

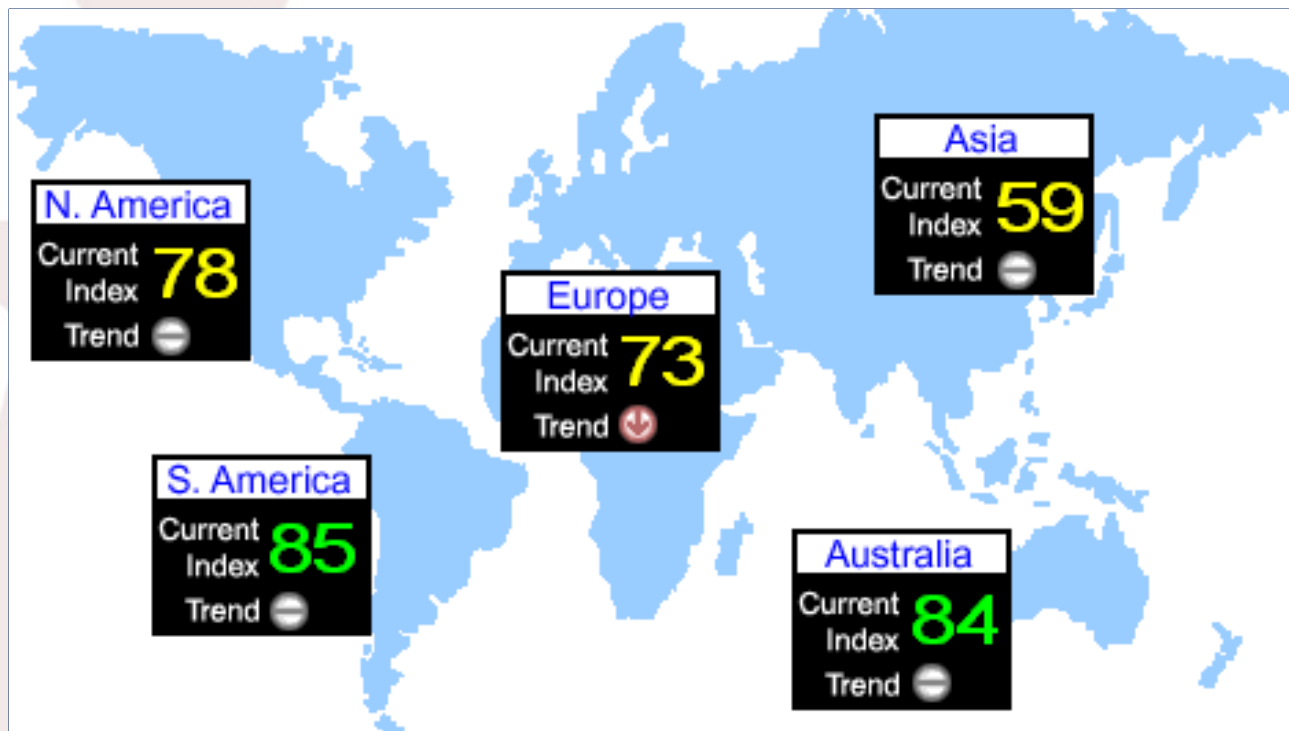


Internet: statistični parametri

kako dobro deluje omrežje?

Splošno stanje

vir: <http://www.internettrafficreport.com/>



Stanje 30. 3. 2011, 9:30.

Splošno stanje

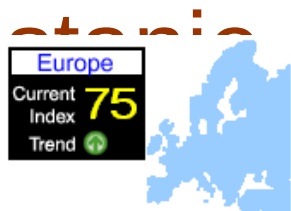
vir: <http://www.internettrafficreport.com/>

Region	Current Index	Avg. Response Time (ms)	Avg. Packet Loss (%)
<u>Asia</u>	59	408	25 %
<u>Australia</u>	84	150	0 %
<u>Europe</u>	75	248	11 %
<u>North America</u>	78	192	16 %
<u>South America</u>	85	143	0 %

Stanje 30. 3. 2011, 9:30.

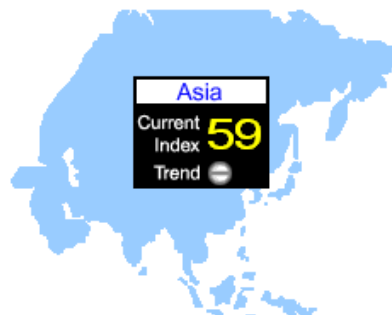
Region	Current Index	Avg. Response Time (ms)	Avg. Packet Loss (%)
<u>Asia</u>	87	122	0 %
<u>Australia</u>	85	144	0 %
<u>Europe</u>	86	135	0 %
<u>North America</u>	93	66	0 %
<u>South America</u>	81	180	0 %

Stanje 3. 4. 2013, 13:00.



Europe

Avg. Response Time: 248
Avg. Packet Loss: 11 %
Total Routers: 17
Network up: 88 %



Asia

Avg. Response Time: 408
Avg. Packet Loss: 25 %
Total Routers: 12
Network up: 75 %

[View Graphs](#) or Click a Router below for more detail.

Router	Location	Current Index	Response Time (ms)	Packet Loss (%)
ipsec.eskom.co.za	Africa (Gauteng)	93	63	0
rtl.mps.bg	Bulgaria (Sofia)	81	184	0
feth1-0-0.utland1.bone2.olivant.fo	Faroe Island (Torshavn)	81	187	0
n-eb1.n.de.net.dtag.de	Germany	83	162	0
dns1.plavnet.it	Italy (Florence)	80	198	0
mail.apra.it	Italy (Jesi)	0	0	100
mil5-loop0.mil.seabone.net	Italy (Milano)	93	64	0
aml-gw1.prioritytelecom.net	Netherlands (Amsterdam)	85	147	0
router.nomi.com.pl	Poland	93	63	0
rb1-feth2-0.vlc.s2k-net.net	Spain	80	193	0
mlm1-core.swip.net	Sweden	85	147	0
telenor-gw.bengtadahlgren.se	Sweden (Gothenburg)	0	0	100
nrkp-cr1.patrikweb.net	Sweden (Norrkoping)	82	171	0
gsr01-fl.bluevonder.co.uk	United Kingdom	84	159	0
gsr01-cr.bluevonder.co.uk	United Kingdom	84	154	0
krl-3ja.bdr.ex.net	United Kingdom (London)	82	179	0
core1-pig2-0.bletchlev.ukcore.bt.net	United Kingdom (Milton Keynes)	84	156	0

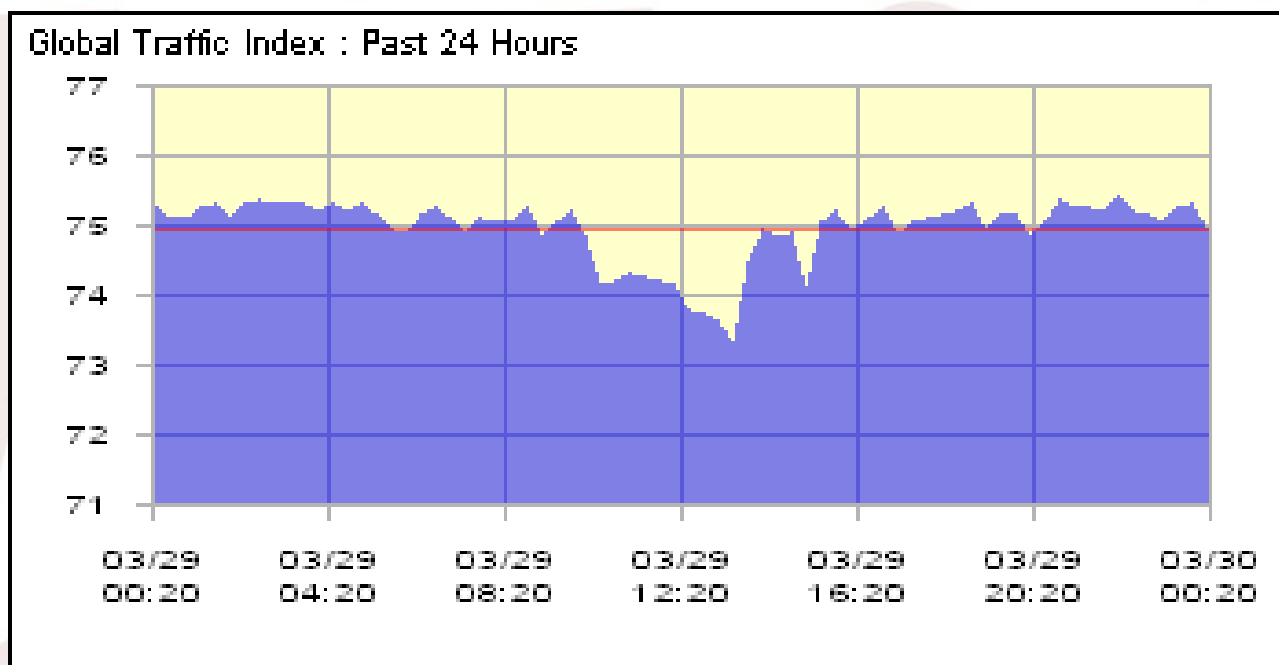
[View Graphs](#) or Click a Router below for more detail.

