

TestRig 2.0

An Automated Network Test Suite
For High Performance Networks
From The Pittsburgh Supercomputing Center

12 Members Meeting, April 19, 2011

Collecting Data

- Network Diagnostics depends on the collection of data
 - Data often has to be gathered on the 'far side' of the connection
 - This often is an involved time consuming process
 - Arrange for access or coordinating with user
 - Installation of software
 - Multiple runs of tests
 - Modification of system parameters
 - Rerun tests...
 - Lather. Rinse. Repeat.
- The process of collecting data can take days!
- A faster method to collect data is required.

TestRig 2.0

- The answer? TestRig 2.0
 - Uses a bootable ISO running a known optimal configuration.
 - Automatically runs a series of tests & collects data
 - Iperf in TCP and UDP mode
 - Tcpdump
 - NDT & NPAD
 - Traceroute
 - Interface and user contact information
 - Sends the collected data back to an engineer at PSC using SSH
 - Optionally run the tests multiple times using different congestion algorithms
 - Easy for the user: Burn CD. Boot. Type one command. Done!
- Speeds the collection of data, reduces frustration and wasted time, and gets answers to users faster

Where?

- Trial CDs available from me!
- Also found at <http://staff.psc.edu/rapier/testrig.html>
- Instructions for building your own TestRig 2.0 server and customizing tests coming soon
- Contact: rapier@psc.edu