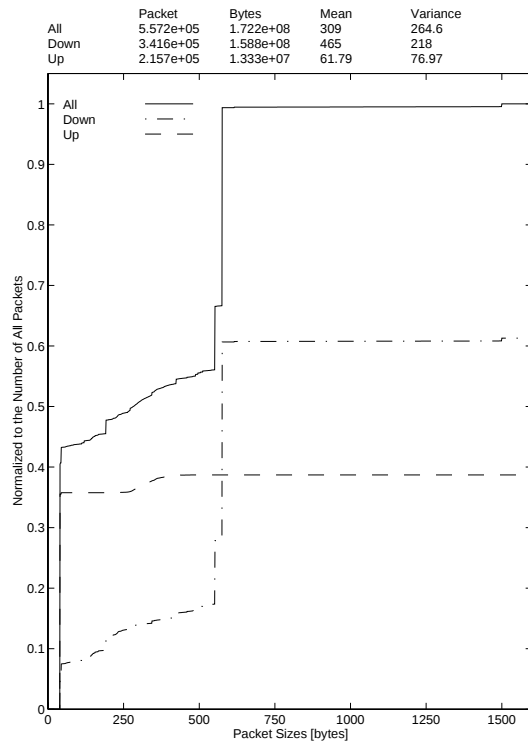


5.2 Figures from the HP-workstations

WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 1/WS

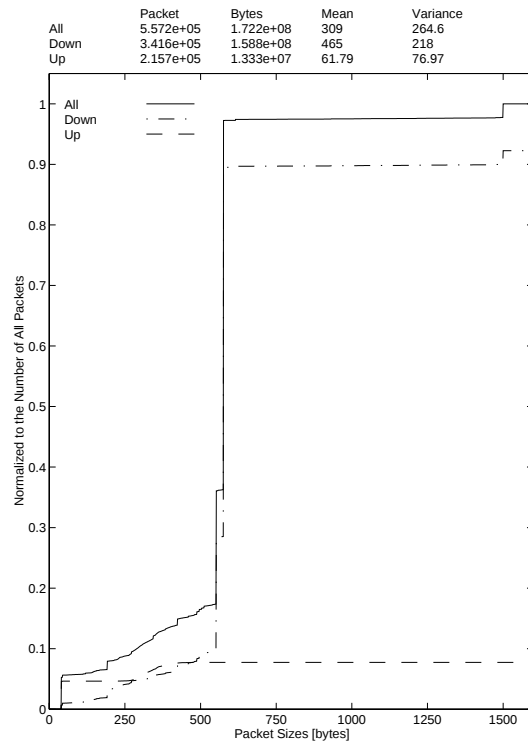
The Cumulative Distribution of Packet by their IP-Sizes (All Packets)



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 2/WS

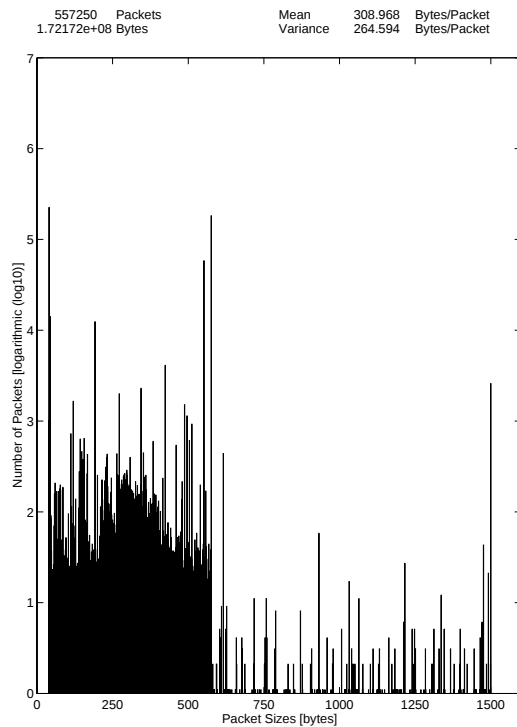
The Cumulative Distribution of Bytes by Packets IP-Sizes



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 3/WS

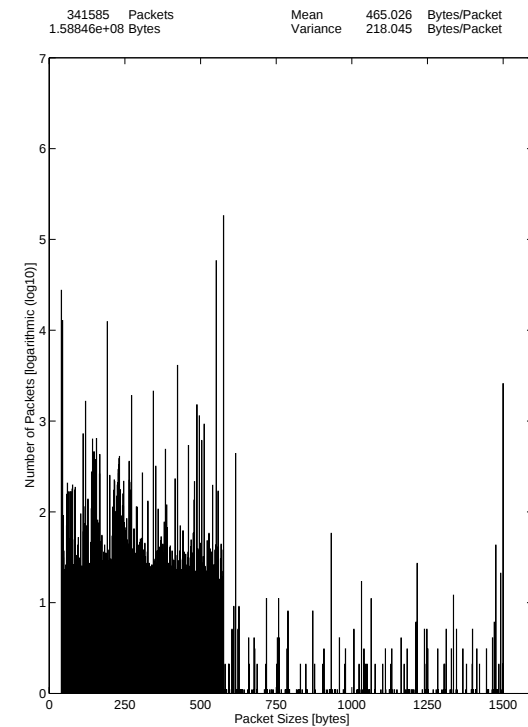
The Distribution of IP-Packet Sizes (All Packets)



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 4/WS

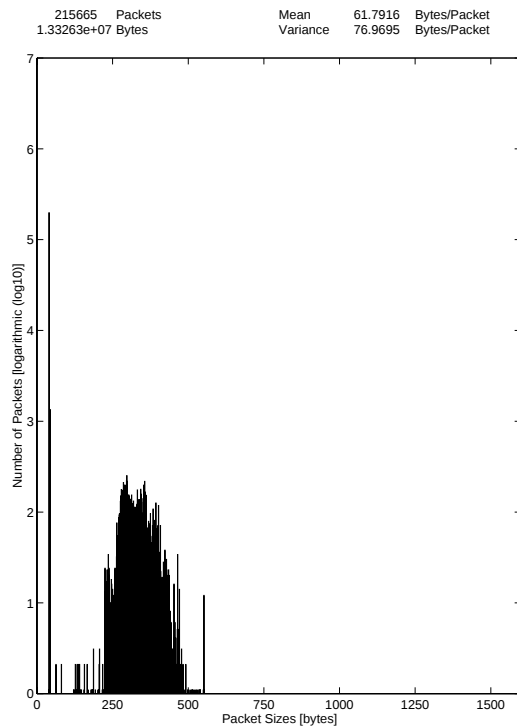
The Distribution of IP-Packet Sizes (Down Packets)



Report on WWW-traffic measurements

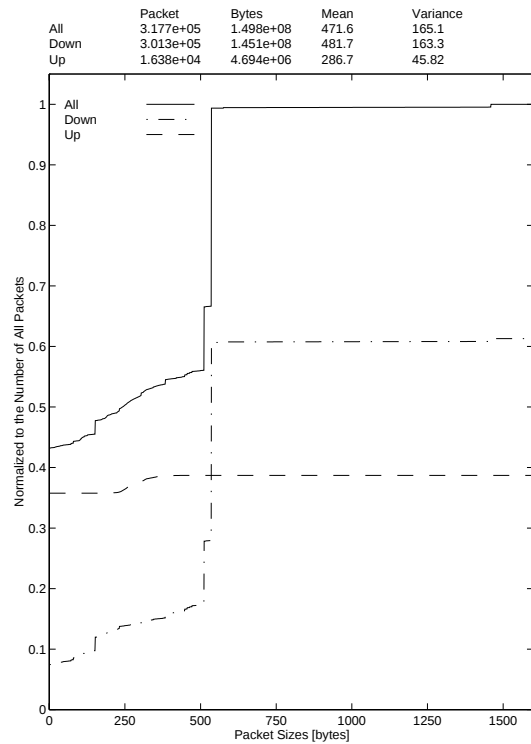
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of IP-Packet Sizes (Up Packets)

Figure 5/WS



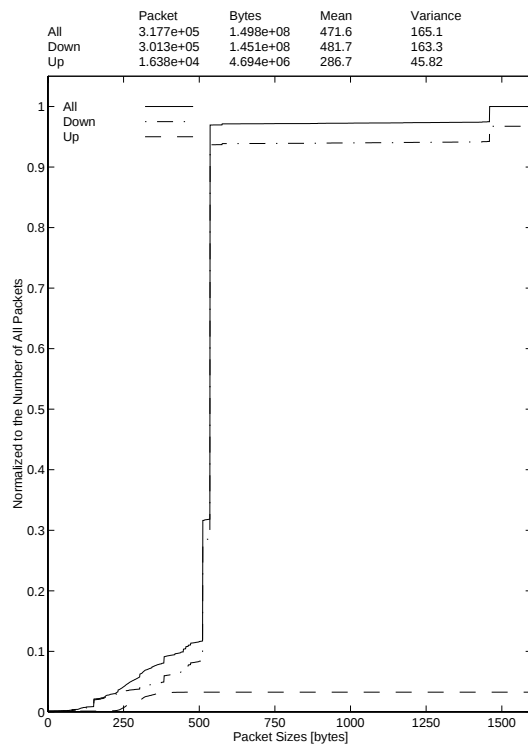
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Packet by their Data Sizes

Figure 6/WS



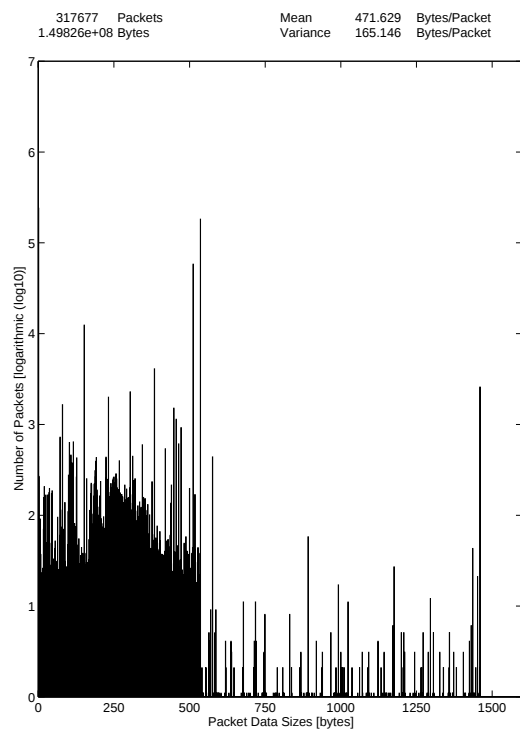
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Bytes by Packets Data Sizes (All Packets)

Figure 7/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packets by Data Sizes (All Packets)

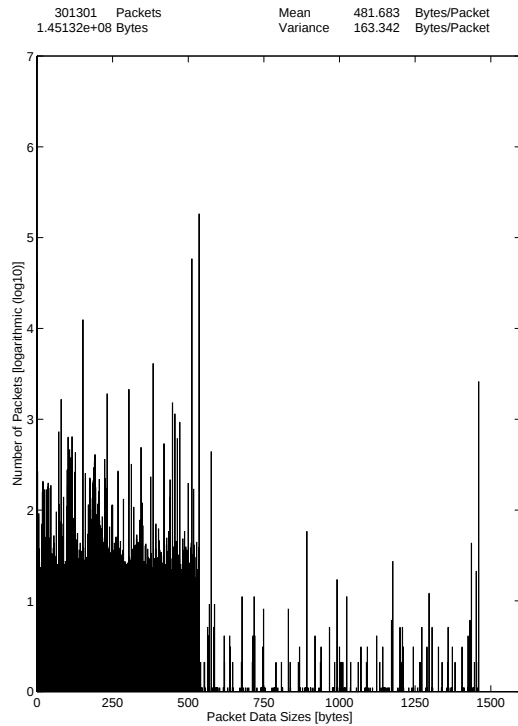
Figure 8/WS



Report on WWW-traffic measurements

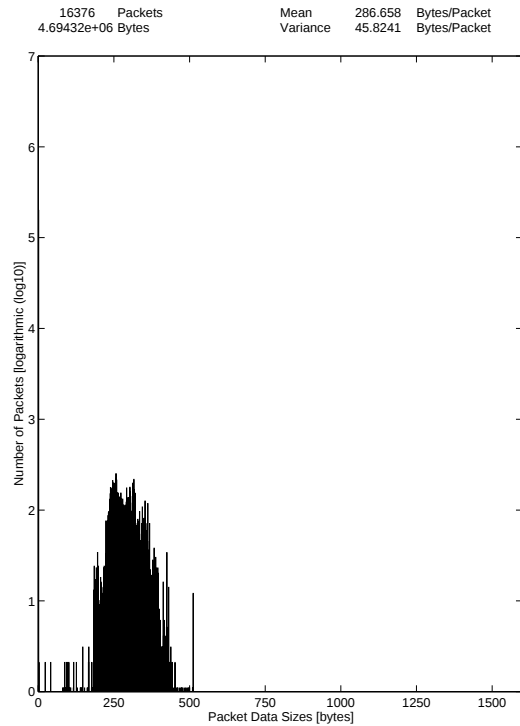
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packets by Data Sizes (Down Packets)

Figure 9/WS



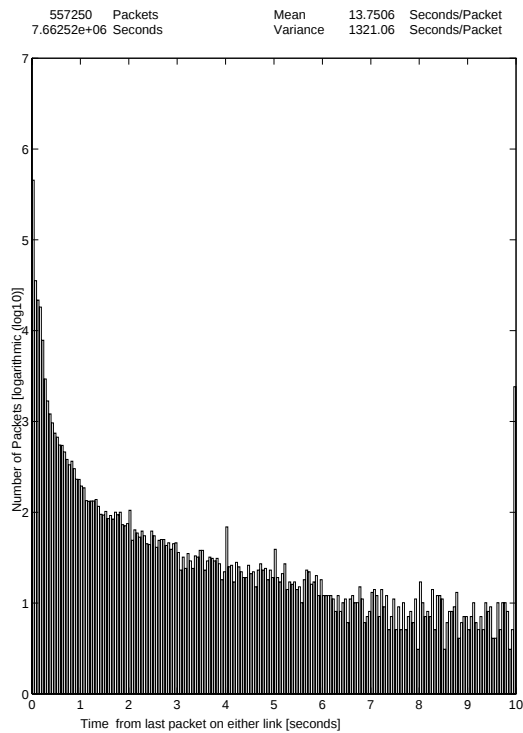
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packets by Data Sizes (Up Packets)

Figure 10/WS



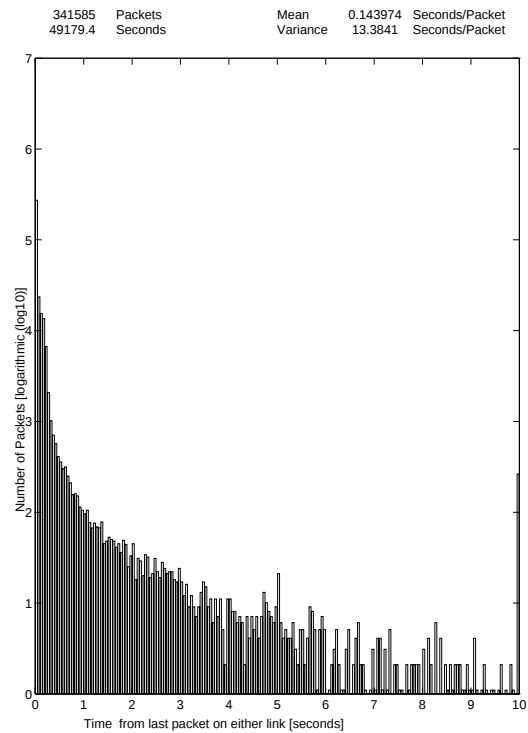
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (All Packets) 1/3

Figure 11/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (Down Packets) 1/3