Router	Location	Current Index	Response Time (ms)	Packet Loss (%)
misschaos.chaos-studio.com	China (Shanghai)	96	33	0
ns2.rilinfo.net	India (Bangalore)	0	0	100
gsrmm.vsnl.net.in	India (Mumbai)	73	264	0
core-mel.cbn.net.id	Indonesia (Mangole)	78	214	0
fe0-0.bb1.bahar.kimianet.ir	Iran (Karaj)	68	311	0
gi0-1.fhr-001-core-1.ctel.ir	Iran (Tehran)	74	260	0
router1.iust.ac.ir	Iran (Tehran)	0	0	100
nat.mindu.co.il	Israel (Tel Aviv)	75	243	0
cslmr1.comsourceone.com	Japan (Tokyo)	86	137	0
itr-test.isp.qa	Qatar (Doha)	70	292	0
gateway.ix.singtel.com	Singapore	0	0	100
tpnocl-osr-transit.ix.giga.net.tw	Taiwan	85	148	0

Indeks prometa Vir:

<http://www.internettrafficreport.com/>

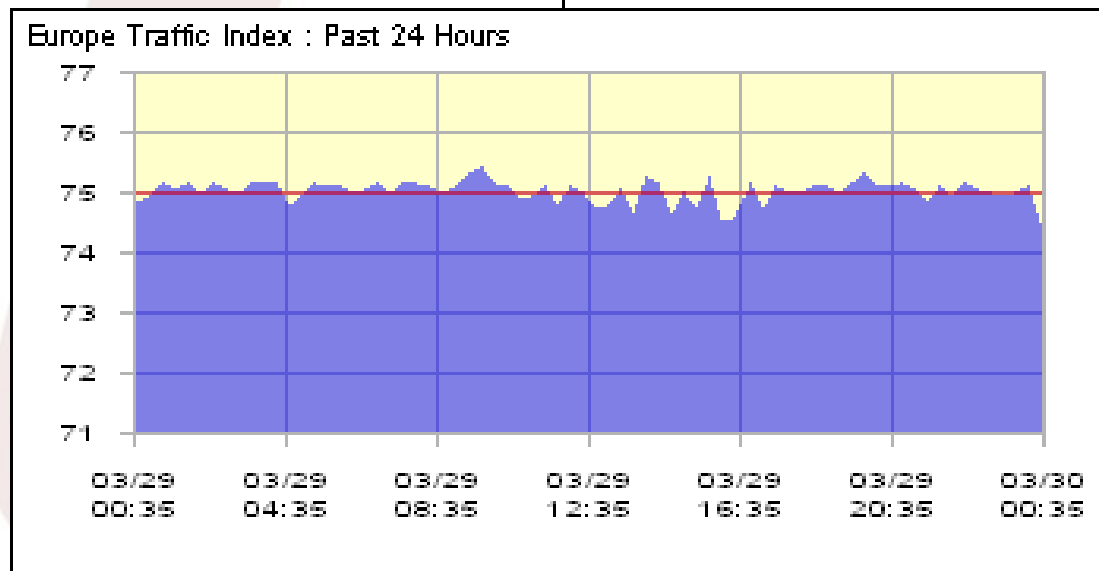
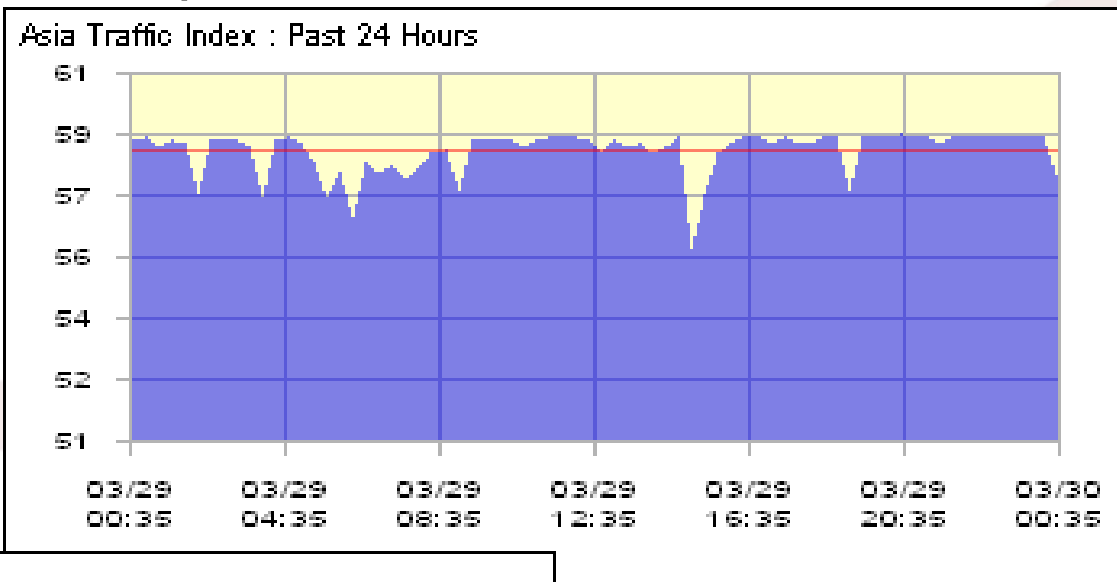
- ❖ Ocena: 0 (počasi) do 100 (hitro)
- ❖ Stanje v svetu 30. 3. 2011, 9:30.



Indeks prometa vir:

<http://www.internettrafficreport.com/>

- ❖ Ocena:
0 (počasi),
100 (hitro)



Stanje v Aziji in Evropi
30. 3. 2011, 9:30.

