IP QoS Tester

Measurement of QoS (Quality of Service) parameters over IP networks

Product information

Product

☑ Software (Windows or Linux)
☐ Hardware [1]

Applications

☑ QoS measurement for existing networks
☑ QoS measurement for new networks
☑ QoS measurement for LAN and WAN
☑ Network malfunction tracking
☑ Network equipment benchmarking

Measured QoS parameters (on packets or datagrams)

☑ loss
☑ corruption
☑ delay
☑ jitter
☑ re-ordering

Operating modes to measure the QoS parameters of the network connection between machine A and B

☑ Sender on machine A, Receiver on machine B
☑ Sender and Receiver on machine A, Reflector on machine B

[1] Hardware (PC) may be supplied as an option

Sender

Settings

Sender
IP: 192.168.1.154
Port: 1234

Receiver
IP: 192.168.1.238
Port: 1236
Number of datagrams to send: 1000
Packet Size: 1000
Synchronization with NTP server: ntp.yourdomain.com

Operation
Status: All test datagrams sent.

[Start Sending] [Stop Sending] [Help] [Exit]

Reflector

Settings

Reflector
Port: 1235

Receiver
IP: 192.168.1.238
Port: 1236
Status: Reflecting...

[Start Reflecting] [Stop Reflecting] [Help] [Exit]

Receiver

Settings

Receiver
Port: 1236

Sender
IP: 192.168.1.154
Port: 1234
Synchronization with NTP server: ntp.yourdomain.com

Operation
Status: Ready to receive...

[Start Receiving] [Stop Receiving] [Help] [Exit]

Statistics

Number of datagrams sent by Sender	1000 sent datagrams
Number of datagrams received	914 received datagrams
Delay	10757 us
Jitter mean	0.125821 us
Jitter max	3 us
Lost datagrams	86 lost datagrams (8.600000 % of sent datagrams)
Datagrams re-ordering mean	61.588621 datagrams
Datagrams re-ordering max	86 datagrams
CheckSum errors	0 corrupted datagrams (0.000000 % of sent datagrams)

[Save statistics to file]

IP QoS Tester is a very easy solution to measure the most important parameters concerning Quality of Service (QoS) over IP networks.

IP Qos Tester is a solution containing three applications:

• the Sender application

• the Receiver application

• the Reflector application

The Sender application sends UDP packets to the Receiver application (identified by its IP address and its user-defined port number).

Between the Sender and Receiver applications, the Reflector application can serve as an intermediary by reflecting the data it receives towards another machine.

The user can choose the packets size and the number of packets to send during a test.

If the size of a datagram is greater than the MTU (Maximum Transmission Unit), then Sender and Receiver work on a datagram basis (instead of a packet basis).

The Receiver checks the received packets or datagrams and measures the most important parameters concerning QoS:

• Packet (or datagram) loss: number of lost packets (or datagrams) and percentage of lost packets (or datagrams)

• Packet (or datagram) corruption : number of corrupted packets (or datagrams) and percentage of corrupted packets (or datagrams)

• Packet (or datagram) delay

• Packet (or datagram) jitter

• Packet (or datagram) reordering

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