

# GridPP

UK Computing for Particle Physics

## Recent network issues at Oxford

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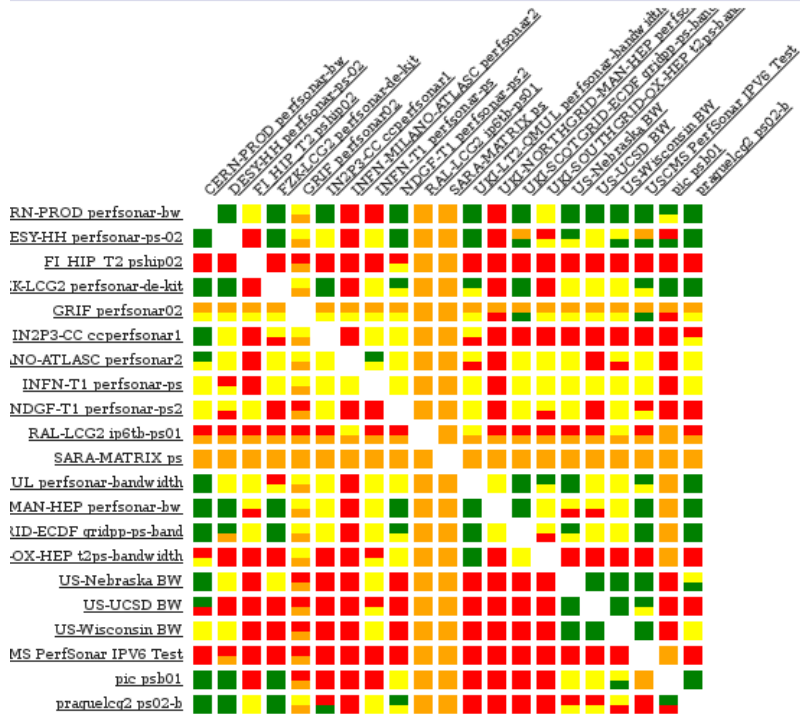
## WLCG/OSG perfSONAR Dashboard

☰ Dashboards ⚙ Settings 📄 WLCG/OSG Networking Resources

### Dual-Stack Mesh Config Dashboard

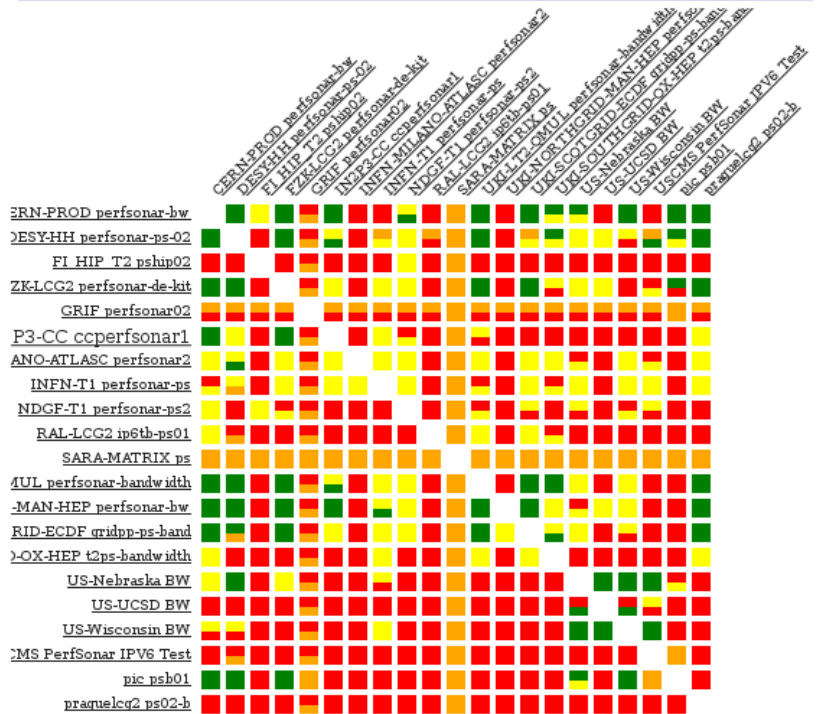
#### Dual-Stack Mesh Config - IPv4 Bandwidth Test

■ Throughput >= 900Mbps 
 ■ Throughput < 900Mbps 
 ■ Throughput <= 500Mbps 
 ■ Unable to retrieve data 
 ■ Check has not yet run



#### Dual-Stack Mesh Config - IPv6 Bandwidth Test

■ Throughput >= 900Mbps 
 ■ Throughput < 900Mbps 
 ■ Throughput <= 500Mbps 
 ■ Unable to retrieve data 
 ■ Check has not yet run



More information on MaDDash available [here](http://maddash.aglt2.org/maddash-webui/index.cgi?dashboard=Dual-Stack%20Mesh%20Config)

