



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

HPC Today

We discovered a need for HPC solutions that are:

- Fast
- Efficient
- Affordable
- Compact
- Scalable

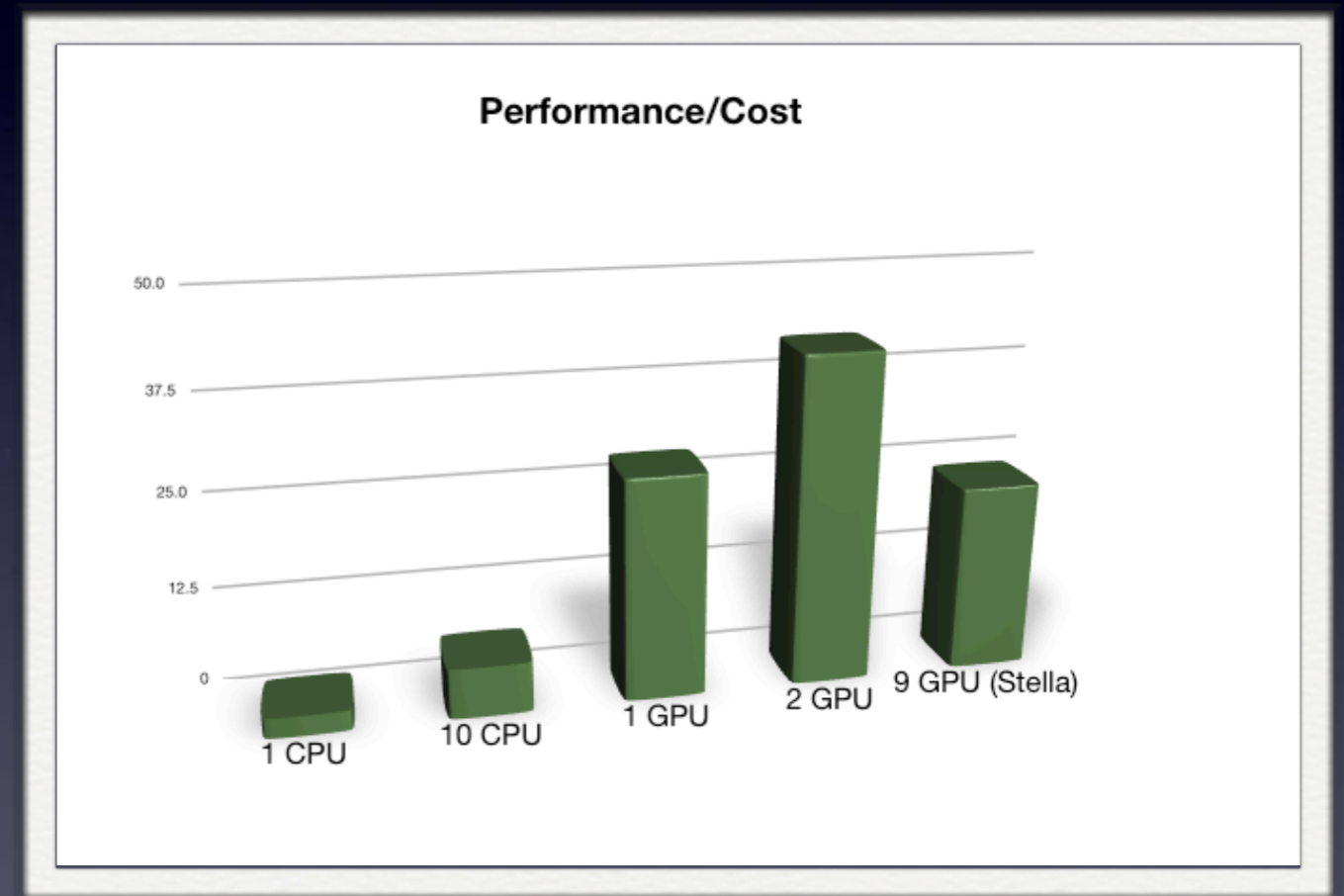
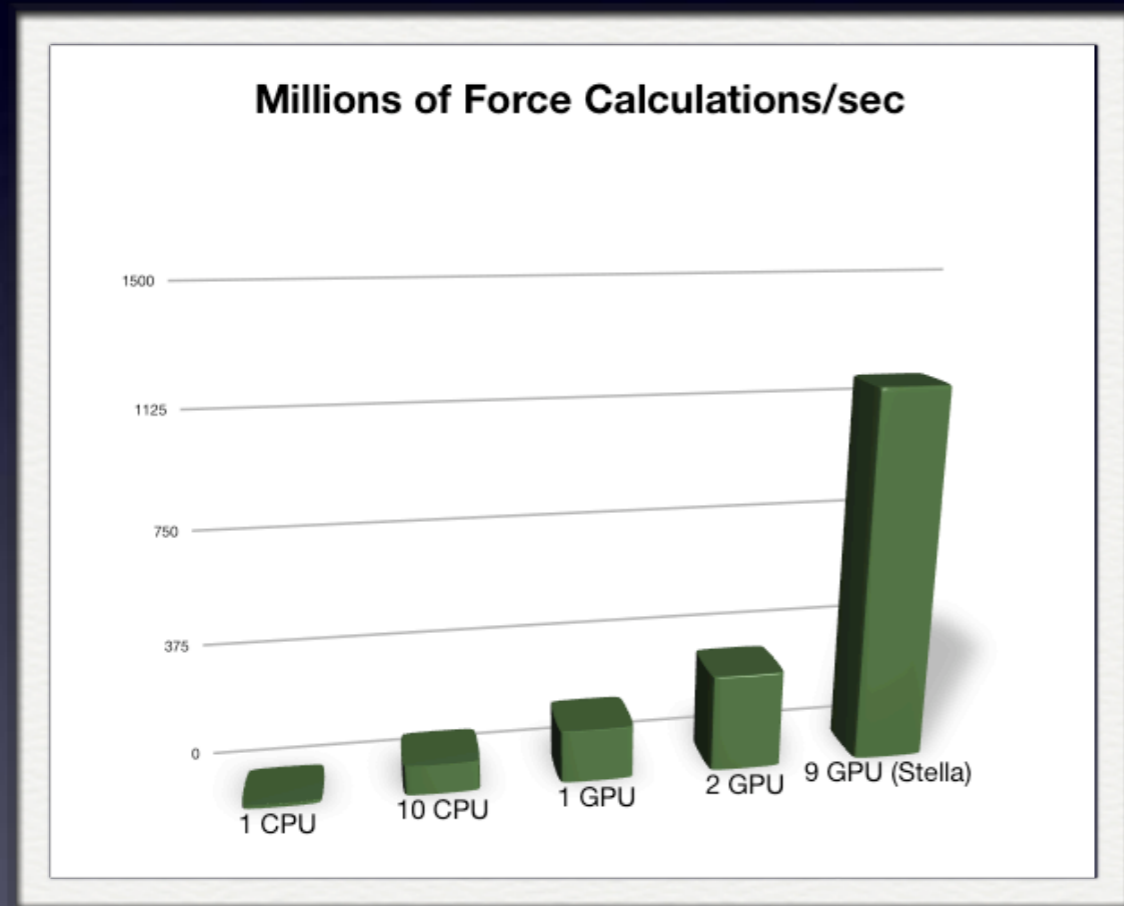
Introducing “Stella”

