



NVIDIA Networking Unit.

BayNex 문지연

APR. 2021
JIYEON MOON

BayNex



AGENDA

Nvidia Networking Unit. Overview

- End-to-End Interconnect Solution
 - NVIDIA To Acquire Mellanox
-

Why Infiniband?

- Infiniband Key Features
 - Why Infiniband
-

GPU DGX POD Reference

Summary

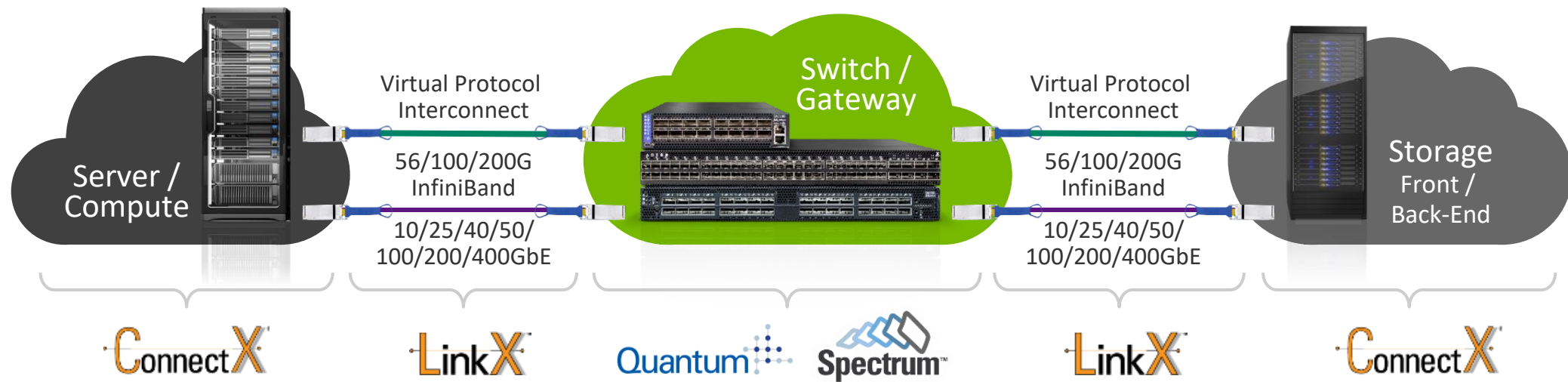
NVIDIA Networking Unit. Overveiw

- End-to-End Interconnect Solution
- NVIDIA Acquire to Mellanox



End-to-End Interconnect Solutions

Low-latency, High-Performance, High-Throughput



NVIDIA To Acquire Mellanox

NVIDIA AI Infra with high Performance Networking

The screenshot shows a web browser window displaying the NVIDIA Newsroom page for the acquisition of Mellanox. The URL is <https://nvidianews.nvidia.com/news/nvidia-to-acquire-mellanox-for-6-9-billion>. The page features the NVIDIA logo and navigation menus for Platforms, Developers, Community, Shop, Drivers, Support, and About NVIDIA. A secondary menu includes Newsroom, Multimedia, Executive Bios, Media Contacts, and In The News. The main article is titled "NVIDIA to Acquire Mellanox for \$6.9 Billion" and is dated Monday, March 11, 2019. It includes a search bar, social media sharing options (Facebook, Twitter, LinkedIn, Reddit, Email), and a list of key points. The article text states that NVIDIA and Mellanox have reached a definitive agreement for a \$6.9 billion acquisition. A "Media Contacts" section lists Robert Sherbin and Simona Jankowski. A "Related Documents" section is also visible. The Windows taskbar at the bottom shows the year 2019 and several open applications.

