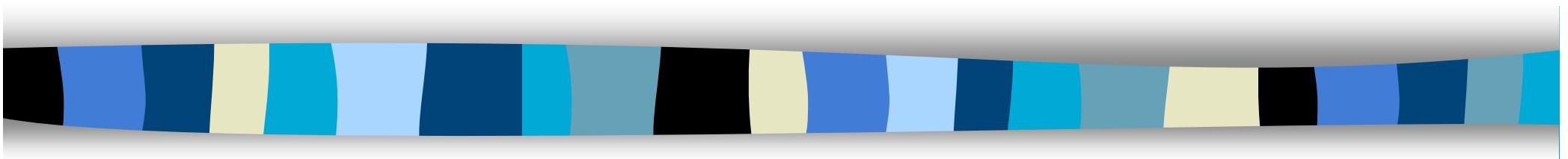




All about TSTG Testing Suites



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Agenda



- Detailed description of the available suites
 - the current set
 - the contents of each test
 - the options
- Discussion
 - feedback
 - comments
 - suggestions
 - needs
 - requests
 - improvements



Credits



- The Testing Suites have been contributed by:
 - Miquel Barcelo
 - Frédérique Chollet
 - Gilbert Grosdidier
 - Andrey Kiryanov
 - Charles Loomis
 - Gonzalo Merino
 - René Météry
 - Danila Oleynik
 - Andrea Sciabà
 - Elena Slabospitskaya
- Many other people have been contributing to the design and ideas leading to the current suites



The different kinds of Tests [v0.1.3]



- Watch out: several test names are currently far from meaningful
- **CEGate**: Globus Gatekeeper Unit Testing (CEs)
 - 10 tests achieved on each node
- **CECycle**: submit jobs to specific CEs systematically
- **UI_ST**: UI functionality tests for SiteTesting
- **FTP**: GridFTP functionality tests (RB, CEs, SEs)
- **DNS**: reverse DNS Tests (RB, CEs, SEs, MDS, PX)
- **RB**: Functionality tests for RB (Unit testing)
 - it's a suite of 6 small jobs submitted through JDL files
- **SEwsCycle**: Checkup of SE setup (SEs) - does not work yet
- **RMCycle**: Checkup of RM setup (SEs, RM)



The different kinds of Tests (2)



- The different kind of **Storms** (All components, Global & Stress testing):
 - **JStorm:** Job Storm
 - Simple jobs with InpOut sandbox transfers, and check of output contents
 - batchSleep option available
 - **CStorm:** Copy Storm
 - Achieves GridFTP transfers from UI, and checks availability from jobs submitted to RB
 - **RStorm:** Replica Storm
 - Broadcasts files thru RM running on UI, and checks availability from jobs on WNs
 - **KStorm:** Checksum Storm
 - Achieves big file sandbox transfers, with both end checksums
 - **DStorm:** Data Storm
 - Replica file transfers from the WNs, and check of output contents
 - **UStorm:** User Storm
 - Jobs where the user may provide his own JDL xor Script files



The different kinds of Tests (3)



- **MDS**: Consistency tests for MDS + BDII (2 tests in serie)
- **MM**: MatchMaking Test for RB
 - exercising either of file/gridftp/rfio protocols
- **RLS**: Basic functionality Test for RMC/LRC/RLS
- **SEs**: GridFTPUMask checks for SEs (should be merged with ?)

- Deprecated:
- **ProXyf**: Security Test for RB (stealing proxies - better if failing)



The different Options provided



- . MainScript --TList="test"
 - test = CEGate CECycle FTP DNS RB SEwsCycle RMCycle
 - also: MDS RLS MM UI_ST
 - and storms: JStorm CStorm RStorm KStorm DStorm UStorm
- . "MainScript --List" :
 - Prints the List of available Tests.
- . "MainScript --help" :
 - Prints this README file, plus the full option List.
- . "MainScript --MDebug" :
 - Prints some Variable values from inside the MainScript.
- . "MainScript --TList="test" --fullHelp" :
 - To Force printing of a detailed Help about the selected Tests.
- . "MainScript --TList="test" --showME" :
 - To Force printing of option values and machine names for the selected Tests.



The different Options provided (2)



- . MainScript --TList="test" --**forcingTB**= "yourTB"
 - To Force a TB other than "CertTB". This option is mandatory.
- . MainScript --TList="test" --**addOptionList**="--opt1=val1 --opt2=val2 ..."
 - To Provide a list of additionnal Options to the Tests to be achieved.
- . MainScript --TList="test" --**forceMachineList**= "node1 node2"
 - To Provide a list of Machines to be used in the tests, overriding the default
- . MainScript --TList="test" --**addMachineList**= "node1 node2 ..."
 - To Provide a list of Machines to be used in the tests, adding them to the default ones
- . MainScript --TList="test" --**forcingVO**= "otherVO"
 - To Force a VO other than "dteam". Useful in a many tests now.

- Combining **showME** option with the above ones could be smart to figure out their actual action
- All above options can be used together
- Their usefulness is NOT guaranteed for all tests



Detailed examples, and other links



- A detailed example of a recent Result Web page, produced on the CertTB (23/10/03, morning) is available in the LCG/TSTG area:
 - http://grid-deployment.web.cern.ch/grid-deployment/tstg/examples/031023-000042_TSTG_Lecture
- The relevant full output file (showing the running log, useful when trying to spot failures) is available in the same area:
 - http://grid-deployment.web.cern.ch/grid-deployment/tstg/examples/LogFile_TSTG_Lecture
- A detailed Install help is also available here:
 - <http://grid-deployment.web.cern.ch/grid-deployment/tstg/docs/LCG-Certification-help>