# Table of Contents

# DataQualityConfigurations

## Packages

```
cmt co DataQuality/dqm_algorithms
cmt co DataQuality/DataQualityConfigurations
```

## Editing Configurations

## Test Display

### Change mydqcfgpth

- Back up DataQualityConfigurations/python/TestDisplay.py
- In TestDisplay.py change mydqcfgpath to (path)/DataQuality/DataQualityConfigurations/config
- Add data files to runN directory in $TestArea and add soft link (`ln -s`) to append .root
- Copy publish.sh to $TestArea and edit file list
- `./publish.sh (num)` where `(num)` is an identifier number
- Search for run number and identifier here

# CSCSegmValidation

## Running

### Job Options

### Athena

## Coding Notes

### Getting Started

Checked out MuonSpectrometer package and copied MuonSegmValidation.cxx to CSCSegmValidation.cxx

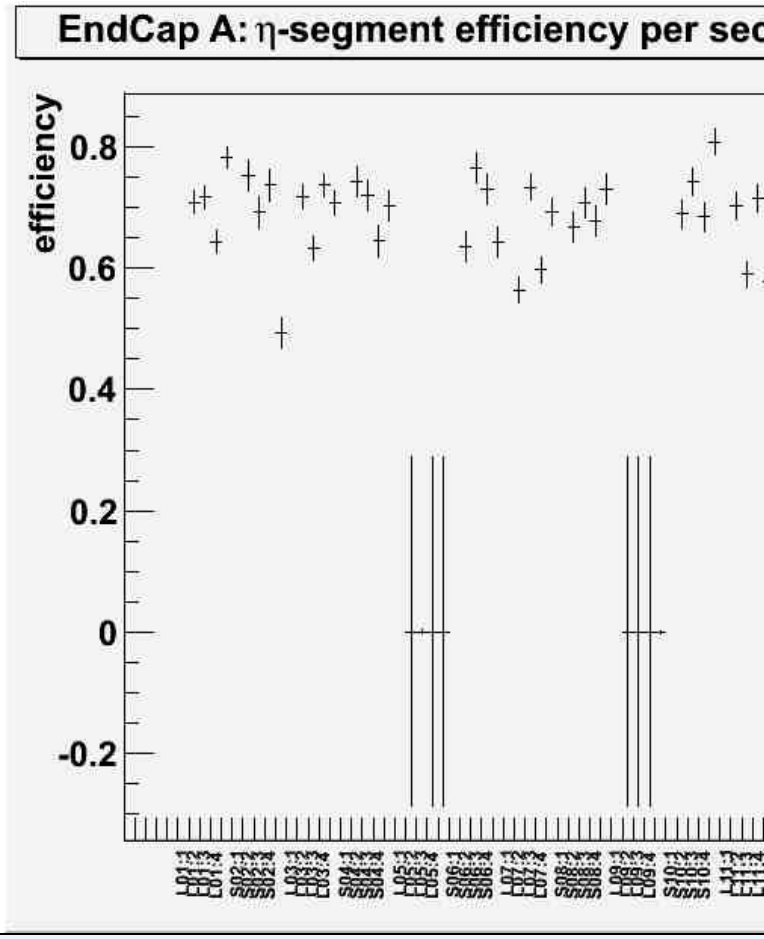
### Making Skeleton

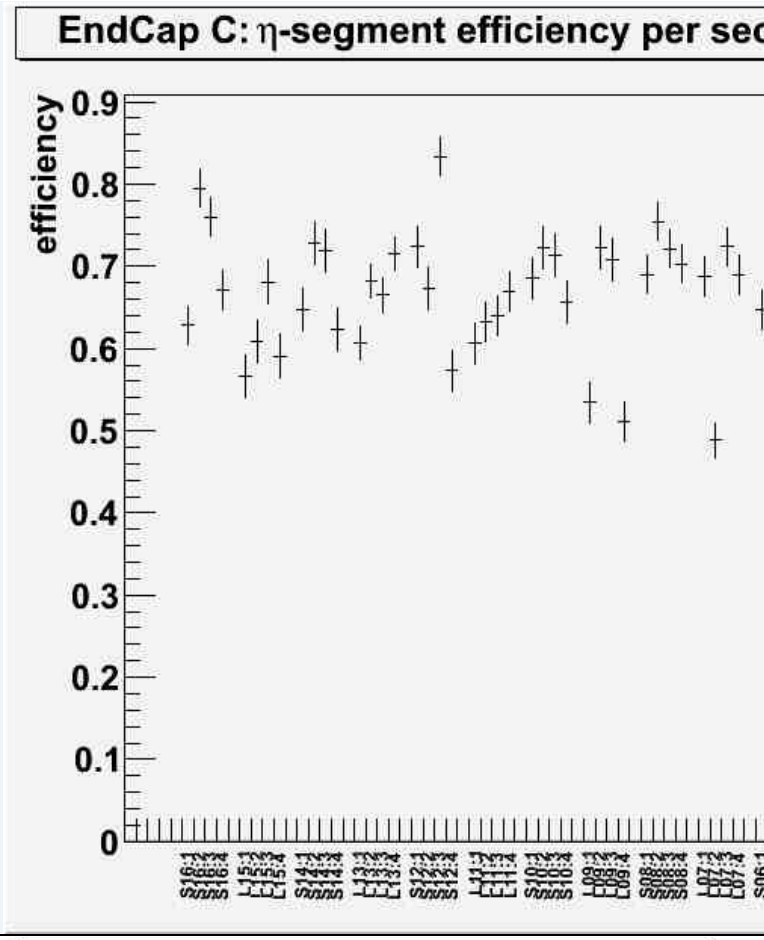
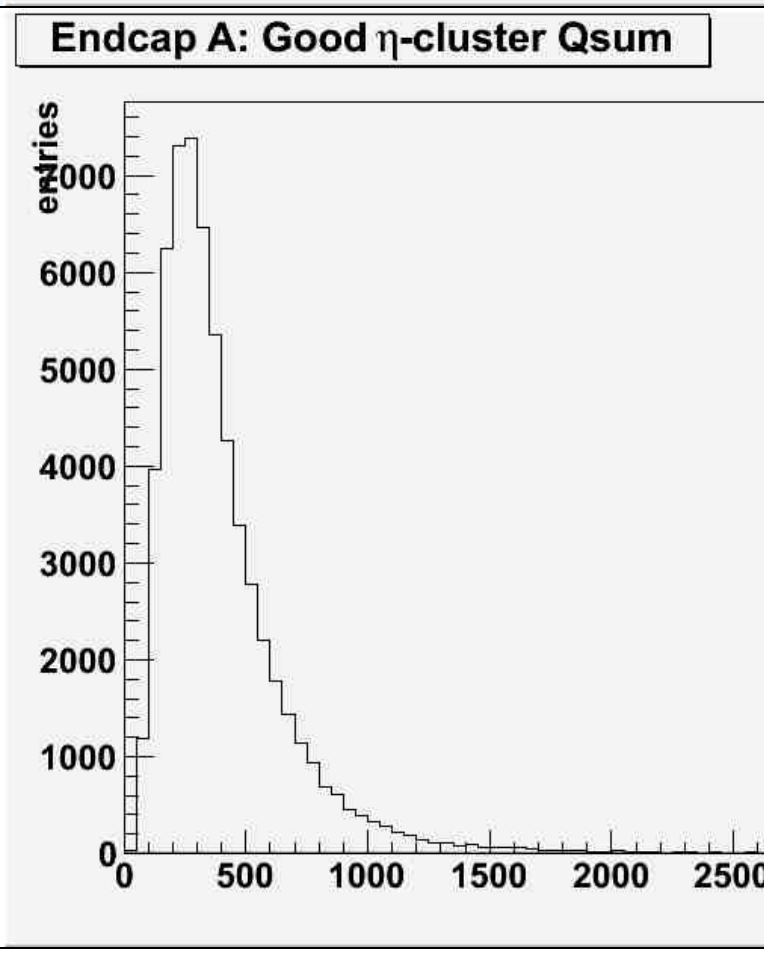
Removed:

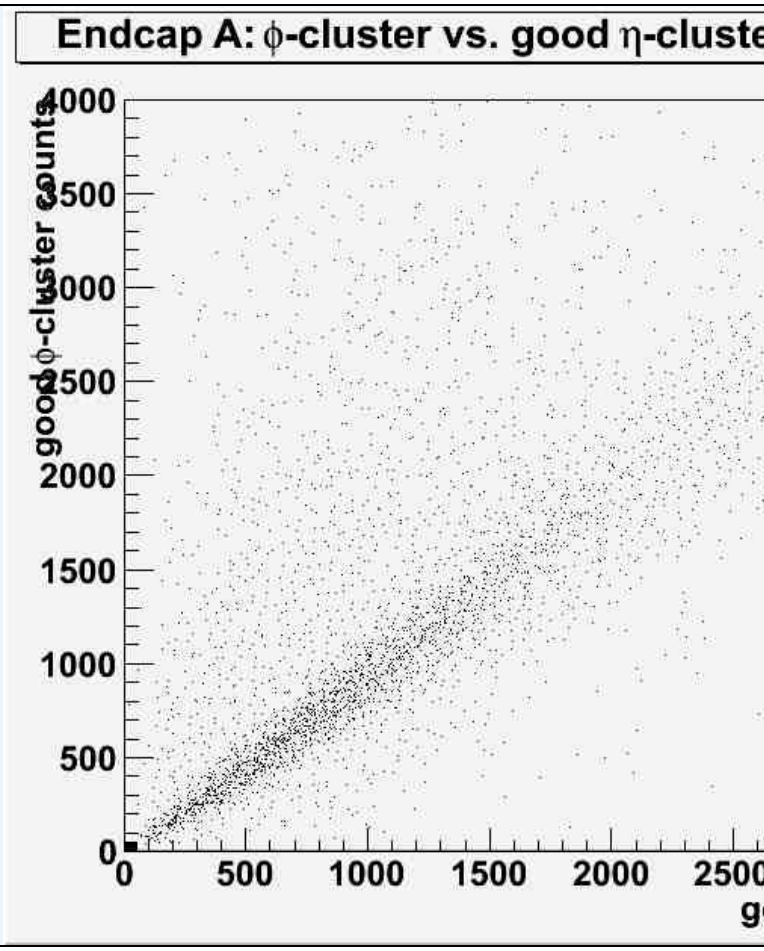
- MDT and RPC tools
- Histogram booking not from m_histoTool
- MDT fillHistograms lines
- All procHistograms lines
- All finalize lines

# Segment Monitoring Histogram Reference

The description of segment monitoring histograms and their DQMF checks and the reference plots are given below.

| Histogram name | Description | Possible problems | Action | Reference |
|---|---|---|---|---|
| **Algorithm:** CscSegmValAlg<br>**Histogram:** MuBoy_Segm_Efficiency_EA | CSC efficiency for EndCap A<br><br>segments through layer divided by total segments<br><br>**Normal:** Expect this plot to have efficiencies around 0.7 with sectors 5 and 7 dead | **Abnormal**: Efficiencies below 0.6 | contact CSC expert |  |
| **Algorithm:** CscSegmValAlg<br>**Histogram:** MuBoy_Segm_Efficiency_EC | CSC efficiency for EndCap C<br><br>segments through layer divided by total segments<br><br>**Normal:** Expect this plot to have efficiencies around 0.7 with no dead sectors | **Abnormal**: Efficiencies below 0.6 | contact CSC expert | |

| | | | | |
|---|---|---|---|---|
| | | | |   |
| **Algorithm:** CscSegmValAlg<br><br>**Histogram:** MuBoy_Segm_QSumGoodEtaCluster_EA | Total CSC charge for EndCap A<br><br>**Normal:** Expect this plot to have a landau distribution<br><br>EndCap C and phi should look similar | **Abnormal**: Non-landau distribution<br><br>Spike near 0 | contact CSC expert |   |

| | | | | |
|---|---|---|---|---|
| **Algorithm:** CscSegmValAlg<br><br>**Histogram:** MuBoy_Segm_QSumGoodClusCorrelation_EA | Correlation of CSC eta and phi total charge for EndCap A<br><br>**Normal:** Expect most points to lie along the y = x line<br><br>EndCap C and phi should look similar | **Abnormal**: Correlation not clear | contact CSC expert |  |

# Nightlies

```
asetup AtlasProduction,rel_2,19.X.0,here
```

# Muon DQ Segment Monitoring

```
cmt co MuonSpectrometer/MuonValidation/MuonDQA/MuonSegmMonitoring cd
MuonSpectrometer/MuonValidation/MuonDQA/MuonSegmMonitoring/cmt; cmt make; cd -
```

Look at DQOperationalRecipes

`cmt co DataQuality/DataQualityUtils` (edit algorithms)
`cmt co DataQuality/DataQualityConfigurations` (edit)
`cmt co DataQuality/dqm_algorithms` (necessary for configurations)

Responsible: Jason Veatch

Major updates: -- JasonVeatch 18 Jan 2011 -- JasonVeatch - 11-Apr-2011

Review: **Never reviewed**

- publish.sh: Script to publish DQ test display

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This topic: Sandbox > JVeatchSandbox
Topic revision: r8 - 2014-01-16 - JasonVeatch