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- Oxford grid site (UKI-SOUTHGRID-OX-HEP) have historically had good IPv4 connectivity ( $\sim 5$ Gbps) and poor IPv6 ( $\sim 0.5$  Gbps)
- Their networking has recently been rearranged and they saw a large drop in IPv4 throughput in April together with significant packet loss
- There has been a slight improvement in May, but there are clear ongoing issues
- PerfSONAR plots show these issues clearly
  - showing results from CERN to Oxford

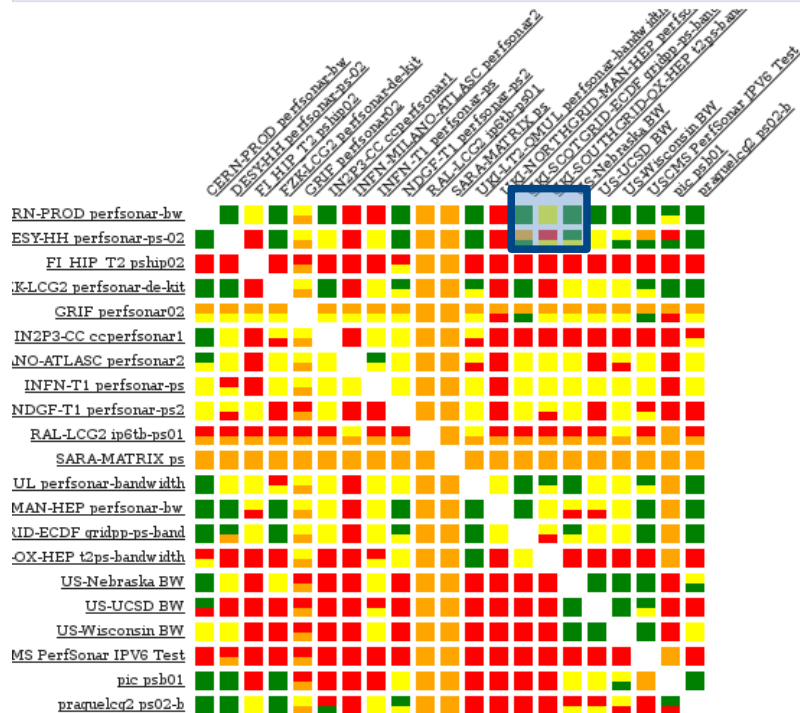
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### Dual-Stack Mesh Config Dashboard

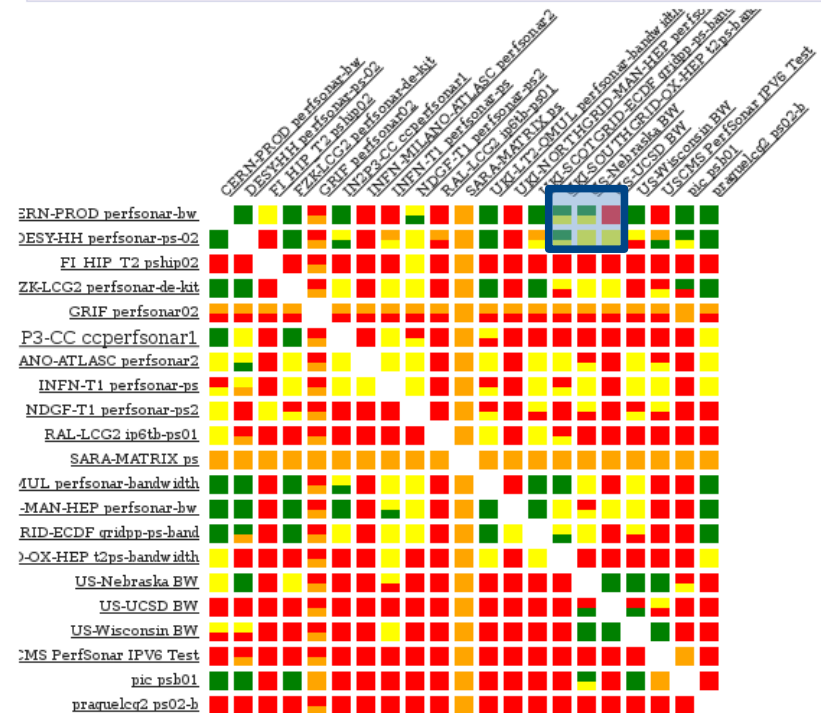
#### Dual-Stack Mesh Config - IPv4 Bandwidth Test

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 ■ Unable to retrieve data 
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#### Dual-Stack Mesh Config - IPv6 Bandwidth Test

■ Throughput >= 900Mbps 
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 ■ Throughput <= 500Mbps 
 ■ Unable to retrieve data 
 ■ Check has not yet run



More information on MaDDash available [here](#)



