

Lightning Talk



Alternate power sources for Internet Exchanges



Anycasting the Olympics

TVNZ - CityLink joint effort



Platform

Nodes in:

San Francisco - PAIX

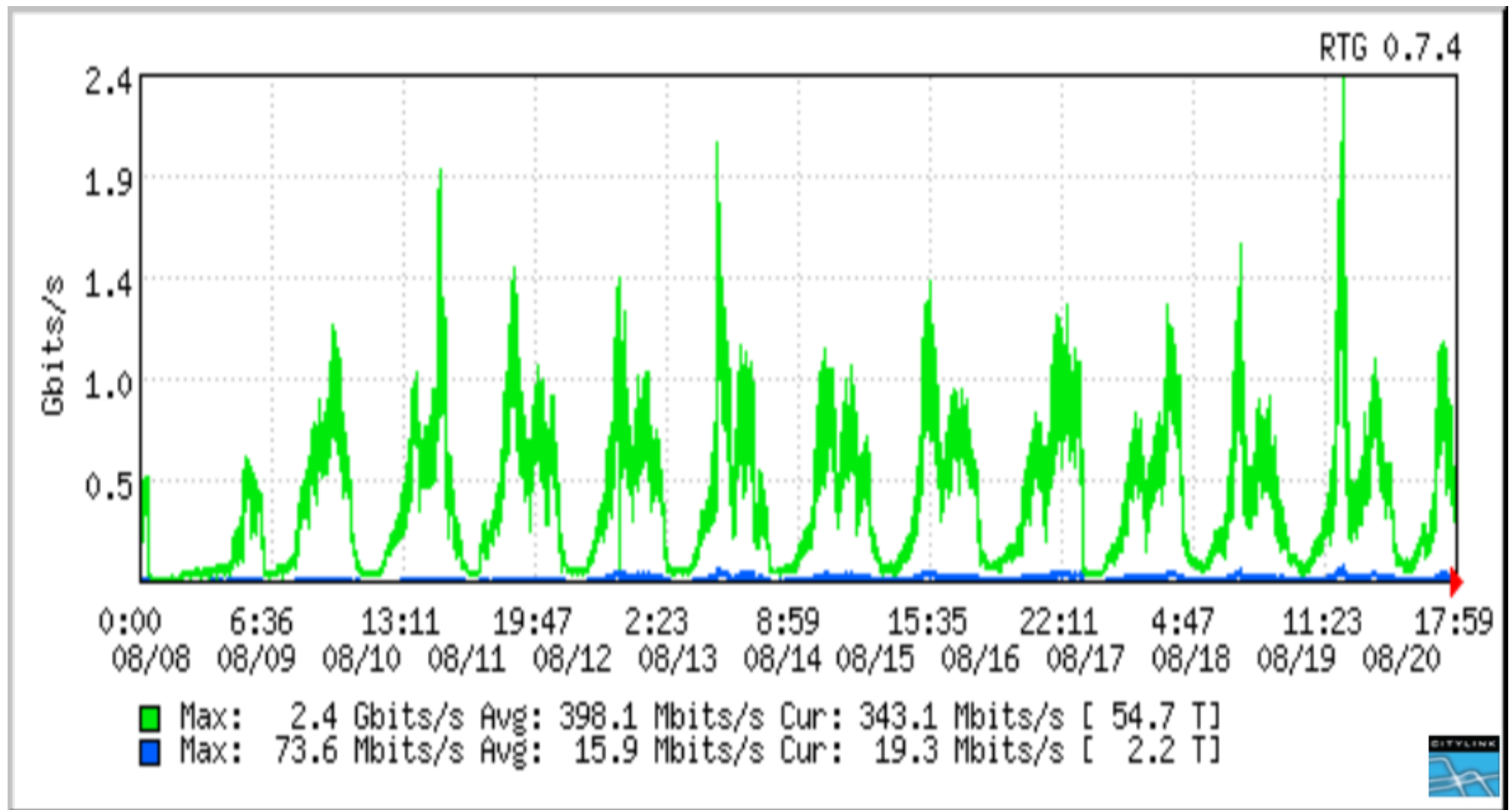
Auckland - APE

Wellington - WIX

Christchurch - CHIX

Using Anycast, GeoIP, Linux load balancing, Windows Server 2008

Daily traffic on Auckland node



Peak load

Olympics peak load was on Tuesday at 3:40pm
(around the time the men's triathlon finished, and
NZ played Germany in the men's hockey):

