With Intel seemingly ramping up work on their open-source OSPray portable ray-tracing engine now that they have pulled it under their oneAPI umbrella as part of a forthcoming rendering tool-kit, I figured it would be the latest interesting candidate for benchmarking of AMD EPYC 7742 vs. Intel Xeon Platinum 8280 performance. In addition, the Embree ray-tracing kernels are also being benchmarked as part of this performance comparison.

Intel's oneAPI is expected to see a beta release next quarter and among the libraries making up the oneAPI Rendering Toolkit will be OSPray and Embree. The OSPray ray-tracing engine is geared for scientific visualizations and supports a wide range of features all while being open-source under the Apache 2.0 license. OSPray also builds off Embree itself as well as the Intel SPMD Program Compiler (ISPC). The SPMD Program Compiler is for Intel's C-derived language optimized for SIMD on their modern architectures.

[1]

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Links: