

# Table of Contents

|  |   |
|--|---|
| TRT Offline Calibration Constants Upload in the..... | 1 |
| Introduction.....                                    | 2 |
| Step 0.....  | 3 |
| Step 1.....  | 4 |
| .....  | 5 |
| Find calibout_0x.txt.....                            | 5 |
| The procedure.....                                   | 6 |
| Before.....  | 7 |
| Create Pool and Cool.....                            | 8 |

# TRT Offline Calibration Constants Upload in the

# Introduction

Each data run need the optimal calibration constants in the DB. You have to be sure of the goodness of the calibration constants, before to do the upload!!!

# Step 0

comments about Permissions

# Step 1

# Find calibout\_0x.txt

Find the location of the text file that contains the t0 and Rt calibration constants to upload. Example:

`/afs/cern.ch/user/i/idcalib/w0/TRT_Calibration/shifterCollisions2010_30march/run_165591/batch/inp`

(describe constants here or link to another twiki page)

# The procedure

there are two ways to proceed, they are equivalent.

1) create three times pool and cool files 2) create pool and cool once, then make a copy of the tags

# Before

Go to the folder `/afs/cern.ch/user/i/idcalib/w0/TRT_Calibration/uploadedDB` and then move to right kind of constants you are going to uploads (MCCollisions, MCCosmics, Collisions, Cosmics)

Create a folder inside with the tag name and some other info (See other folders as example) For each set of contents to be upload, create a README. Use as example:

`/afs/cern.ch/user/i/idcalib/w0/TRT_Calibration/uploadedDB/Cosmics/TrtCalibT0-HLT-UPD1-Field-01_Fo`



# Create Pool and Cool

Go to the Calibration Display [↗](#). Check that the calibrated run (that provides the constants) has been added to the calibration display list. If not, see Shifter's Guide. The Calibration Display tool allows to easily create **pool** and **cool** files.

Select the calibration number (for example n.1145) and click on the button "Pool & Cool".

The list of the txt files with the calibration constants from all the iterations run should be visible.

Select both rt and t0 for the txt file constants you want to use, and keep the tags as they are: they should be **TrtCalibRt-Physics-UPD1-FieldOn-00-00** and **TrtCalibT0-Physics-UPD1-FieldOn-00-00** for example [www/archive/calib01145/batch/input/calibout\\_03.txt](http://www.archive/calib01145/batch/input/calibout_03.txt)

Now click **Go!** and be patient, it can take up to 2 minutes!

In the empty box will appear this information:

```
Rt file: /afs/cern.ch/user/i/idcalib/w0/TRT_Calibration/www/archive/calib01145/batch/input/calibout_03.txt
T0 file: /afs/cern.ch/user/i/idcalib/w0/TRT_Calibration/www/archive/calib01145/batch/input/calibout_03.txt
Upload dir: /afs/cern.ch/user/a/attrtcal/upload/upload_e20bdd1e855288973e929b224fac9d9a Added tags:
TrtCalibT0-Physics-UPD1-FieldOn-00-00, TrtCalibRt-Physics-UPD1-FieldOn-00-00 Logfiles: txt2db.log
```

Now change the tags to \* ES1-UPD1 \* and \* \* for Rt and t0

Click **Go!** again!

Then do the same for \* BLK-UPD4\* and \* \* REP-159041 ... BUT for the last one also select "verify"

Summary: we have done **UPD1**, **ES1-UPD1**, **BLK-UPD4** and **REP-175652**

```
Tags added in: /afs/cern.ch/user/a/attrtcal/upload/upload_e20bdd1e855288973e929b224fac9d9a/mycool.db
Added tags: TrtCalibT0-Physics-REP-159041-00, TrtCalibRt-Physics-REP-159041-00 Logfiles: txt2db.log
T0 difference: max diff between original txt file and DB constants = 0.100000 ns (average diff = 0.100000 ns)
Tags Found: TrtCalibRt-Physics-BLK-UPD4-FieldOn-00-00 TrtCalibRt-Physics-ES1-UPD1-FieldOn-00-00
TrtCalibRt-Physics-REP-159041-00 TrtCalibRt-Physics-UPD1-FieldOn-00-00
TrtCalibT0-Physics-BLK-UPD4-FieldOn-00-00 TrtCalibT0-Physics-ES1-UPD1-FieldOn-00-00
TrtCalibT0-Physics-REP-159041-00 TrtCalibT0-Physics-UPD1-FieldOn-00-00 Logfiles: db2txt.log comp.log
```

use the python script to compare

go to [afs/cern.ch/user/a/attrtcal/upload/upload\\_e20bdd1e855288973e929b224fac9d9a/](http://afs/cern.ch/user/a/attrtcal/upload/upload_e20bdd1e855288973e929b224fac9d9a/)

you will see the files

calib.txt is the same as calibout\_start\_-0.4ns.txt and caliboutput.txt is what will end up in the DB

CompareT0s.py [9:51:17 PM] S.:

```
/afs/cern.ch/user/i/idcalib/w0/TRT_Calibration/uploadedDB/testScripts/CompareT0s.py [9:51:38 PM] S.: the
txt files are the same, the only difference is [9:51:44 PM] Johan Lundquist: and you added 0.6 .. which will be
rounded to 0.5 [9:51:46 PM] S.: the line -3 -1 -1 -1 -1 : 11.100000 0.000000
```

```
END -3 -1 -1 -1 -1 : 11 0
```

copy this whole directory to the uploadDB/Collisions/ area

now we have to do pool and cool upload!

