



# Vexata File Solution for EDA

Solution Brief

## Innovate and Execute Faster

The Vexata File Solution brings unparalleled performance at scale for today's most demanding Electronic Design Automation (EDA) workloads. Accelerate simulation, synthesis, layout, timing closure and design rule checks for today's largest and most complex semiconductor designs.

By combining the revolutionary VX-100F Scalable Flash Array, powered by VxOS software, with the industry-proven IBM Spectrum Scale distributed file system, the Vexata File Solution helps you get your designs right the first time and get to market faster.

See the Vexata File Solution brief for technical details.

## Key Benefits

### Get to Market Faster

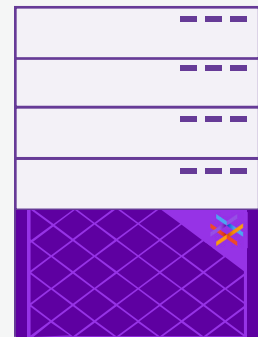
- 1M+ Random File IOPS
- Sub-millisecond response
- 50GB/s Read, 25GB/s Write

### Reduce Development Costs

- 2-4X higher CAD server and license utilization

### Protect and Secure Your Data

- N+2 data protection
- Geo-replication
- Data-at-rest encryption



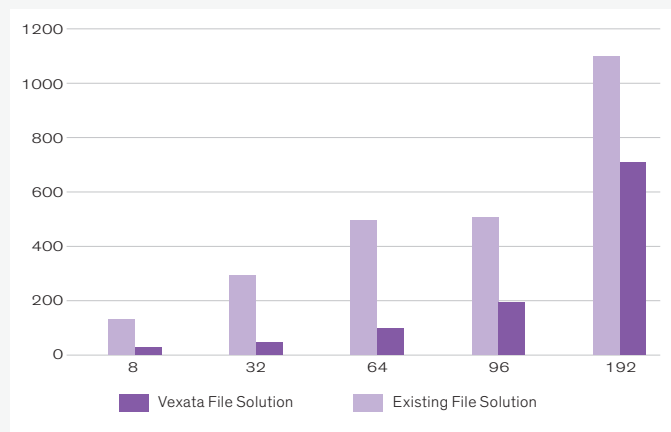
VX-100FS File Storage System

## Customer Case Study

One of the world's leading semiconductor companies needed to accelerate their EDA jobs for their next generation 10B+ transistor design. We benchmarked the Vexata File Solution using their EDA workload test suite so they could compare the results to their existing solution based on one of the world's leading data storage companies.

- **Customer Benchmark:** NFSv3 file system meta-data operations run as 8-192 jobs across 16 clients, with 100's of millions of small files created and deleted. This showed from 1.5X to 5X improvements over the customer's existing NFSv3 solution on read, write, file metadata, and burst operations.
- **Spec SFS 2014 SP2 with EDA Business Metrics:** Vexata showed 40% ORT (Overall Response Time) improvements over the customer's existing solution.

Wall Clock Time (ms) vs No. of Jobs



### ABOUT VEXATA:

Vexata is the leader in active data management solutions. Vexata's unique breakthrough enterprise offerings enable transformative performance and scale from database and analytics applications. With unparalleled ability to consume the latest in media like NVMe Flash and now 3D XPoint™\* SSDs, Vexata systems deploy simply and seamlessly into existing storage environments. Learn more at [www.vexata.com](http://www.vexata.com)

Contact Vexata: [sales@vexata.com](mailto:sales@vexata.com)