

iperf

client iperf at cern

```
iperf -c 192.108.46.124 -w 8M -i 1 -f m -p 20004 -t 3600 | tee
/afs/cern.ch/user/b/bhoeft/iperf.log/log/iperf_tcp_`hostname`_`date +%m%d.%H.%M` server at GridKa
```

```
[root@l0gtk113 root]# iperf -s -w 8M -f m -i 1 -p 20004
```

results are varying between:

```
[ 3] 49.0-50.0 sec  3.20 MBytes  26.8 Mbits/sec
```

```
[ 3] 50.0-51.0 sec  6.05 MBytes  50.7 Mbits/sec
```

and

```
[ 3] 169.0-170.0 sec  96.5 MBytes   810 Mbits/sec
```

and

```
[ 3] 307.0-308.0 sec  82.4 MBytes   691 Mbits/sec
```

```
[ 3] 308.0-309.0 sec  80.3 MBytes   673 Mbits/sec
```

and

```
[ 4] 3041.0-3042.0 sec   113 MBytes   949 Mbits/sec
```

```
[ 4] 3042.0-3043.0 sec   113 MBytes   949 Mbits/sec
```

average of:

```
[ 6] 0.0-3599.9 sec 114754 MBytes  267 Mbits/sec
```

max 5.22Gbit with 7 nodes

setting tcp window plus buffersize to:

```
sysctl -p sysctl/sysctl_4Mbuf_2Mwin
```

```
for (( i = 0 ; $i < 10 ; i++ )); do globus-url-copy -vb gsiftp://radiantservice.cern.ch/castor/ce
1037172736 bytes      67524.27 KB/sec avg      68800.00 KB/sec inst
 984940544 bytes      32061.87 KB/sec avg      35392.00 KB/sec inst
 778108928 bytes      50658.13 KB/sec avg      52569.60 KB/sec inst
 970915840 bytes      63210.67 KB/sec avg      68416.00 KB/sec inst
 989200384 bytes      64401.07 KB/sec avg      63910.40 KB/sec inst
 990248960 bytes      64469.33 KB/sec avg      63744.00 KB/sec inst
1035272192 bytes      67400.53 KB/sec avg      68672.00 KB/sec inst
 998572032 bytes      65011.20 KB/sec avg      65395.20 KB/sec inst
 917635072 bytes      59741.87 KB/sec avg      61158.40 KB/sec inst
1004273664 bytes      65382.40 KB/sec avg      64076.80 KB/sec inst
```

ten times filetransfer --> all pretty close to the max rate

two transfers in parallel:

```
[oplapro80] /afs/cern.ch/user/b/bhoeft/.globus > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-c
1011613696 bytes      65860.27 KB/sec avg      65356.80 KB/sec inst
 969932800 bytes      37888.00 KB/sec avg      54003.20 KB/sec inst
1030356992 bytes      67080.53 KB/sec avg      68505.60 KB/sec inst
 904069120 bytes      58858.67 KB/sec avg      57574.40 KB/sec inst
 928120832 bytes      60424.54 KB/sec avg      59200.00 KB/sec inst
 941490176 bytes      61294.93 KB/sec avg      61772.80 KB/sec inst
1006698496 bytes      62618.09 KB/sec avg      55096.14 KB/sec inst
 915603456 bytes      59609.60 KB/sec avg      59776.00 KB/sec inst
 853737472 bytes      55581.87 KB/sec avg      53184.00 KB/sec inst
 760676352 bytes      74284.80 KB/sec avg      76800.00 KB/sec inst
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-copy -vb
 924319744 bytes      60177.07 KB/sec avg      60915.20 KB/sec inst
 831520768 bytes      54135.46 KB/sec avg      55398.40 KB/sec inst
 897187840 bytes      58410.67 KB/sec avg      61632.00 KB/sec inst
 962527232 bytes      26856.23 KB/sec avg      24166.40 KB/sec inst
 753532928 bytes      49058.13 KB/sec avg      48179.20 KB/sec inst
 839909376 bytes      54681.60 KB/sec avg      54515.20 KB/sec inst
 946405376 bytes      46211.20 KB/sec avg      42393.60 KB/sec inst
```

