

*Supporting Advanced Scientific Computing
Research • Basic Energy Sciences • Biological
and Environmental Research • Fusion Energy
Sciences • High Energy Physics • Nuclear Physics*

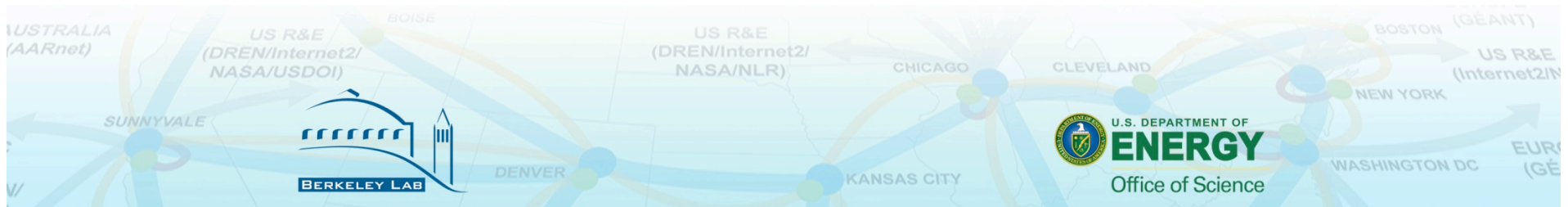
What my students are doing
with their summer break

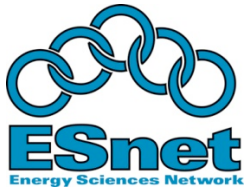
**Jon Dugan, Network Engineer
ESnet Network Engineering Group
Joint Techs – July 28, 2009**



Student Interns

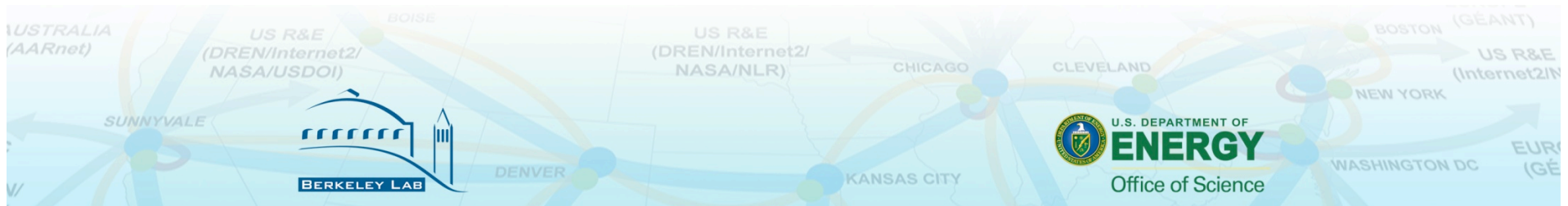
- Iperf 3.0 – Kaustubh Prabhu
- Net Almanac – Andrew Wang





Iperf 3.0

- Iperf API
 - Rewrite core functionality as an API
 - Highly flexible through use of function pointers
 - Written in C
 - Implement “Iperf the tool” using API
- Futures
 - SWIG bindings for Python, Perl, etc

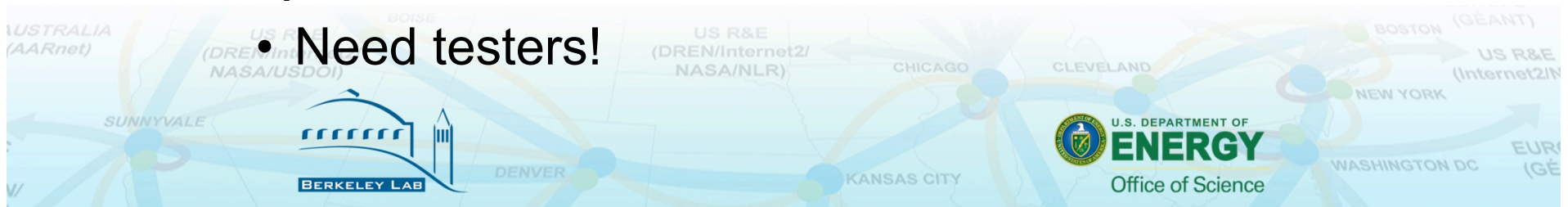


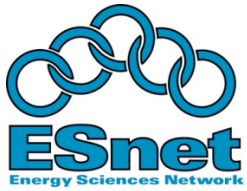


Iperf 3.0

- Current Status
 - Baseline functionality is there
 - IPv6 support is almost there
 - Focused on UNIX for now
 - Windows support lacking (volunteers?)
- Available on Google Code:
 - <http://code.google.com/p/iperf/>
 - Look for the iperf3 branch
 - Alpha release

• Need testers!





Net Almanac

“Why is there a traffic spike on this graph?”

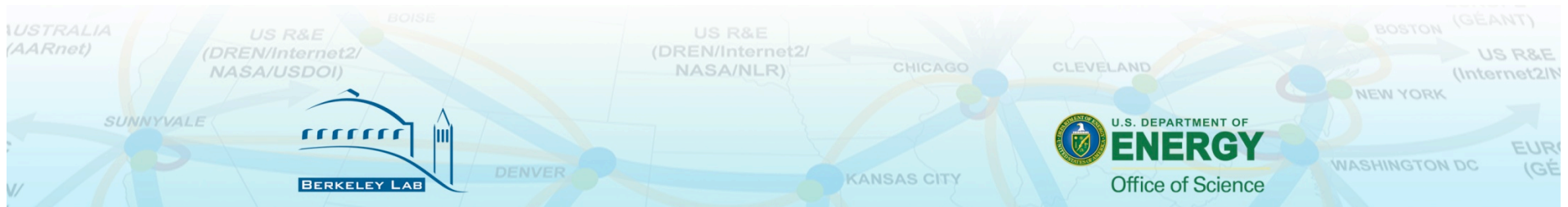
- Long term memory for events
 - conferences, data trials, etc
 - outages, maintenance
 - interface up/down
 - configuration changes
- Human interface
- Machine interfaces: REST/JSON





Net Almanac

- Current Status
 - feature complete
 - not extensively tested yet
 - new features will go in next release
- Available on Google Code
 - <http://code.google.com/p/net-almanac/>
 - Beta release this week





Contact Information

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Iperf 3:

<http://code.google.com/p/iperf/>

Net Almanac:

<http://code.google.com/p/net-almanac/>

