Cornelis Networks Interconnecting a Data-Driven World

83rd HPC User Forum

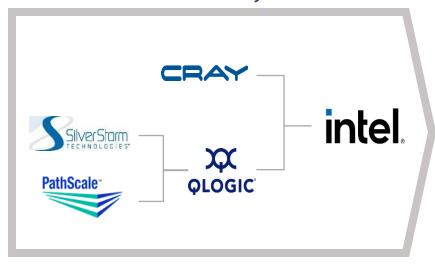
Glenn Brook glenn.brook@cornelisnetworks.com



A History of Driving Interconnect Innovation

A PROVEN PEDIGREE

InfiniBand + Cray Aries





Omni-Path Express

MARKET-LEADING
TECHNOLOGY
Predictable Performance at Scale

CONTINUING INNOVATION

Driving Fabric Performance

Roadmap Innovation to 1600Gbps

Network-based Compute

CXL Expansion

Open and Interoperable

Unlocking the performance of technical computing workloads for over 20 years



Delivering Predictable Performance at Scale

2023 2024 2026 2028 100Gb/s Omni-Path 100 CN5000 CN6000 CN700	mpute
100Gb/s 400Gb/s 800Gb/s	
Omni-Path 100 CN5000 CN6000 CN700	ib/s
	00
— In Market — Final Development — Architecture — Plannin	
 On-prem HPC and AI training Industry-leading latency Industry-leading message rates Scales to 36.8K endpoints Zero-latency link protection Traffic flow optimization Hyperscale / Cloud AI & HPC Low-diameter topologies Advanced routing algorithms Scales to 330K endpoints Innovative, telemetry-based, fine-grained adaptive routing Tail latency minimization Hyperscale / Cloud AI & HPC Network-based computing RISC-V acceleration Fabric-specific accelerators Advanced interoperability Scales to 330K endpoints Co-packaging opting 	able solutions ased compute enhancements c accelerators

Omni-Path Express – Future-proofing your Investment

Omni-Path Express Software Suite

Drivers + Provider + Management

Omni-Path 100

CN5000

CN6000

CN7000

- Seamless transition to future Omni-Path platforms
- Consistent performance and experience across generations
- Performance tuned for HPC and AI

- Open software approach provides
 - Ease of use It just works
 - Ease of migration
 - Complete ecosystem interoperability

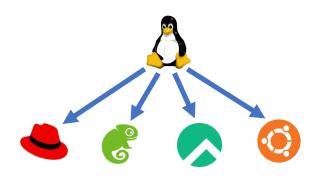


Embracing an Open Ecosystem

GitHub







- Contributing to the communities we serve
 - In-tree driver
 - Upstream-first user space via libfabric
 - OpenBMC with Redfish management interfaces
 - Access fabric telemetry via public API

- Openness accelerates innovation
 - Lowers barriers to entry
 - Enhances convergence
 - Enables interoperability
 - Facilitates optimization
 - Allows customization

Help out by participating in the Open Fabrics Alliance and promoting open standards



Cornelis Networks

Interconnecting a Data-Driven World

Thank you for your time!