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1013972992 bytes	24755.20 KB/sec avg	21632.00 KB/sec inst
702087168 bytes	68563.20 KB/sec avg	70604.80 KB/sec inst
994246656 bytes	64729.60 KB/sec avg	70963.20 KB/sec inst

three transfers in parallel to gpfs:

```
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-copy -vb
 694157312 bytes      67788.80 KB/sec avg      69836.80 KB/sec inst
1029308416 bytes      50259.20 KB/sec avg      58880.00 KB/sec inst
 927268864 bytes      36221.44 KB/sec avg      41228.80 KB/sec inst
 905052160 bytes      35353.60 KB/sec avg      32371.20 KB/sec inst
 871170048 bytes      42537.60 KB/sec avg      25960.00 KB/sec inst
1032650752 bytes      40337.92 KB/sec avg      44032.00 KB/sec inst
 900005888 bytes      34877.46 KB/sec avg      37070.77 KB/sec inst
 958201856 bytes      46323.96 KB/sec avg      48678.40 KB/sec inst
1002635264 bytes      48956.80 KB/sec avg      58854.40 KB/sec inst
 782761984 bytes      50961.07 KB/sec avg      54771.20 KB/sec inst
```

```
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-copy -vb
 953810944 bytes      62097.07 KB/sec avg      63244.80 KB/sec inst
1040908288 bytes      50825.60 KB/sec avg      54118.40 KB/sec inst
 973471744 bytes      37724.45 KB/sec avg      34276.93 KB/sec inst
 965607424 bytes      37419.68 KB/sec avg      33033.85 KB/sec inst
1016135680 bytes      39692.80 KB/sec avg      36571.43 KB/sec inst
1013710848 bytes      39598.08 KB/sec avg      46438.40 KB/sec inst
 893845504 bytes      34915.84 KB/sec avg      33433.60 KB/sec inst
 982515712 bytes      31982.93 KB/sec avg      31846.40 KB/sec inst
 907280384 bytes      17720.32 KB/sec avg      24627.20 KB/sec inst
1033043968 bytes      67255.47 KB/sec avg      65433.60 KB/sec inst
```

```
[oplapro80] /afs/cern.ch/user/b/bhoeft/.globus > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-copy -vb
1003094016 bytes      32652.80 KB/sec avg      21939.20 KB/sec inst
 972619776 bytes      47491.20 KB/sec avg      19904.00 KB/sec inst
1024524288 bytes      28586.06 KB/sec avg      20134.40 KB/sec inst
 942669824 bytes      23014.40 KB/sec avg      22347.76 KB/sec inst
 995819520 bytes      24312.00 KB/sec avg      25100.80 KB/sec inst
1021313024 bytes      24934.40 KB/sec avg      32960.00 KB/sec inst
 795934720 bytes      51818.67 KB/sec avg      56268.80 KB/sec inst
 819003392 bytes      31992.32 KB/sec avg      41484.80 KB/sec inst
1012465664 bytes      65915.73 KB/sec avg      65433.60 KB/sec inst
 916914176 bytes      22385.60 KB/sec avg      40396.80 KB/sec inst
```

four parallel transfers to gpfs:

```
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-copy -vb
1010892800 bytes      49360.00 KB/sec avg      50035.20 KB/sec inst
1007222784 bytes      32787.20 KB/sec avg      26982.40 KB/sec inst
 977076224 bytes      27262.17 KB/sec avg      30840.00 KB/sec inst
 978124800 bytes      38055.78 KB/sec avg      44569.60 KB/sec inst
 838598656 bytes      54596.27 KB/sec avg      52428.80 KB/sec inst
 929955840 bytes      36326.40 KB/sec avg      23731.20 KB/sec inst
 963444736 bytes      47043.20 KB/sec avg      44236.80 KB/sec inst
 951123968 bytes      30961.07 KB/sec avg      54795.29 KB/sec inst
 947781632 bytes      23139.20 KB/sec avg      18713.60 KB/sec inst
 809828352 bytes      39345.67 KB/sec avg      35049.41 KB/sec inst
```

```
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-copy -vb
 811270144 bytes      52817.07 KB/sec avg      48716.80 KB/sec inst
 996016128 bytes      32207.68 KB/sec avg      27138.46 KB/sec inst
 887685120 bytes      28800.00 KB/sec avg      31846.40 KB/sec inst
1042677760 bytes      10707.04 KB/sec avg       9675.29 KB/sec inst
 962658304 bytes      37603.84 KB/sec avg      28212.24 KB/sec inst
 950599680 bytes      30944.00 KB/sec avg      38400.00 KB/sec inst
1001324544 bytes      13969.37 KB/sec avg       8281.60 KB/sec inst
1047592960 bytes      51152.00 KB/sec avg      64256.00 KB/sec inst
 799801344 bytes      31242.24 KB/sec avg      26304.00 KB/sec inst
 936902656 bytes      30498.13 KB/sec avg      28352.00 KB/sec inst
```

```
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 10 ; $i < 20 ; i++ )); do globus-url-copy -vb
1031995392 bytes      33371.12 KB/sec avg      35052.31 KB/sec inst
1032912896 bytes      16811.73 KB/sec avg      16179.20 KB/sec inst
1005060096 bytes      28042.97 KB/sec avg      43238.40 KB/sec inst
 963444736 bytes      47043.20 KB/sec avg      34995.20 KB/sec inst
```