## WLCG/OSG perfSONAR Dashboard

Dashboards Settings WLCG/OSG Networking Resources

### perfsonar-bw.cern.ch to t2ps-bandwidth.physics.ox.ac.uk (Throughput)

Last page refresh time: Jun

Throughput from perfsonar-bw.cern.ch to t2ps-bandwidth.physics.ox.ac.uk

Status: **WARNING** Last Checked: June 07, 2016 06:59:04 AM BST Next Check: June 07, 2016 08:59:04 AM BST

Summary History Check Details

#### Current Results

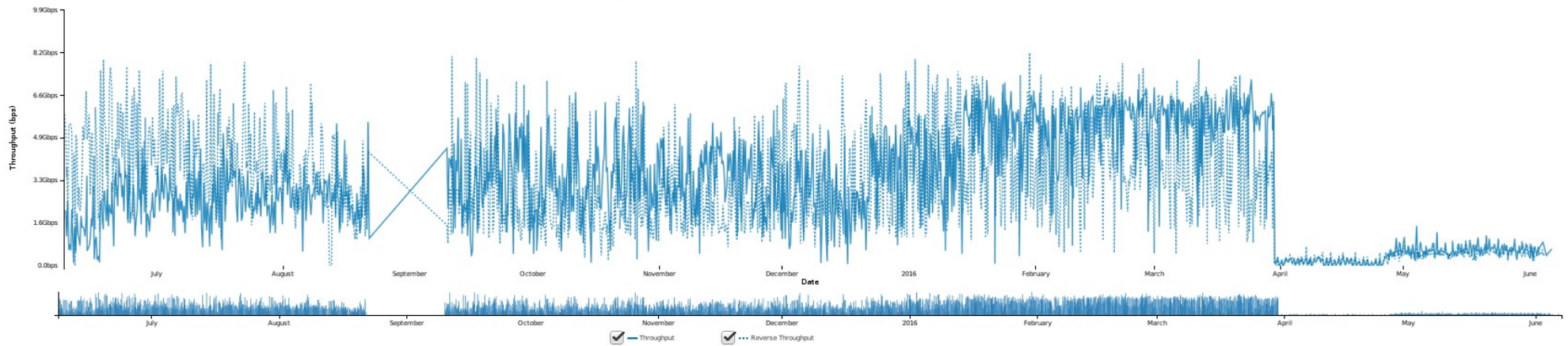
Current Status: **WARNING**  
 Result of last check: **WARNING**  
 Message For Current Status: Average throughput is 0.587Gbps  
 Events:

Name	Description	Start	End	Check Down
No events currently scheduled.				

#### Statistics

#### Graph

Source: perfsonar-bw.cern.ch - 128.142.223.246 Capacity: 100 MTU: 9000  
 Destination: t2ps-bandwidth.physics.ox.ac.uk - 163.1.5.211 (traceroute) Capacity: 100 MTU: 1500  
 Link to this chart  
 Zoom: 1d 3d 1w 1m 1y  
 Previous 1y Mon Jun 8 08:58:11 2015 -- Tue Jun 7 08:58:11 2016



# throughput (Gbps)

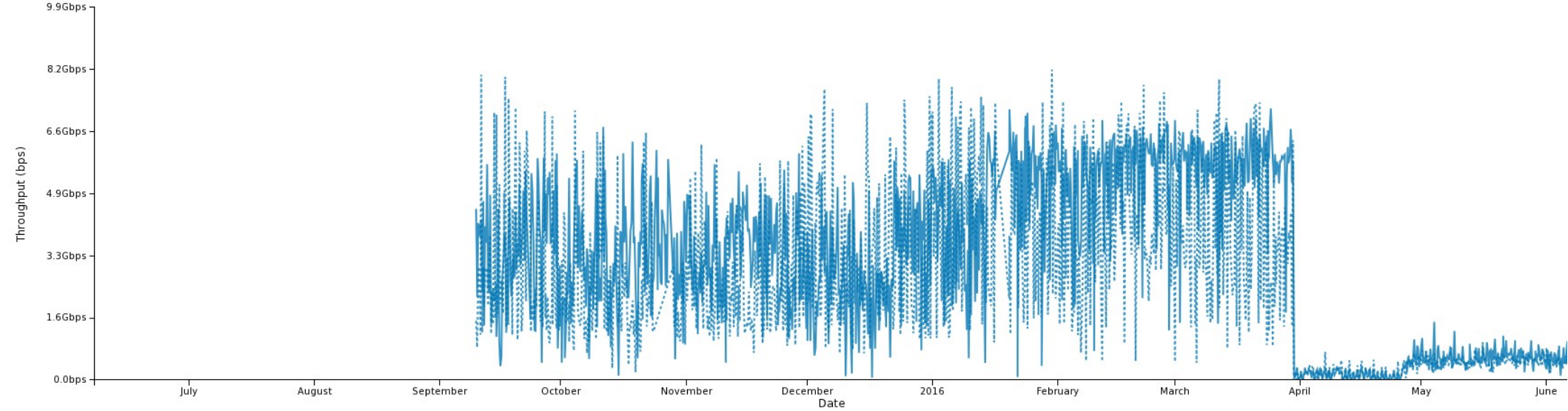
Source  
**perfsnar-bw.cern.ch** -  
128.142.223.246  
Capacity: 10G MTU: 9000

