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An in-depth evaluation of the Intel Omni-Path network for LQCD applications

Several parallel machines on which Lattice LQCD applications are being run utilize a new fabric, Intel Omni-Path. We present an overview of Omni-Path, comparing it to the well-known competitor InfiniBand. In the process of adding support for Omni-Path to our communication library pMR we discovered several insights which we discuss along some general usage recommendations. We substantiate our findings with benchmarks obtained on QPACE 3, which is based on Intel KNL and Omni-Path.

Title

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