P2S2 2016 Foreword

In the past decade, high-end computing (HEC) architectures have become an important tool in all aspects of scientific discovery. Having ushered in an era where HEC-enabled simulation is considered a third pillar of science along with theory and experiment, HEC architectures have quickly become a credible direction of focused and long-term research. Rapid advances are taking place in different aspects of HEC architectures in an effort to improve performance. Recently, multi- and many-core systems (Intel, AMD), alternative architectures and accelerators (GPGPUs), high-speed network architectures (InfiniBand, Omnipath), and integrated computing platforms (Blue Gene, Cray) have been introduced alongside this effort. Equally important is system software, which plays a crucial role in extracting the raw performance of the underlying hardware effectively. At the same time, it is critical to research innovative, high-performance Parallel Programming models that enable scientists to express parallel algorithms so that they can execute efficiently on HEC architectures.

The goal of the Programming Models and Systems Software (P2S2) workshop is to bring together researchers and practitioners in parallel programming models and systems software for high-end computing architectures. Please join us in a discussion of new ideas, experiences, and the latest trends in these areas at the workshop.

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