

Elapsed Time[?]: 8.024s

CPU Time[?]: 6.560s

Total Thread Count: 33

Paused Time[?]: 0s

Top Hotspots

This section lists the most active functions in your application. Optimizing these hotspot functions typically results in improving overall application performance.

Function	Module	CPU Time [?]	% of CPU Time [?]
podio::ROOTReader::openFile	libpodioRootIO.so	2.540s	38.7%
cl::sycl::queue::queue	cc	0.589s	9.0%
Intel::OpenCL::Utils::OclDynamicLib::Load	libcpu_device.so.2022.13.3.0	0.322s	4.9%
memmove	libc-dynamic.so	0.320s	4.9%
_INTERNALca6fd304::tbb::detail::d0::machine_pause	libtbb.so.12	0.310s	4.7%
[Others]	N/A*	2.479s	37.8%

*N/A is applied to non-summable metrics.

Fig.1 Wall Time of 1k events with SYCL

Elapsed Time[?]: 4.057s

CPU Time[?]: 2.700s

Total Thread Count: 31

Paused Time[?]: 0s

Top Hotspots

This section lists the most active functions in your application. Optimizing these hotspot functions typically results in improving overall application performance.

Function	Module	CPU Time [?]	% of CPU Time [?]
podio::ROOTReader::openFile	libpodioRootIO.so	2.531s	93.7%
syscall	libc.so.6	0.030s	1.1%
read	libc-dynamic.so	0.011s	0.4%
eidc::ProtoClusterCollection::push_back	libeidc.so	0.010s	0.4%
__GI__getdents64	libc.so.6	0.010s	0.4%
[Others]	N/A*	0.108s	4.0%

*N/A is applied to non-summable metrics.

Fig.2 Wall Time of 1k events without SYCL

Elapsed Time [?]: 18.183s

CPU Time [?]: 16.400s
 Total Thread Count: 33
 Paused Time [?]: 0s

Top Hotspots

This section lists the most active functions in your application. Optimizing these hotspot functions typically results in improving overall application performance.





Function	Module	CPU Time [?]	% of CPU Time [?]
podio::ROOTReader::openFile	libpodioRootIO.so	3.183s	19.4%
_INTERNALca6fd304::tbb::detail::d0::machine_pause	libtbb.so.12	2.239s	13.7%
cl::sycl::queue::submit<Jug::Reco::CalorimeterIslandCluster::find_maxima(std::vector<std::pair<unsigned int, eicd::CalorimeterHit>, std::allocator<std::pair<unsigned int, eicd::CalorimeterHit>>> const&, bool) const::{lambda(cl::sycl::handler&)#1}>	cc	1.259s	7.7%
cl::sycl::event::wait_and_throw	libsycl.so.5	1.201s	7.3%
sched_yield	libc.so.6	0.920s 	5.6% 
[Others]	N/A*	7.598s 	46.3% 

Fig.3 Wall Time of 10k events with SYCL

Elapsed Time [?]: 4.457s

CPU Time [?]: 3.130s
 Total Thread Count: 31
 Paused Time [?]: 0s

Top Hotspots

This section lists the most active functions in your application. Optimizing these hotspot functions typically results in improving overall application performance.

Function	Module	CPU Time [?]	% of CPU Time [?]
podio::ROOTReader::openFile	libpodioRootIO.so	2.580s	82.4%
eicd::CalorimeterHitCollection::operator[]	libeicd.so	0.090s	2.9%
eicd::ProtoClusterCollection::~ProtoClusterCollection	libeicd.so	0.070s	2.2%
podio::EventStore::doGet	libpodio.so	0.070s	2.2%
eicd::ProtoClusterCollection::ProtoClusterCollection	libeicd.so	0.060s	1.9%
[Others]	N/A*	0.260s	8.3%

*N/A is applied to non-summable metrics.

Fig.4 Wall Time of 10k events without SYCL

Elapsed Time[?]: 52.771s

✓ CPU Time [?] :	61.380s
Effective Time [?] :	46.811s
⌚ Spin Time [?] :	8.079s
✓ Overhead Time [?] :	6.490s
Creation [?] :	0s
Scheduling [?] :	6.490s
Reduction [?] :	0s
Atomics [?] :	0s
Other [?] :	0s
Total Thread Count:	33
Paused Time [?] :	0s

Top Hotspots

This section lists the most active functions in your application. Optimizing these hotspot functions typically results in improving overall application performance.

Function	Module	CPU Time [?]	% of CPU Time [?]
<code>_INTERNALca6fd304::tbb::detail::d0::machine_pause</code>	libtbb.so.12	12.235s	19.9%
<code>cl::sycl::queue::submit<Jug::Reco::CalorimeterIslandCluster::find_maxima(std::vector<std::pair<unsigned int, eicd::CalorimeterHit>, std::allocator<std::pair<unsigned int, eicd::CalorimeterHit>> const&, bool) const::(lambda(cl::sycl::handler&)#1)></code>	cc	8.948s	14.6%
<code>cl::sycl::event::wait_and_throw</code>	libsycl.so.5	6.417s	10.5%
<code>sched_yield</code>	libc.so.6	5.204s	8.5%
<code>cl::sycl::detail::buffer_impl::~~buffer_impl</code>	cc	3.755s	6.1%
[Others]	N/A*	24.820s	40.4%

*N/A is applied to non-summable metrics

Fig.5 Wall Time of 100k events with SYCL

Elapsed Time[?]: 7.104s

CPU Time[?]: 5.690s

Total Thread Count: 31

Paused Time[?]: 0s

Top Hotspots

This section lists the most active functions in your application. Optimizing these hotspot functions typically results in improving overall application performance.

Function	Module	CPU Time [?]	% of CPU Time [?]
podio::ROOTReader::openFile	libpodioRootIO.so	2.520s	44.3%
eidc::ProtoClusterCollection::ProtoClusterCollection	libeidc.so	0.580s	10.2%
eidc::CalorimeterHitCollection::operator[]	libeidc.so	0.480s	8.4%
eidc::ProtoClusterCollection::~~ProtoClusterCollection	libeidc.so	0.480s	8.4%
podio::EventStore::doGet	libpodio.so	0.400s	7.0%
[Others]	N/A*	1.230s	21.6%

*N/A is applied to non-summable metrics.

Fig.6 Wall Time of 100k events without SYCL