NVIDIA

PLATFORMS ▾ DEVELOPERS ▾ COMMUNITY ▾ SHOP DRIVERS ▾ SUPPORT ABOUT NVIDIA ▾

NEWSROOM Multimedia Executive Bios Media Contacts In The News

News **NVIDIA to Acquire Mellanox for \$6.9 Billion**
Monday, March 11, 2019

Search Newsroom SEARCH
[▶ Search News Archive](#)

- Unites leaders in processing and interconnect for the high performance computing market
- Builds on the companies' long history of collaboration and joint innovation
- Expected to be accretive to NVIDIA's non-GAAP gross margin, non-GAAP EPS and free cash flow immediately after close

NVIDIA and Mellanox today announced that the companies have reached a definitive agreement under which NVIDIA will acquire Mellanox. Pursuant to the agreement, NVIDIA will acquire all of the issued and outstanding common shares of Mellanox for \$125 per share in cash, representing a total enterprise value of approximately \$6.9 billion. Once complete, the combination is expected to be immediately accretive to NVIDIA's non-GAAP gross margin, non-GAAP earnings per share and free cash flow.

The acquisition will unite two of the world's leading companies in high performance computing (HPC). Together, NVIDIA's computing platform and Mellanox's interconnects power over 250 of the world's TOP500 supercomputers and have as customers every major cloud service provider and computer maker.

Media Contacts

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Related Documents

2019 Skype for Business Mellanox_Corpo... Network Connect Ebay_Mellanox_C... Spectrum large w... NVIDIA to Acquir... EN 3:54 PM

Why Infiniband?

- Infiniband Key Features
- Why Infiniband





SUPERCONNECTING the #1 Supercomputers



OAK RIDGE
National Laboratory

Lawrence Livermore
National Laboratory

国家超级计算无锡中心
National Supercomputing Center in Wuxi

TACC
TEXAS ADVANCED COMPUTING CENTER

AIST
NATIONAL INSTITUTE OF
ADVANCED INDUSTRIAL SCIENCE
AND TECHNOLOGY (AIST)

Lawrence Livermore
National Laboratory



1 **TOP 500**
The List.

2 **TOP 500**
The List.

3 **TOP 500**
The List.

5 **TOP 500**
The List.

8 **TOP 500**
The List.

10 **TOP 500**
The List.

InfiniBand Accelerates 6 of Top 10 Supercomputers

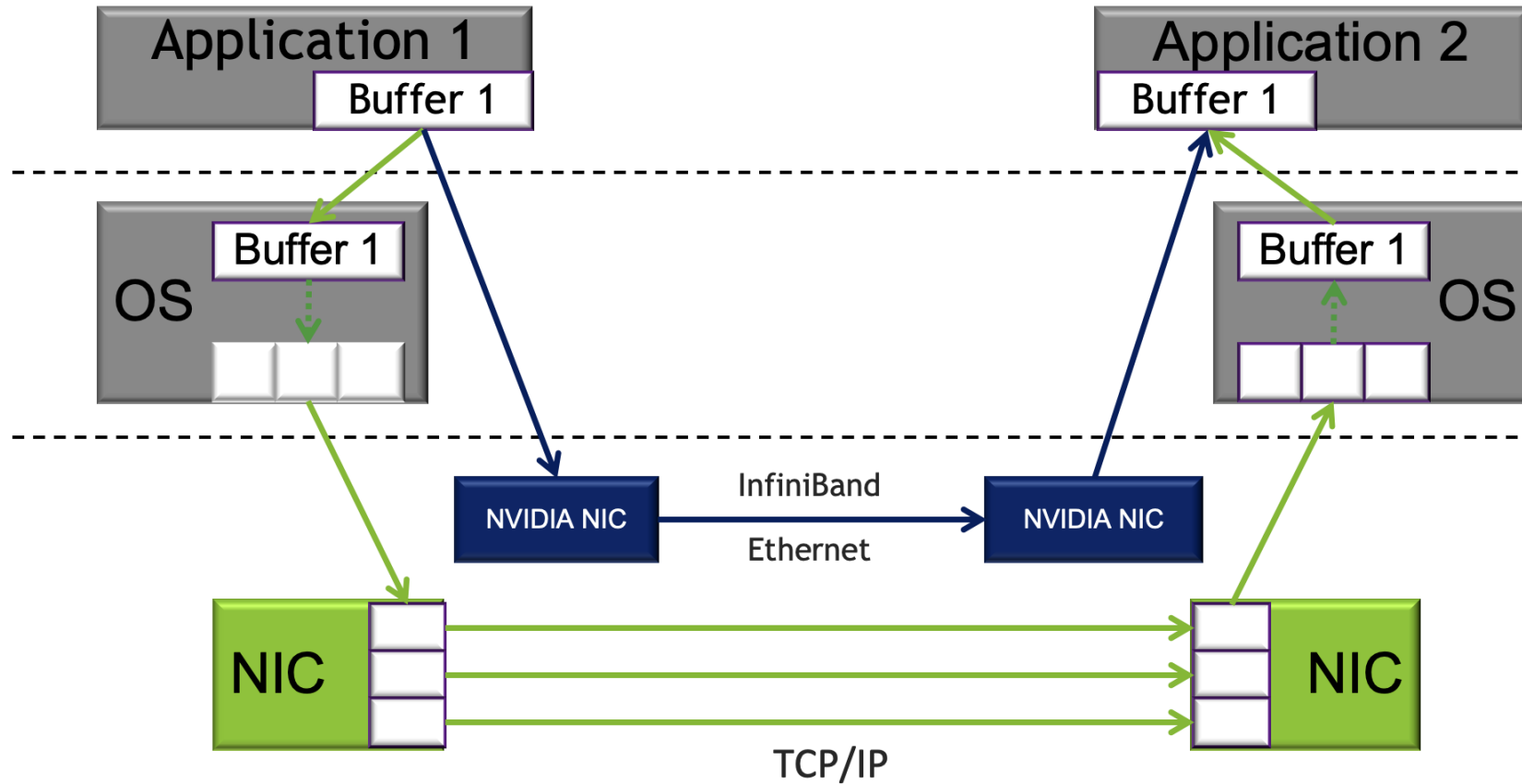
Why Infiniband?

