```
#Import the necessary packages
from GaudiKernel.ProcessJobOptions import PrintOff, InstallRootLoggingHandler
import logging
InstallRootLoggingHandler(level = logging.CRITICAL)
from Gaudi.Configuration import *
import GaudiKernel.ProcessJobOptions
import Gaudi.Configuration as Gaudi
import Configurables as Configs
import OnlineEnv as Online
import os
from Configurables import (
                               LHCbApp,
                         ApplicationMgr,
                         LHCb__MDFOnlineEvtSelector,
                         LHCb FilePoller,
                         LHCb RawDataCnvSvc,
                         GaudiSequencer,
                         HltMassMonitor,
                         HltRoutingBitsFilter,
                         HltSelReportsDecoder,
                         HltDecReportsDecoder,
                         HltVertexReportsDecoder,
                         HltLumiSummaryDecoder,
                         HltMonitor
                    )
app = LHCbApp()
app.Persistency="RAW"
app.EvtMax = -1
#Start ApplicationManager
appMgr = ApplicationMgr()
appMgr.EvtMax = -1
appMgr.HistogramPersistency = 'ROOT'
appMgr.SvcOptMapping.append('LHCb::FmcMessageSvc/MessageSvc')
EventPersistencySvc().CnvServices.append( LHCb_RawDataCnvSvc('RawDataCnvSvc') )
HistogramPersistencySvc().OutputFile = "
HistogramPersistencySvc().Warnings = False
ApplicationMgr().HistogramPersistency = "ROOT"
#The first file saved. Note that it has no actual content.
HistogramPersistencySvc().OutputFile = "testPol.root"
```

```
appMgr.TopAlg.append('StoreExplorerAlg')
StoreExplorerAlg.Load = 1
StoreExplorerAlg.PrintFreq = 100
StoreExplorerAlg.OutputLevel = 1;
data = Online.evtDataSvc()
data.RootCLID = 1
data.ForceLeaves = 1
data.EnableFaultHandler = True
#Invoke poller
poller = LHCb__FilePoller('Poller')
appMgr.ExtSvc.append(poller)
#The directory that the poller will scan for files.
poller.scanDirectory = "/daqarea/lhcb/data/2014/RAW/FULL/LHCb1/TEST"
#The time interval between consecutive pollings
poller.alarmTime = 3
#The database containing information about the files
poller.DbName = "./OnlineFileProcessing.db"
#Invoke EventSelector
selector = LHCb__MDFOnlineEvtSelector('EventSelector')
appMgr.ExtSvc.append(selector)
selector.MaxNoEvents = 50000;
selector.PrintFreq = 10000
selector.EvtsForHist = 30000
#The directory where the poller will save the histograms
selector.SaveHistoDir = "./HLT2/"
# The stuff to run
physFilter = HltRoutingBitsFilter( "PhysFilter", RequireMask = [ 0x0, 0x4, 0x0 ] )
dec = HltSelReportsDecoder(SourceID=2)
vdec = HltVertexReportsDecoder()
lumidec = HltLumiSummaryDecoder()
monitor = HltMassMonitor()
monitor.Decisions = { "Jpsi"
                                      : "Hlt2DiMuonJPsiDecision",
                      "D0->Kpi"
                                   : "Hlt2CharmHadD02HH_D02KPiDecision",
                      "D0->KK"
                                   : "Hlt2CharmHadD02HH D02KKDecision",
                      "D0->pipi"
                                   : "Hlt2CharmHadD02HH_D02PiPiDecision",
                      "D->hhh"
                                   : "Hlt2CharmHadD2HHHDecision",
                                   : "Hlt2CharmHadD02HHHHDecision",
                      "D->hhhh"
                      "InclusivePhi": "Hlt2IncPhiDecision" }
```

```
monitor.Histograms = { "Jpsi"
                                          : [ 3005, 3051, 3141, 3186, 50 ],
                            "D0->Kpi"
                                           : [ 1815, 1840, 1890, 1915, 50 ],
                            "D0->KK"
                                           : [ 1815, 1840, 1890, 1915, 50 ],
                            "D0->pipi"
                                           : [ 1815, 1840, 1890, 1915, 50 ],
                                           : [ 1815, 1840, 1890, 1915, 50 ],
                            "D->hhh"
                            "D->hhhh"
                                           : [ 1815, 1840, 1890, 1915, 50 ],
                            "InclusivePhi": [ 990, 1005, 1035, 1050, 30 ] }
# Top level sequence, the basic algorithm needed for the monitoring programs to run
topSeq = GaudiSequencer( "TopSequence" )
topSeq.Members = [ dec, vdec, lumidec, monitor ]
appMgr.TopAlg = [ topSeq ]
appMgr.OutputLevel = 3;
```