Stella
Today’s High-Performance Computer Answer for LAMMPS

www.CreativeC.com
A little history....

• Creative Consultants was founded in 1984
• Based in Albuquerque, New Mexico
• We have been supporting Los Alamos NL HPC needs since the beginning
• We started working with NVIDIA and GPU cluster computing in 2007
• Our expertise is in large-scale HPC cluster design and configuration for science and engineering
We discovered a need for HPC solutions that are:

- Fast
- Efficient
- Affordable
- Compact
- Scalable
Introducing “Stella”

Stella was designed to have the power of a large data-center cluster, with the size and efficiency of a workstation.
Stella Performance

Results are on www.GoCUDA.com

Stella HPC
Stella Efficiency

Efficiency Comparison in MFCalc/sec per watt

Results are on www.GoCUDA.com

Stella HPC
LAMMPS on Stella

- Started LAMMPS implementation after SC09
- 9 GPU configuration
- Combined LAMMPS with Stereoscopic 3D
Let’s run some demos!
Stella is a perfect fit for LAMMPS

- **Fast** - Up to 20x faster than conventional technology
- **Efficient** - Uses much less energy than other supercomputers in its class
- **Affordable** - Exceptional price per performance
- **Compact** - About the size of a two-drawer file cabinet
- **Scalable** - Adaptable to your HPC needs
Thanks for listening!

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Efficient Performance Computing

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