

Force10 10GigE nuttcp Stress Test (Over 1 Petabyte in 3 days)

S1: porthos (2x800 MHz PowerMac G4) -> clifford (867 MHz PowerMac G4)

S2: underdog (867 MHz PowerMac G4) -> bigdog (2x1 GHz G4 XServe)

All systems running YellowDog Linux with Intel Pro/1000 Server Adapter or NetGear GA620T NIC, and using a 9K Jumbo Frame MTU

```
clifford% nuttcp -u -r -T72h -w2048 -Iporthos2clifford porthos & \  
      nuttcp -u -T72h -w2048 -Iunderdog2bigdog underdog bigdog  
underdog2bigdog: 30687801.2734 MB / 259772.86 sec = 990.9732 Mbps 74 %TX 29 %RX  
                  1950222 / 3929988785 drop/pkt 0.05 %loss  
porthos2clifford: 30695954.5781 MB / 259773.58 sec = 991.2337 Mbps 65 %TX 17 %RX  
                  6056720340 / 9985802526 drop/pkt 60.65 %loss
```

$(30687801.2734 \text{ MB} + 30695954.5781 \text{ MB}) * 10 * 2 / 1024 / 1024 / 1024 = 1.14336 \text{ PB}$

* Over 0.25 PB transferred bidirectionally across each 10GigE link

NASA Goddard
BF/PL 3/21/04