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



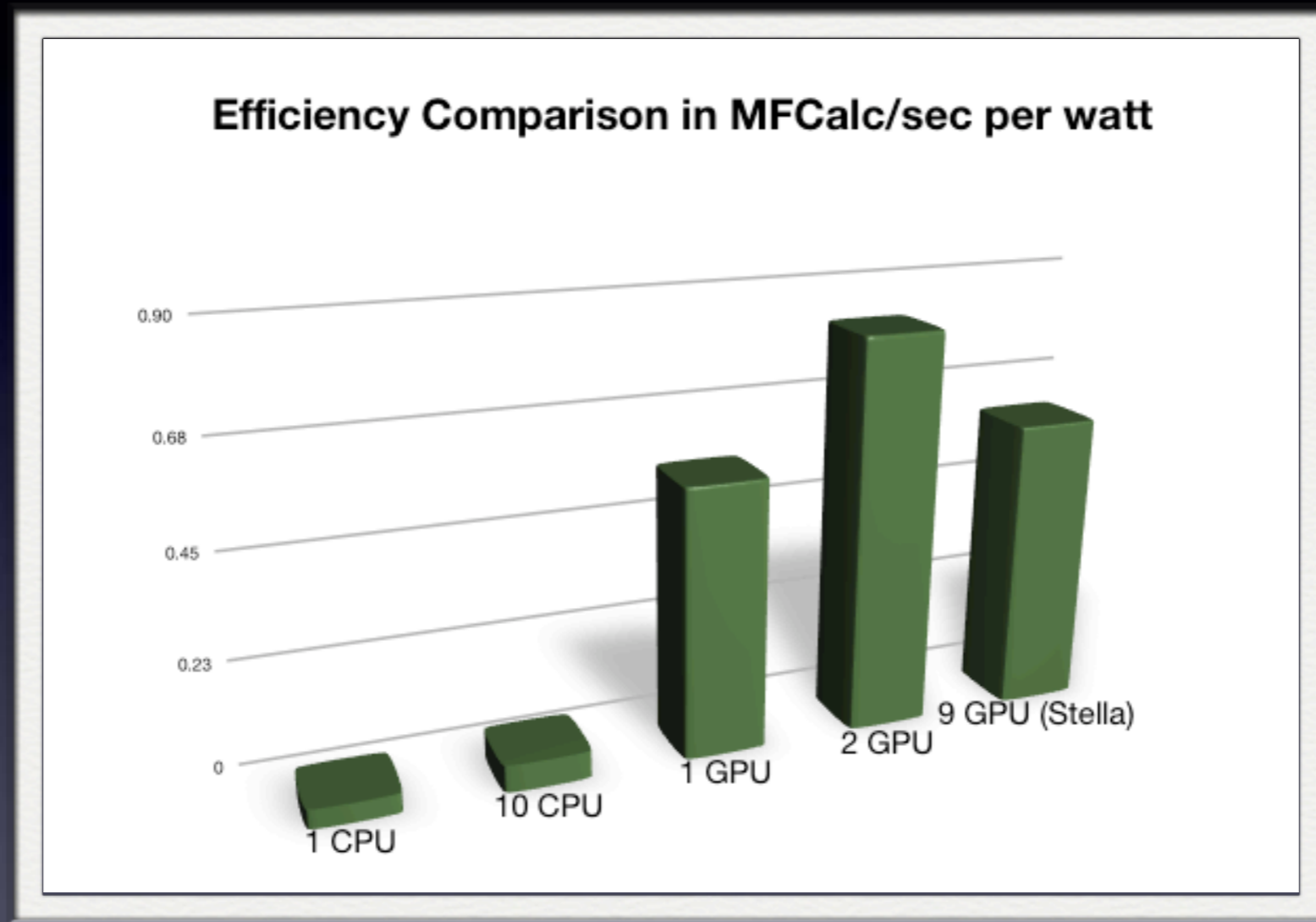
Stella HPC

Stella Performance



Results are on www.GoCUDA.com

Stella Efficiency



Results are on www.GoCUDA.com

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!



info@creativec.com

505-345-7222

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