Table of Contents

Stripping23 FAQ

If you want to create a new stripping line, you should look here. The general way of testing the lines is described here. Below follows a more detailed explanation for specific S23 testing.

How to deal with Vertex and PVRefit in the Stripping

The inclusion of PVRefit and Vertex fitters inside the stripping is detailed in this link.

How to run the tests for timing/retention in S23?

In order to perform any test related to S23 you should use the DV v36r7p7 (DaVinci v37r2p2 for S23c). To set up the environment do

```
lb-dev DaVinci v36r7p7
cd DaVinciDev_v36r7p7
getpack Phys/StrippingSelections head
```

After getting the head of the Phys/StrippingSelections package, do

```
cd Phys/StrippingSelections/tests/users
```

Inside the folder you will find the script TestMyStrippingLine.py that is used to evaluate the retention and timing of the required stripping lines. Inside the script you will need to modify the line that sets the name of the StrippingLine.

For lines going to DST the retention MUST BE 0.05%, while for lines going to mDST the retention MUST BE 0.5%. The timing per line needs to be under 1ms/event.

If the requirements are not satisifed, the changes to the configuration dictionary can be done inside the testing script without needing to modify and compile the stripping algorithm. To do so uncomment the line

```
confs[confname]["CONFIG"]["CutName"] = NewValue
```

You need to change only CutName and NewValue with the appropriate name and value that you want to test. This will change at the configuration time the value for the selected cut. Remember to update the default_config dictionary inside the stripping algorithm after arriving to the desired configuration.

To evaluate the timing, the script creates a copy of all the lines with the name XXX_TIMING to get the real timing consumption by the lines without taking into account the creation of CommonParticles. This is the time that must be under 1ms/event.

How to solve the error ERROR:: TCK not recognized.

While running the stripping tests you may encounter the following error:

```
ToolSvc.L0DUConfig                                    INFO Creating the TEMPLATE configu
ToolSvc.L0CondDBProvider                              INFO Registered RAM(BCID) versions
ToolSvc.L0DUConfig.Template                           INFO -------------- TCK = 0x10000
ToolSvc.L0DUConfig.Template                           INFO **** L0DU Config loading : L0
ToolSvc.L0DUConfig.Template                           INFO Short description :: NO DESCR
ToolSvc.L0DUConfig                                    ERROR L0DUMultiConfigProvider:: The
```

```
L0DUFromRaw.L0DUFromRawTool                                    WARNING L0DUFromRawTool::  Unable to
L0DUFromRaw                                                    ERROR L0DUFromRawAlg:: TCK not reco
=FAILURE
DataOnDemandSvc                                                ERROR Failed to execute the algorit
```

To solve it do

```
getpack TCK/L0TCK head
cp /afs/cern.ch/work/m/mvesteri/public/RealData1406/L0DUConfig_June2015_0xEE63.opts TCK/L0TCK/opt
```

And also add the following line

```
#include "$L0TCK/L0DUConfig_June2015_0xEE63.opts"
```

to the file

```
TCK/L0TCK/options/L0DUConfig.opts
```

This topic: LHCb > LHCbStripping23
Topic revision: r6 - 2015-09-07 - AndreaContu