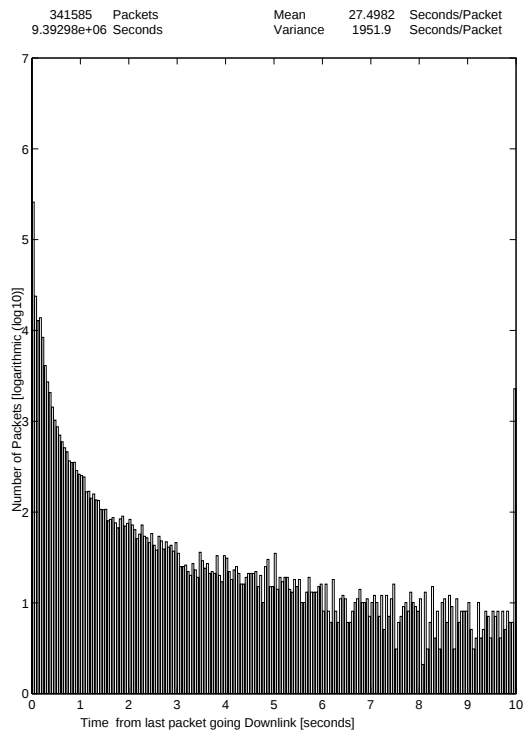
Figure 12/WS



Report on WWW-traffic measurements

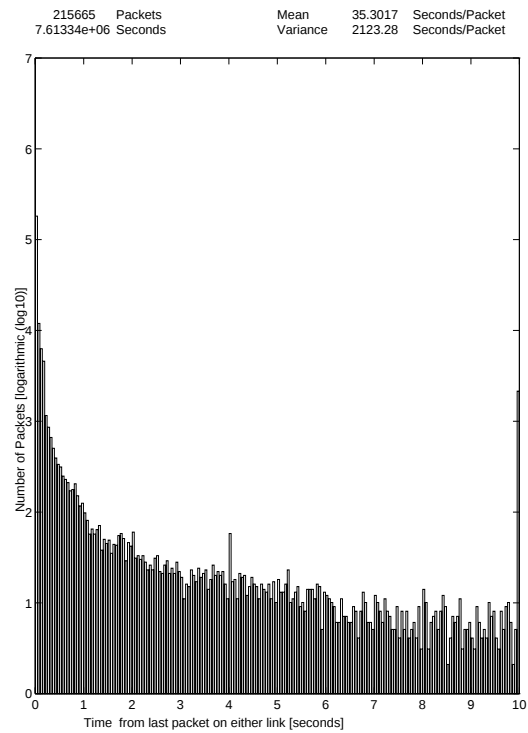
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (Down Packets) 1/3

Figure 13/WS



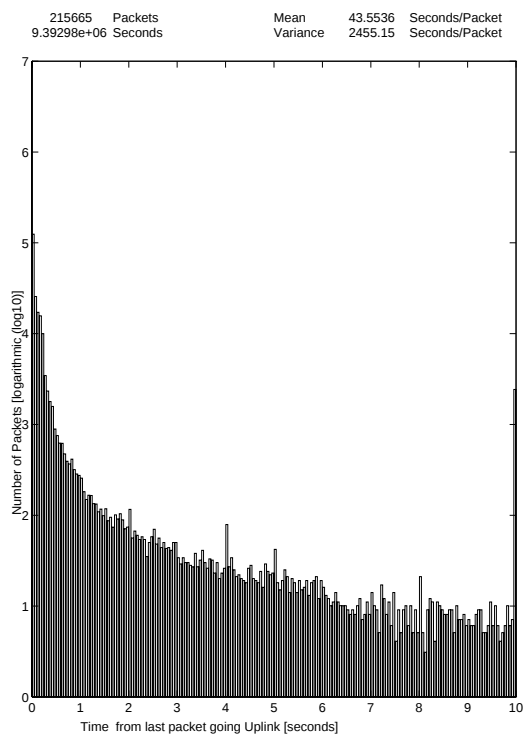
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (Up Packets) 1/3

Figure 14/WS



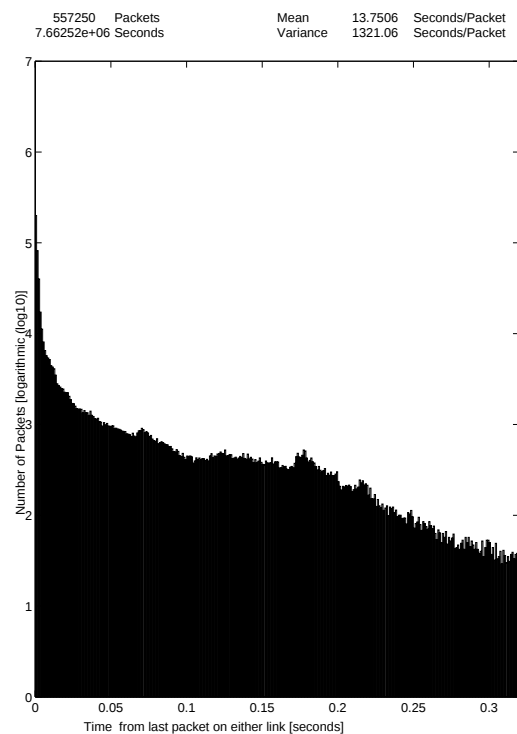
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (Up Packets) 1/3

Figure 15/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (All Packets) 2/3

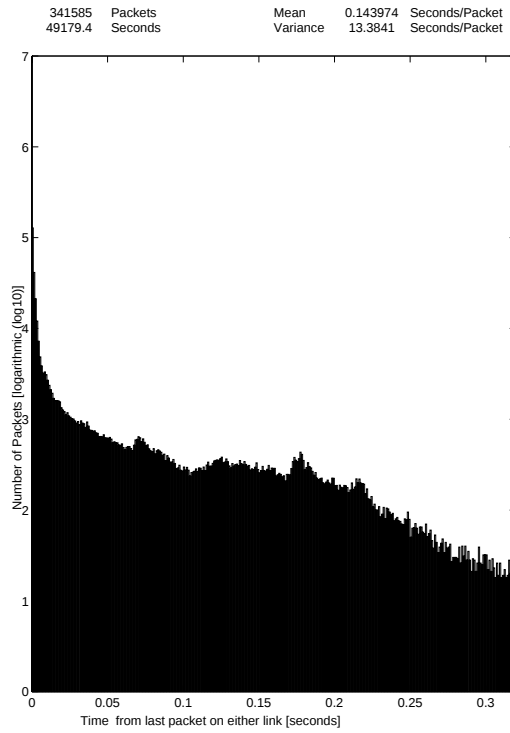
Figure 16/WS



Report on WWW-traffic measurements

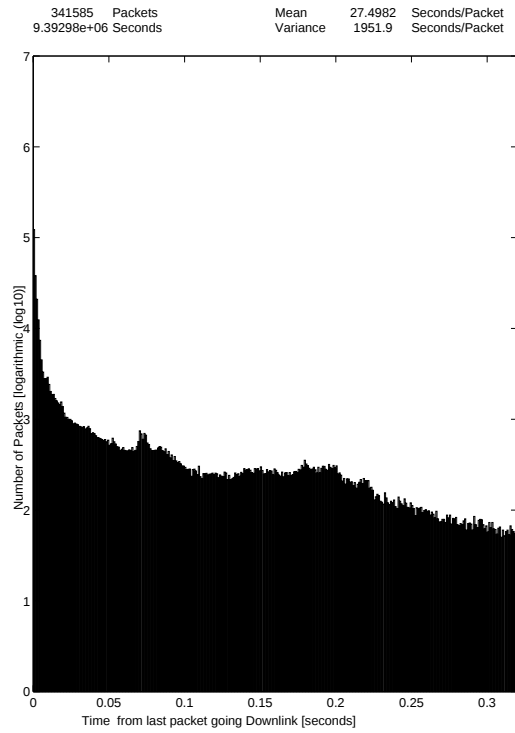
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (Down Packets) 2/3

Figure 17/WS



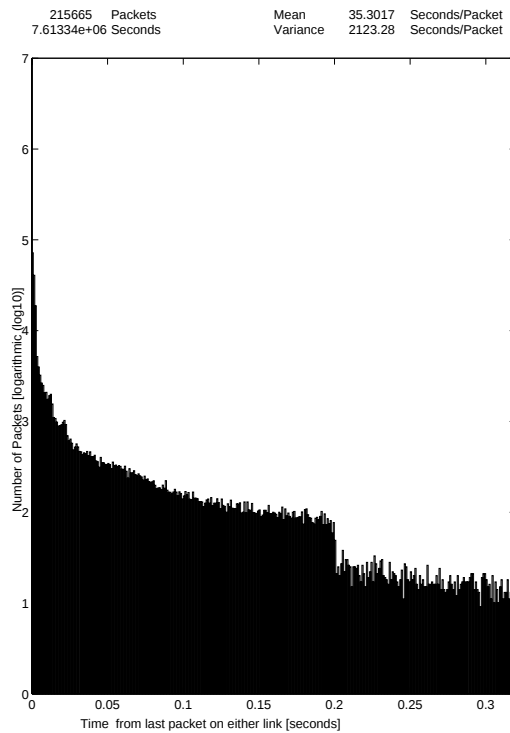
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (Down Packets) 2/3

Figure 18/WS



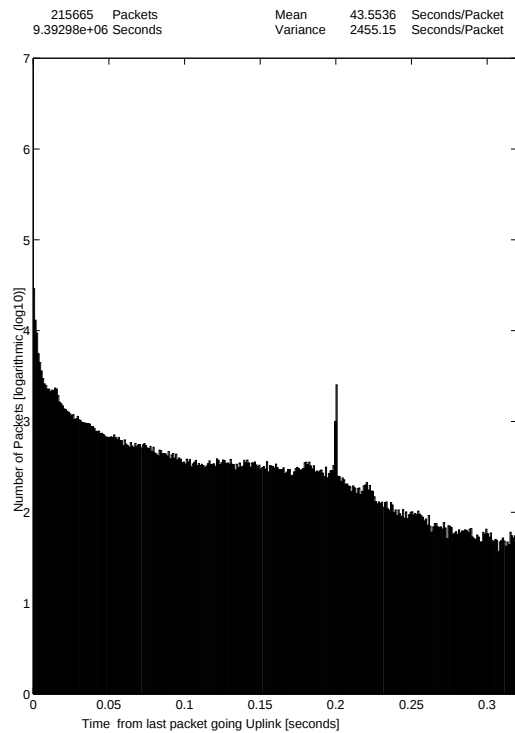
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (Up Packets) 2/3

Figure 19/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (Up Packets) 2/3

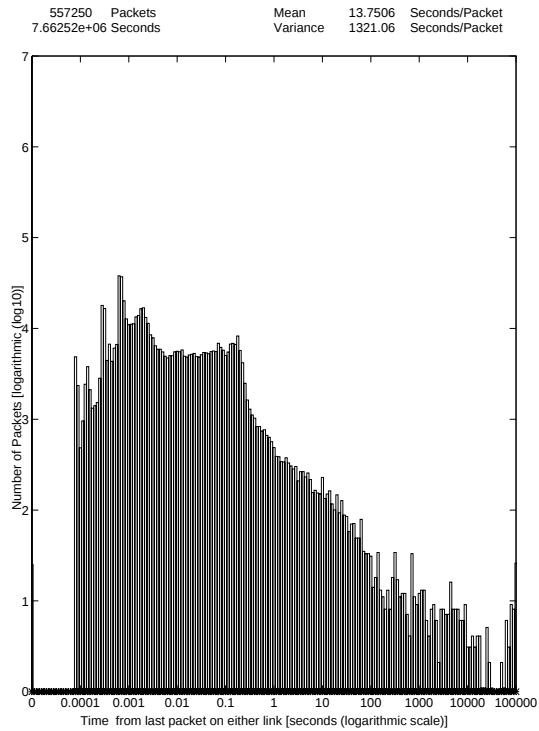
Figure 20/WS



Report on WWW-traffic measurements

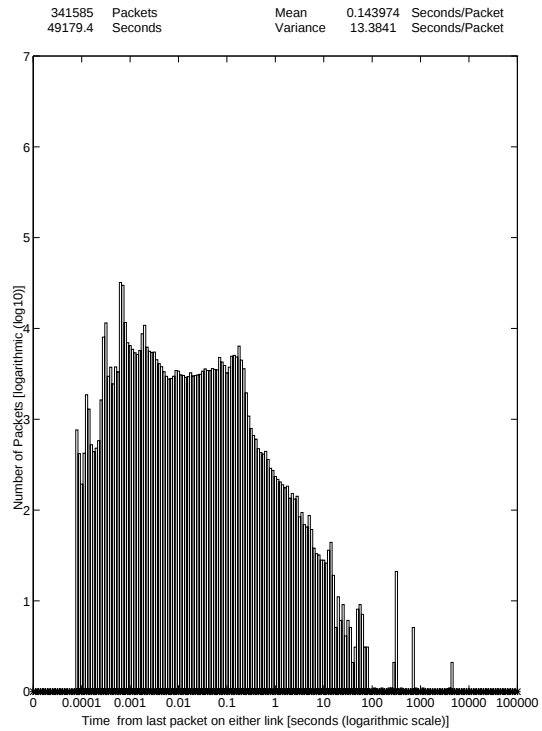
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (All Packets) 3/3

Figure 21/WS



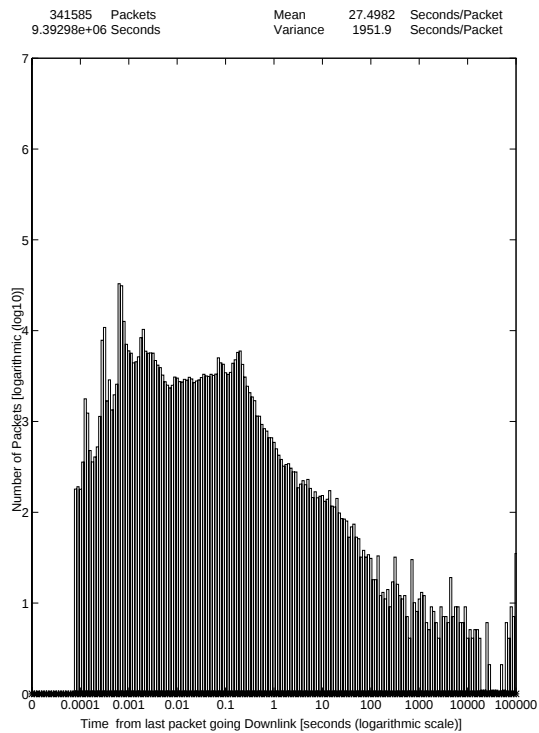
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (Down Packets) 3/3

Figure 22/WS



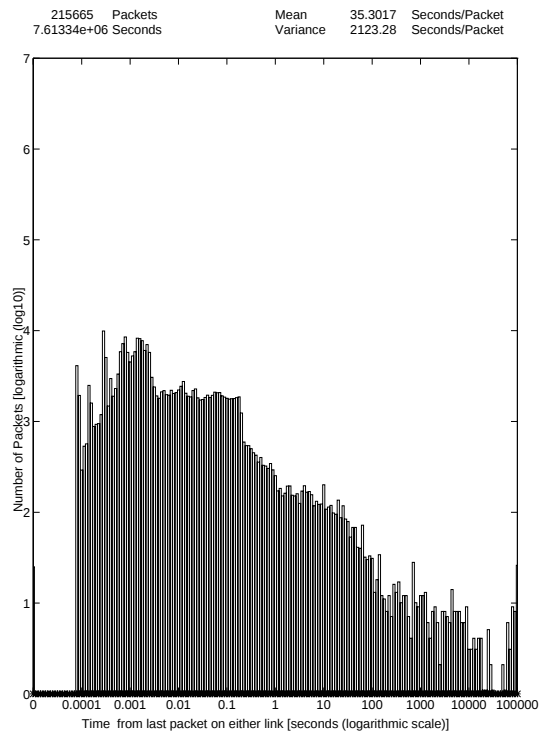
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (Down Packets) 3/3

