Bringing Up Cielo: Experiences with a Cray XE6 System

Or, Getting Started with Your New 140k Processor System

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Cielo at a Glance

- 96 Racks
- 96 Nodes per Rack
- Two 8-core 2.4GHz Processors per Node
- 32GB Memory per Node
- Torus network: 4.68GB/s links
- 142,304 Total Compute Cores
- 284,608 GB Total Compute Memory
- 1.11 PF measured speed

(Blatantly ripped from top500.org)
Cielo’s Family

Cielo
Cielito
Smog
Muzia
Software Challenges
Software Challenges

- RPM Challenges
- Configuration Management Challenges
- Environment Management Challenges
Vendor Relations

![Lemonade Stand](image)
Conclusions

- Keeping good vendor relations helped us a lot
- Getting test systems early showed us problems early
  - Also helped us solve those problems early
- As always, configuration management is worthwhile
- Working as a team is important
  - Many people and groups came together to get Cielo up quickly
Questions?