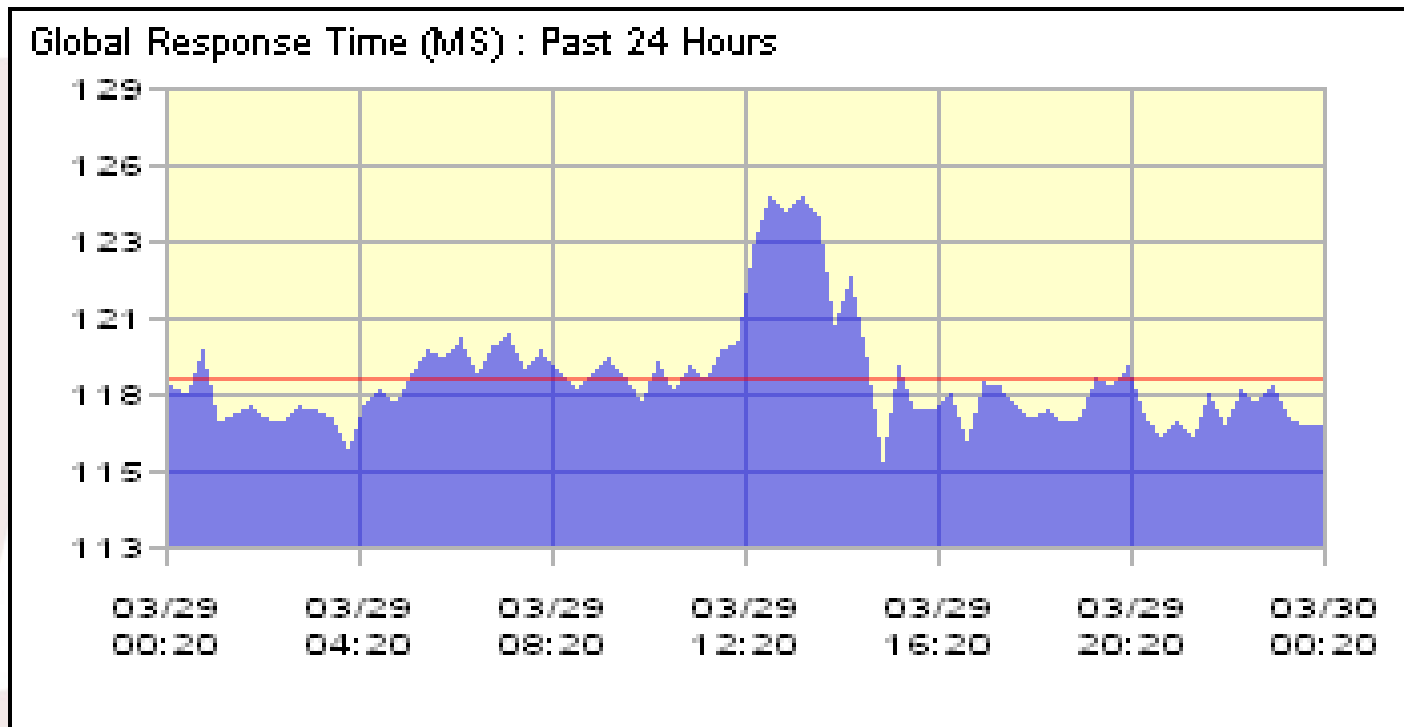
Latenca

- ❖ Čas, potreben da paket pripotuje od točke A do točke B in nazaj.
- ❖ Drugo ime za latenco je RTT (Round Trip Time).
- ❖ Običajna vrednost za Internet je pod 200 ms.
- ❖ Latenca (zakasnitev) delovanja omrežja je dober podatek o njegovem trenutnem stanju.
- ❖ Način merjenja:
 - ❖ Na nek vozal (strežnik) v omrežju pošljemo sporočilo in počakamo na avtomatski odgovor (običajno se uporablja program **ping**);
 - ❖ čas, ki mine vmes, je latenca.
 - ❖ Podajamo v milisekundah kot povprečje večjega števila meritev.
- ❖ Manjša latenca pomeni boljše delovanje omrežja.

Latenca

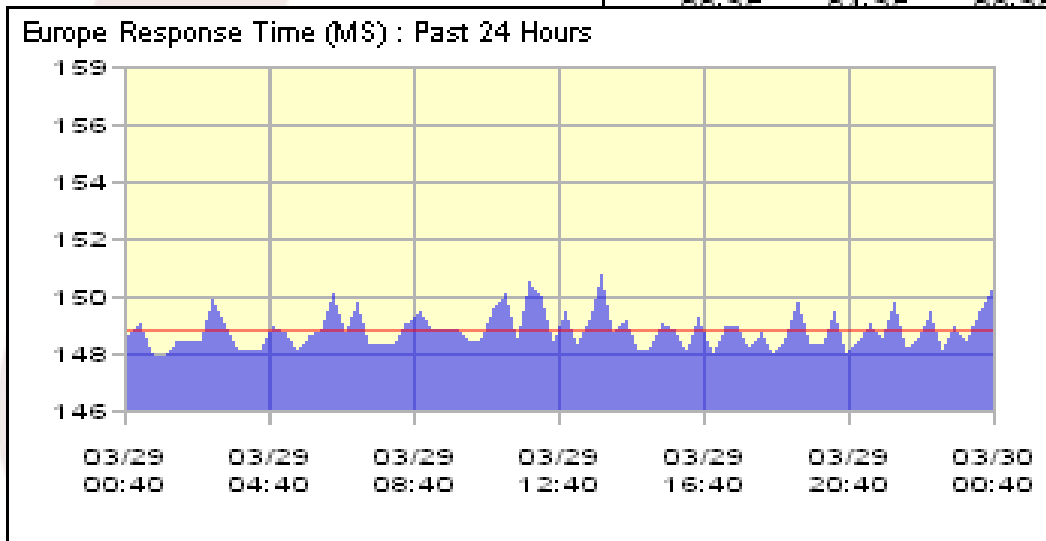
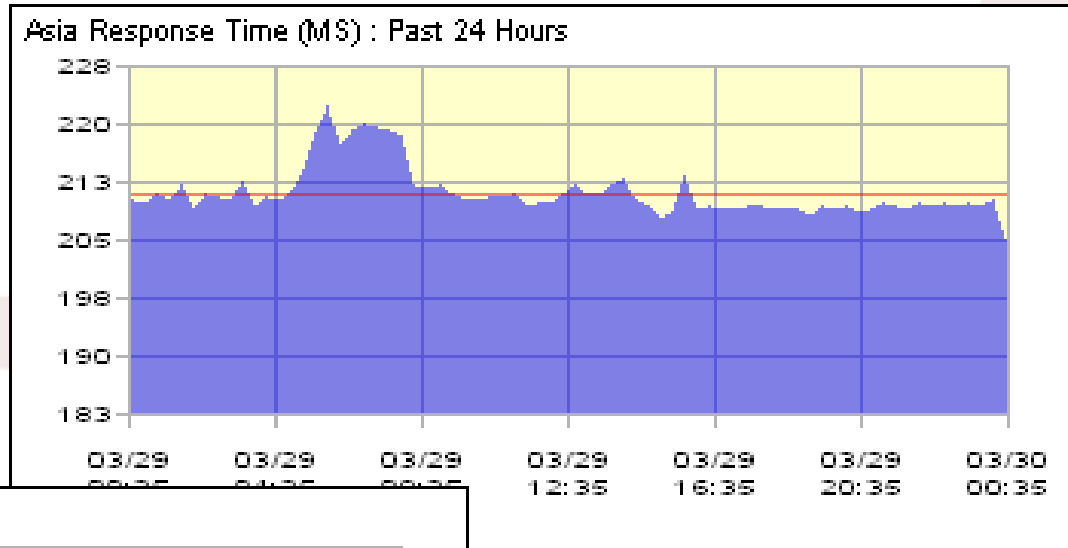
Stanje v svetu 30. 3. 2011, 9:30.

Vir: <http://www.internettrafficreport.com/>



Latenca

Vir: <http://www.internettrafficreport.com/>

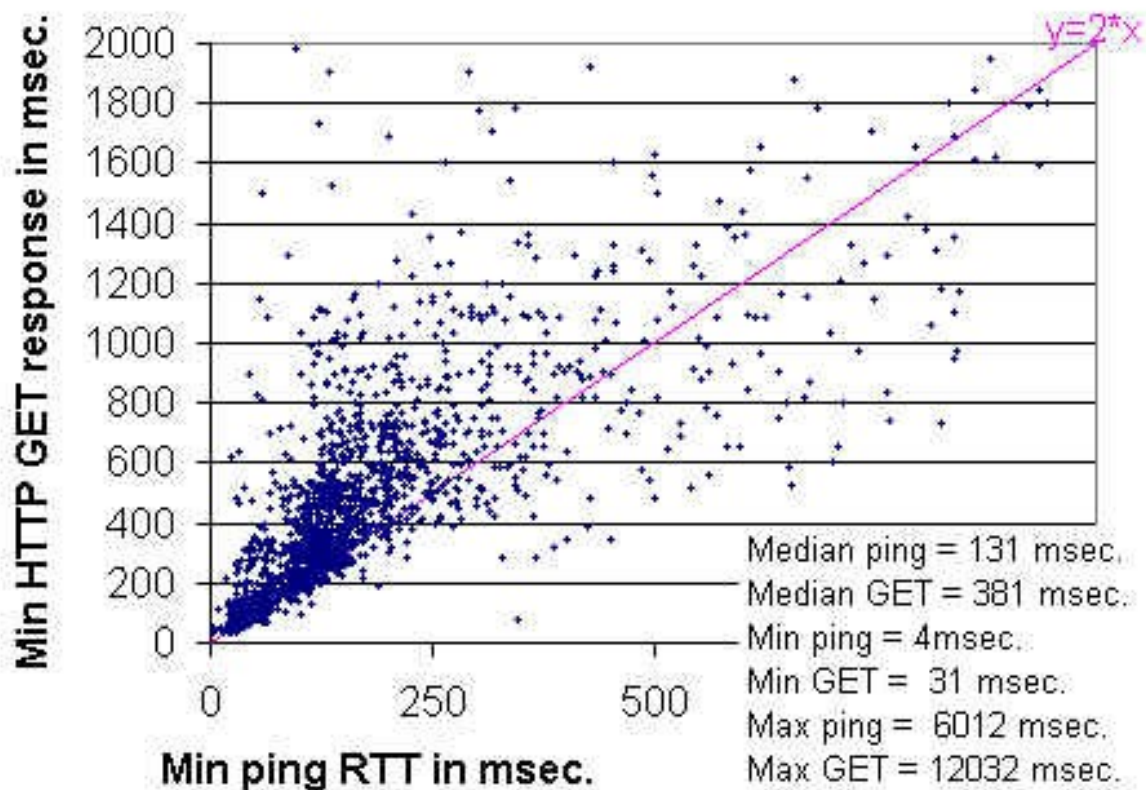


Stanje v Aziji in Evropi
30. 3. 2011, 9:30.