Figure 23/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (Up Packets) 3/3

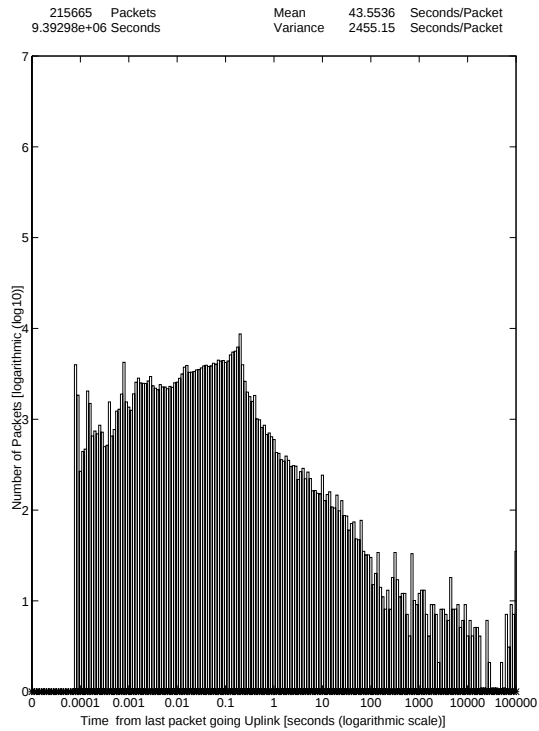
Figure 24/WS



Report on WWW-traffic measurements

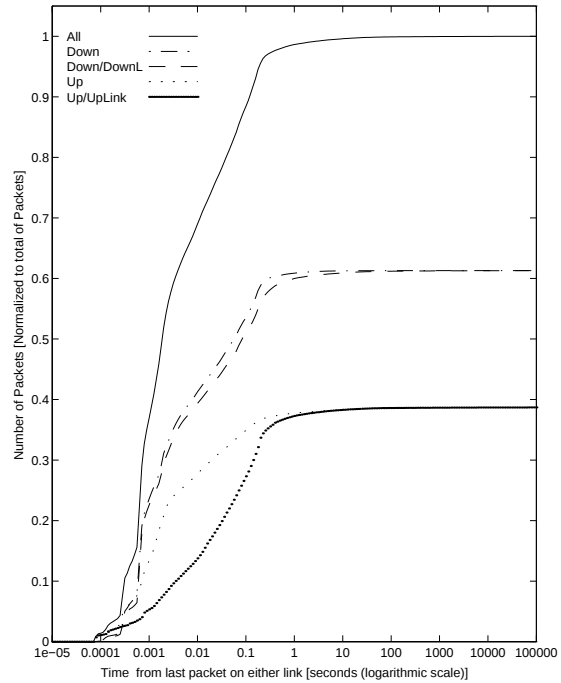
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival Times (Up Packets) 3/3

Figure 25/WS



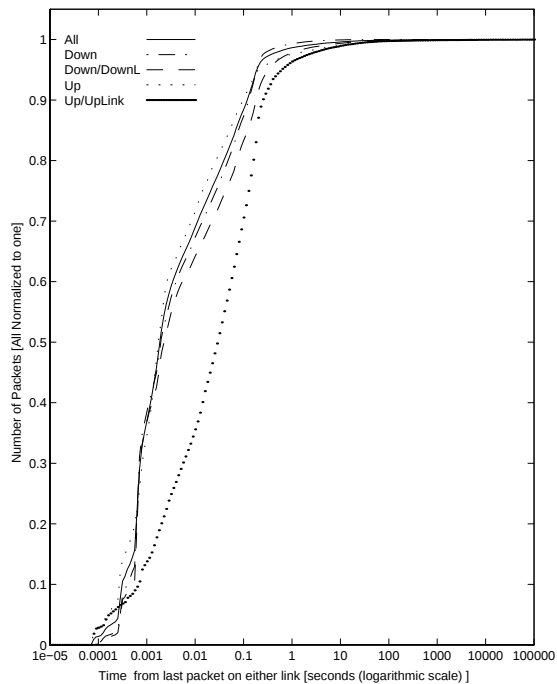
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Packet Interarrival Times

Figure 26/WS



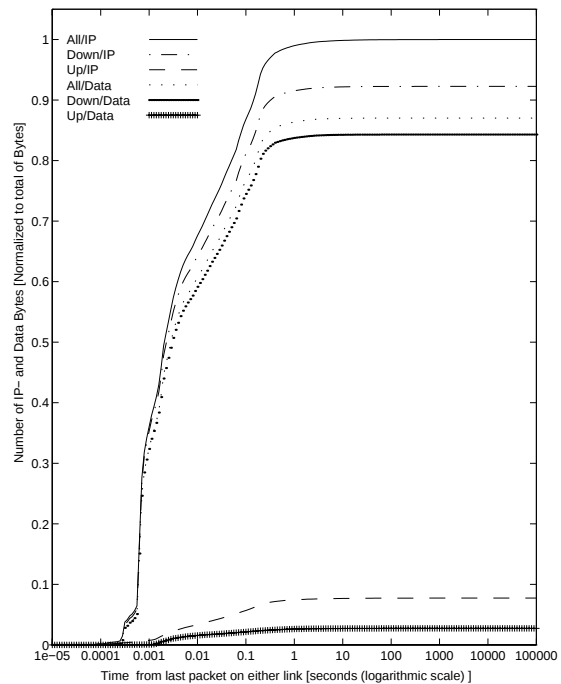
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Packet Interarrival Times

Figure 27/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of IP- and Data Byte
by Packet

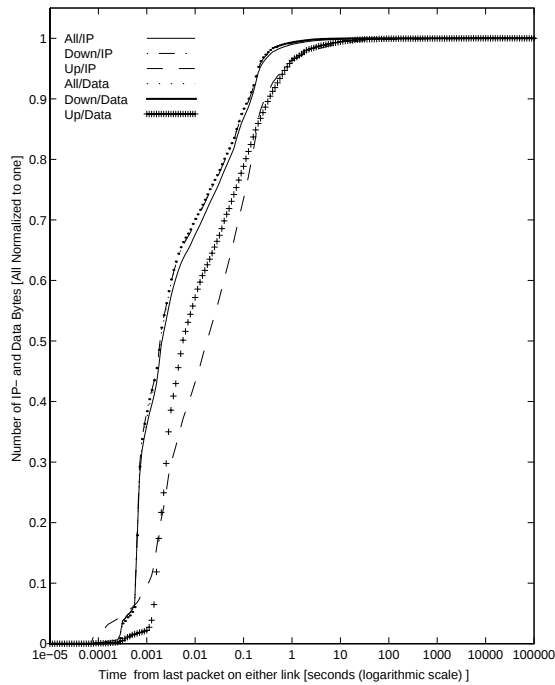
Figure 28/WS



Report on WWW-traffic measurements

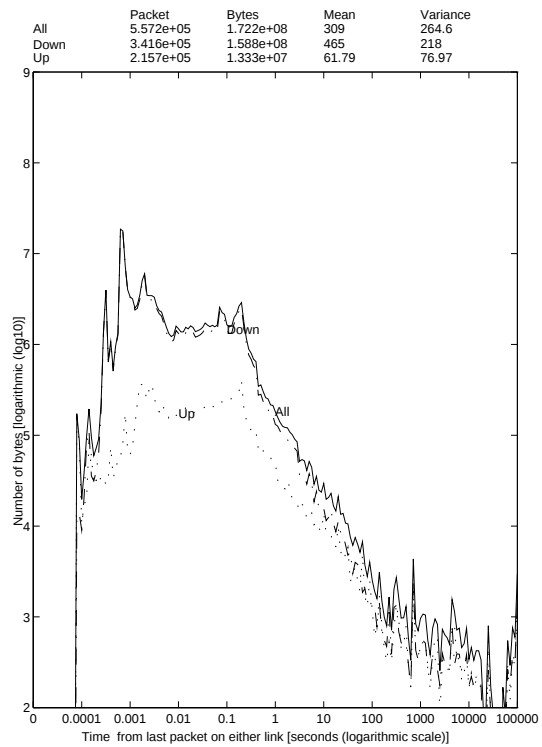
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of IP- and Data Byte
by m last packet on either link

Figure 29/WS



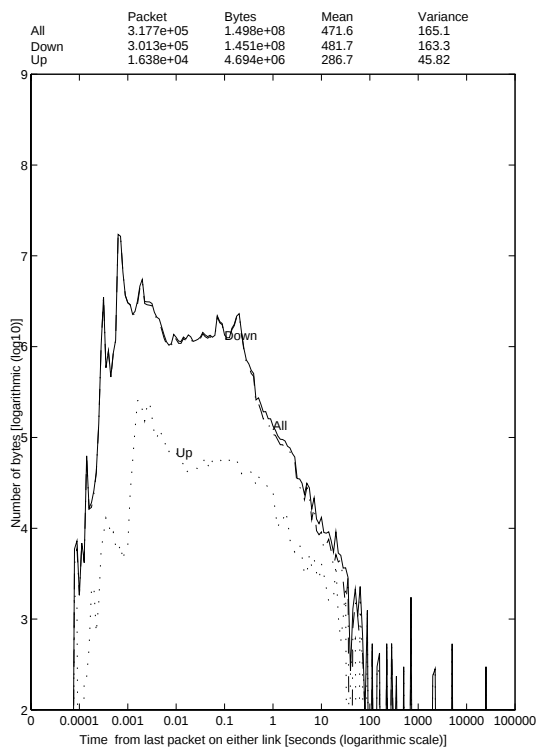
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of IP-Bytes by Packet Interarrival Times

Figure 30/WS



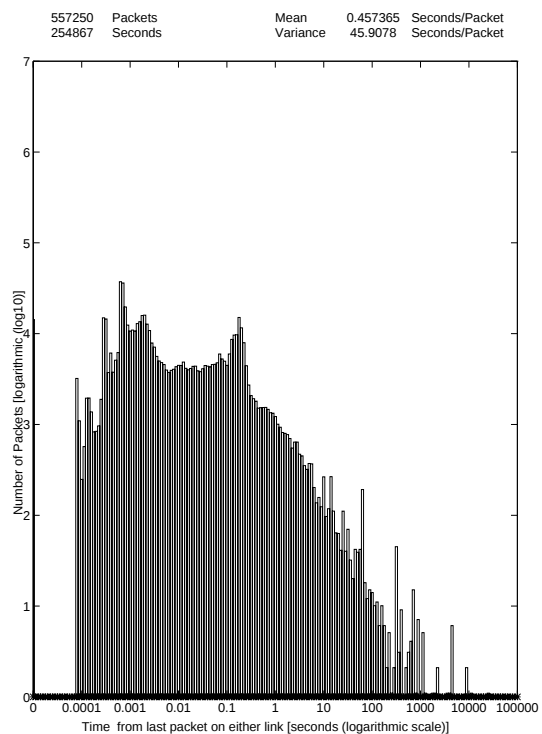
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Data Bytes by Packet Interarrival Times

Figure 31/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Packet Interarrival TimesAll in same TCP-session 3/3

Figure 32/WS

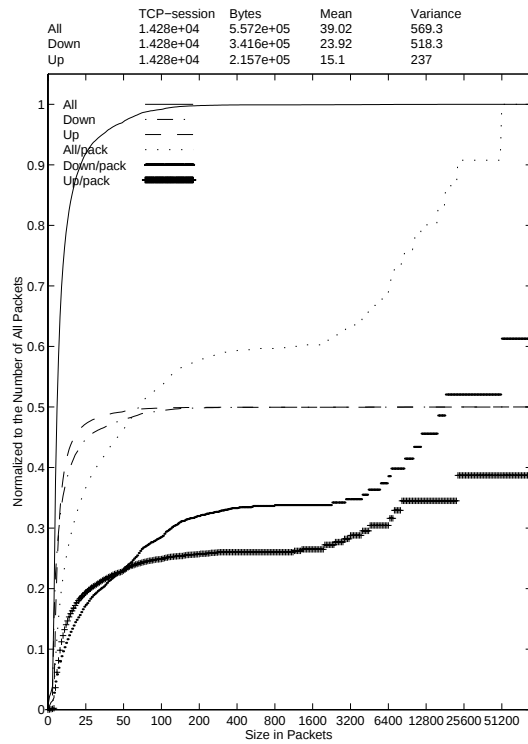


Report on WWW-traffic measurements

WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 33/WS

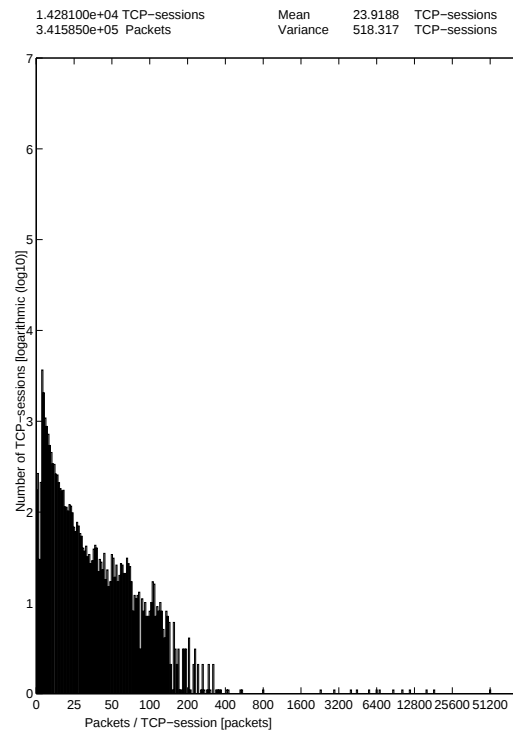
The Cumulative Distribution of TCP-sessions by their Size in Packets



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 34/WS

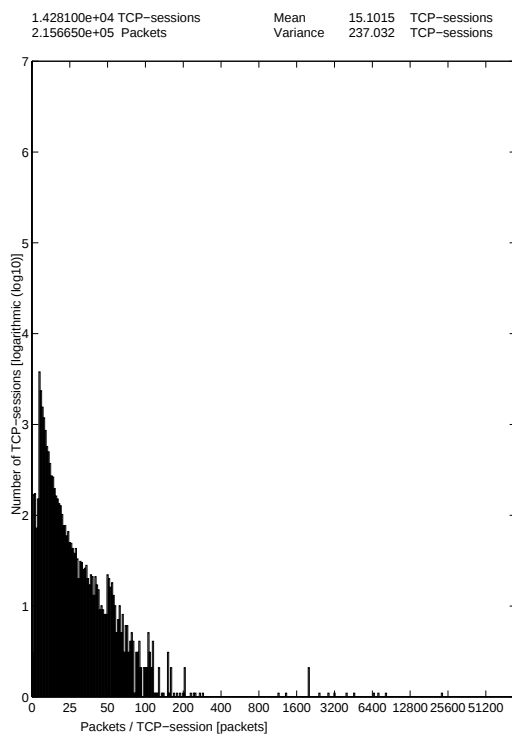
The Distribution of TCP-sessions by Size (Down Packets)
A TCP-session (= same TCP-port and IP-address)



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 35/WS

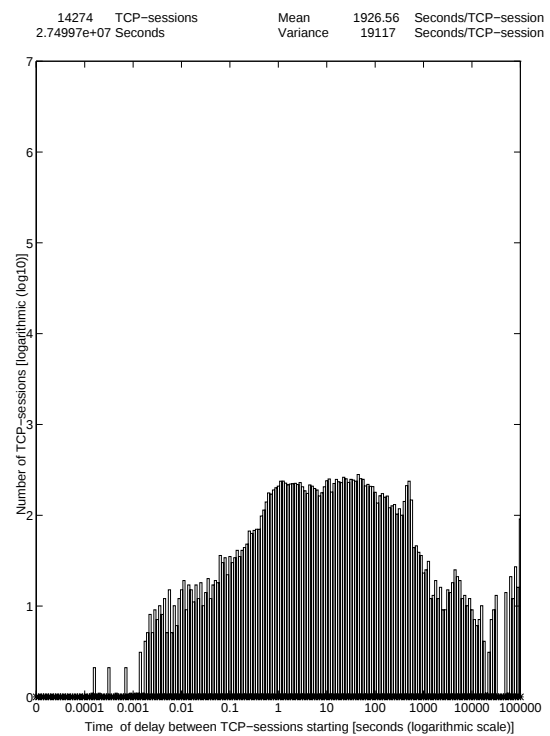
The Distribution of TCP-sessions by Size (Up Packets)
A TCP-session (= same TCP-port and IP-address)



