

GridPP

UK Computing for Particle Physics

Jumbo Frames (MTU=9000) on the WAN

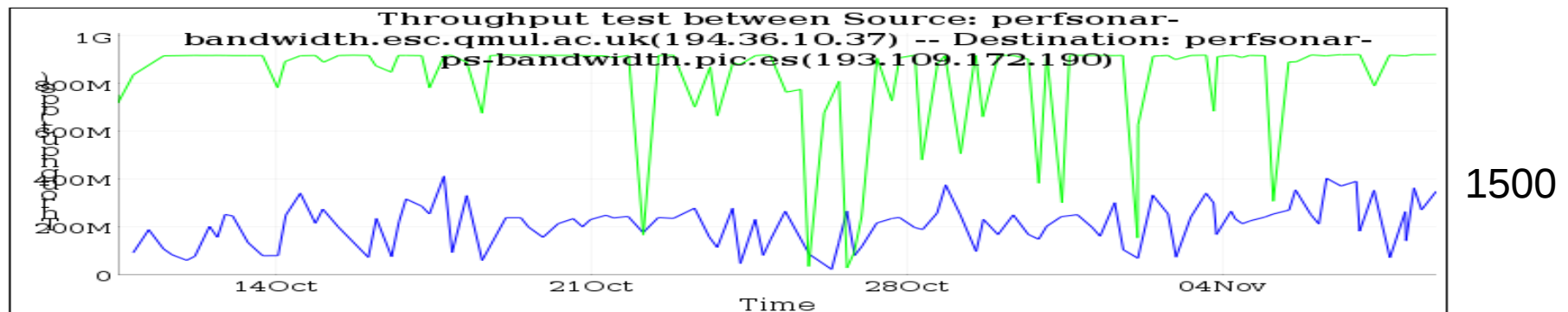
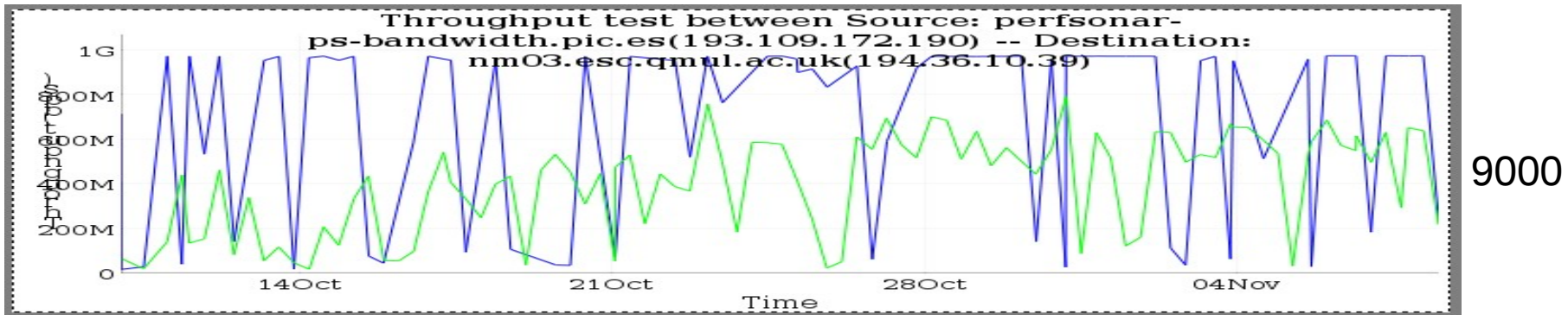
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- Large Packets
 - Maximum Transmission Unit (MTU) >1500
 - Usually MTU=9000
 - MSS=8972
- Why?
 - Fewer packets for same data
 - 6* faster recovery from packet loss
 - Lower CPU load
 - But LRO/TSO
 - LHCONE propose to use it
- Details
 - Fasterdata.es.net

- Tests to PIC at MTU=9000
 - Works well sometimes, but not others
 - See different path on traceroute – is it broken sometimes and not others.



- Potentially faster
- No quick fix
 - Lots of the net is broken
 - Please fix Path MTU discovery
- Read fasterdata.es.net