Akld: 2.4Gb/s

Orcon: 365Mb/s

Wlg: 1.3Gb/s

Chch: 625Mb/s

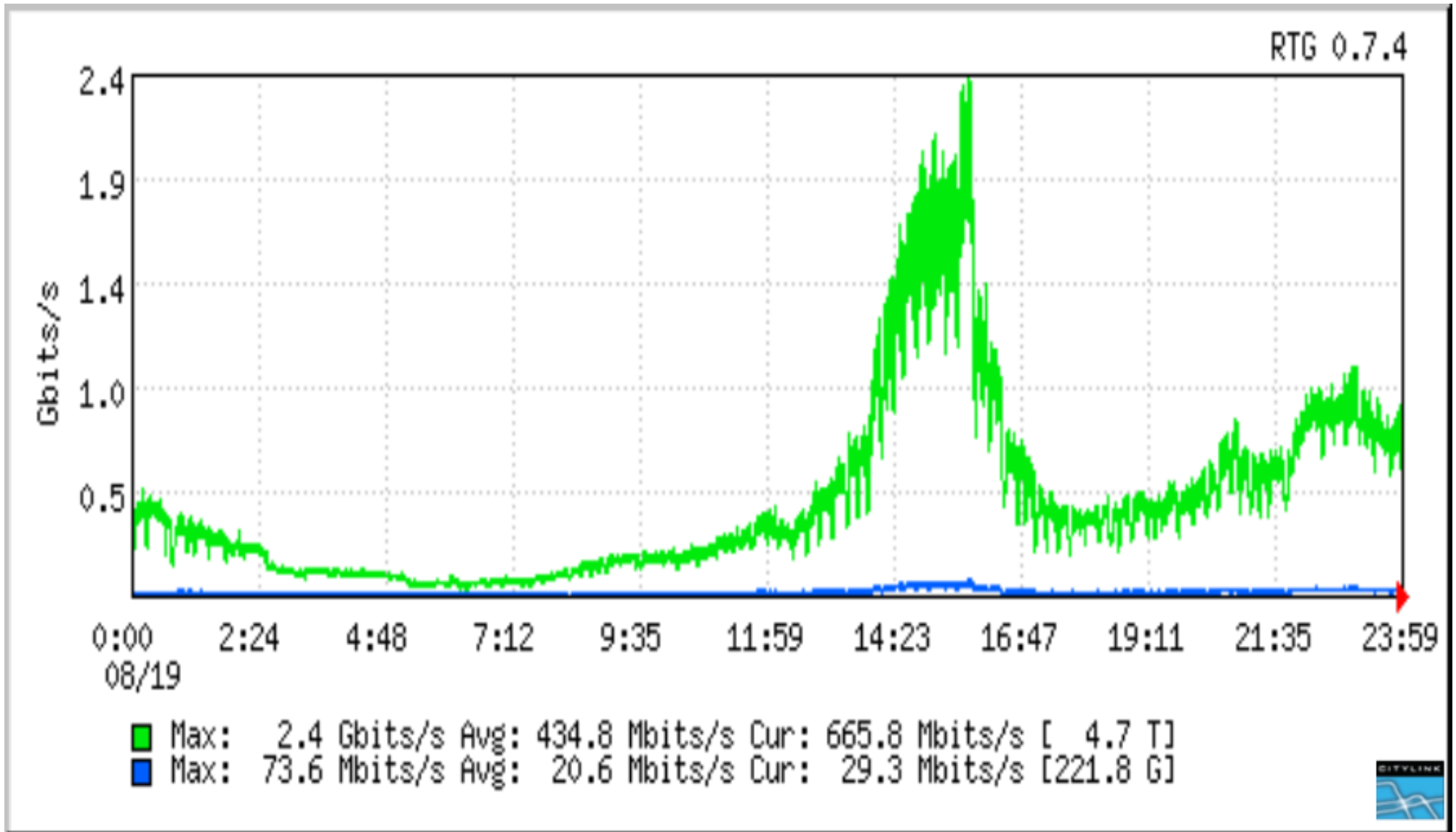
SFO: 510Mb/s

Peak load (contd)

Sums to about 5.2Gb/s, which I'm guessing would be the most traffic moved for a single event on the Internet in NZ.

Daily peaks over the fortnight were 1.5-2Gb/s, with most consumption during business hours (so we didn't get much load on "super saturday")

Peak traffic on Auckland node



Bytes moved

Overall, we've moved

Akld: 54 TB

Orcon: 6.5 TB

Chch: 11 TB

Wlg: 14 TB

SFO: 8 TB

So around 95 TBytes of data moved up until last Friday morning - that's equivalent to almost 5000 20GByte monthly data caps.

Data caps are evil!

We actually engineered deliver 10-15Gb/s, the difference is probably people being scared off from consuming the Olympics content because of their traffic caps.