



2.076 petaFLOPS

in LINPACK performance,
Cannon is ranked
186 in the TOP500 list.¹

“Our new Cannon cluster delivers four-times greater performance than our previous infrastructure within the same physical footprint, yet it only requires 50% more power.² This is thanks in large part to the direct-to-node water-cooling design, as it enables us to run the Intel® Xeon® Scalable processors at 3.5 GHz for 85% of the time without them overheating.”

Scott Yockel, University Research Computing Officer, Harvard University

Harvard University Faculty of Arts & Sciences Advances Research with a New HPC Cluster

Harvard’s Faculty of Arts & Sciences Research Computing (FASRC) center provides researchers with the high-performance computing (HPC) resources they need to process massive datasets, perform complex calculations, and answer important questions in science, engineering, mathematics, medicine and dozens of other disciplines. Wanting to take full advantage of the latest advances in CPU technology with higher wattages, while also enabling more performance per core, FASRC deployed a new HPC cluster based on Lenovo ThinkSystem servers, 2nd Gen Intel® Xeon® Scalable processors, and Lenovo Neptune liquid cooling technology. With the new system, researchers from across Harvard have access to world-class HPC resources via FASRC.

Products and Solutions

[2nd Generation Intel® Xeon® Scalable processors](#)

Industry

Higher Education

Organization Size

10,001+

Country

United States

Partners

[Lenovo](#)

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^{1,2} For more complete information about performance and benchmark results, visit <https://www.intel.com/content/www/us/en/customer-spotlight/stories/harvard-lenovo-customer-story.html>