Destination  
**t2ps-bandwidth.physics.ox.ac.uk** -  
163.15.211 [[traceroute](#)]  
Capacity: 10G MTU: 1500

[Link to this chart](#)

[Previous 1y](#)

Zoom: 1d 3d 1w 1m 1y  
Sun Jun 7 15:48:58 2015 -- Mon Jun 6 15:48:58 2016



Source  
**perfsnar-lt.cern.ch** -  
128.142.223.247  
Capacity: 1.0G MTU: 1500

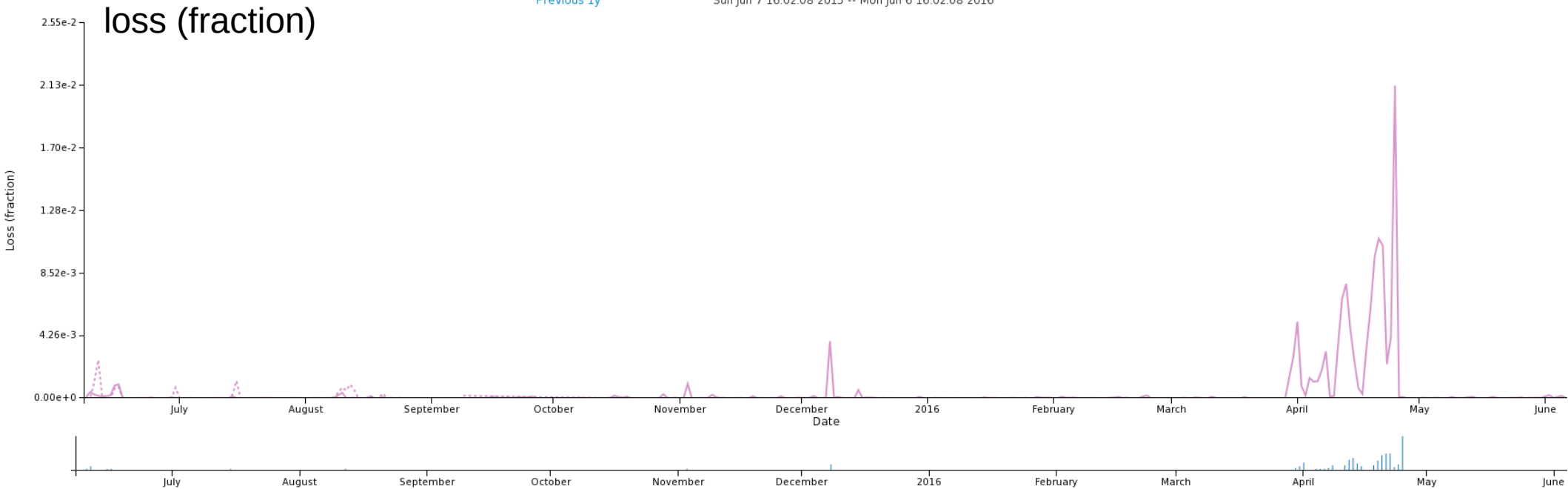
Destination  
**t2ps-latency.physics.ox.ac.uk** -  
163.15.210  
Capacity: 10G MTU: 1500

[Link to this chart](#)

Negative latency values found in the forward direction. Typically, this occurs when one or both hosts' clocks are out of sync, or the hosts are very close together.

[Previous 1y](#)

Zoom: 1d 3d 1w 1m 1y  
Sun Jun 7 16:02:08 2015 -- Mon Jun 6 16:02:08 2016



- The IPv6 traffic also deteriorated in April but has recently improved such that it is now more than IPv4 throughput
- Still only about 1 Gbps
  
- We don't have IPv6 loss plots though?



## throughput (Gbps)

Source: **perfonar-bw.cern.ch** - 2001:1458:301:a7bc:0:0:100:14 Capacity: 10G MTU: 9000  
 Destination: **t2ps-bandwidth.physics.ox.ac.uk** - 2001:630:441:905:0:0:d3 [traceroute] Capacity: 10G MTU: 1500

[Link to this chart](#)

Zoom: 1d 3d 1w 1m 1y  
 Sun Jun 7 15:16:50 2015 -- Mon Jun 6 15:16:50 2016

[Previous 1y](#)

