BWCTL Update

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Overview

• What is bwctl?
• Release status
• Internet2 backbone test points
What is it?

A resource allocation and scheduling daemon for arbitration of iperf tests

• Users want to verify available bandwidth from their site to another.

Methodology

• Verify available bandwidth from each endpoint to points in the middle to determine problem area.
Typical road blocks

• Need software on all test systems
• Need permissions on all systems involved (usually full shell accounts*)
• Need to coordinate testing with others *
• Need to run software on both sides with specified test parameters *

(* BWCTL was designed to help with these)
How it works

bwctl client

resource requests

initial connection

resource broker (master daemon)

request broker

peer agent

verify time return results

test process

test stream

request broker

peer agent

test process
Release status

• 1.2a still production release

• 1.3rc1 is available
  • Adds throughput tools
  • Fixes scheduling bugs
  • Improves error detection
  • Needs testing (specific tools/compatibility)
  • Needs documentation
Internet2 backbone test points

- Diagnostic test points available at all Internet2 IP Network router locations:
  - bwct1.POP.net.internet2.edu
  - POP = losa,salt,hous,kans,chic,atla,newy,wash