Invited Talk

Leveraging Blue Gene for Commercial Applications

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Abstract

Blue Gene is recognized as a world leader in the HPC marketplace. Many of the characteristics that have contributed to this success are valuable for Financial Service customers. Blue Gene's low power per computation ratio, ultra-reliability, small footprint, and low cost-of-ownership, are valuable to commercial customers. However, programming environments on Blue Gene have traditionally been geared to the HPC space instead of traditional commercial customers. Currently, several teams in IBM Research are investigating programming models suitable for using Blue Gene in a commercial environment. Notable among them is an engagement with TD Bank for streaming financial applications. In this talk I will describe the different areas of ongoing research and describe the effectiveness of bringing Blue Gene technology to bear on these commercial problems.

Biography

Dr. Wisniewski is a research scientist and Manager of the Blue Gene Software Team at IBM Research. Robert received his PhD from the University of Rochester. Prior to coming to IBM Research, he worked at SGI on Operating System design and bring-up for their high-end Origin servers as well as real-time performance on parallel machines. He started at IBM Research working on the K42 project, a research effort aimed at designing from the ground up, a scalable customizable operating system for small parallel machines up to large-scale machines used in scientific computing.