Enabling Research

Research Computing

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Mission Statement

- To support USF faculty and students in their efforts to do transformational research through the availability of advanced technologies and computational expertise.

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Research Facilitators

- Help research faculty or students leverage advanced technology
- It's not just the technology, it's the people
- Computational scientist
- Visualization expert
- Student research facilitator program

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Resources

- Research Computing
  - High Performance and High Throughput Computing
  - Data management support
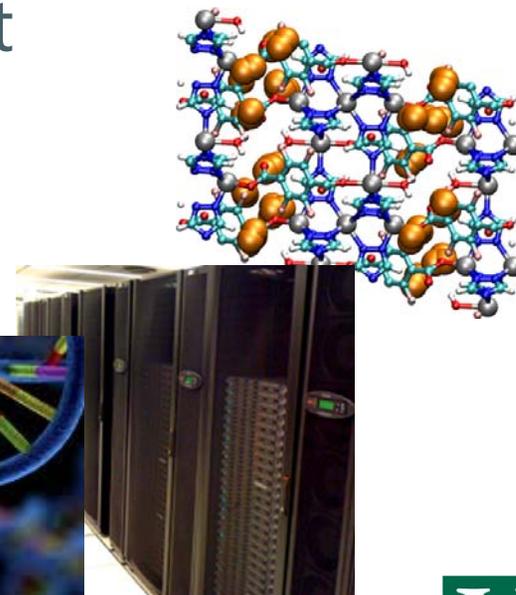
Resources

- Advanced Visualization Center
  - Visualization
  - 3D printing
  - 3D scanners
  - Specialty cameras
  - Virtual reality
  - Augmented reality
  - Visualization computer lab

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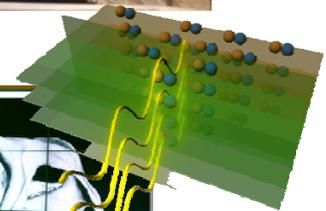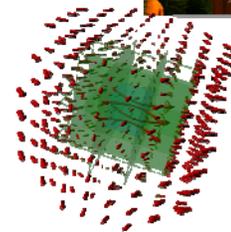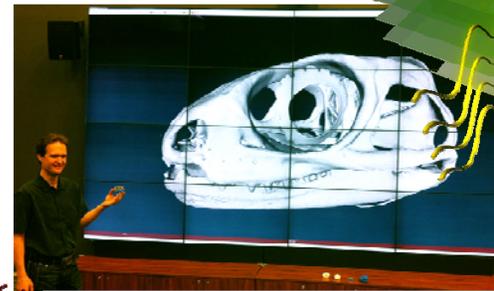
New Initiatives

- High speed data transfer node (DTN)
- Large research data storage
- Health library extension of the AVC
- Redcap – FISMA compliant cloud resource
- HIPAA compliant HPC/HTC environment

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New Initiatives

- Brokered cloud services:
    - Machine learning/Artificial intelligence
    - Specialized SAAS platforms
    - Calculation bursting
- Internet of things (IOT) laboratory
- 3D web viewer

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More Information

- Research Computing - http://www.usf.edu/it/research-computing/

- Advanced Visualization Center - http://avc.web.usf.edu/

- Email – dmajchrzak@usf.edu

- Questions?

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