

Iperf

Iperf

Developer(s)	The Iperf team
Stable release	2.0.5 / July 9, 2010
Development status	stalled
Written in	C
Operating system	Cross-platform
Type	Bandwidth management
License	BSD license
Website	http://iperf.sourceforge.net/

iperf3

Preview release	iperf 3.0b5 / March 28, 2013
Development status	stalled
Type	Bandwidth management
Website	[1]

Iperf is a commonly used network testing tool that can create TCP and UDP data streams and measure the throughput of a network that is carrying them. Iperf is a tool for network performance measurement written in C. Iperf was developed by the Distributed Applications Support Team (DAST) at the National Laboratory for Applied Network Research (NLANR), a research lab that merged with the University of California San Diego's CAIDA group, but which was shut down on December 31, 2006 due to termination of funding by the USA's NSF.

Iperf allows the user to set various parameters that can be used for testing a network, or alternatively for optimizing or tuning a network. Iperf has a client and server functionality, and can measure the throughput between the two ends, either unidirectionally or bi-directionally. It is open source software and runs on various platforms including Linux, Unix and Windows.

- *UDP*: When used for testing UDP capacity, Iperf allows the user to specify the datagram size and provides results for the datagram throughput and the packet loss.
- *TCP*: When used for testing TCP capacity, Iperf measures the throughput of the payload. One thing to note is that Iperf uses 1024*1024 for megabytes and 1000*1000 for megabits.

Typical Iperf output contains a timestamped report of the amount of data transferred and the throughput measured.

Iperf is significant as it is a cross-platform tool that can be run over any network and output standardized performance measurements. Thus it can be used for comparison of both wired and wireless networking equipment and technologies. Since it is also open source, the measurement methodology can be scrutinized by the user as well.

GUI

There is a Graphical user interface (GUI) front end available called jperf [2] (also a Google Code project for jperf here ^[3])

iperf3

An attempt to rewrite Iperf from scratch, with the goal of a smaller, simpler code base and a library version of the functionality that can be used in other programs, called iperf3, was started in 2009. The latest beta version dates from March 2013. The website states: "iperf3 is not backwards compatible with iperf2.x".

Public iperf servers

- iperf.elte.net
- iperf.scottlinux.com
- mptcp.info.ucl.ac.be
- iperf.saratov.ertelecom.ru
- st2.nn.ertelecom.ru

Public test servers

- ACD.net ^[4]: iperf.acd.net
- SCT ^[5]: 159.16.237.138 -p 8001 TCP & -p 8002 UDP

References

- [1] <http://code.google.com/p/iperf/>
- [2] <http://dast.nlanr.net/projects/jperf/>
- [3] <http://code.google.com/p/xjperf/>
- [4] <http://acd.net>
- [5] <http://sct.gob.mx>

- Measure Network Performance with iperf (Part 1) (<http://www.enterprisenetworkingplanet.com/netos/article.php/3657236/Measure-Network-Performance-with-iperf.htm>), (Part 2) (<http://www.enterprisenetworkingplanet.com/netos/article.php/3658331/Measure-Network-Performance-iperf-and-ntop.htm>), article published by Enterprise Networking Planet
- Long Distance WiFi Trial ([http://www.eslared.org.ve/articulos/Long Distance WiFi Trial.pdf](http://www.eslared.org.ve/articulos/Long%20Distance%20WiFi%20Trial.pdf)), iperf used to measure 70 km Wi-Fi link
- Measuring end-to-end bandwidth with Iperf using Web100 (<http://www.csm.ornl.gov/~dunigan/pam.pdf>), whitepaper on modifications to Iperf to be less intrusive

External links

- Iperf site at SourceForge (<http://sourceforge.net/projects/iperf/?abmode=1>)
 - JPerf graphical frontend (<http://sourceforge.net/projects/iperf/files/jperf/>) (Developed on Google Code as the XJPerf project (<http://code.google.com/p/xjperf/>).)
- iperf3 site at Google Code (<http://code.google.com/p/iperf/>) (A reimplement of iperf.)
- (<http://iperf.fr/>)(French forum for iperf.)

Article Sources and Contributors

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