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 36/WS

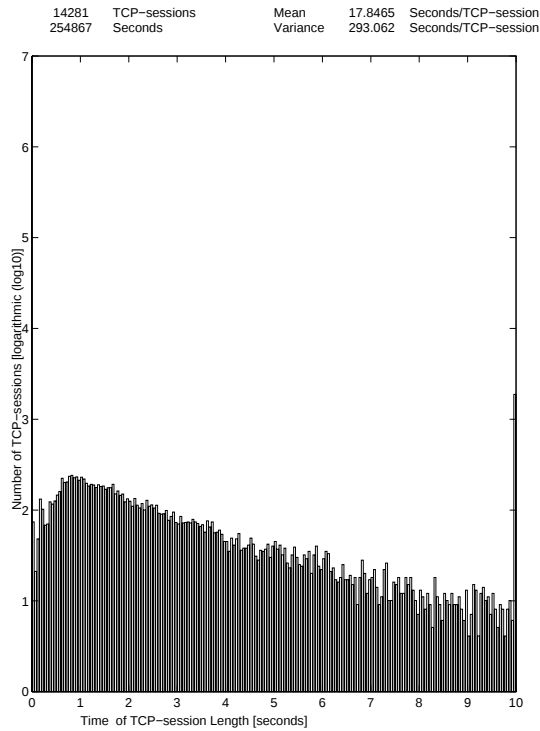
The Distribution of delay between TCP-sessions 3/3



Report on WWW-traffic measurements

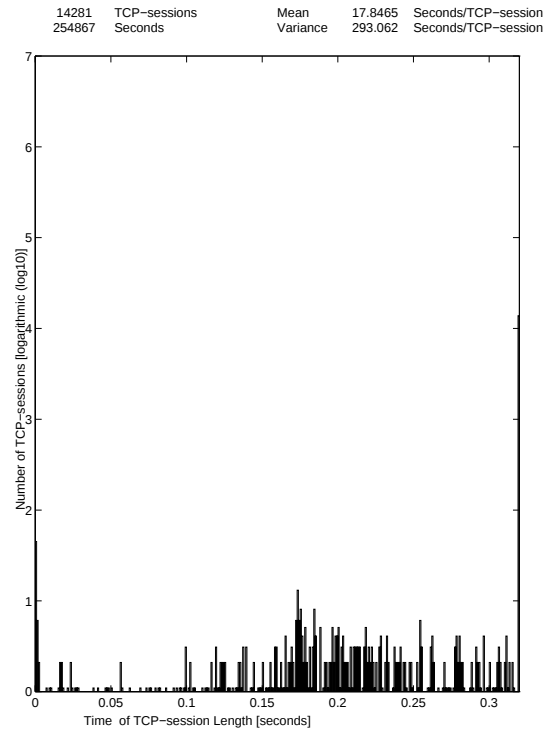
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of TCP-session Length 1/3

Figure 37/WS



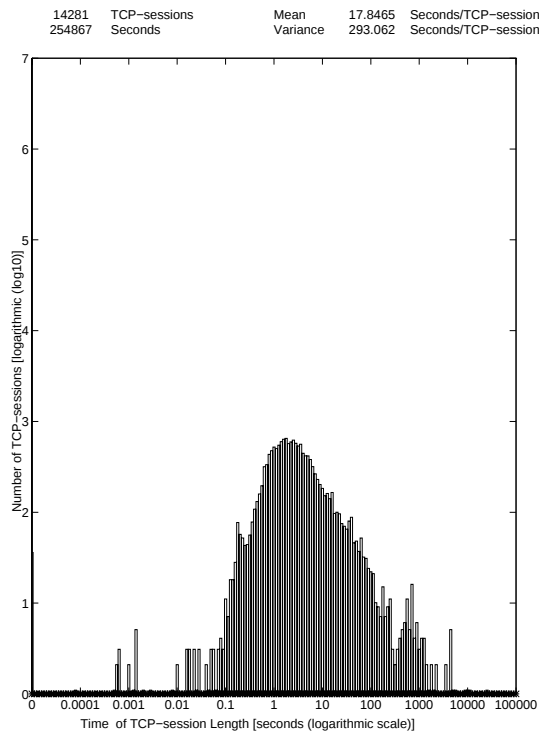
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of TCP-session Length 2/3

Figure 38/WS



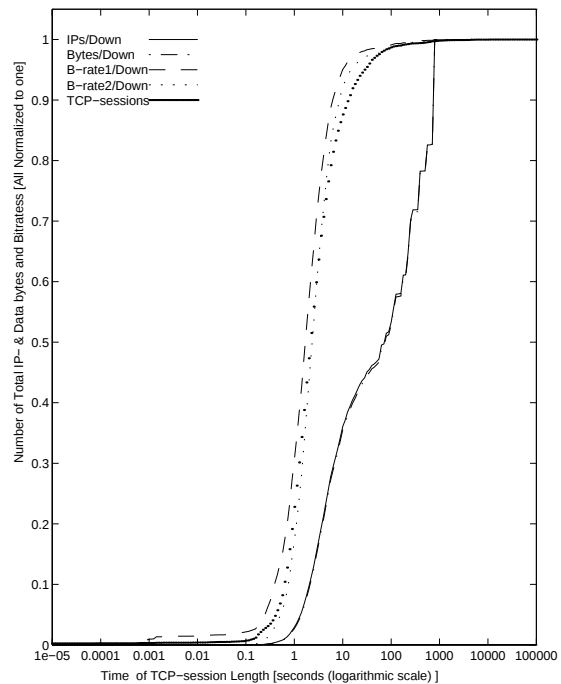
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of TCP-session Length 3/3

Figure 39/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Total IP- & Data bytes and Bitrates
by TCP-session Length

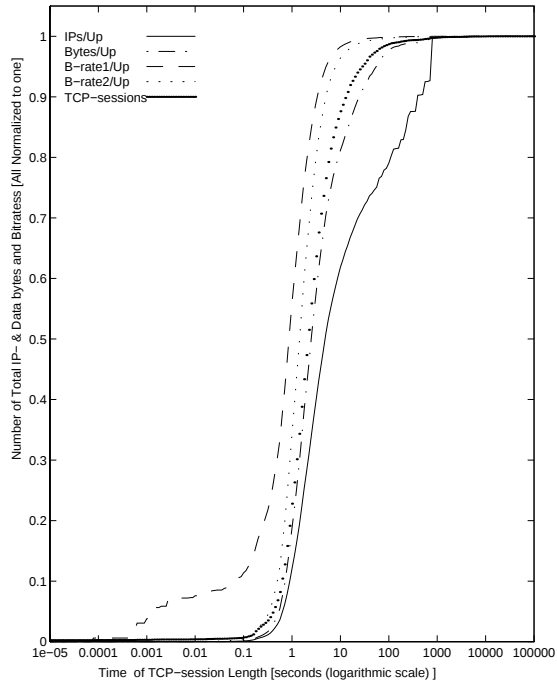
Figure 40/WS



Report on WWW-traffic measurements

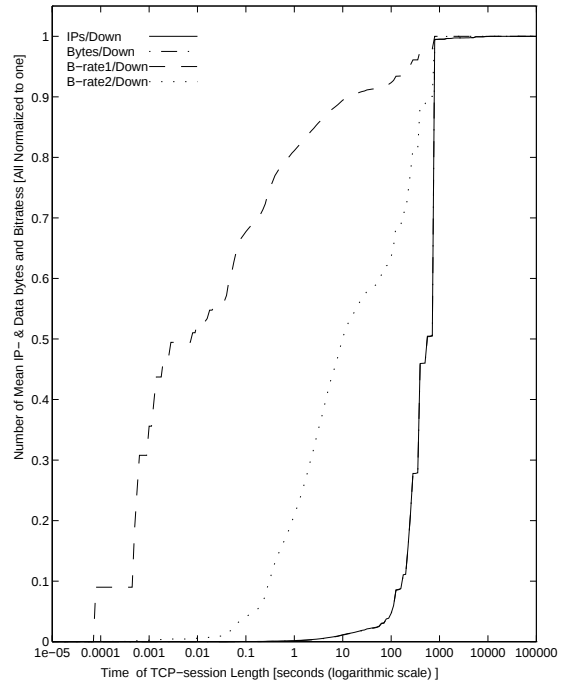
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Total IP- & Data bytes and Bitrates
by TCP-session Length

Figure 41/WS



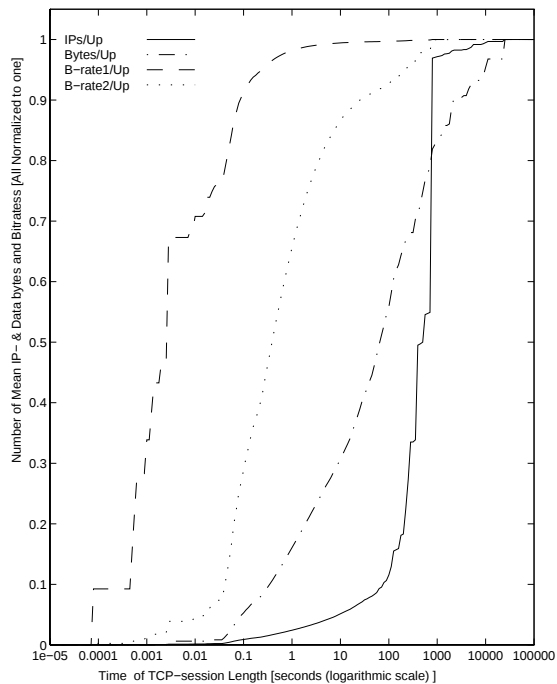
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Mean IP- & Data bytes and Bitrates
by TCP-session Length

Figure 42/WS



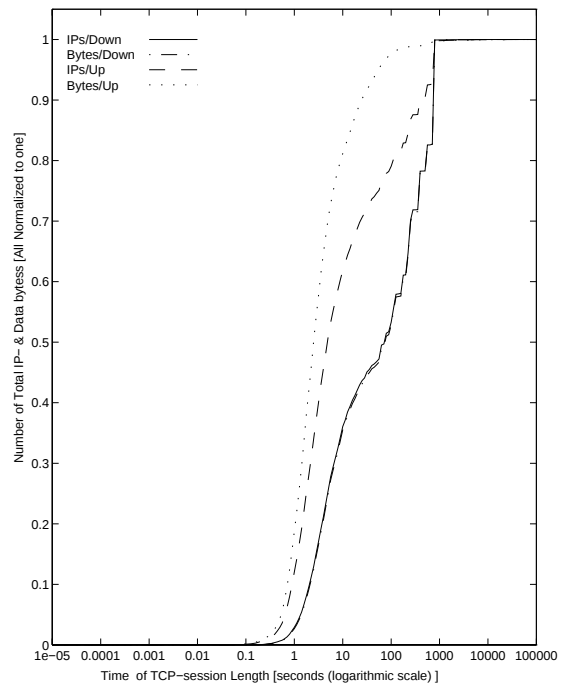
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Mean IP- & Data bytes and Bitrates
by TCP-session Length

Figure 43/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Total IP- & Data bytes
by TCP-session Length

Figure 44/WS

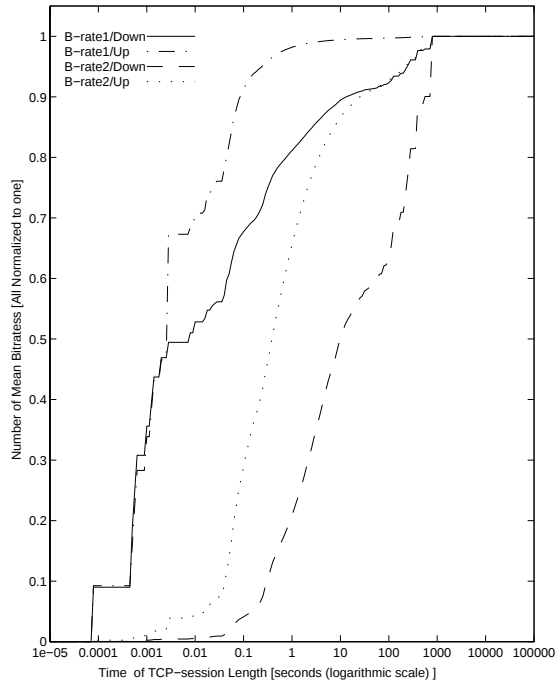


Report on WWW-traffic measurements

WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 45/WS

The Cumulative Distribution of Mean Bitrates
by TCP-session Length

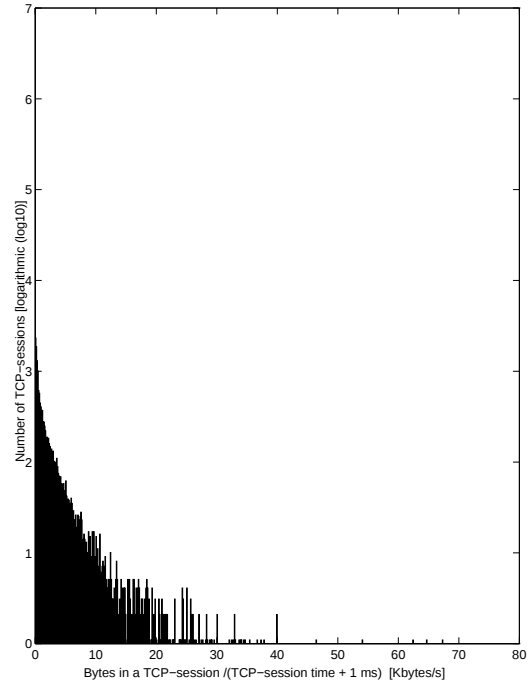


WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 46/WS

The Distribution of TCP-sessions by Average Bitrate (Down Packets)
A TCP-session (= same TCP-port and IP-address)

1.428100e+04 TCP-sessions Mean 1843.61 bytes/s
Variance 3428.75 bytes/s

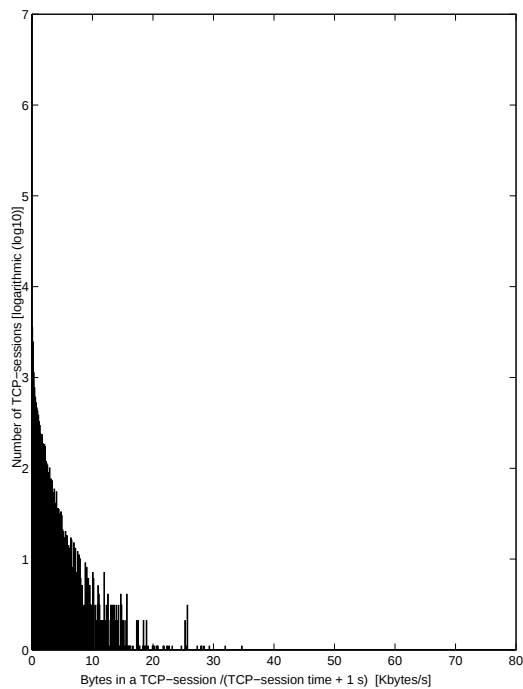


WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 47/WS

The Distribution of TCP-sessions by Average Bitrate (Down Packets)
A TCP-session (= same TCP-port and IP-address)

1.428100e+04 TCP-sessions Mean 1126.62 bytes/s
Variance 2102.87 bytes/s

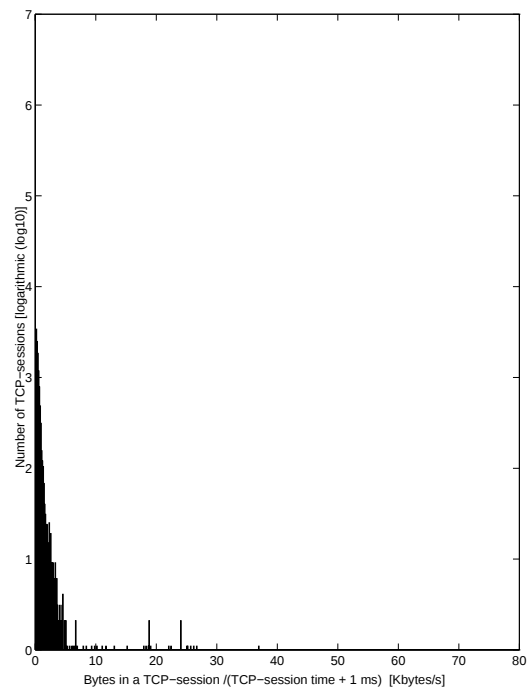


WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 48/WS

The Distribution of TCP-sessions by Average Bitrate (Up Packets)
A TCP-session (= same TCP-port and IP-address)