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987824128 bytes      32155.73 KB/sec avg      24908.80 KB/sec inst
977338368 bytes      18899.64 KB/sec avg      13587.69 KB/sec inst
942735360 bytes      20458.67 KB/sec avg      22040.00 KB/sec inst
890372096 bytes      34780.16 KB/sec avg      49420.80 KB/sec inst
1038417920 bytes     10674.53 KB/sec avg      17766.40 KB/sec inst
981336064 bytes      38333.44 KB/sec avg      36236.80 KB/sec inst
[oplapro80] /afs/cern.ch/user/b/bhoeft/.globus > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-c
1038811136 bytes     28984.69 KB/sec avg      13235.20 KB/sec inst
1003880448 bytes     19607.04 KB/sec avg      25978.78 KB/sec inst
1046151168 bytes     20432.64 KB/sec avg      33203.20 KB/sec inst
944898048 bytes      36617.14 KB/sec avg      31187.69 KB/sec inst
1041170432 bytes     22594.84 KB/sec avg      15334.40 KB/sec inst
945881088 bytes      20526.93 KB/sec avg      19059.20 KB/sec inst
1031340032 bytes     28776.23 KB/sec avg      38988.80 KB/sec inst
877395968 bytes      42841.60 KB/sec avg      29580.80 KB/sec inst
989921280 bytes      27620.57 KB/sec avg      16927.35 KB/sec inst
1043660800 bytes     20384.00 KB/sec avg      27059.20 KB/sec inst

