

MeasurementTools

Measurement Tools

Traceroute-like Tools:[traceroute](#),[MTR](#),[PingPlotter](#),[lft](#),[tracpath](#),[tracproto](#)

There is a large and growing number of path-measurement tools derived from the well-known `traceroute` tool. Those tools all attempt to find the route a packet will take from the source (typically where the tool is running) to a given destination, and to find out some hop-wise performance parameters along the way.

Bandwidth Measurement Tools:[pchar](#),[lperf](#),[bwctl](#),[nuttcp](#),[Netperf](#),[RUDE/CRUDE](#),[ttcp](#),[NDT](#), [DSL Reports](#)

Use: Evaluate the Bandwidth between two points in the network.

Active Measurement Boxes

Use: information about Delay, Jitter and packets loss between two probes.

- [DFN/GEANT2 HADES \(formerly IPPM\)](#)
- [RIPE TTM](#)
- [RENATER QoSMetrics](#)

Passive Measurement Tools

These tools perform their measurement by looking at existing traffic. They can be further classified into

- SNMP Device Polling: [MRTG](#), [Cricket](#)
- [Operating System Instrumentation](#), in particular [TCP Measurement Instrumentation](#)
- NetFlow-based: [flow-tools](#) etc.
- Packet Capture and Analysis Tools: [tcpdump](#), [Wireshark/Ethereal](#), [jnettop](#)

References

- [Network Troubleshooting Tools](#), [ESnetfasterdata](#) Network Performance Knowledge Base, February 2011 (last checked)
- [Performance Measurement Tools Taxonomy](#), CAIDA (Cooperative Association for Internet Data Analysis), December 2010 (last checked)

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