1.428100e+04 TCP-sessions Mean 427.387 bytes/s
Variance 1156.83 bytes/s



Report on WWW-traffic measurements

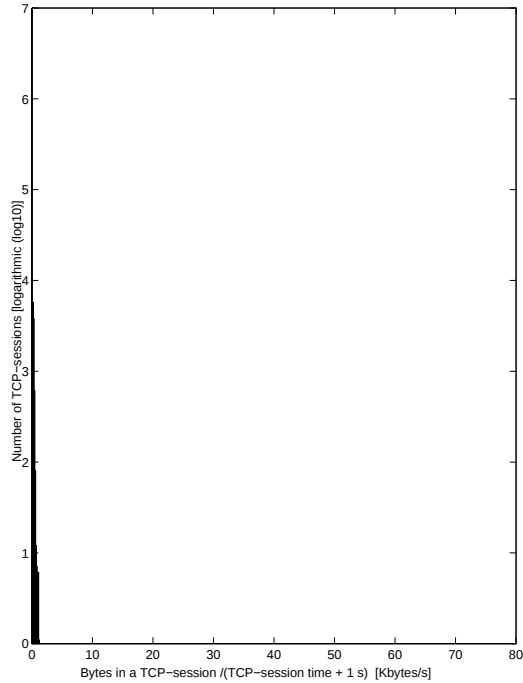
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 49/WS

The Distribution of TCP-sessions by Average Bitrate (Up Packets)
A TCP-session (= same TCP-port and IP-address)

1.428100e+04 TCP-sessions

Mean	196.777	bytes/s
Variance	111.898	bytes/s

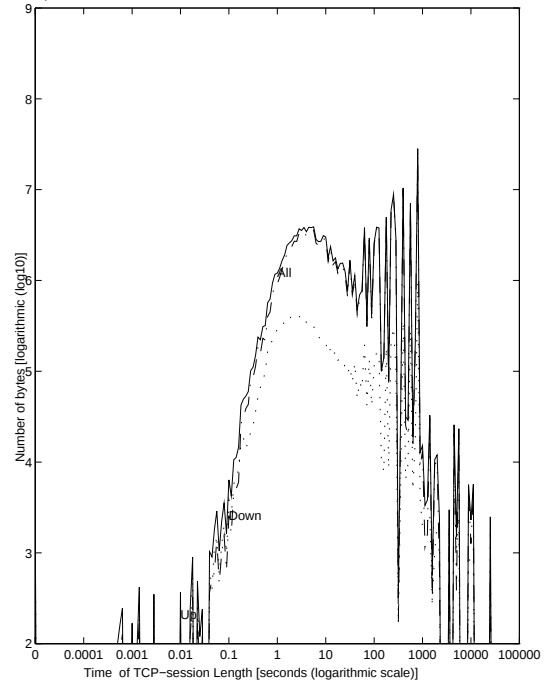


WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 50/WS

The Distribution of IP-Bytes by TCP-session Length

	TCP-session	Bytes	Mean	Variance
All	1.428e+04	1.722e+08	1.206e+04	2.727e+05
Down	1.428e+04	1.588e+08	1.112e+04	2.726e+05
Up	1.428e+04	1.333e+07	933.1	9485

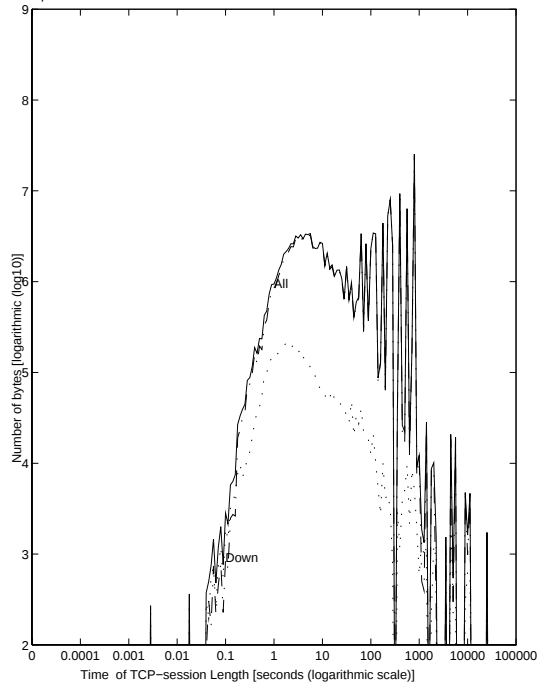


WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 51/WS

The Distribution of Data-Bytes by TCP-session Length

	TCP-session	Bytes	Mean	Variance
All	1.377e+04	1.498e+08	1.088e+04	2.565e+05
Down	1.377e+04	1.451e+08	1.054e+04	2.569e+05
Up	1.372e+04	4.694e+06	342.2	216.6

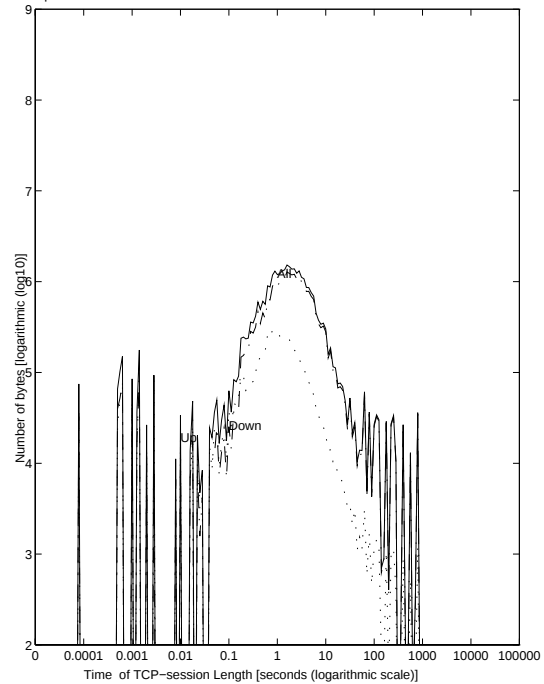


WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 52/WS

The Distribution of Bitrate1 in Bytes by TCP-session Length

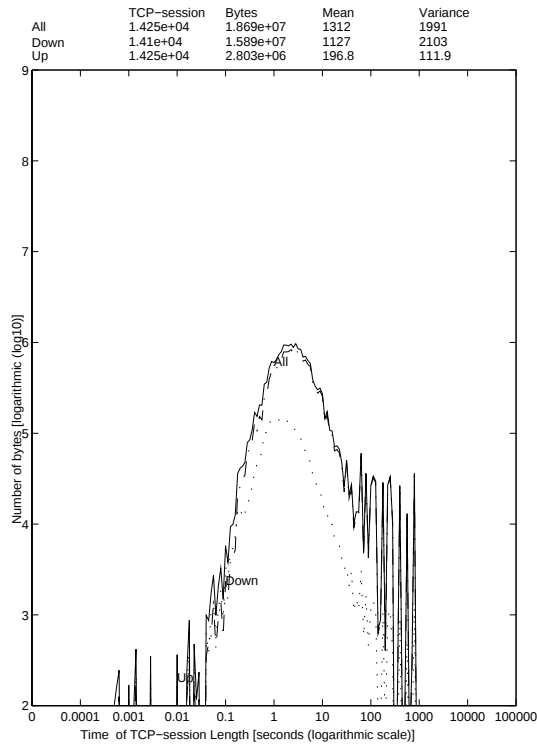
	TCP-session	Bytes	Mean	Variance
All	1.425e+04	3.209e+07	2253	3384
Down	1.41e+04	2.6e+07	1844	3429
Up	1.425e+04	6.088e+06	427.4	1157



Report on WWW-traffic measurements

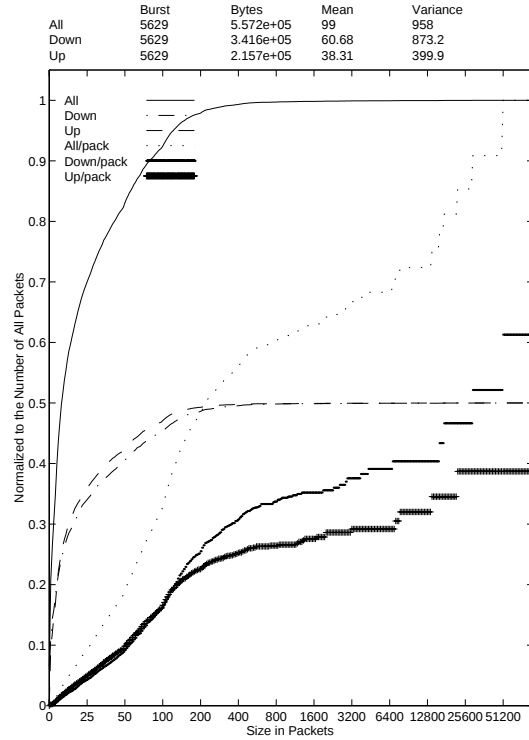
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Bitrate2 in Bytes by TCP-session Length

Figure 53/WS



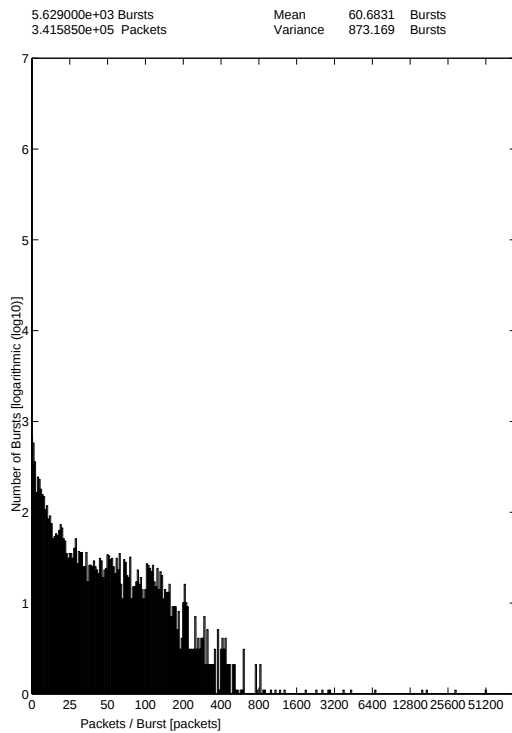
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Bursts by their Size in Packets

Figure 54/WS



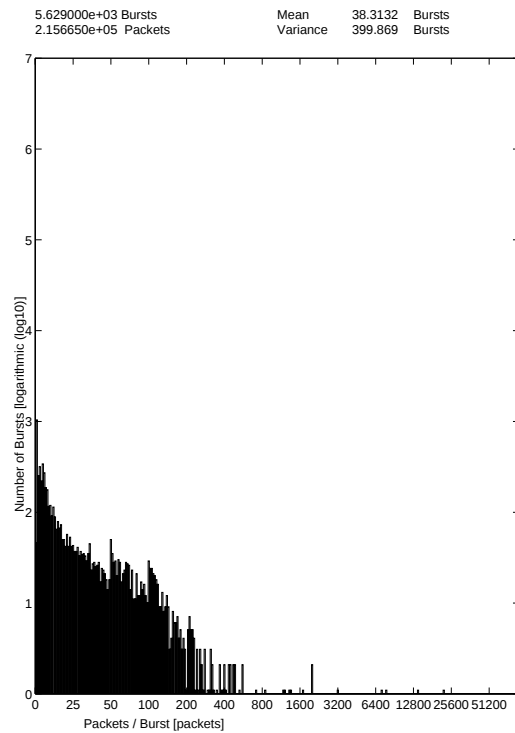
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Bursts by Size (Down Packets)
A Burst (= arrival time < 2 s)

Figure 55/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Bursts by Size (Up Packets)
A Burst (= arrival time < 2 s)

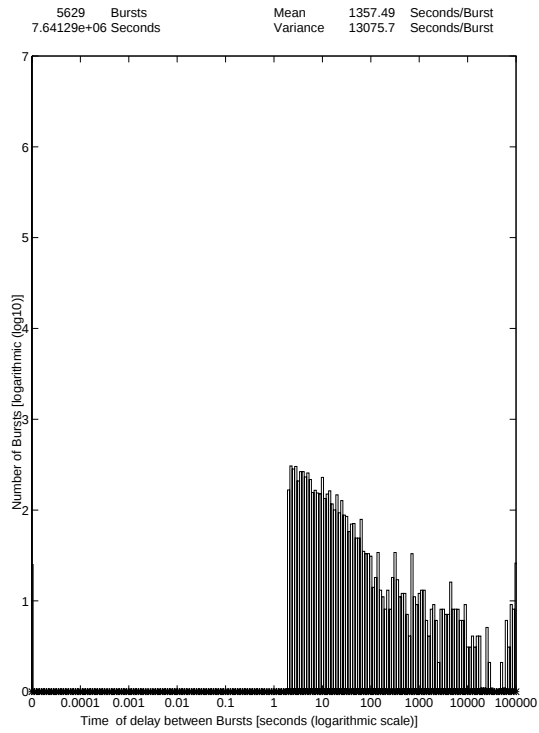
Figure 56/WS



Report on WWW-traffic measurements

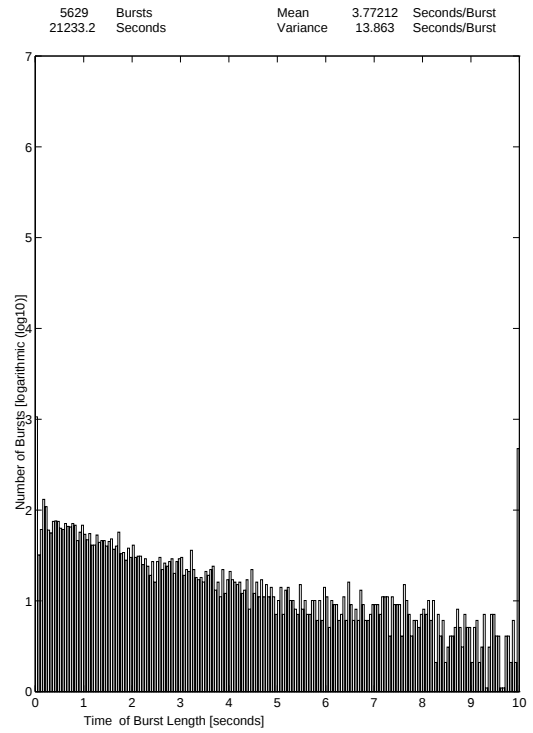
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of delay between Bursts 3/3

Figure 57/WS



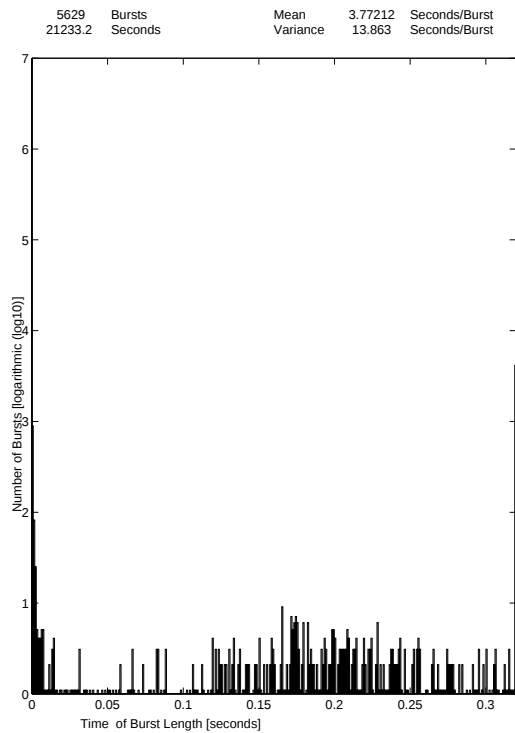
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Burst Length 1/3