Latenca

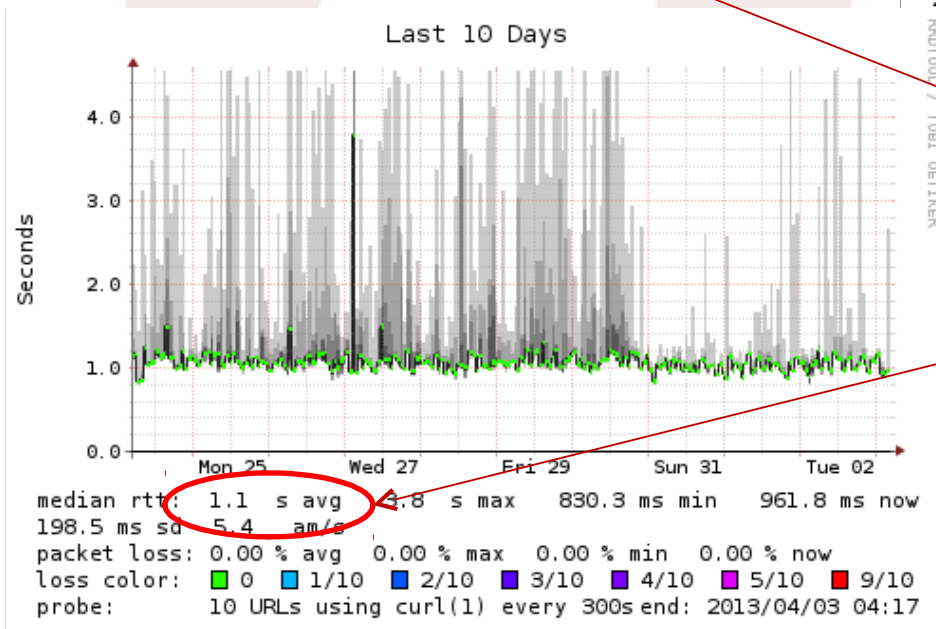
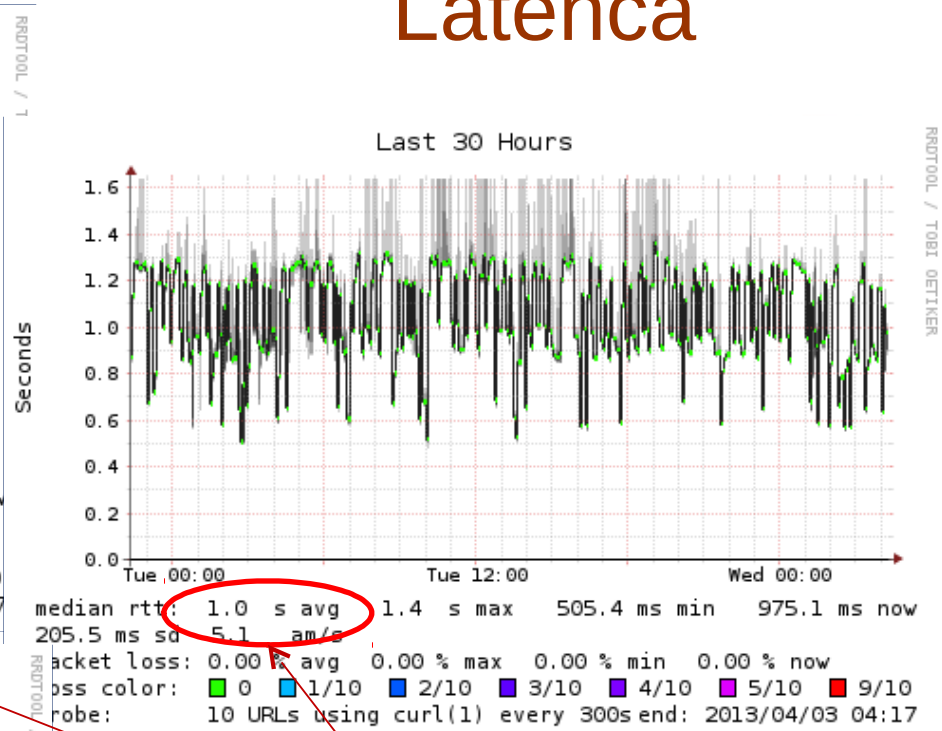
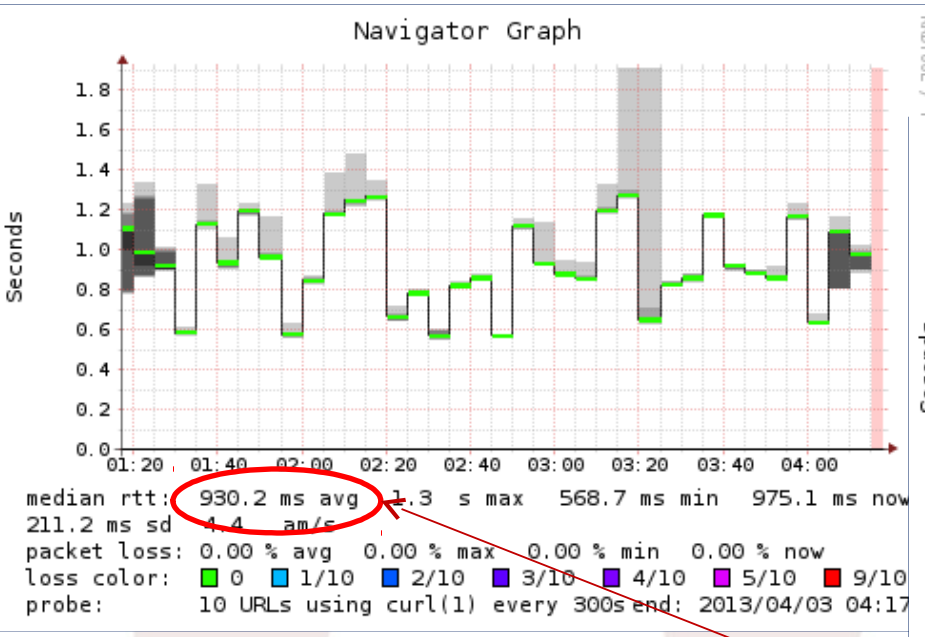
Vir: <http://www.slac.stanford.edu/comp/net/wan-mon/tutorial.html/>

- ❖ Primerjava s stanjem pred 15 leti: praktično brez sprememb (ob (skoraj) eksponentni rasti prometa in omrežja).