Infiniband Key Features



RDMA

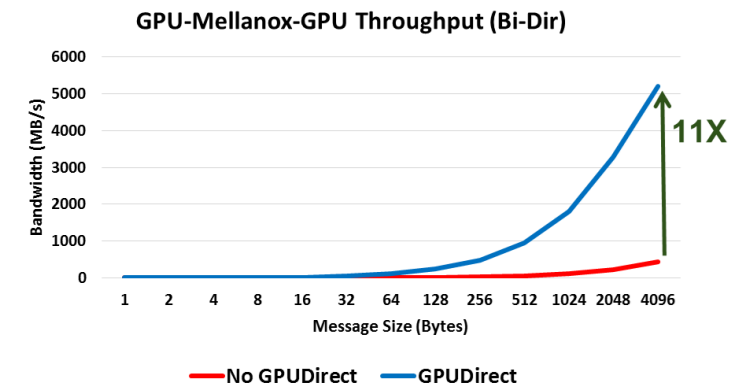
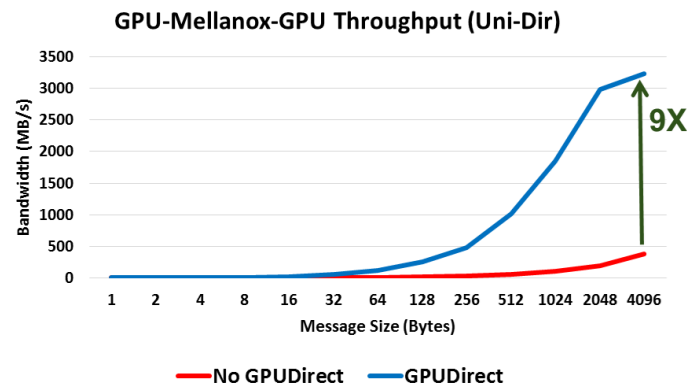
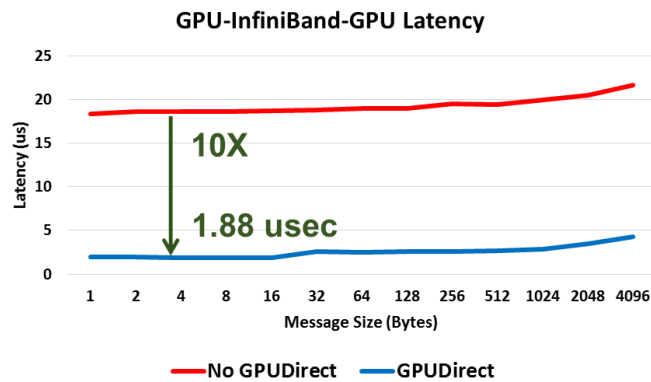
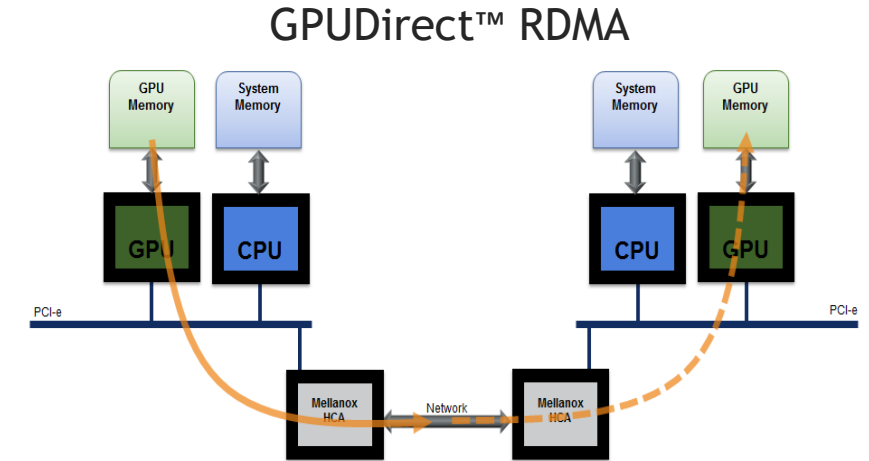
Remote Direct Memory Access