6 parallele transfers (four to gpfs and two to hd)
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-copy -vb
981336064 bytes      31944.53 KB/sec avg      32089.60 KB/sec inst
1025966080 bytes     33397.33 KB/sec avg      41075.20 KB/sec inst
988872704 bytes      24142.40 KB/sec avg      23314.29 KB/sec inst
1016397824 bytes     39703.04 KB/sec avg      41652.24 KB/sec inst
911015936 bytes      25418.97 KB/sec avg      38668.80 KB/sec inst
995491840 bytes      32405.33 KB/sec avg      43891.20 KB/sec inst
1025507328 bytes     33382.40 KB/sec avg      39001.60 KB/sec inst
886112256 bytes      28748.97 KB/sec avg      35237.65 KB/sec inst
992804864 bytes      27701.03 KB/sec avg      30592.00 KB/sec inst
883490816 bytes      34373.86 KB/sec avg      44034.51 KB/sec inst
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-copy -vb
985595904 bytes      38499.84 KB/sec avg      38387.20 KB/sec inst
910884864 bytes      35439.68 KB/sec avg      39262.04 KB/sec inst
998506496 bytes      27860.12 KB/sec avg      36236.80 KB/sec inst
1032978432 bytes     33513.89 KB/sec avg      28034.51 KB/sec inst
924385280 bytes      36108.80 KB/sec avg      26278.40 KB/sec inst
973930496 bytes      38044.16 KB/sec avg      31027.20 KB/sec inst
887226368 bytes      34519.20 KB/sec avg      32652.55 KB/sec inst
1027866624 bytes     28679.31 KB/sec avg      23232.00 KB/sec inst
978911232 bytes      31865.60 KB/sec avg      30054.40 KB/sec inst
965476352 bytes      31220.13 KB/sec avg      39076.92 KB/sec inst
[oplapro80] /afs/cern.ch/user/b/bhoeft/.globus > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-c
836370432 bytes      54451.20 KB/sec avg      34150.40 KB/sec inst
983236608 bytes      32006.40 KB/sec avg      19788.80 KB/sec inst
1018232832 bytes     18079.42 KB/sec avg      19675.90 KB/sec inst
911278080 bytes      25353.85 KB/sec avg      22199.21 KB/sec inst
962658304 bytes      18801.92 KB/sec avg      22327.27 KB/sec inst
1027670016 bytes     18246.98 KB/sec avg      19456.00 KB/sec inst
1011351552 bytes     17957.24 KB/sec avg      14656.00 KB/sec inst
1026621440 bytes     25064.00 KB/sec avg      22987.75 KB/sec inst
766115840 bytes      37408.00 KB/sec avg      61632.00 KB/sec inst
888209408 bytes      43369.60 KB/sec avg      48332.80 KB/sec inst
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 10 ; $i < 20 ; i++ )); do globus-url-copy -vb
980484096 bytes      27201.82 KB/sec avg      19552.65 KB/sec inst
1015283712 bytes     17994.34 KB/sec avg      21734.90 KB/sec inst
1014038528 bytes     10423.92 KB/sec avg      16748.94 KB/sec inst
981204992 bytes      11977.60 KB/sec avg      12106.67 KB/sec inst
971636736 bytes      18939.40 KB/sec avg      28498.82 KB/sec inst
951844864 bytes      26558.17 KB/sec avg      32499.20 KB/sec inst
1025900544 bytes     49596.83 KB/sec avg      42793.85 KB/sec inst
805502976 bytes      52441.60 KB/sec avg      53772.80 KB/sec inst
1012596736 bytes     39554.56 KB/sec avg      45081.60 KB/sec inst
976158720 bytes      23832.00 KB/sec avg      38489.60 KB/sec inst
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 10 ; $i < 20 ; i++ )); do globus-url-copy -vb
1041039360 bytes     25352.62 KB/sec avg      13301.96 KB/sec inst
1005125632 bytes     27964.90 KB/sec avg      15680.00 KB/sec inst
996343808 bytes      27799.77 KB/sec avg      13954.78 KB/sec inst

```

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998113280 bytes      27612.46 KB/sec avg      13640.00 KB/sec inst
1045233664 bytes     25518.40 KB/sec avg      22707.20 KB/sec inst
987693056 bytes     27479.89 KB/sec avg      13712.34 KB/sec inst
989921280 bytes     27620.57 KB/sec avg      14264.89 KB/sec inst
1047199744 bytes     22725.69 KB/sec avg      14915.92 KB/sec inst
1032323072 bytes     24709.02 KB/sec avg      12285.71 KB/sec inst

```

Cancelling copy...

```
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 10 ; $i < 20 ; i++ )); do globus-url-copy -vb
```

```

981925888 bytes     27397.49 KB/sec avg      14763.64 KB/sec inst
988151808 bytes     27259.66 KB/sec avg      13747.69 KB/sec inst
1047724032 bytes     25451.94 KB/sec avg      12173.62 KB/sec inst
996671488 bytes     27417.24 KB/sec avg      12823.27 KB/sec inst
1043660800 bytes     29120.00 KB/sec avg      15725.71 KB/sec inst
1014562816 bytes     24769.60 KB/sec avg      10880.00 KB/sec inst
992346112 bytes     27298.25 KB/sec avg      12582.13 KB/sec inst

```

Cancelling copy...

6 parallele transfers with 4 threads each:

```
[oplapro80] /afs/cern.ch/user/b/bhoeft/.globus > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-copy -vb
```

```

986447872 bytes     47926.77 KB/sec avg      42099.20 KB/sec inst
999292928 bytes     38572.02 KB/sec avg      34498.46 KB/sec inst
1012006912 bytes     32942.93 KB/sec avg      30850.61 KB/sec inst
1021444096 bytes     39900.16 KB/sec avg      32600.82 KB/sec inst
1020657664 bytes     33224.54 KB/sec avg      35392.00 KB/sec inst
999620608 bytes     21693.16 KB/sec avg      21363.20 KB/sec inst
846004224 bytes     33047.04 KB/sec avg      52019.20 KB/sec inst
1015349248 bytes     28330.06 KB/sec avg      15731.20 KB/sec inst
974454784 bytes     38064.64 KB/sec avg      35123.20 KB/sec inst
1029767168 bytes     25078.11 KB/sec avg      17844.71 KB/sec inst