Figure 58/WS



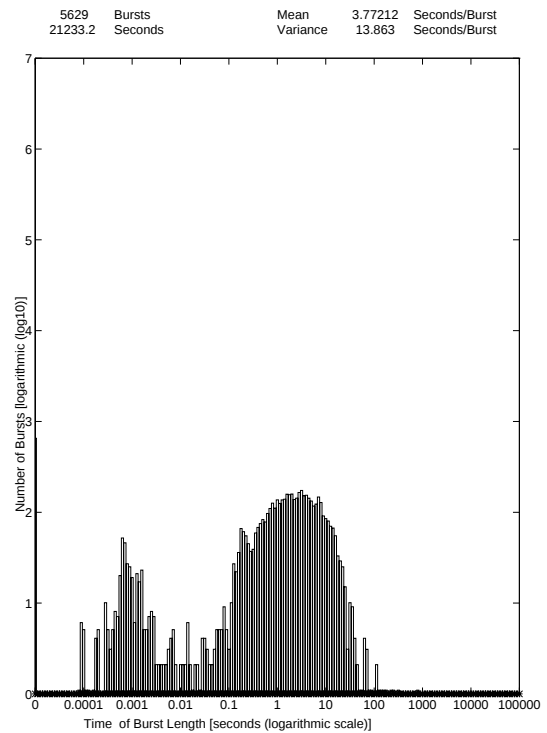
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Burst Length 2/3

Figure 59/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Burst Length 3/3

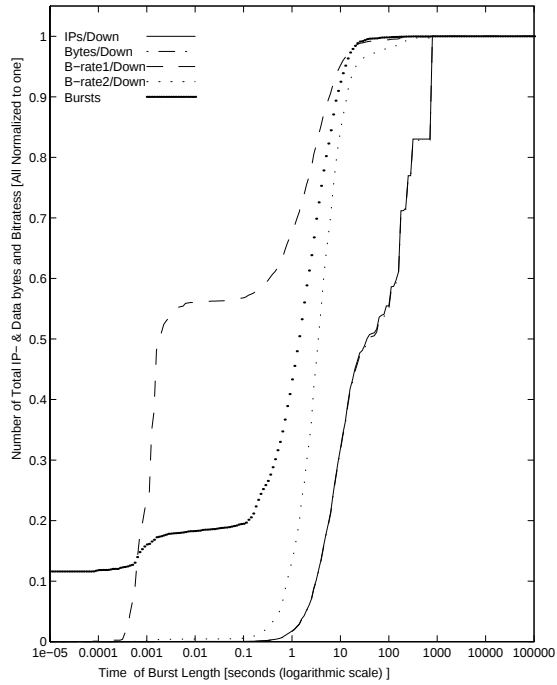
Figure 60/WS



Report on WWW-traffic measurements

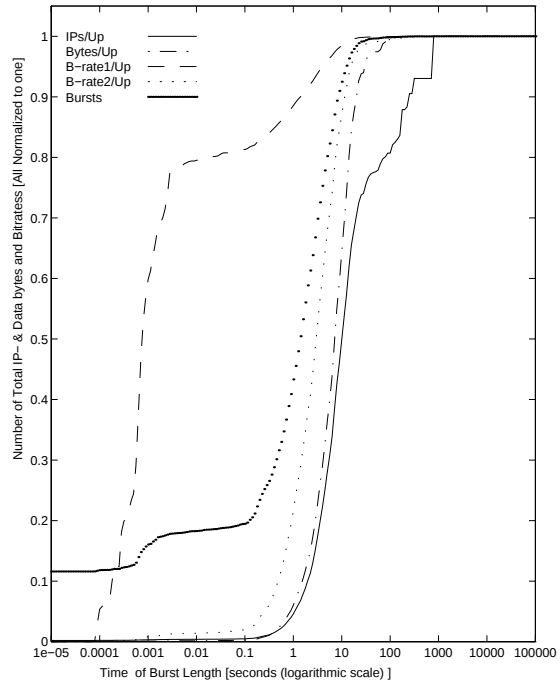
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Total IP- & Data bytes and Bitrates
by Burst Length

Figure 61/WS



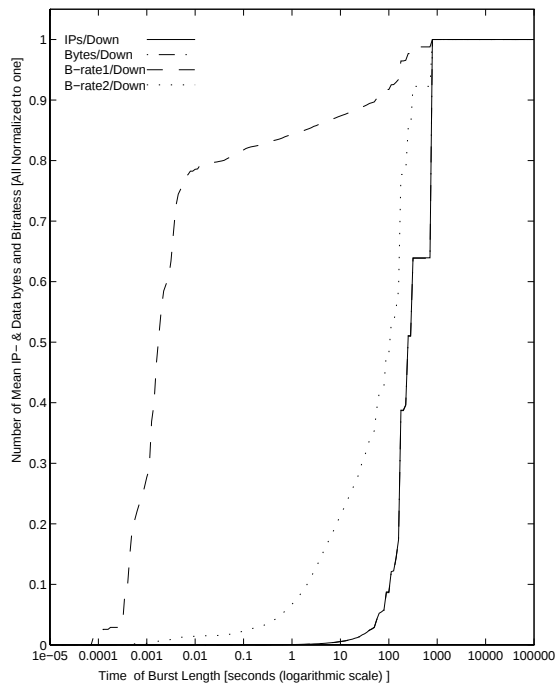
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Total IP- & Data bytes and Bitrates
by Burst Length

Figure 62/WS



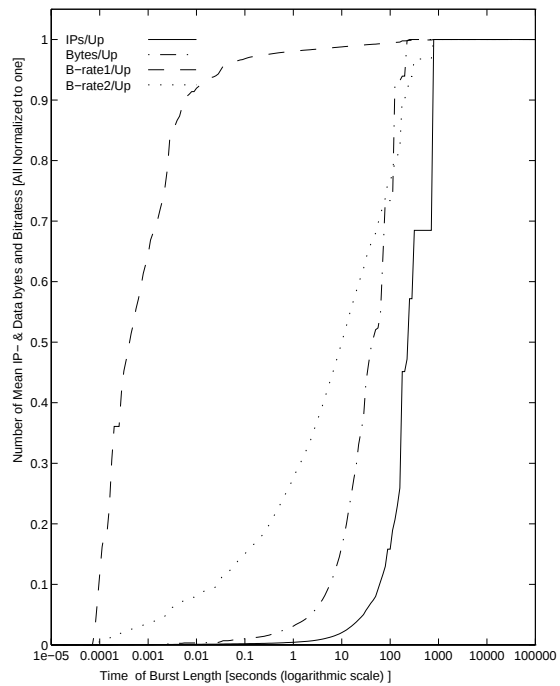
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Mean IP- & Data bytes and Bitrates
by Burst Length

Figure 63/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Mean IP- & Data bytes and Bitrates
by Burst Length

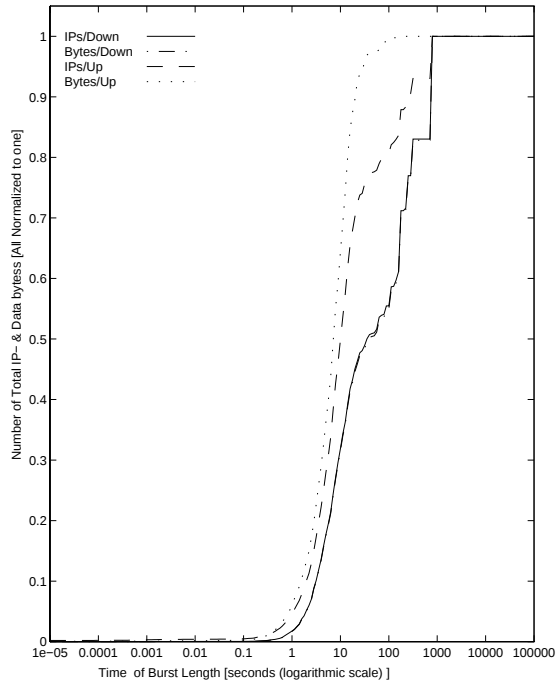
Figure 64/WS



Report on WWW-traffic measurements

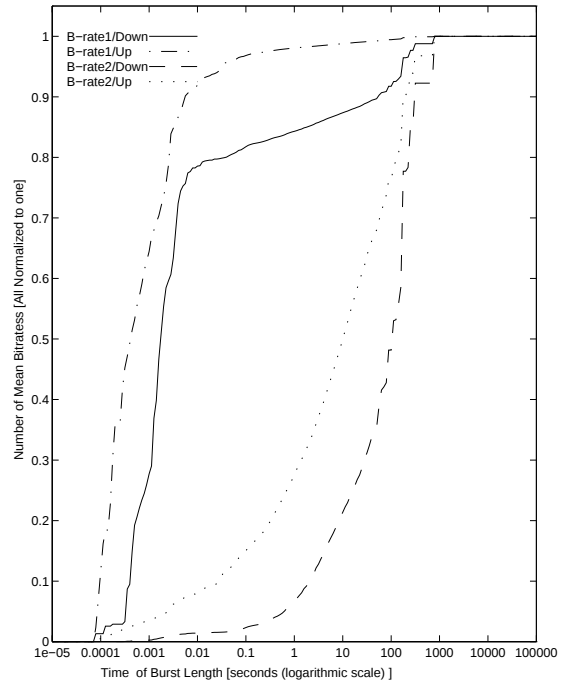
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Total IP- & Data bytes
by Burst Length

Figure 65/WS



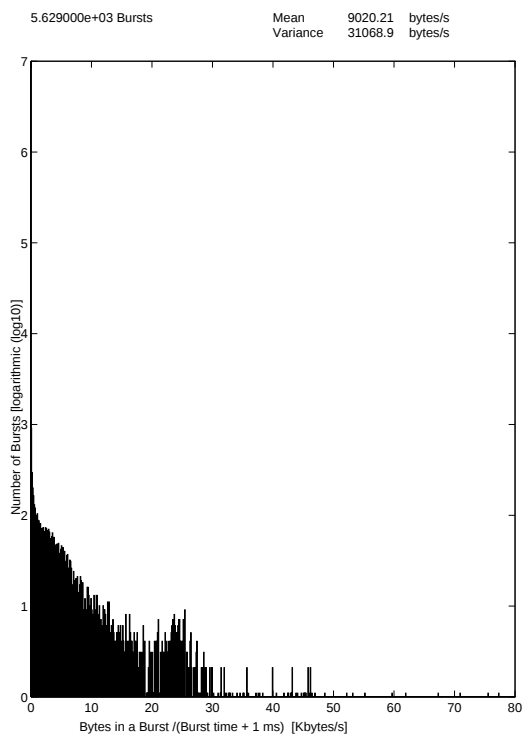
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Mean Bitrates
by Burst Length

Figure 66/WS



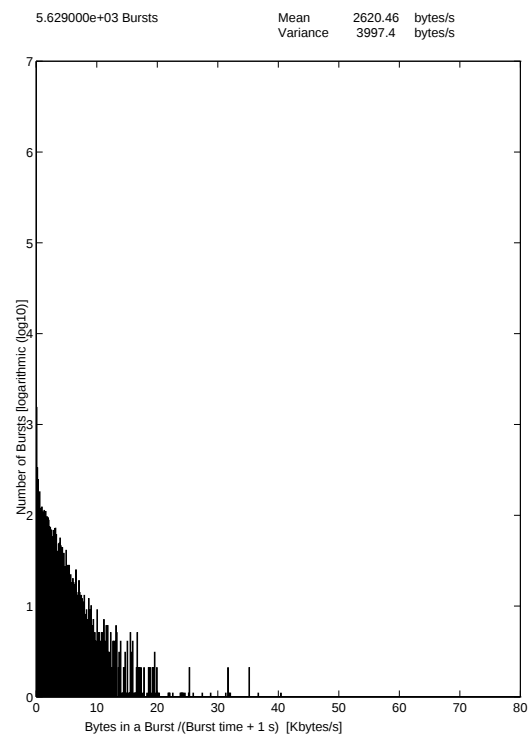
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Bursts by Average Bitrate (Down Packets)
A Burst (= arrival time < 2 s)

Figure 67/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Bursts by Average Bitrate (Down Packets)
A Burst (= arrival time < 2 s)

Figure 68/WS



Report on WWW-traffic measurements

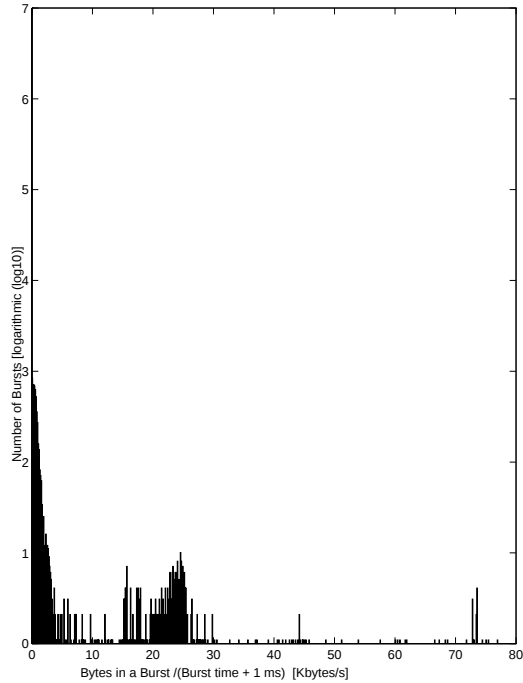
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 69/WS

The Distribution of Bursts by Average Bitrate (Up Packets)
A Burst (= arrival time < 2 s)

5.629000e+03 Bursts

Mean 3155.74 bytes/s
Variance 11981.9 bytes/s



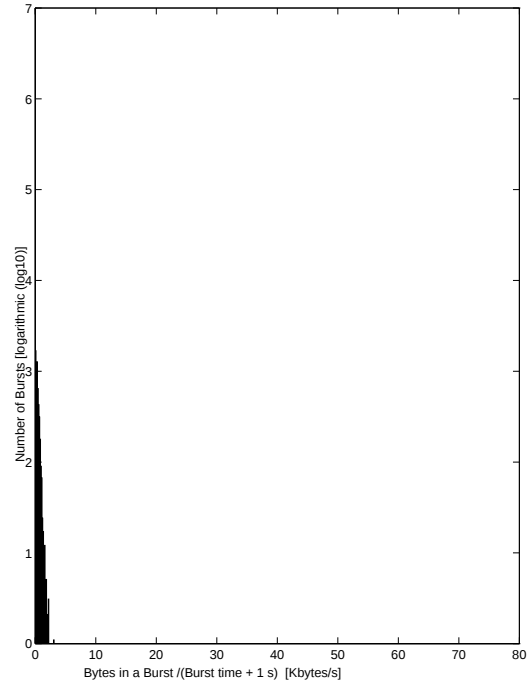
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 70/WS

The Distribution of Bursts by Average Bitrate (Up Packets)
A Burst (= arrival time < 2 s)

5.629000e+03 Bursts

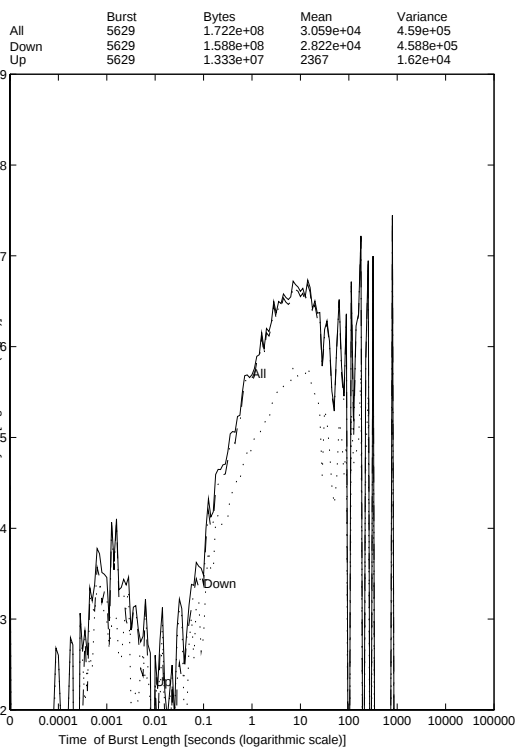
Mean 354.877 bytes/s
Variance 273.346 bytes/s



