



“With processors, execution speed is very important, which is why we chose the C5 and z1d instances, but reliability is also critical. Obviously, a glitch in the middle of a job that needs to run for three to four days is really problematic. In the year or so of our first design project, we experienced thousands of machines that were rock solid from an infrastructure standpoint with almost no crashes.

Jitendra Mohan, CEO of Astera Labs

Astera Labs Novel Cloud-only Approach Leads to Faster, Better Chip Designs

Astera Labs, Inc. develops purpose-built connectivity solutions for data-centric systems. The company went from being a brand-new startup to having a fully designed next generation PCIe 5.0 chipset in less than a year using a novel cloud-only business model running on Amazon Web Services (AWS). Astera Labs was quick to take advantage of Intel® Xeon® Scalable processor in EC2 z1d instances. Six Nines, a Premier AWS Consulting Partner, helped Astera Labs architect, configure and maintain their end-to-end chip design environment. By operating exclusively in the cloud, Astera Labs enjoys a high degree of operational flexibility. It can easily scale compute resources up and down as needed and employ resources that make the most sense for a given workload.

Products and Solutions
[2nd Gen Intel® Xeon® Scalable processors](#)

Industry
 Technology

Organization Size
 1-50

Country
 United States

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¹ For more complete information about performance and benchmark results, visit <https://www.intel.com/content/www/us/en/customer-spotlight/stories/astera-labs-cloud-based-hpc-case-study.html>