Stanje
18. 12. 1996

Latencia

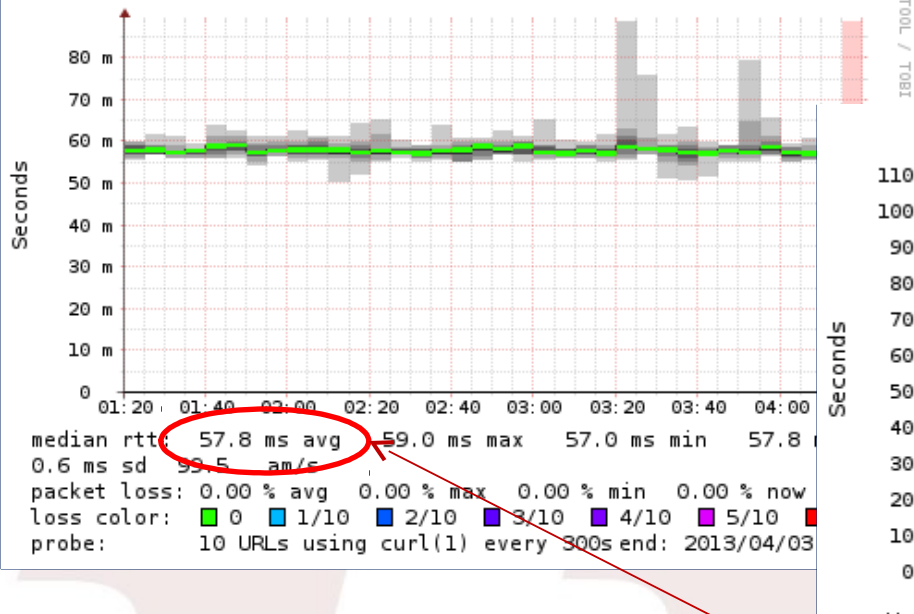


Facebook !
3. 4. 2013, 13:20

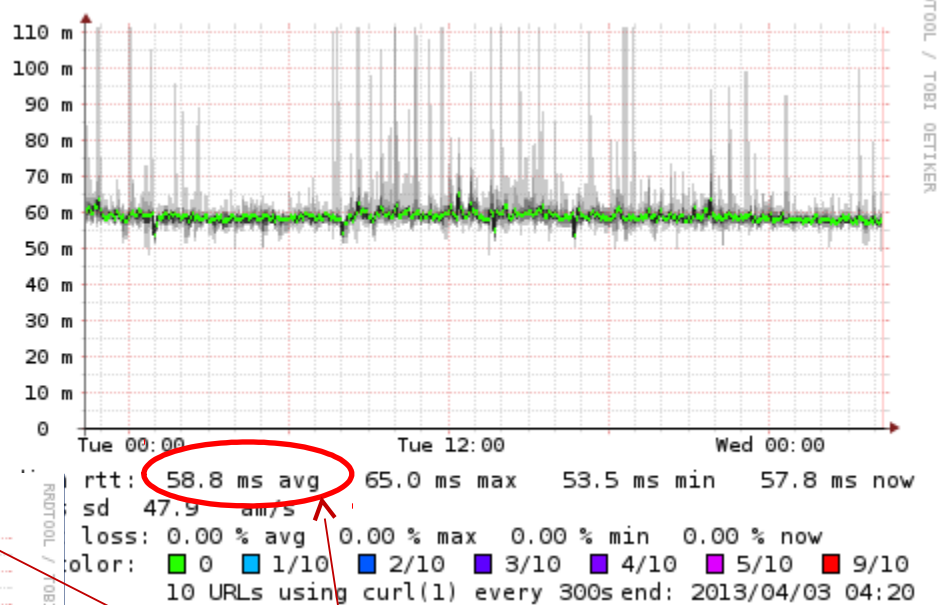
Vir: UCLA Network Weather Report
<http://www.noc.ucla.edu/weather.php>

