



## **SAMARA TECHNOLOGY GROUP ANNOUNCES OPTIMIZED PORT OF GAMESS TO WINDOWS HPC SERVER**

### **High Performance Computational Chemistry on Windows HPC Clusters**

**June 1, 2011 Boxford, Massachusetts** – Samara Technology Group, LLC, a leader in high performance application optimization announced today a fully native port of the General Atomic and Molecular Electronic Structure System (GAMESS) to Windows HPC Server.

In conjunction with researchers from the Ames Laboratory at Iowa State University, as well as engineers from Microsoft, Samara's engineers achieved application performance on par with that of the latest Linux cluster technology.

“We find that the Windows HPC Server platform can compete directly with the latest in Linux cluster technology”, said Philip Mucci, Director of Business Development. “Our engineers were able to quickly migrate GAMESS to the Microsoft platform and run problems that have national importance at scale. CPU availability, operating system and communications performance were all notably exceptional. Our extensive experience on diverse HPC platforms suited us very well for this engagement, allowing us to do very fine-grained comparisons of the performance of GAMESS on Microsoft HPC Server versus comparable Linux installations.”

Changes to GAMESS made by Samara were integrated back into the GAMESS source code. “A porting effort is not enough; the new code needs to be validated across a wide range of inputs and integrated back into the main source code repository as soon as possible,” said Emery Davis, Director of Numerical Algorithms and chief engineer on the GAMESS project.

“By leveraging the expertise and working with the talented team at Samara Technology Group, we gained valuable insights. The results achieved by Samara demonstrate how customers can benefit from Windows HPC Server,” said Ryan Waite, Partner Director, Windows HPC Server. “Samara was able to establish Windows HPC Server's excellent performance and value for important workloads such as computational chemistry and GAMESS and we welcome GAMESS to the Windows HPC platform.”

For more information on GAMESS, visit <http://www.msg.ameslab.gov/games>.

#### **About Samara Technology Group, LLC**

[www.samaratechnologygroup.com](http://www.samaratechnologygroup.com)

Samara Technology Group, LLC specializes in delivering performance technology and consulting on platforms ranging from embedded platforms to massively parallel petaflop scale supercomputers. The company was founded by a small group of senior consultants, application engineers, managers and software architects with well over 100 years of experience in the field of computer performance. Clients range from small technology startups, to major computer system vendors, national laboratories and universities around the globe.

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