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#!/usr/bin/env python

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__MDFOnlineEvtSelectorNFiles,
                                LHCb__FilePoller,
                                LHCb__FilePollerNFiles,
                                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"

HistogramPersistencySvc().OutputFile = ""#"testPol.root"

appMgr.TopAlg.append('StoreExplorerAlg')
StoreExplorerAlg.Load = 1
StoreExplorerAlg.PrintFreq = 100
StoreExplorerAlg.OutputLevel = 1;
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data = Online.evtDataSvc()
data.RootCLID = 1
data.ForceLeaves = 1
data.EnableFaultHandler = True

#Invoke poller
#poller = LHCb__FilePoller('Poller')
poller = LHCb__FilePollerNFiles('Poller')
appMgr.ExtSvc.append(poller)
poller.scanDirectory = "/afs/cern.ch/user/i/ichalkia/TEST"
 #"/home/ichalkia/2012" #"/daqarea/lhcb/data/2014/RAW/FULL/LHCb1/TEST"
poller.MinimumFileNum = 2
poller.alarmTime = 3
poller.DbName = "./OnlineFileProcessing.db"

#Invoke EventSelector
##selector = LHCb__MDFOnlineEvtSelector('EventSelector')
selector = LHCb__MDFOnlineEvtSelectorNFiles('EventSelector')
appMgr.ExtSvc.append(selector)
selector.MaxNoEvents = 150000;
selector.PrintFreq = 10000
selector.HistogramFile = ""#"testPollerPr.root"
#selector.EvtsForHist = 30000
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",
                       "D->hhhh"      : "Hlt2CharmHadD02HHHHDecision",
                       "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 ],
                       "D->hhh"       : [ 1815, 1840, 1890, 1915, 50 ],
                       "D->hhhh"      : [ 1815, 1840, 1890, 1915, 50 ],
                       "InclusivePhi" : [  990, 1005, 1035, 1050, 30 ] }

# Top level sequence
topSeq = GaudiSequencer( "TopSequence" )
topSeq.Members = [ dec,  vdec, lumidec, monitor ]
appMgr.TopAlg = [ topSeq ]
appMgr.OutputLevel = 3;
```