

WA105 

reminder on data and software availability

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The code installed on the online farm is available on the svn :

Index of /311onlinefarm

Files shown: 0

Directory revision: [487](#) (of [487](#))

Sticky Revision:

File ^	Rev.	Age	Author	Last log entry
Parent Directory				
WA105Soft/	487	6 seconds	pennacc	OLD VERSION: do not use it!
WA105Soft operation/	486	45 hours	pennacc	code installed and used on the farm during operation

→ This code is also installed at **CERN**:

```
[epennacc@lxplus066 Public]$ ls -tl /afs/cern.ch/exp/wa105/Public
total 54021
-rw-r--r--. 1 epennacc wa105-comp 292445 Jul  5 12:14 WA105Soft_operation_0507.tgz
drwxr-xr-x. 25 epennacc wa105-comp 2048 Jul  5 11:49 WA105Soft_operation
```

and at **CCIN2P3**:

```
[pennacc@cca008 sw_311]$ ls -rtl $THRONG_DIR/sw/sw_311
total 288
drwxr-xr-x 25 pennacc lbno 2048 Jul  5 11:49 WA105Soft_operation
-rw-r--r-- 1 pennacc lbno 292445 Jul  5 11:50 WA105Soft_operation_0507.tgz
```

Pedestal subtraction and channel mask are enabled:

WA105_rectasks.config

```
RECO_HIT
BEGIN_ALGORITHM 1 AlgoMultiHit
# parameters for multihit algo
# enable using calibration info: ch masks, pedestals, calibrations
PARA_CALI [1, 1, 0]
# relTh1 relTh2 absTh1 abs_Th2 dt(us) padLeft padRight //
PARA_ROI [8., 4.0, 0.5, -0.1, 5, 10] //ROI
PARA_HIT [1.0, 5.0, 9999, 9999, 5, 10, 10]
END_ALGORITHM
```

The pedestal file and the list of masked channel are available:

- on the farm,
- **@CERN**
- **@CCIN2P3**



CERN :

```
[epennacc@lxplus066 ~]$ cd $THEDATAFILES
[epennacc@lxplus066 datafiles]$ pwd
/eos/experiment/wa105/data/311/datafiles
[epennacc@lxplus066 datafiles]$ ls -rtl
total 0
drwxr-xr-x. 1 wa105daq wa105-comp 0 Jun 21 18:47 pedestals
drwxr-xr-x. 1 epennacc wa105-comp 0 Jul  3 14:15 chmasked
[epennacc@lxplus066 datafiles]$ ls -rtl pedestals/
total 400
-rw-r--r--. 1 wa105daq wa105-comp 31898 Jan 27 15:45 pedestal_525_270117_153558_1.root
-rw-r--r--. 1 wa105daq wa105-comp 57600 Jan 27 15:45 pedestal_525_270117_153558_1.ped
lrwxrwxrwx. 1 wa105daq wa105-comp  0 Jun 21 18:47 pedestals -> pedestal_run729_1.ped
-rw-r--r--. 1 wa105daq wa105-comp 57600 Jun 21 22:06 pedestal_run729.dat
-rw-r--r--. 1 wa105daq wa105-comp 57600 Jun 21 22:07 pedestal_run729_1.ped
[epennacc@lxplus066 datafiles]$ ls -rtl chmasked/
total 1
lrwxrwxrwx. 1 epennacc wa105-comp  0 Jun 30 16:27 chmasked -> chmask_30062017.list
-rw-r--r--. 1 epennacc wa105-comp 417 Jul  3 14:15 chmask_30062017.list
```

CCIN2P3:

```
[pennacc@cca009 work]$ cd $THEDATAFILES
[pennacc@cca009 datafiles]$ pwd
/sps/hep/lbno/datafiles
[pennacc@cca009 datafiles]$ ls -rtl
total 0
drwxr-sr-x 2 pennacc lbno 4096 Jun 22 12:13 pedestals
drwxr-sr-x 2 pennacc lbno 4096 Jun 30 11:59 chmasked
[pennacc@cca009 datafiles]$ ls -rtl pedestals/
total 64
-rw-r--r-- 1 pennacc lbno 57600 Jun 22 12:13 pedestal_run729_1.ped
lrwxrwxrwx 1 pennacc lbno  21 Jun 22 12:13 pedestals -> pedestal_run729_1.ped
[pennacc@cca009 datafiles]$ ls -rtl chmasked/
total 0
-rw-r--r-- 1 pennacc lbno 221 Jun 29 21:10 chmask_24062017.list
lrwxrwxrwx 1 pennacc lbno  20 Jun 30 11:59 chmasked -> chmask_30062017.list
-rw-r--r-- 1 pennacc lbno 416 Jul  3 14:09 chmask_30062017.list
```

The following runs have been processed:

```
732-0.pul.cal
734-0.pul.cal
735-0.pul.cal
735-1.pul.cal
741-1.pul.cal
741-0.pul.cal
743-0.pul.cal
743-1.pul.cal
743-2.pul.cal
743-3.pul.cal
744-0.pul.cal
744-1.pul.cal
744-2.pul.cal
745-0.pul.cal
745-1.pul.cal
747-0.pul.cal
747-1.pul.cal
748-1.pul.cal
748-0.pul.cal
```

these runs have been taken in different conditions,
[please check on elog](#)

Reconstruction results have also been copied on CERN /eos

It is possible to check all the available files (raw data [and](#) reconstruction results) by the WEB interface to the “*[run database](#)*”.

→ the web interface and the database have been set up by Thierry Viant

→ the database is automatically filled during online processing



run id	Data type	Start Time	Number of sequences	Error messages	Remarks
752	pedestal	2017-07-01 13:23:29	1		<input type="text"/> Valid remarks run:752
751	pulser	2017-06-30 16:41:08	1		<input type="text"/> Valid remarks run:751
750	pulser	2017-06-30 15:56:29	1		<input type="text"/> Valid remarks run:750
749	pulser	2017-06-30 15:28:28	1		<input type="text"/> Valid remarks run:749
748	pulser	2017-06-29 17:26:51	2		<input type="text"/> Valid remarks run:748
747	pulser	2017-06-29 16:35:15	2		<input type="text"/>

748

Seq Name	DAQ TimeStamp	Local EOS TimeStamp	Local EOS Path	Nb of Events	Central EOS TimeStamp	Central EOS Path	Reco TimeStamp	Reco Path	Analysis TimeStamp	Analysis Path
748-0.pul.cal	2017-06-29 17:26:51	2017-06-29 17:27:01	/eos/data/calibrations/748-0.pul.cal	335	2017-06-29 17:27:41	/calibrations/748/748-0.pul.cal	2017-07-05 12:12:41	/reco/748/recotask_748-0.root		
748-1.pul.cal	2017-06-29 17:37:30	2017-06-29 17:37:37	/eos/data/calibrations/748-1.pul.cal	93	2017-06-29 17:37:56	/calibrations/748/748-1.pul.cal	2017-07-05 12:09:10	/reco/748/recotask_748-1.root		

To summarize:

1) All raw data files are available on CERN /eos (and castor)
(latency <5 minutes)

2) Reconstruction results are available as well

→ Everyone can directly access these results, or reconstruct them by her/his own
The code can be checked out from the svn server:

```
svn co svn+ssh://user@svn.in2p3.fr/wa105/311onlinefarm/WA105Soft_operation
```

A version of WA105_rectasks.config file optimized for operation is available

NB: These files can be reconstructed also by using the code checked up like this:

```
svn co svn+ssh://user@svn.in2p3.fr/wa105/WA105Soft
```

but in this case the *WA105_rectasks.config* is not the optimized one.