Latencia

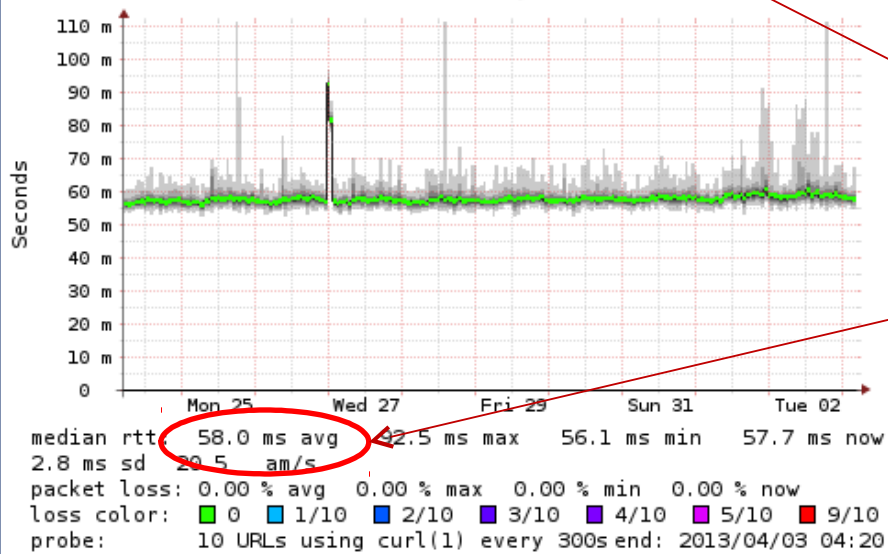
Navigator Graph



Last 30 Hours



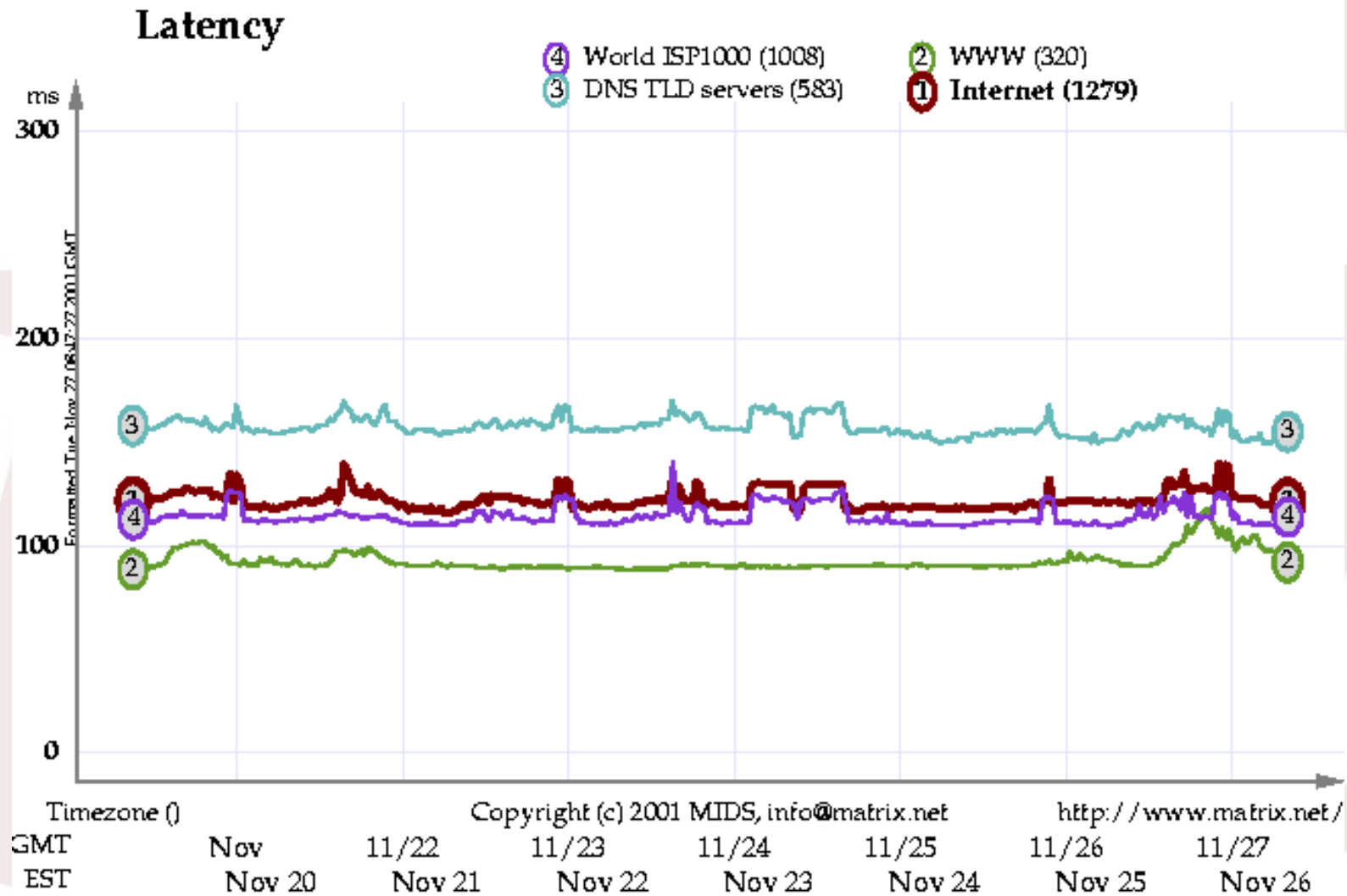
Last 10 Days



Google
3. 4. 2013, 13:25

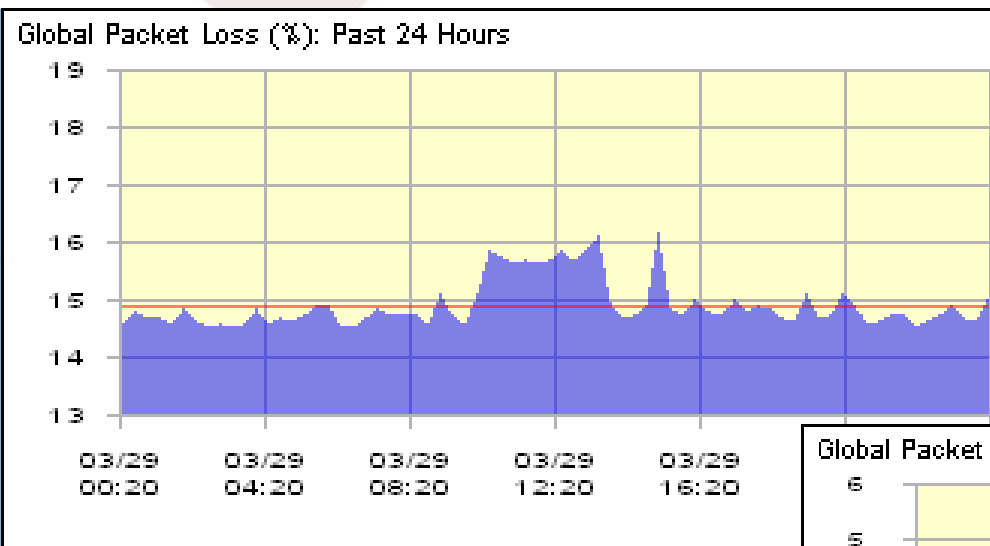
Vir: UCLA Network Weather Report
<http://www.noc.ucla.edu/weather.php>

Latency: primerjava storitev (jesen 2001)

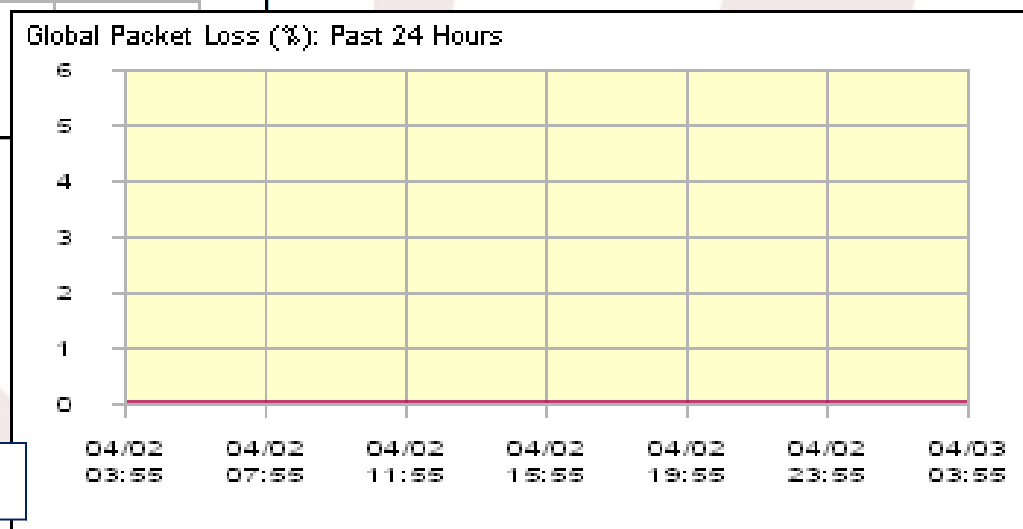


Izgube paketov

- ❖ Mera ocenjuje zanesljivost omrežja.
- ❖ Vrednosti pod 5% so zanemarljive.
- ❖ Vir <http://www.internettrafficreport.com/>

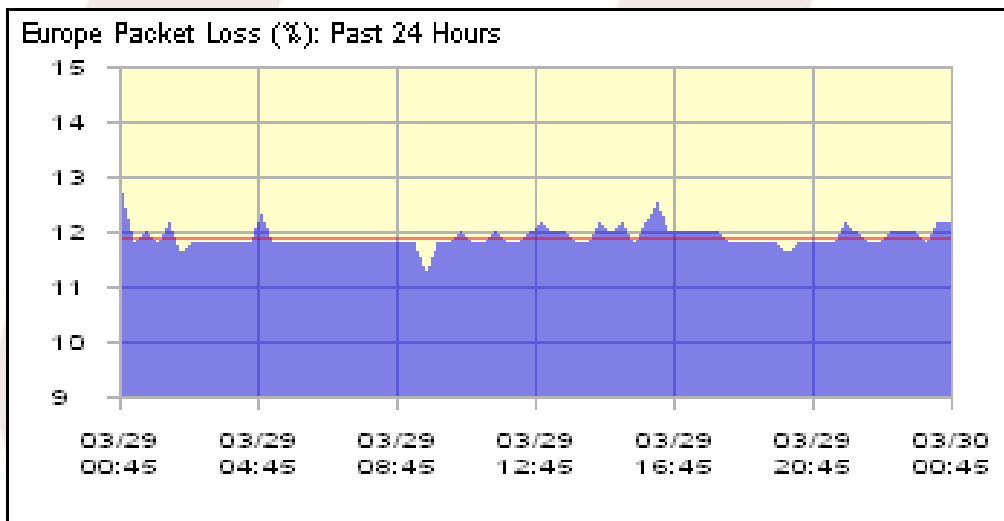
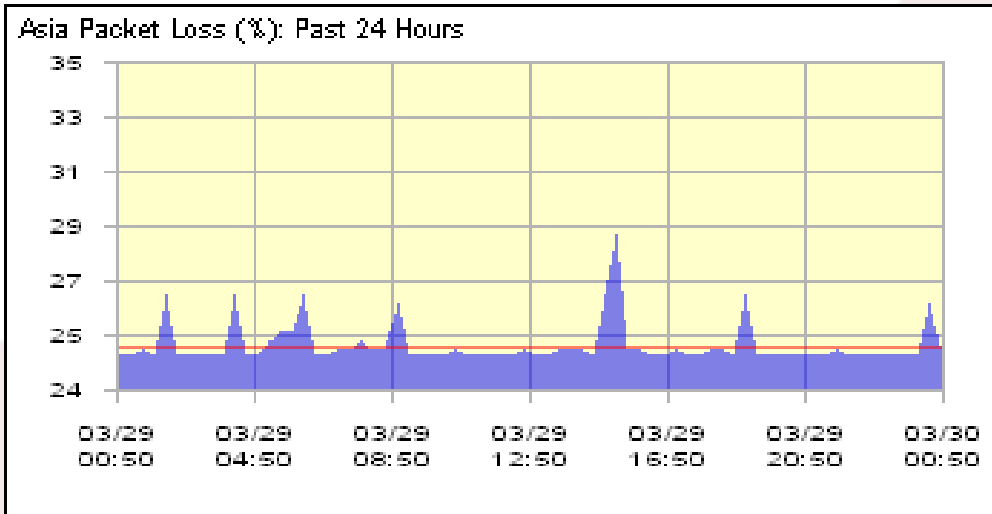


Stanje 30. 3. 2011, 9:30.