```

```
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 10 ; $i < 20 ; i++ )); do globus-url-copy -vb
```

```

863436800 bytes     33728.00 KB/sec avg      45004.80 KB/sec inst
935591936 bytes     34872.67 KB/sec avg      31721.29 KB/sec inst
888733696 bytes     28930.13 KB/sec avg      14425.60 KB/sec inst
999817216 bytes     24348.73 KB/sec avg      26917.65 KB/sec inst
980221952 bytes     31696.95 KB/sec avg      41070.77 KB/sec inst
1030225920 bytes     33536.00 KB/sec avg      20928.00 KB/sec inst
902496256 bytes     34698.58 KB/sec avg      25684.53 KB/sec inst
1015545856 bytes     13223.25 KB/sec avg       7833.60 KB/sec inst
1021837312 bytes     24947.20 KB/sec avg      28473.47 KB/sec inst
879034368 bytes     42921.60 KB/sec avg      60249.60 KB/sec inst

```

```
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-copy -vb
```

```

1018298368 bytes     39777.28 KB/sec avg      48267.91 KB/sec inst
990969856 bytes     16102.23 KB/sec avg      26842.35 KB/sec inst
1000144896 bytes     19534.08 KB/sec avg      10419.20 KB/sec inst
973012992 bytes     29787.08 KB/sec avg      17196.52 KB/sec inst
1048379392 bytes     24729.66 KB/sec avg      17920.00 KB/sec inst
1024917504 bytes     22242.13 KB/sec avg      23564.80 KB/sec inst
982319104 bytes     27408.46 KB/sec avg      37953.49 KB/sec inst
929234944 bytes     30248.53 KB/sec avg      45068.80 KB/sec inst
1003552768 bytes     17818.76 KB/sec avg      23219.20 KB/sec inst
960823296 bytes     62553.60 KB/sec avg      57024.00 KB/sec inst

```

```
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 0 ; $i < 10 ; i++ )); do globus-url-copy -vb
```

```

862650368 bytes     33697.28 KB/sec avg      35814.40 KB/sec inst
1015808000 bytes     21946.90 KB/sec avg      25932.31 KB/sec inst
974520320 bytes     19033.60 KB/sec avg      20556.80 KB/sec inst
992673792 bytes     24235.20 KB/sec avg      21120.00 KB/sec inst
1013841920 bytes     19762.08 KB/sec avg      19476.08 KB/sec inst
1038090240 bytes     17539.10 KB/sec avg      10555.84 KB/sec inst
999882752 bytes     16274.13 KB/sec avg      18739.20 KB/sec inst
1011810304 bytes     24702.40 KB/sec avg      25926.53 KB/sec inst
917045248 bytes     35822.08 KB/sec avg      48000.00 KB/sec inst
1029308416 bytes     50259.20 KB/sec avg      52403.20 KB/sec inst

```

```
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 10 ; $i < 20 ; i++ )); do globus-url-copy -vb
```

```

1003225088 bytes     27991.77 KB/sec avg      13899.13 KB/sec inst
993394688 bytes     27717.49 KB/sec avg      14208.00 KB/sec inst
1003618304 bytes     27608.34 KB/sec avg      14092.55 KB/sec inst

```

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1001259008 bytes	27621.24 KB/sec avg	13846.15 KB/sec inst
990380032 bytes	27398.53 KB/sec avg	12838.40 KB/sec inst
990380032 bytes	27398.53 KB/sec avg	13426.67 KB/sec inst
994967552 bytes	27603.64 KB/sec avg	14280.00 KB/sec inst

```
[oplapro80] /afs/cern.ch/user/b/bhoeft > for (( i = 10 ; $i < 20 ; i++ )); do globus-url-copy -vb
```

1040252928 bytes	22574.93 KB/sec avg	10214.40 KB/sec inst
1044905984 bytes	25195.46 KB/sec avg	12928.00 KB/sec inst
1036058624 bytes	25294.40 KB/sec avg	10743.83 KB/sec inst
1041629184 bytes	24931.77 KB/sec avg	13546.67 KB/sec inst
1028718592 bytes	24990.25 KB/sec avg	11448.89 KB/sec inst
1018757120 bytes	27946.07 KB/sec avg	14400.00 KB/sec inst

-- JamesCasey - 16 Jun 2005

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