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## Special Guest Lectures

## IBM's HPC Strategy

Dave Jursik, IBM HPC Business

World-Wide Vice President

Johnston Hall 338

January 10, 2012 - 10:00 am

**Abstract:**

Dave will discuss the challenges facing HPC as we look to the future. Looking back, we have defined HPC in terms of floating point operations per second. The future brings different challenges in both the ability to harness the full hardware capacity and how we will measure our ability to ingest and analyze larger and larger problem sets; the big data challenge. Meanwhile, providing energy efficient hardware solutions will be a key factor and Dave will show state of the art green installations. Dave will discuss the challenges facing HPC as we look to the future. Looking back, we have defined HPC in terms of floating point operations per second. The future brings different challenges in both the ability to harness the full hardware capacity and how we will measure our ability to ingest and analyze larger and larger problem sets; the big data challenge. Meanwhile, providing energy efficient hardware solutions will be a key factor and Dave will show state of the art green installations. IBM has many offerings and solutions that are tailored for a wide array of problem sets; from map reduce and accelerator based solutions to deep analytics based offerings. Building a robust architectural framework will be key to providing research based HPC. Examples will be presented showing innovative work that IBM has done. IBM has many offerings and solutions that are tailored for a wide array of problem sets; from map reduce and accelerator based solutions to deep analytics based offerings. Building a robust architectural framework will be key to providing research based HPC. Examples will be presented showing innovative work that IBM has done.

**Speaker's Bio:**

Dave currently is the World-wide Vice President responsible for IBM's Deep Computing business. The Deep Computing sales and marketing organization brings together all of IBM's server, storage and systems and data management solutions to address the comprehensive needs of the global technical computing marketplace in Government, Higher Education, Life Sciences, Automotive, Petroleum and Financial Services. These solutions span the range of unix and linux server solutions (x86, Blue Gene, power 7), industry leading disk and tape storage management solutions, high performance parallel file system software and common cluster systems management tools to integrate the operation of IBM's Intel, AMD and Power based servers. In addition, the Deep Computing OnDemand solution is a new initiative to host large computational jobs on a just in time basis ushering in true OnDemand capacity for high performance computing requirements. Lastly, Deep Computing Visualization provides a leadership solution for both immersive and remote visualization requirements. Dave previously had worldwide sales responsibility for IBM's Linux Cluster solutions. These solutions span the range of IBM's Intel and AMD based server solutions, systems management software and integration services. The government, academic, life sciences, automotive, electronics, petroleum exploration and production and financial services sectors are all considered key growth segments for Linux Clusters. These high performance computing solutions have proven to be an effective way of lowering the price performance of running quantitative workloads and improving the research and development processes in each of the referenced industries. In addition, Linux Clusters have begun to expand into the new application areas of compute farms for scientific and engineering analysis, webserving environments, business intelligence and digital media. Prior to this Dave was the Vice President responsible for e-business solutions sales in the Western third of the United States. These solutions included the full suite of products and services required to implement Enterprise Resource Planning, Customer Relationship Management, Supply Chain and e-Procurement applications. Finally, Dave has over 30 years of related IT and industry sales experience spanning Industrial, Distribution, Financial Services and Government Sectors in both commercial and technical applications sales, marketing, business development and executive leadership roles.

**Refreshments will be served.****This lecture has a reception.**