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 71/WS

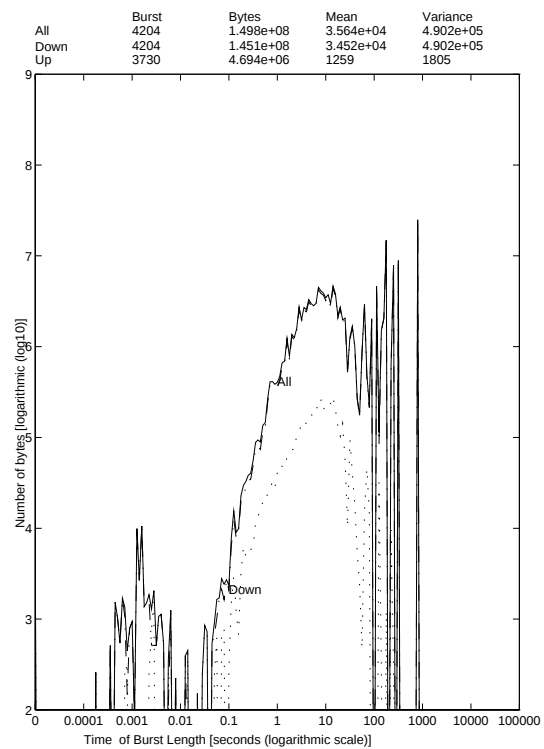
The Distribution of IP-Bytes by Burst Length



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 72/WS

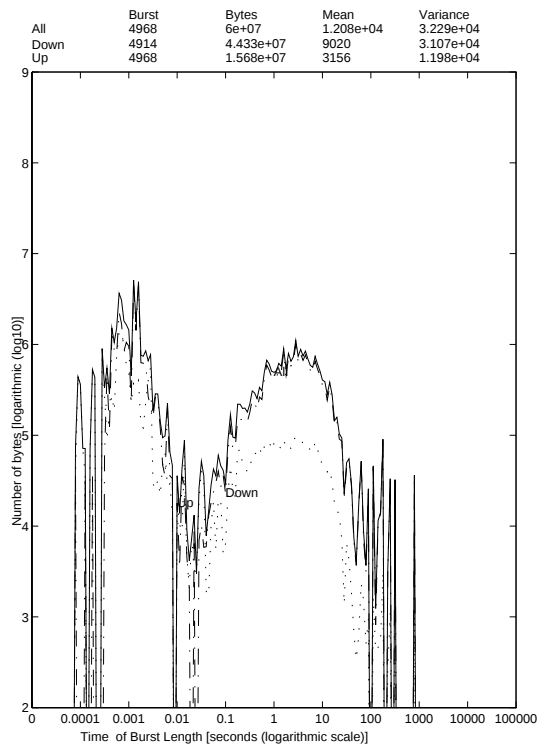
The Distribution of Data-Bytes by Burst Length



Report on WWW-traffic measurements

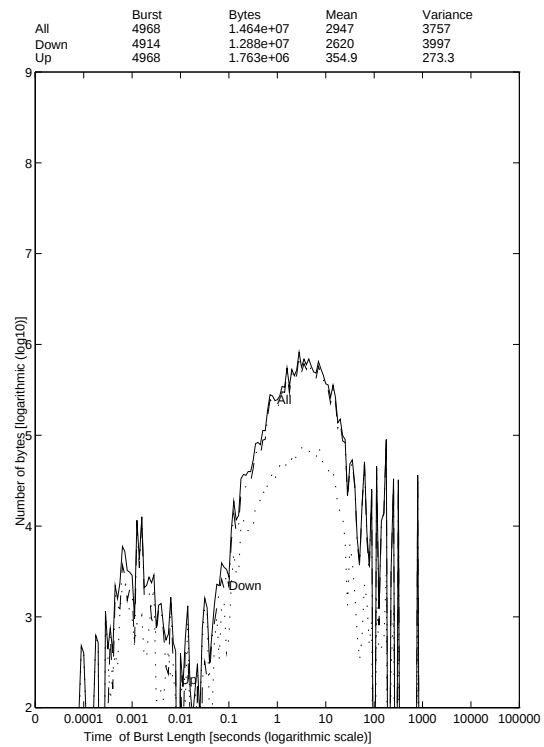
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Bitrate1 in Bytes by Burst Length

Figure 73/WS



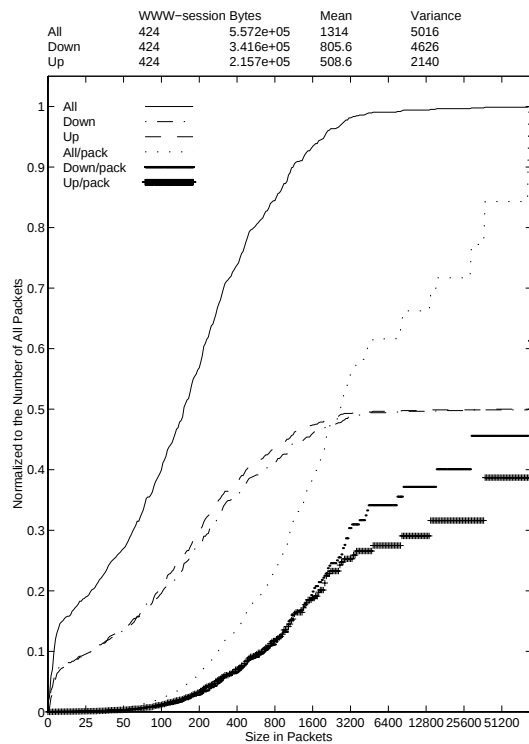
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of Bitrate2 in Bytes by Burst Length

Figure 74/WS



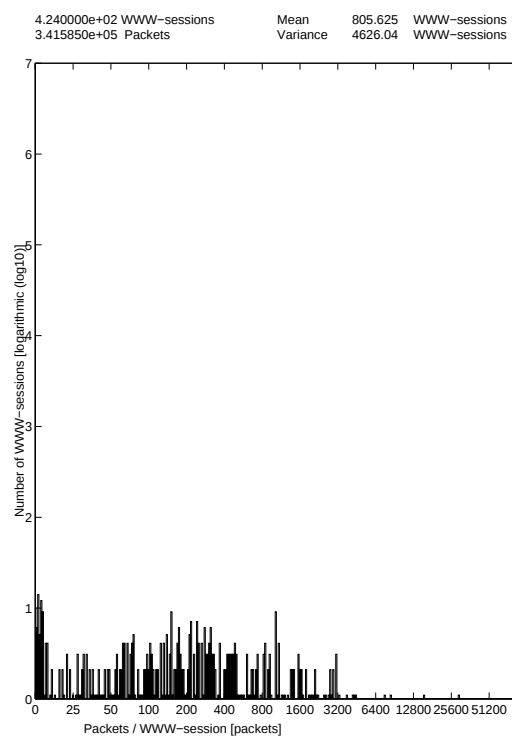
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of WWW-sessions by their Size in Packets

Figure 75/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of WWW-sessions by Size (Down Packets)
A WWW-session (= no pause > 5 min)

Figure 76/WS



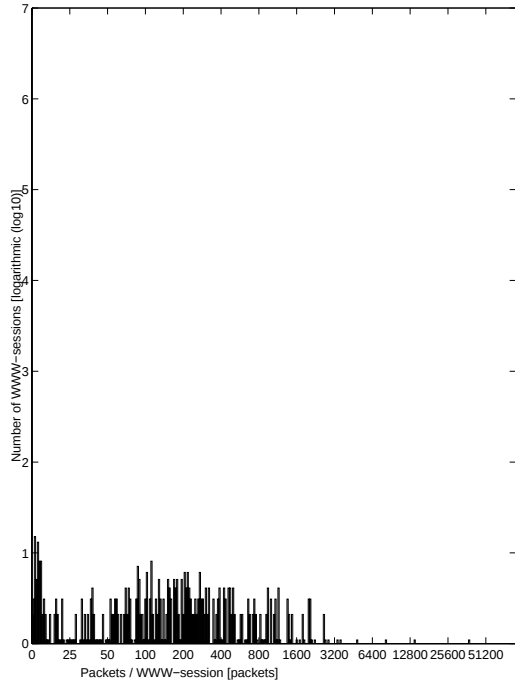
Report on WWW-traffic measurements

WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 77/WS

The Distribution of WWW-sessions by Size (Up Packets)
A WWW-session (= no pause > 5 min)

4.240000e+02 WWW-sessions	Mean	508.644	WWW-sessions
2.156650e+05 Packets	Variance	2139.81	WWW-sessions

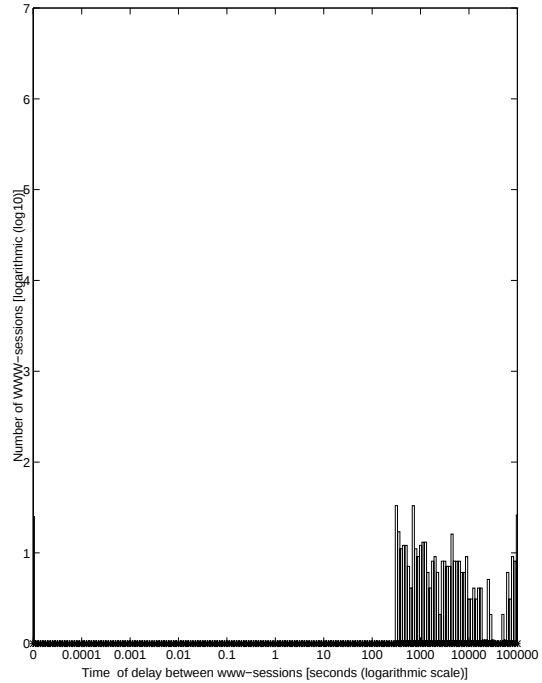


WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 78/WS

The Distribution of delay between www-sessions 3/3

424 WWW-sessions	Mean	17803.7	Seconds/WWW-session
7.54878e+06 Seconds	Variance	44514.9	Seconds/WWW-session

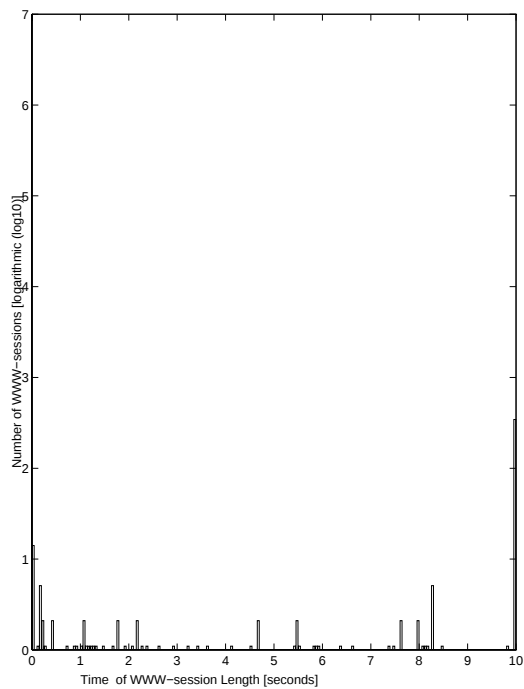


WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 79/WS

The Distribution of WWW-session Length 1/3

424 WWW-sessions	Mean	268.269	Seconds/WWW-session
113746 Seconds	Variance	377.837	Seconds/WWW-session

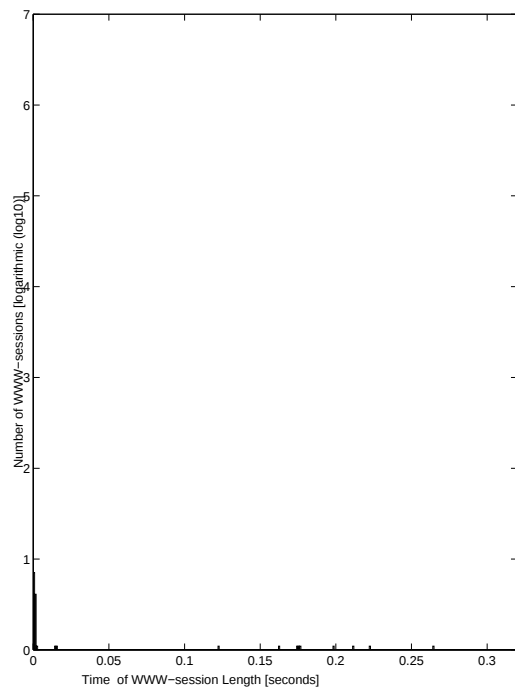


WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 80/WS

The Distribution of WWW-session Length 2/3

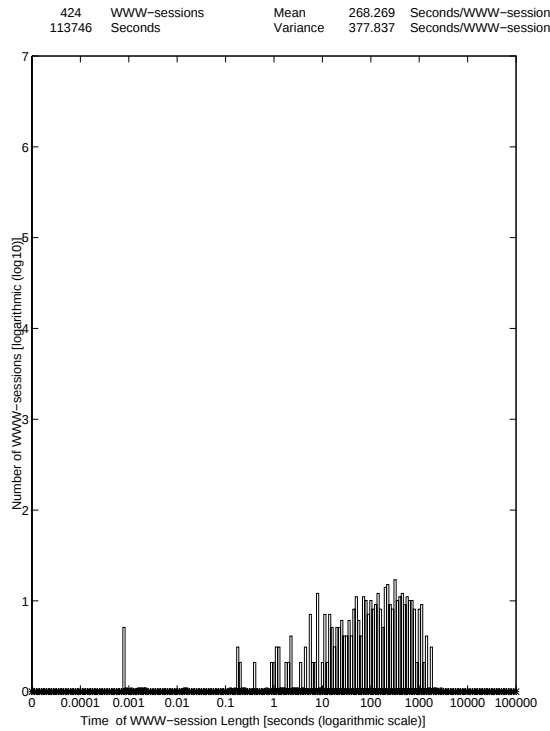
424 WWW-sessions	Mean	268.269	Seconds/WWW-session
113746 Seconds	Variance	377.837	Seconds/WWW-session



Report on WWW-traffic measurements

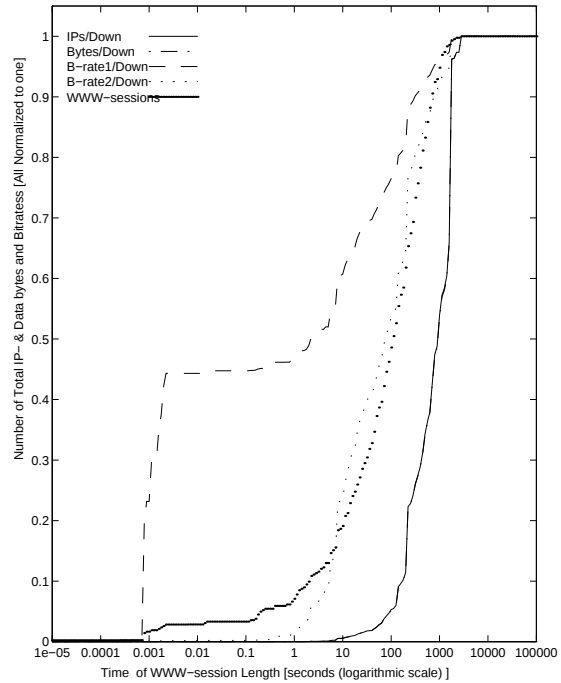
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Distribution of WWW-session Length 3/3

Figure 81/WS



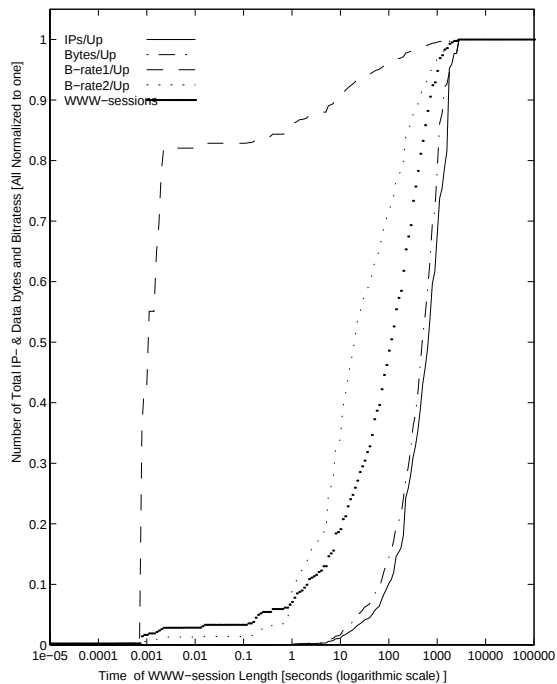
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Total IP- & Data bytes and Bitrates
by WWW-session Length

