

Xilinx Alveo powers NoLoad[®] CSP

INTRODUCTION

Today's world of faster and more virtualized-servers, storage, and network connections, means that workloads are growing in scale and complexity. A critical application to guarantee improved Quality of Service (QoS) is the database, and a database's interactions with storage are critical to improve overall speed and user experience.

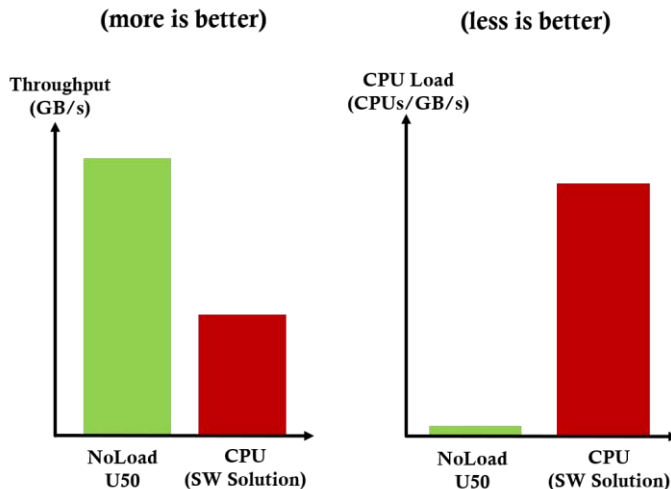
A new generation of accelerator that can optimize storage for the database is required. Eideticom's NoLoad Computational Storage Processor (CSP) delivers the flexibility to accelerate a range of database applications by leveraging hardware-based computational offloads with unmatched scalability, performance and efficiency.

KEY BENEFITS

- **Reduced TCO/TCA:** Lower Power with Reduced I/O
- **CPU Offload:** Supercharged Application Performance with dramatically improved Quality of Service (QoS)
- **Plug-and-Play:** NVMe Complaint, Inbox drivers for all major operating systems

SOLUTION OVERVIEW

Eideticom's NoLoad[®] Computational Storage Processor (CSP) with the Xilinx[®] Alveo™ U50 was used to accelerate Hadoop. The NoLoad CSP Alveo accelerates both Compression and Erasure Coding, making it the ideal solution to accelerate MapReduce workloads.



SOLUTION BRIEF



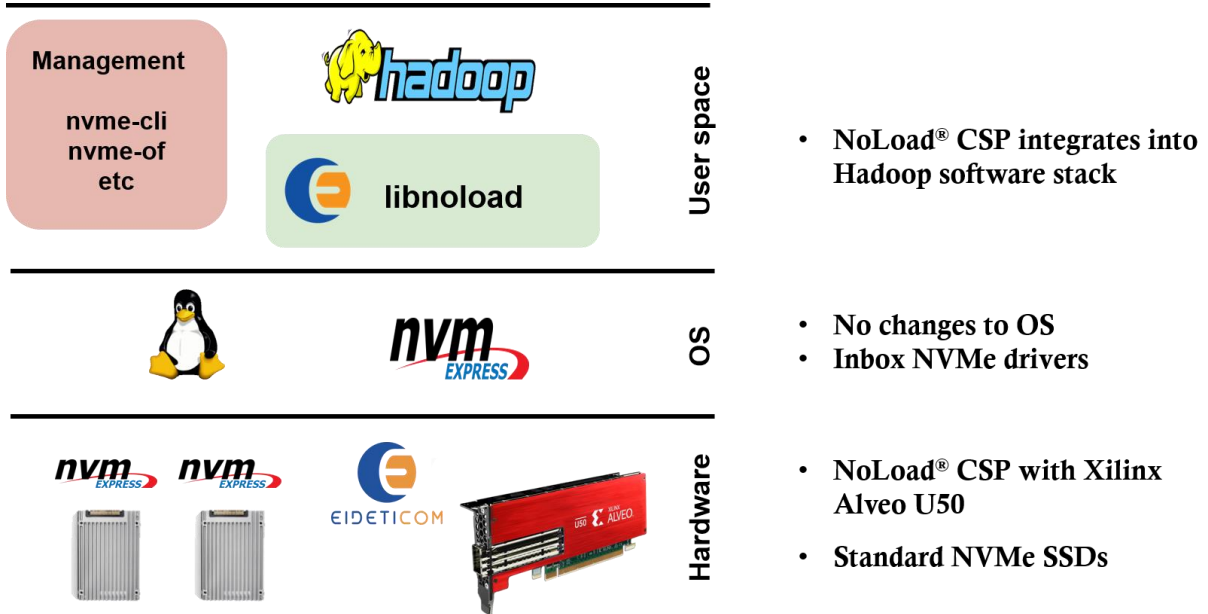
- **25x CPU Efficiency**
- **2.5x Job Throughput**
- **30% Lower Total Cost**



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SOLUTION DETAILS

Eideticom's NoLoad CSP with the Xilinx Alveo U50 solutions are ideal for database acceleration; and integrate directly into software stacks like Hadoop.



RESULTS

Eideticom's NoLoad Computational Storage Processor (CSP) with Xilinx Alveo U50 solution resulted in significant improvements when compared to a software-only solution.

- **25x** CPU Efficiency
- **2.5x** Job Throughput
- **30%** Lower Total Cost

Eideticom's NoLoad CSP with Xilinx Alveo U50 results in accelerating data center infrastructure, enabling greater scalability and dramatically lowering cost.

TAKE THE NEXT STEP

Learn more about Xilinx Alveo Accelerator Cards [Alveo accelerators](#)
For more information about Eideticom, please visit www.eideticom.com
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