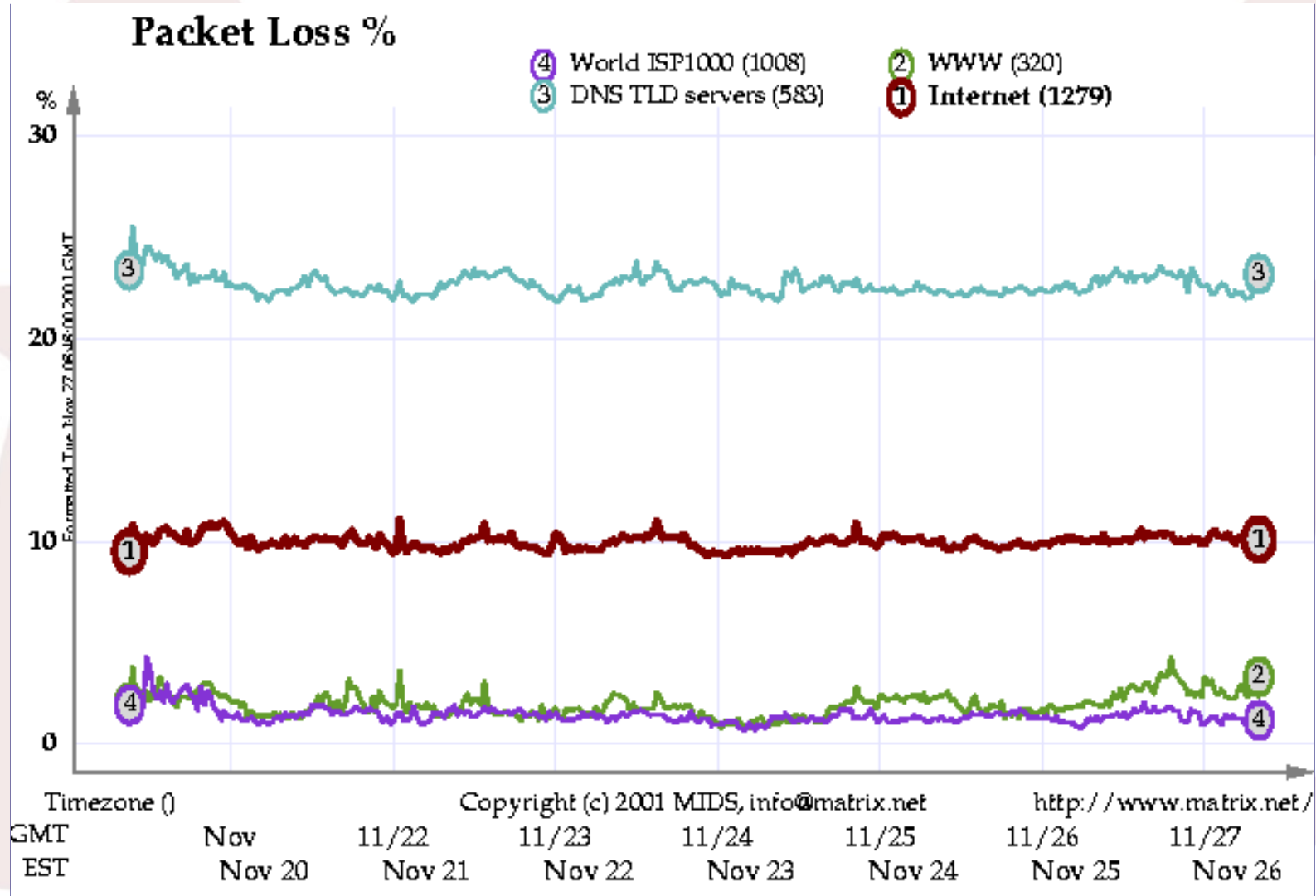
Stanje 3. 4. 2013, 13:10.

Izgube paketov

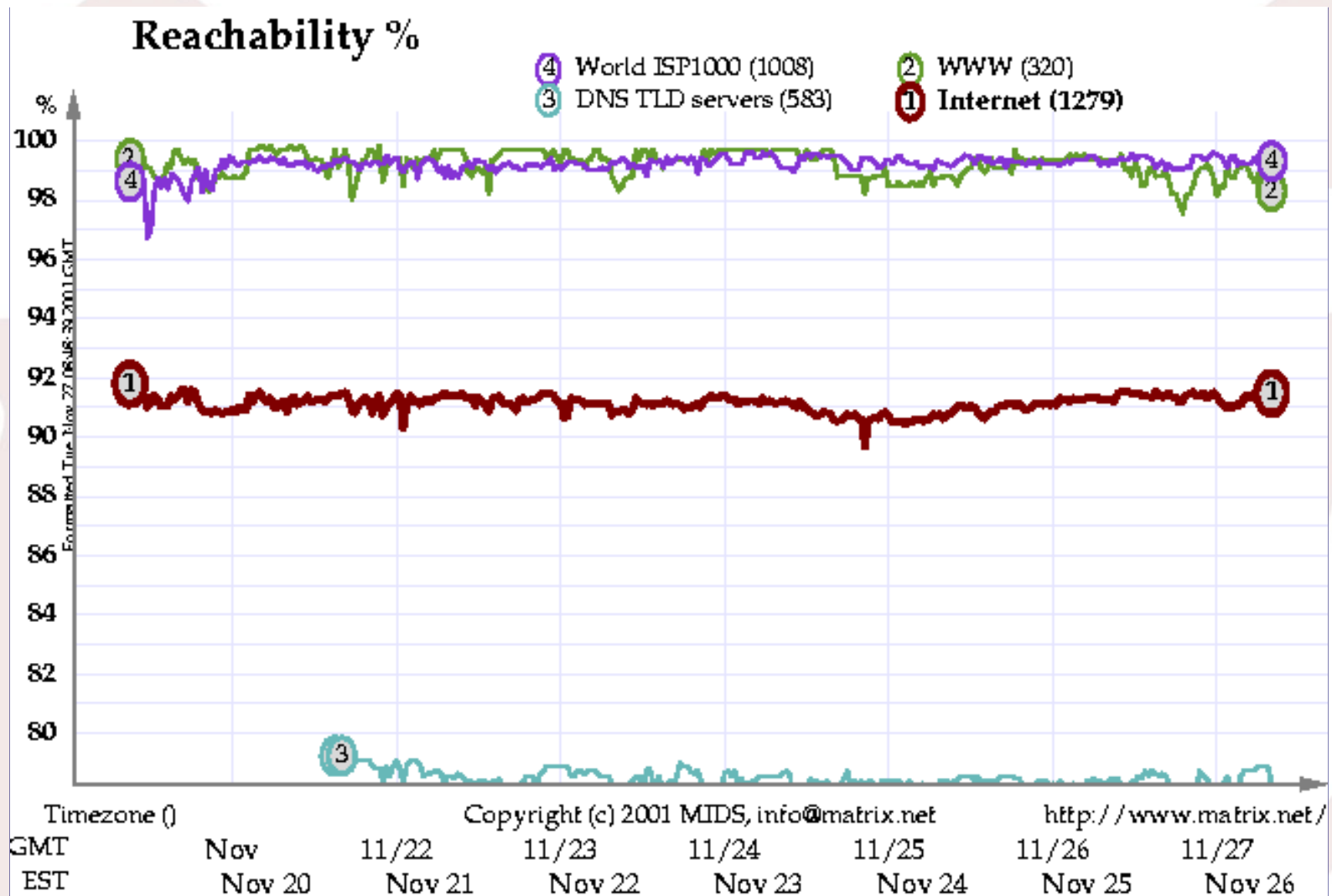


Stanje
30. 3. 2011, 9:30.

Izgube paketov: primerjava storitev (jesen 2001)

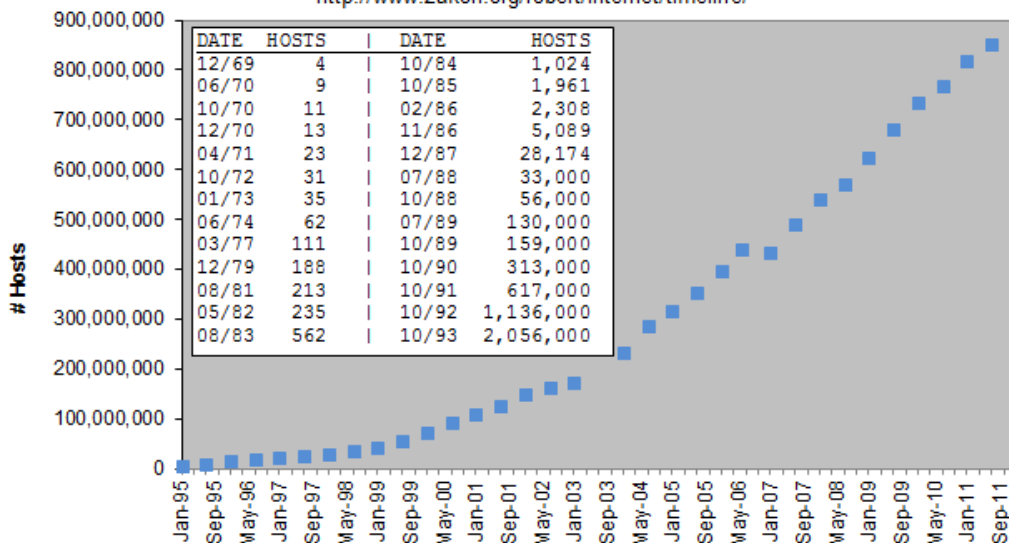


Dostopnost strežnikov: primerjava storitev (jesen 2001)