Figure 82/WS



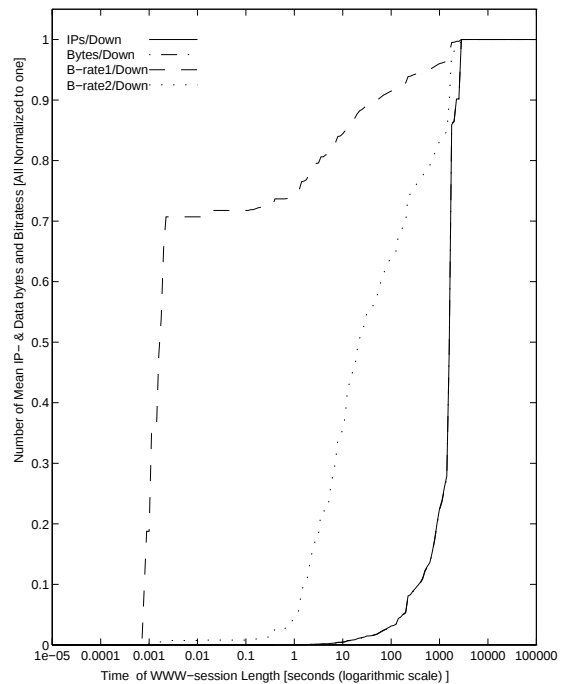
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Total IP- & Data bytes and Bitrates
by WWW-session Length

Figure 83/WS



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96
The Cumulative Distribution of Mean IP- & Data bytes and Bitrates
by WWW-session Length

Figure 84/WS

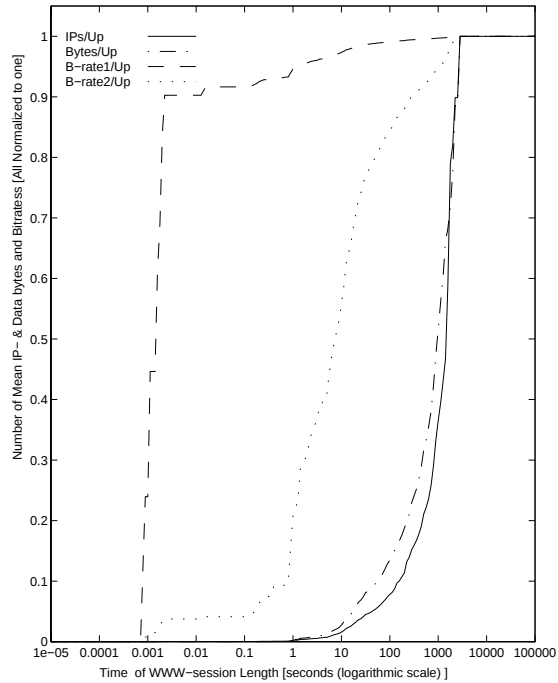


Report on WWW-traffic measurements

WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 85/WS

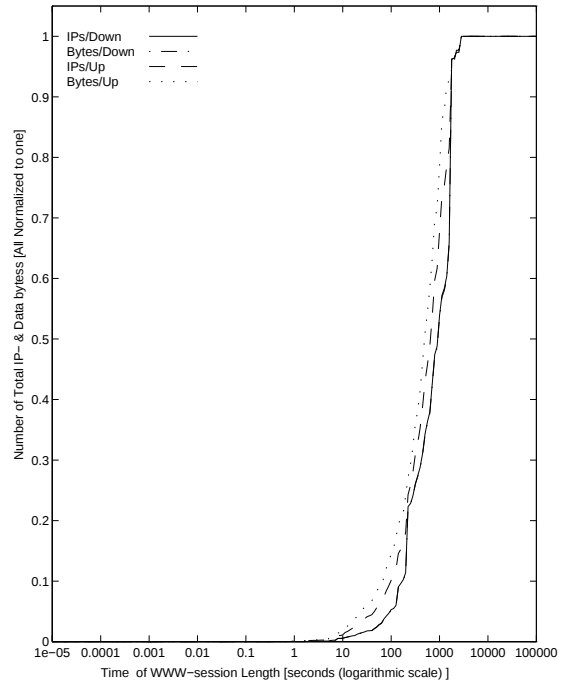
The Cumulative Distribution of Mean IP- & Data bytes and Bitrates
by WWW-session Length



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 86/WS

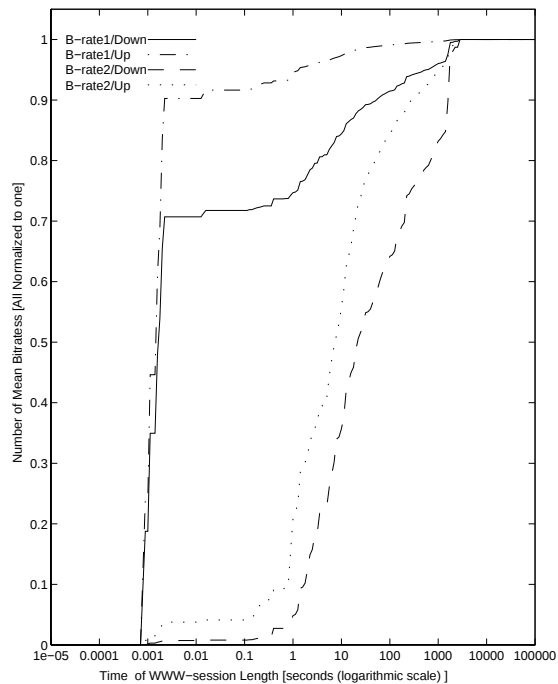
The Cumulative Distribution of Total IP- & Data bytes
by WWW-session Length



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 87/WS

The Cumulative Distribution of Mean Bitrates
by WWW-session Length

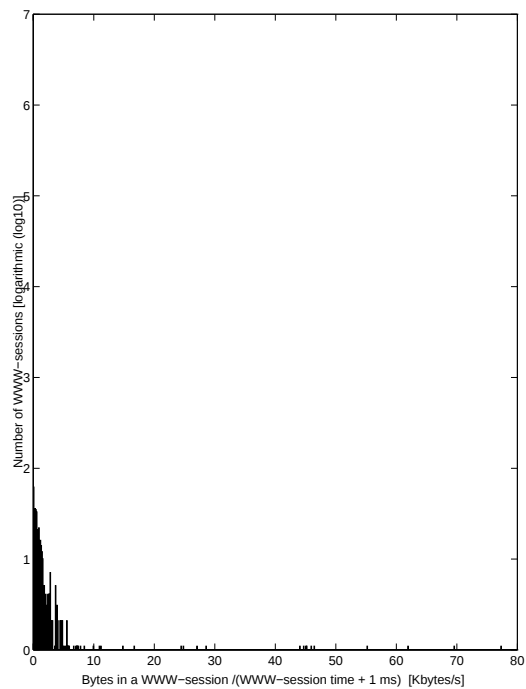


WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 88/WS

The Distribution of WWW-sessions by Average Bitrate (Down Packets)
A WWW-session (= no pause > 5 min)

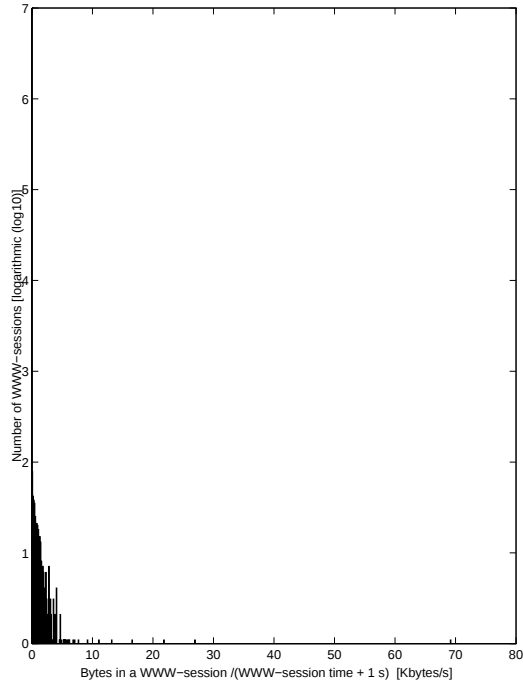
4.240000e+02 WWW-sessions Mean 2836.25 bytes/s
Variance 8762.14 bytes/s



Report on WWW-traffic measurements

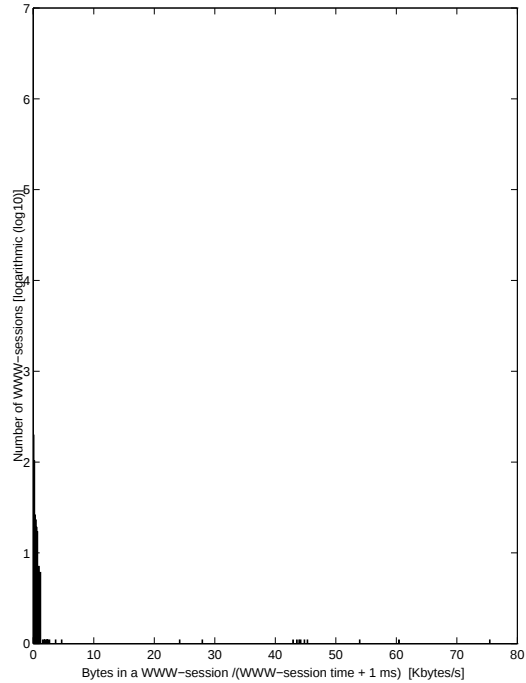
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96 Figure 89/WS
The Distribution of WWW-sessions by Average Bitrate (Down Packets)
A WWW-session (= no pause > 5 min)

4.240000e+02 WWW-sessions Mean 1434.08 bytes/s
 Variance 4091.31 bytes/s



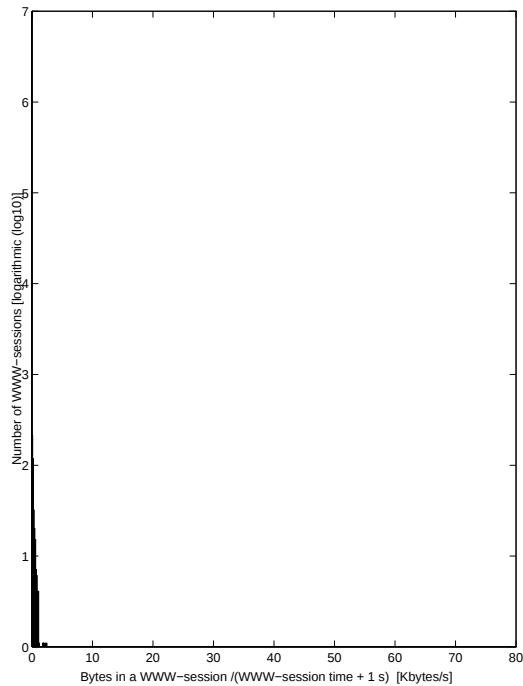
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96 Figure 90/WS
The Distribution of WWW-sessions by Average Bitrate (Up Packets)
A WWW-session (= no pause > 5 min)

4.240000e+02 WWW-sessions Mean 1463.07 bytes/s
 Variance 7627.83 bytes/s



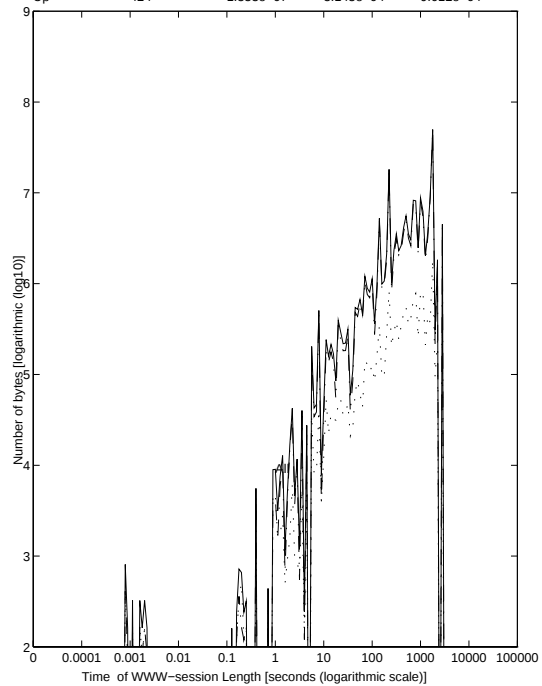
WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96 Figure 91/WS
The Distribution of WWW-sessions by Average Bitrate (Up Packets)
A WWW-session (= no pause > 5 min)

4.240000e+02 WWW-sessions Mean 205.48 bytes/s
 Variance 276.36 bytes/s



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96 Figure 92/WS
The Distribution of IP-Bytes by WWW-session Length

	WWW-session	Bytes	Mean	Variance
All	424	1.722e+08	4.061e+05	2.415e+06
Down	424	1.588e+08	3.746e+05	2.418e+06
Up	424	1.333e+07	3.143e+04	9.012e+04

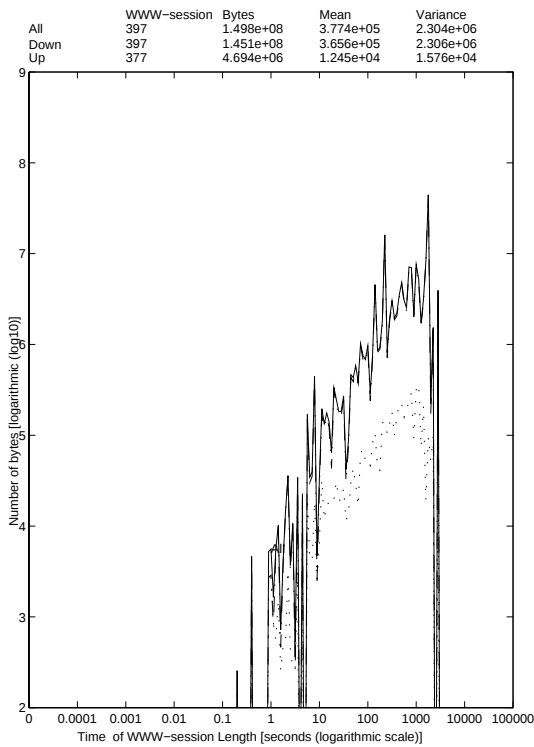


Report on WWW-traffic measurements

WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 93/WS

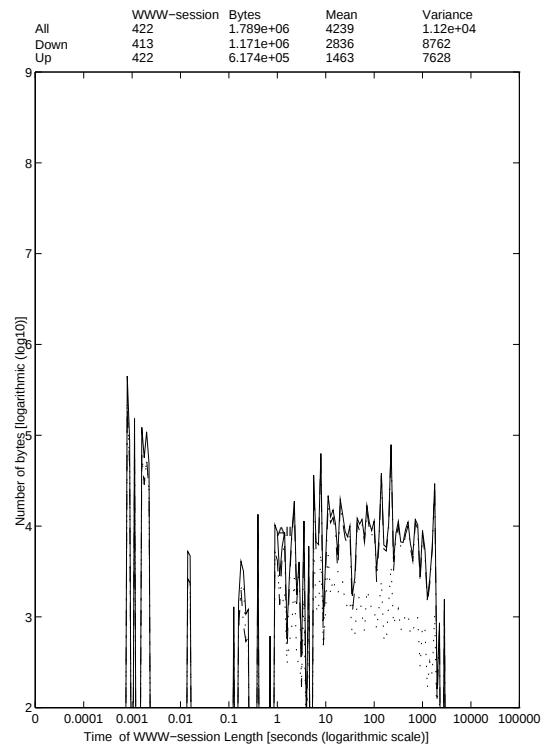
The Distribution of Data-Bytes by WWW-session Length



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 94/WS

The Distribution of Bitrate1 in Bytes by WWW-session Length



WWW traffic in WSs 5.8.-23.9.1996 27-Oct-96

Figure 95/WS

The Distribution of Bitrate2 in Bytes by WWW-session Length

