2.076 petaFLOPS
in LINPACK performance, Cannon is ranked 186 in the TOP500 list.[1]

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.

"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

Products and Solutions
2nd Generation Intel® Xeon® Scalable processors

Industry
Higher Education

Organization Size
10,001+

Country
United States

Partners
Lenovo

Learn more
Case Study

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