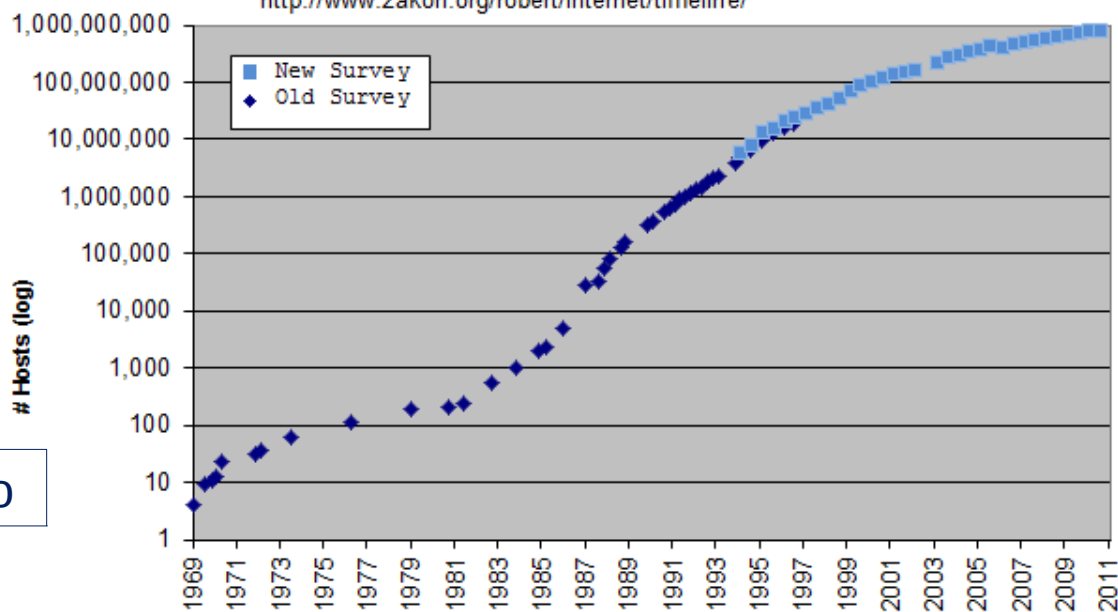


Število strežnikov na Internetu (1969 - 2011)

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eline Copyright ©2012 Robert H Zakon
<http://www.zakon.org/robert/internet/timeline/>



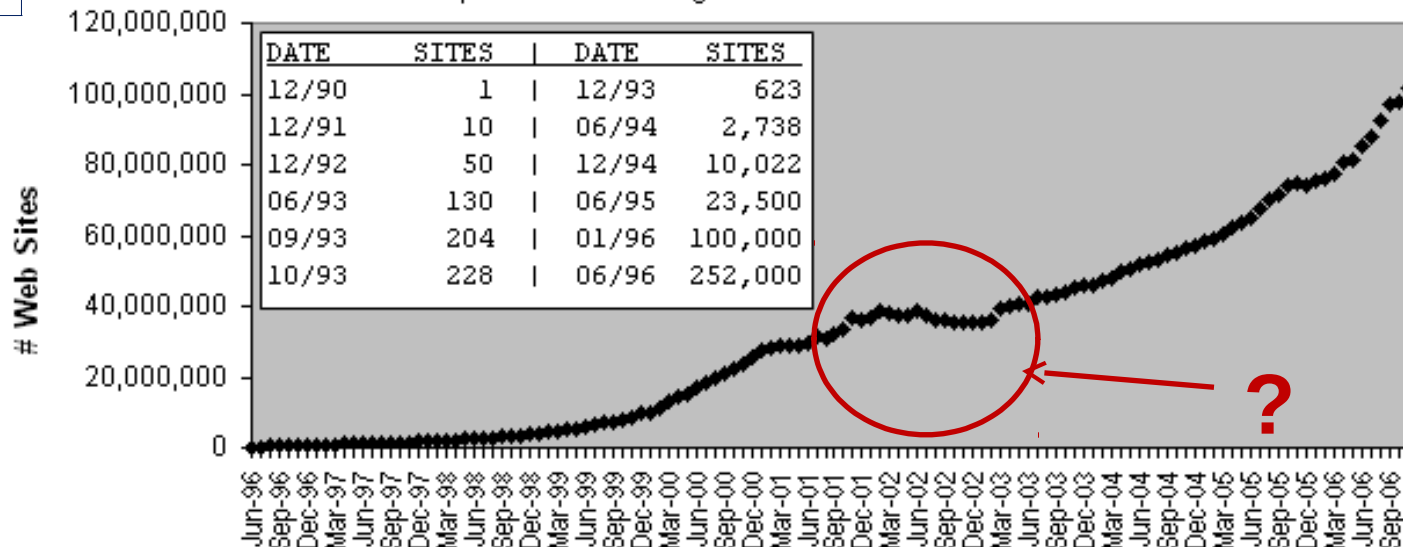
Logaritemsko merilo

(1990 - 2009)

Število
spletiš
č

Hobbes' Internet Timeline Copyright ©2006 Robert H Zakon

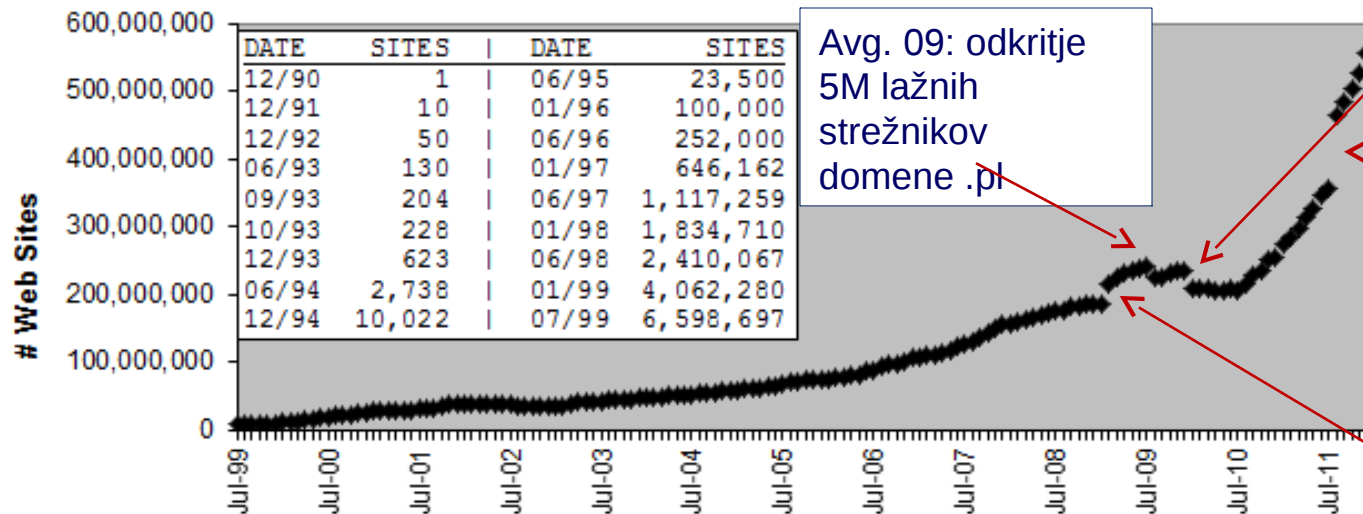
<http://www.zakon.org/robert/internet/timeline/>



(1990 - 2012)

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<http://www.zakon.org/robert/internet/timeline/>



Avg. 09: odkritje
5M lažnih
strežnikov
domene .pl

Jan. 11:
qq.com
ni več
dostopen.

?

Feb. 09:
20M novih kitajskih
strežnikov na
qq.com.

Računi pri Facebook-u