GPUDirect™ RDMA

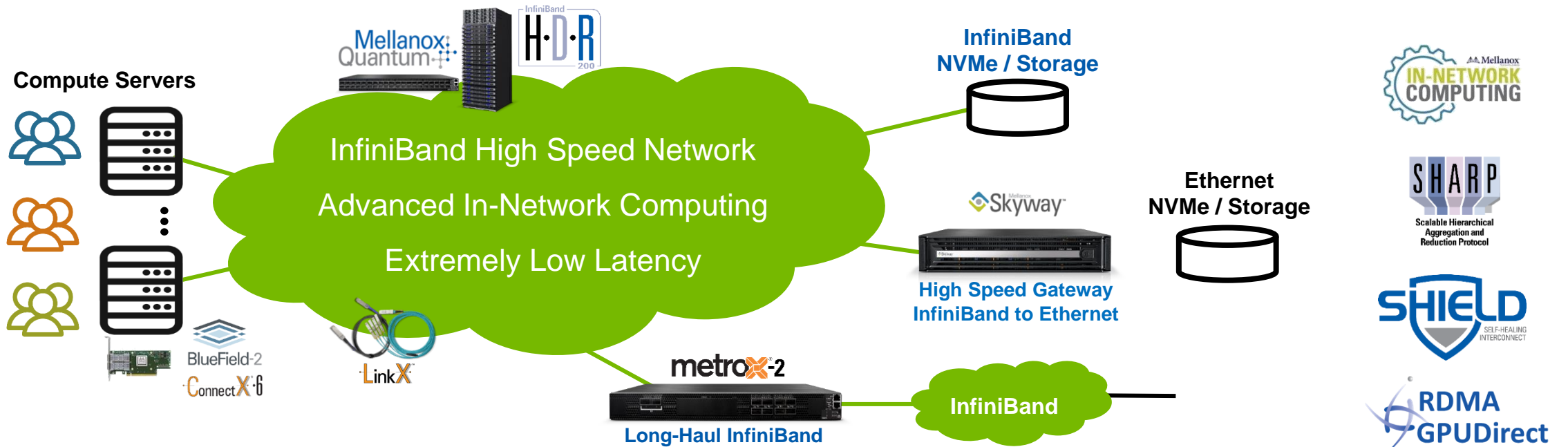
10X higher Performance

- Accelerates HPC and Deep Learning performance
- Lowest communication latency for GPUs



Why Infiniband?

Infiniband Delivers High Performance and ROI



GPU POD Reference

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Summary

- End-to-End Interconnect Solution
- Why Infiniband?
Key Features
Offload (RDMA, GPUDirect)
- GPU POD Reference

문의사항

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Thank you.



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