



INFINIBAND, OMNI-PATH, AND HIGH-SPEED ETHERNET FOR DUMMIES

23 January 2018

VŠB - Technical University Ostrava
IT4Innovations building, room 207

LECTURERS

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InfiniBand (IB), Omni-Path, and High-speed Ethernet (HSE) technologies are generating a lot of excitement toward building next generation High-End Computing (HEC) systems including clusters, datacenters, file systems, storage, cloud computing and Big Data (Hadoop, Spark, HBase, and Memcached) environments. RDMA over Converged Enhanced Ethernet technology is also emerging. This tutorial will provide an overview of these emerging technologies, their offered architectural features, their current market standing, and their suitability for designing HEC systems.

Tuesday 23 January 2018

Course agenda

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| 09:00 | 09:30 | Registration |
| 09:30 | 11:00 | Trends in High-End Computing
Why IB, Omni-Path and HSE?
Overview of InfiniBand Architecture |
| 11:00 | 11:15 | Coffee break |
| 11:45 | 12:45 | Overview of the Omni-Path Architecture
Overview of High Speed Ethernet, Convergence and Features
Overview of IB, Omni-Path, and HSE Products, Time-frames, and Market Trends
Sample performance numbers with IB, Omni-Path, and HSE
Conclusions, Final Q&A, and Discussion |

