytes)

0.00 7002.04 (46.76%) 1.50e4

Metric selection percent

Call tree Flat view

- 0.01 hemepure_gpu_20a.scorep (0.00%)
 - 0.00 main (0.00%)
 - 0.00 MPI_Init
 - 93.03 SimulationMaster
 - 0.00 RunSimulation
 - 0.00 MPI_Gather
 - 0.00 DoTimeStep
 - 0.00 RecalculatePropertyRequirements
 - 0.60 HandleActors (3.82%)
 - 0.00 MPI_Waitall
 - 0.02 PreSend
 - 0.02 PreReceive
 - 0.00 MPI_Isend
 - 0.01 PostReceive
 - 0.12 EndIteration
 - 0.00 MPI_irecv
 - 0.00 MPI_File_write_at
 - 0.00 cudaStreamSynchronize
 - 0.00 MPI_Gather
 - 0.00 AreDensitiesAvailable
 - 0.00 Finalise
 - 0.00 ~SimulationMaster
 - 0.00 MPI_Finalize

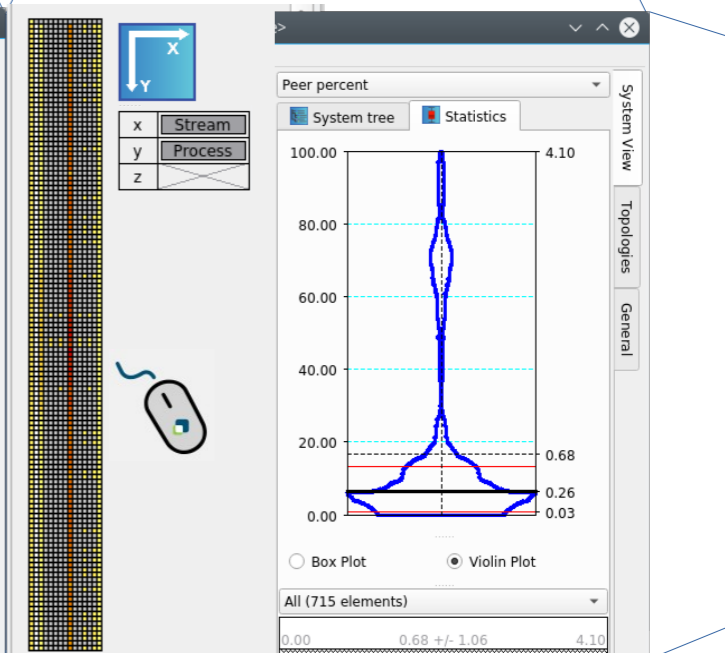
0.00 6.95 100.00
0.00 485.32 (7.45%) 6513.65

Peer percent

System tree Statistics

- machine Linux
 - node jwc09n033.adm09.juwels.fzj.de
 - 0.68 Master thread
 - 12.01 Master thread
 - 0.00 CUDA[0:7]
 - 0.83 CUDA[0:17]
 - 54.26 CUDA[0:23]
 - 9.98 CUDA[0:26]
 - 9.99 CUDA[0:28]
 - 1.95 CUDA[0:31]
 - MPI Rank 2
 - 12.66 Master thread
 - 0.00 CUDA[1:7]
 - 1.10 CUDA[1:17]
 - 57.04 CUDA[1:23]
 - 8.87 CUDA[1:26]
 - 8.42 CUDA[1:28]
 - 0.21 CUDA[1:31]
 - MPI Rank 3
 - 12.13 Master thread
 - 0.00 CUDA[2:7]
 - 1.12 CUDA[2:17]
 - 57.13 CUDA[2:23]
 - 2.49 CUDA[2:31]
 - MPI Rank 4

0.00 0.00 (0.00%) 100.00
0.00 486.89



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Note: Print on A3 paper for a cube of 85mm³ suitable for common acrylic PhotoCube frames. Adjust scale accordingly for other frames.