copy this whole directory to

/afs/cern.ch/user/i/idcalib/w0/TRT\_Calibration/uploadedDB/Collisions/multiple\_tags

rename folder upload\_e20bdd1e855288973e929b224fac9d9a/ in bla bla

so lets first do the pool upload

better log in from start on lxplus in a clean shell as yourself

cd to the directory

source

```
/afs/cern.ch/user/i/idcalib/w0/TRT_Calibration/uploadedDB/Jul09FastReprocessing/testarea/cmthome/setup.sh
-tag=15.6.7,32,runtime
```

```
bocchett@lxplus202:~/TRT_Calibration/uploadedDB/Collisions/multiple_tags/Tue_Jul_13_21:58:00_2010$
/afs/cern.ch/user/a/atlcond/utills/registerFiles2 --wait cond10_data.gen.COND pooloutputfile.root Registering
files into dataset cond10_data.gen.COND pooloutputfile.root assigned request ID
56ed9f2d-3e7b-4dbd-8bc9-ae1903a20d26 Waiting for 1 requests to be completed at Tue Jul 13 22:06:30 2010
Waiting for 1 requests to be completed at Tue Jul 13 22:06:50 2010 Waiting for 1 requests to be completed at
Tue Jul 13 22:07:10 2010
```

Processed POOL file registration request 56ed9f2d-3e7b-4dbd-8bc9-ae1903a20d26 with return code 0

```
[Tue Jul 13 22:06:55 2010] Attempting to extract POOL GUID from file [Tue Jul 13 22:07:06 2010] File
GUID determined to be 3A353E69-B58E-DF11-ABE9-0030487CCB62 [Tue Jul 13 22:07:06 2010]
Pre-checks completed successfully [Tue Jul 13 22:07:06 2010] Executing dq2-put --client-id=cond -a -C
--local-site=CERN-PROD_SPECIALDISK --guid=3A353E69-B58E-DF11-ABE9-0030487CCB62
--source=/afs/cern.ch/atlas/conditions/poolcond/buffer/pending/cond10_data.gen.COND
--files=p0oloutputfile.root.56ed9f2d-3e7b-4dbd-8bc9-ae1903a20d26 cond10_data.000012.gen.COND [Tue
Jul 13 22:07:06 2010] Please wait ... [Tue Jul 13 22:07:19 2010] cond10_data.000012.gen.COND is open,
you are adding files to the current version Gathering list of files... done
p0oloutputfile.root.56ed9f2d-3e7b-4dbd-8bc9-ae1903a20d26: pre-checking file
```

Checking for GUID clashes

```
cond10_data.000012.gen.COND -- confirm adding files to dataset (1 file):
(3A353E69-B58E-DF11-ABE9-0030487CCB62 ad:6988c66b 256804)
cond10_data.000012.gen.COND._0002.pool.root Confirm (y/n)? Automatic confirm Confirmed lcg-cp -v --vo
atlas -b -D srmv2 -S ATLASPECIALDISK
file:///afs/cern.ch/atlas/conditions/poolcond/buffer/pending/cond10_data.gen.COND/p0oloutputfile.ro
ot.56ed9f2d-3e7b-4dbd-8bc9-ae1903a20d26
srm://srm-atlas.cern.ch:8443/srm/managerv2?SFN=/castor/cern.ch/grid/atlas/atlasspecialdisk/cond10_d
[10:10:43 PM] S.: (you will not see output until the command is finished) lcg-cp -v --vo atlas -b -D srmv2 -S
ATLASPECIALDISK
file:///afs/cern.ch/atlas/conditions/poolcond/buffer/pending/cond10_data.gen.COND/p0oloutputfile.ro
ot.56ed9f2d-3e7b-4dbd-8bc9-ae1903a20d26
srm://srm-atlas.cern.ch:8443/srm/managerv2?SFN=/castor/cern.ch/grid/atlas/atlasspecialdisk/cond10_d
ata/000012/gen/cond10_data.000012.gen.COND/cond10_data.000012.gen.COND._0002.pool.root: done
cond10_data.000012.gen.COND._0002.pool.root: verifying
```

## TRTCalibConstsUploadDB < Sandbox < TWiki

cond10\_data.000012.gen.COND.\_0002.pool.root: OK (3A353E69-B58E-DF11-ABE9-0030487CCB62)  
Dataset cond10\_data.000012.gen.COND updated Dataset cond10\_data.000012.gen.COND registered at  
location CERN-PROD\_SPECIALDISK with status OPEN Finished [Tue Jul 13 22:07:19 2010]  
Castor/LFC/DQ2 Registration completed successfully

now the cool upload

Copying finished after 8 AtlCoolCopy runs and 0 failures

COPY in LOGFILE and add in the README

take note of the files so first run for UPD4 is 158996 and for UPD1 is 159086

1) README 2) verify 3) mail

---

-- SimonaBocchetta - 24-Sep-2010

---

This topic: Sandbox > TRTCalibConstsUploadDB  
Topic revision: r4 - 2011-02-21 - SimonaBocchetta



Copyright &© 2008-2021 by the contributing authors. All material on this  
collaboration platform is the property of the contributing authors.  
or Ideas, requests, problems regarding TWiki? use Discourse or Send feedback