

95% decrease

in latency compared to a CPU implementation of a Monte Carlo application in C++.<sup>1</sup>

“It’s pivotal in a way that OpenCL wasn’t. oneAPI is key at making the development process more approachable allowing more heads to jump on the problem resulting in a faster Time to Market process.”

Engineer at CSS

# Creative Solutions Space Develops an FPGA Monte Carlo Acceleration Library with Intel® oneAPI

[Creative Solutions Space Ltd \(CSS\)](#) drives solutions in wide range of areas like Grid Computing in HPC, Edge Analytics, and Smart Gateways. They build compute acceleration applications and enterprise solutions through analytics with a focus on interoperability and secure deployment for on-premises and cloud infrastructures. As demand for hardware accelerated workloads increases, it is critical for FPGA design houses and Independent Software Vendors to prototype designs and produce proof-of-concepts for customers with faster time to market. In approximately three weeks, CSS developed a performant prototype of a Monte Carlo Acceleration Library for FPGAs using Intel® oneAPI toolkits.

## Products and Solutions

[Intel® Stratix® 10 GX FPGAs](#)

[Intel® FPGA Programmable Acceleration Card D5005](#)

[Intel® oneAPI Base Toolkit](#)

[Intel® FPGA Add-on for oneAPI Base Toolkit](#)

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