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Single script method

***dirac-lhcb-production-check-files* jobID [jobID]**

```
dirac-lhcb-production-check-files 37833
/lhcb/MC/DC06/DST/00003017/0000/00003017_00002344_5.dst 1 rfio://clhcbstager.ads.rl.ac.uk:9002?sv
/lhcb/MC/DC06/DST/00003017/0000/00003017_00002305_5.dst 1 rfio://clhcbstager.ads.rl.ac.uk:9002?sv
/lhcb/MC/DC06/DST/00003017/0000/00003017_00003257_5.dst 1 rfio://clhcbstager.ads.rl.ac.uk:9002?sv
/lhcb/MC/DC06/DST/00003017/0000/00003017_00002280_5.dst 1 rfio://clhcbstager.ads.rl.ac.uk:9002?sv
/lhcb/MC/DC06/DST/00003017/0000/00003017_00001113_5.dst 1 rfio://clhcbstager.ads.rl.ac.uk:9002?sv
```

The output gives the LFN, the cached state (1=cached/staged, 0=not cached) and the TURL (Transfer URL).
If a problem occurs with a file, the list of problematic files will be printed at the end. You can use the `-o LogLevel=ALWAYS` option to suppress any debugging output.

Step-by-step method

* Get the input file of the job (actually this is the lfn name of the file) e.g. JobId = 37833

dirac-lhcb-production-job-lfn 37833

```
$ dirac-lhcb-production-job-lfn 37833
2008-09-18 13:49:20 UTC dirac-lhcb-production-job-lfn/DiracAPI INFO: Files retrieved and extracted
OutputLFN: ['/lhcb/MC/DC06/FETC/00003030/0000/00003030_00004539_1.root', '/lhcb/MC/DC06/DST/00003030_00004539_1.root']
InputLFN: ['/lhcb/production/DC06/phys-v4-lumi5/00001897/RDST/0000/00001897_00002575_1.rdst']
```

* Get in which SE is the replica of the file and what is the pfn associated

dirac-dms-lfn-replicas

/lhcb/production/DC06/phys-v4-lumi5/00001897/RDST/0000/00001897_00002575_1.rdst

```
dirac-dms-lfn-replicas /lhcb/production/DC06/phys-v4-lumi5/00001897/RDST/0000/00001897_00002575_1
2008-09-18 13:50:17 UTC dirac-dms-lfn-replicas/DiracAPI INFO: Replica Lookup Time: 0.44 seconds
{'Failed': {},
 'Successful': {'/lhcb/production/DC06/phys-v4-lumi5/00001897/RDST/0000/00001897_00002575_1.rdst'}}
```

* Check if a TURL can be generated at the site, otherwise the job will not be able to access the dataset

dirac-dms-lfn-accessURL

/lhcb/production/DC06/phys-v4-lumi5/00001897/RDST/0000/00001897_00002575_1.rdst RAL-tape

```
dirac-dms-lfn-accessURL /lhcb/production/DC06/phys-v4-lumi5/00001897/RDST/0000/00001897_00002575_1
2008-09-18 13:51:27 UTC dirac-dms-lfn-accessURL INFO: ReplicaManager.getReplicaAccessUrl: Attempting
2008-09-18 13:51:27 UTC dirac-dms-lfn-accessURL INFO: ReplicaManager.getReplicaAccessUrl: Resolved
2008-09-18 13:51:28 UTC dirac-dms-lfn-accessURL INFO: ReplicaManager.__getPhysicalFileAccessUrl: Attempting
2008-09-18 13:51:41 UTC dirac-dms-lfn-accessURL INFO: Using lcg_util from: /afs/cern.ch/lhcb/soft
2008-09-18 13:51:41 UTC dirac-dms-lfn-accessURL INFO: The version of lcg_utils is 1.6.13
2008-09-18 13:51:41 UTC dirac-dms-lfn-accessURL INFO: Using gfalthr from: /afs/cern.ch/lhcb/soft
2008-09-18 13:51:41 UTC dirac-dms-lfn-accessURL INFO: The version of gfalthr is 1.10.15
2008-09-18 13:51:41 UTC dirac-dms-lfn-accessURL INFO: StorageElement.isValid: Determining whether
2008-09-18 13:51:41 UTC dirac-dms-lfn-accessURL INFO: StorageElement.isLocalSE: Determining whether
2008-09-18 13:51:41 UTC dirac-dms-lfn-accessURL INFO: StorageElement.getAccessUrl: Generating pfn
2008-09-18 13:51:41 UTC dirac-dms-lfn-accessURL INFO: StorageElement.getAccessUrl: Attempting to
{'Failed': {},
 'Successful': {'/lhcb/production/DC06/phys-v4-lumi5/00001897/RDST/0000/00001897_00002575_1.rdst'}}
```

* Check the status of the file in the site

dirac-dms-pfn-metadata

srm://ralsrmb.rl.ac.uk/castor/ads.rl.ac.uk/prod/lhcb/lhcb/production/DC06/phys-v4-lumi5/00001897/RDST/0000/00001897_00002575_1.rdst RAL-tape

```
dirac-dms-pfn-metadata srm://ralsrmb.rl.ac.uk/castor/ads.rl.ac.uk/prod/lhcb/lhcb/production/DC06/phys-v4-lumi5/00001897/RDST/0000/00001897_00002575_1
2008-09-18 10:13:46 UTC dirac-dms-pfn-metadata INFO: ReplicaManager.__getPhysicalFileMetadata: Attempting
2008-09-18 10:13:46 UTC dirac-dms-pfn-metadata INFO: Using lcg_util from: /afs/cern.ch/lhcb/soft
2008-09-18 10:13:46 UTC dirac-dms-pfn-metadata INFO: The version of lcg_utils is 1.6.13
2008-09-18 10:13:46 UTC dirac-dms-pfn-metadata INFO: Using gfalthr from: /afs/cern.ch/lhcb/soft
2008-09-18 10:13:46 UTC dirac-dms-pfn-metadata INFO: The version of gfalthr is 1.10.15
2008-09-18 10:13:46 UTC dirac-dms-pfn-metadata INFO: StorageElement.isValid: Determining whether
2008-09-18 10:13:46 UTC dirac-dms-pfn-metadata INFO: StorageElement.isLocalSE: Determining whether
2008-09-18 10:13:46 UTC dirac-dms-pfn-metadata INFO: StorageElement.getFileMetadata: Attempting
{'Failed': {},
 'Successful': {'srm://ralsrmb.rl.ac.uk/castor/ads.rl.ac.uk/prod/lhcb/lhcb/production/DC06/phys-v4-lumi5/00001897/RDST/0000/00001897_00002575_1.rdst'}}
```

In this case the status of Cached is 1, meaning that everything is fine.

-- RicardoVazquez - 18 Sep 2008

This topic: LHCb > CachedFiles

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