

# Throughput tests : status report

- Wiki pages :
  - LCG-France Test T1-T2T3  
[http://lcg2.in2p3.fr/wiki/index.php/T2T3:2006Q2:Tests\\_T1-T2T3](http://lcg2.in2p3.fr/wiki/index.php/T2T3:2006Q2:Tests_T1-T2T3)
  - LCG-France Test T1-T2T3 logbook  
[http://lcg2.in2p3.fr/wiki/index.php/T2T3:2006Q2:Tests\\_T1-T2T3:Logbook](http://lcg2.in2p3.fr/wiki/index.php/T2T3:2006Q2:Tests_T1-T2T3:Logbook)
- Phase 1 : throughput validation tests (L. Caillat)
  - conditions : 17/05/06 – 21/06/06
- Phase 2 : throughput tests with FTS (D. Bouvet – L. Schwarz)
  - conditions : since 29/06/06
    - ◆ transfers done with Lyon FTS cclcgftsli01.in2p3.fr
    - ◆ tuning of number of concurrent files and streams
    - ◆ file size : 1GB
    - ◆ VO : dteam
  - objectif : 30 à 50 MB/s

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- Phase 1 : sites involved :
  - GRIF-DAPNIA, GRIF-LAL, GRIF-LPNHE, LPC, LAPP, SUBATECH, TOKYO
  - results : see slides from F. Chollet
- Phase 2 : results for 100 files transferred

Sites	FTS parameters (files/streams )	T1 → T2 (Mb/s)		Globus T1 → T2 (Mb/s)	T2 → T1 (Mb/s)	
		mean	max.		mean	max.
GRIF-DAPNIA						
GRIF-LAL	10/10	170	230	68	230	660
GRIF-LPNHE						
LPC	10/10	270	312	80	265	430
LAPP	10/10	352	352	68		
SUBATECH	10/10	11	11			
TOKYO	15/10	171	193	9		



# Throughput tests : action and follow-up

- interesting thread on [service-challenge-tech@cern.ch](mailto:service-challenge-tech@cern.ch) (Maarten Litmaath)
  - transfers CERN-> RAL limited at 250 KB/s  
⇒ observed during transfers Lyon→SUBATECH this morning
  - work-around :  
Here is a work-around to get normal performance (tested):

```
-----  
--- /etc/init.d/castor-gridftp.orig 2006-04-05 11:21:04.000000000 +0200  
+++ /etc/init.d/castor-gridftp 2006-07-11 13:05:22.000000000 +0200  
@@ -112,6 +112,7 @@  
    fi  
    echo -n "Starting $prog:"  
    if test "x$user" = "x" ; then  
+    export RFIO_TCP_NODELAY=1  
    daemon "$ftpd $options"  
    else  
    daemon "--user $user $ftpd -Q -W $options"  
-----
```

Thanks to Jean-Philippe Baud and David Smith.

- **to be tested this afternoon with SUBATECH?**

