

Building for Zettascale with Intel and the Cambridge Open Zettascale Lab

The Cambridge Open Zettascale Lab (COZL)—originally the Cambridge Open Exascale Lab—was founded in 2020 as a center for research and education. The mission of COZL is to “explore, test, and advance the next generation of high-performance computers.” Exascale and zettascale computing hold the promise to solve many ‘grand challenge’ problems. The computation provided by such systems is a significant step forward compared to most systems today, but those systems have a number of different pain points in usage. COZL was set up to define those pain points, and try to address them within a design constraint of using - as much as possible - commoditized open standard solutions and open source software. Working with Intel and Dell, and incorporating the latest technologies, exascale platforms will enable us to get closer to solving some of the world’s biggest problems.

“oneAPI is new programming environment made by Intel focused on portability and scalability of codes on large-scale supercomputers, which makes access in this class of system much easier, providing on-demand cloud-like access to incredibly complicated supercomputers.”

Dr. Paul Calleja, Director of Research Computing, University of Cambridge

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