

```

main.cc
188         dim3 block(1,1,1);
189         int runKernel = ThreadBlockLayout( grid, block, numParticles);
190
191         //Call Cycle Tracking Kernel
192         if( runKernel )
193             CycleTrackingKernel<<grid, block >>>( monteCarlo, numParticles, processingVault, proce
194
195         //Synchronize the stream so that memory is copied back before we begin MPI section
196         cudaPeekAtLastError();
197         cudaDeviceSynchronize();
198         #endif
199     }
200     break;
201
202     case gpuWithOpenMP:
203     {
204         int nthreads=128;
205         if (numParticles < 64*56 )

```

Top-down view Bottom-up view Flat view



Scope	GINS:Sum (I)	GINS:Sum (E)
▼ loop at main.cc: 55	2.13e+11 100.0%	
▼ 58: cycleTracking(MonteCarlo*)	2.13e+11 100.0%	
▼ loop at main.cc: 159	2.13e+11 100.0%	
▼ loop at main.cc: 159	2.13e+11 100.0%	
▼ loop at main.cc: 163	2.13e+11 100.0%	
▼ 193: [I] CycleTrackingKernel(MonteCarlo*, int, ParticleVault*, ParticleVault*)	2.13e+11 100.0%	
▼ 127: __device_stub__Z19CycleTrackingKernelP10MonteCarloIP13ParticleVaultS2_(MonteCarlo*, int, P	2.13e+11 100.0%	
▼ 14: [I] cudaLaunchKernel<char>	2.13e+11 100.0%	
▼ 210: cudaLaunchKernel [qs]	2.13e+11 100.0%	
▼ <gpu kernel>	2.13e+11 100.0%	
▼ CycleTrackingKernel(MonteCarlo*, int, ParticleVault*, ParticleVault*)	2.13e+11 100.0%	7.17e+07 0.
▼ 132: CycleTrackingGuts(MonteCarlo*, int, ParticleVault*, ParticleVault*)	2.13e+11 100.0%	1.05e+10 4.
▼ loop at CycleTracking.cc: 118	1.72e+11 80.6%	1.97e+09 0.
▼ 63: CollisionEvent(MonteCarlo*, MC_Particle&, unsigned int)	1.06e+11 49.8%	2.04e+10 9.
▼ loop at CollisionEvent.cc: 67	8.20e+10 38.5%	1.76e+09 0.
▼ loop at CollisionEvent.cc: 71	7.79e+10 36.6%	5.59e+09 2.
▼ 73: macroscopicCrossSection(MonteCarlo*, int, int, int, int, int)	7.13e+10 33.5%	2.67e+10 12.
▼ 41: NuclearData::getReactionCrossSection(unsigned int, unsigne	4.38e+10 20.6%	4.38e+10 20.
NuclearData.cc: 253	1.60e+10 7.5%	1.60e+10 7.
▶ [I] inlined from QS_Vector.hh: 94	1.37e+10 6.4%	1.37e+10 6.
▶ [I] inlined from NuclearData.cc: 193	8.75e+09 4.1%	8.75e+09 4.
NuclearData.cc: 251	2.40e+09 1.1%	2.40e+09 1.
NuclearData.cc: 252	1.71e+09 0.8%	1.71e+09 0.