

# Burst Buffer Acceleration

Xilinx Alveo powers Eideticom NoLoad<sup>®</sup> Computational Storage

## INTRODUCTION

In order to keep pace with increasing scale of data and processing in HPC, burst buffers are a critical bridge between compute and back-end storage. Eideticom's NoLoad<sup>®</sup> Computational Storage accelerated by Xilinx<sup>®</sup> Alveo<sup>™</sup> is a high performance and efficient solution for burst buffering.

## KEY BENEFITS

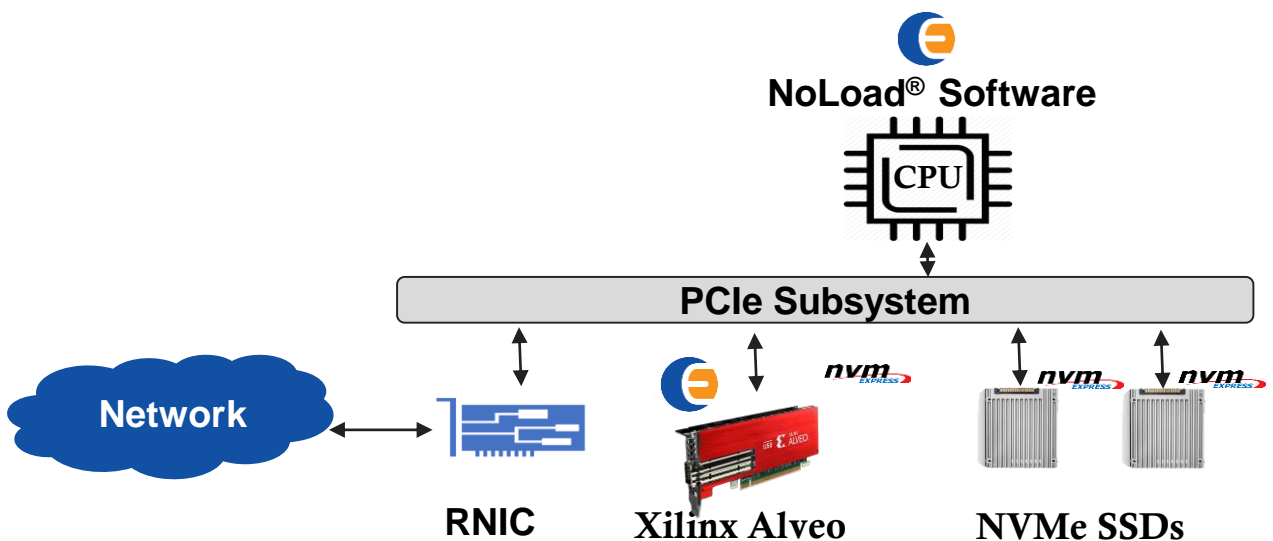
- Reduced burst-buffer storage costs
- Minimized checkpoint time through Increased burst buffer write speed
- Reduced data movement and improved power efficiency.
- Burst buffer can be filled and drained at the same time.
- Compression computation is offloaded from the CPU

**SOLUTION BRIEF**

- High performance
- Simpler, lower cost storage
- Minimized checkpoint time

## SOLUTION OVERVIEW

The Eideticom HPC Burst Buffer solution combines fast block storage and high-speed network devices with Eideticom's NoLoad<sup>®</sup> CSP and software.



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## SOLUTION DETAILS & KEY BENEFITS

**Add Eideticom NoLoad<sup>®</sup> Burst Buffer to any Standard Linux Server**

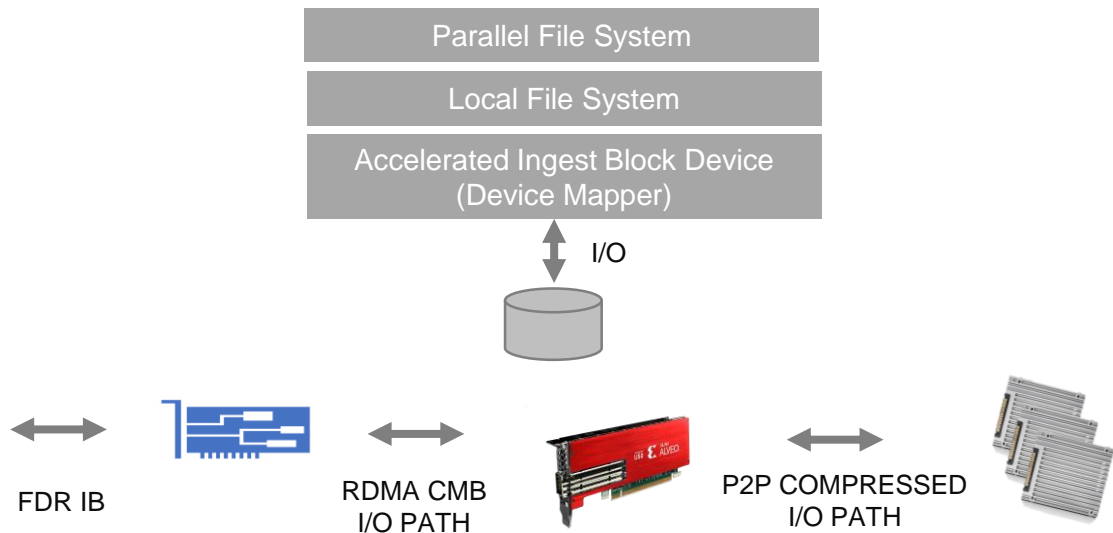
Hardware required:

- Xilinx Alveo U50, U200 or U250
- Standard NVMe SSDs.
- RDMA enabled Network Interface Card (NIC).

Software stack:

- p2pdma enabled operating system (e.g., Linux).
- Eideticom software running on host server
- NoLoad<sup>®</sup> Computational Storage Processor (CSP) software running on Xilinx Alveo.

## LOGICAL VIEW / DEVICE MAPPING



## TAKE THE NEXT STEP

Learn more about [Alveo accelerators](#)

Learn more about [Eideticom](#)

Reach out to Eideticom sales – [sales@eideticom.com](mailto:sales@eideticom.com)