

# HLT Timing Summary <sup>1</sup>

Main Info + HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7 info

CMS Experiment

September 24, 2013

<sup>1</sup>Documentation at <https://twiki.cern.ch/twiki/bin/view/CMS/SWGuideHLTTimingSummary>

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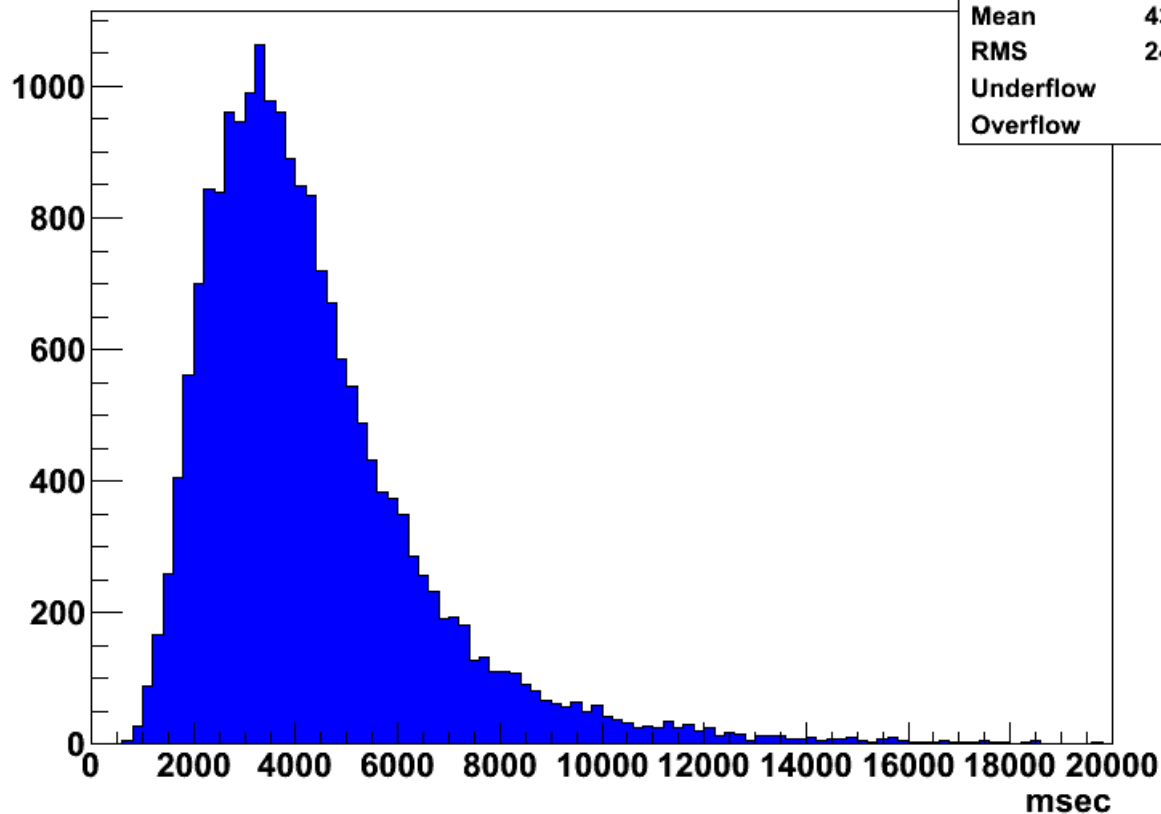
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**Chapter 1**

**Main Info**

## 1.1 Total time for all modules per event

**Total time for all modules per event**

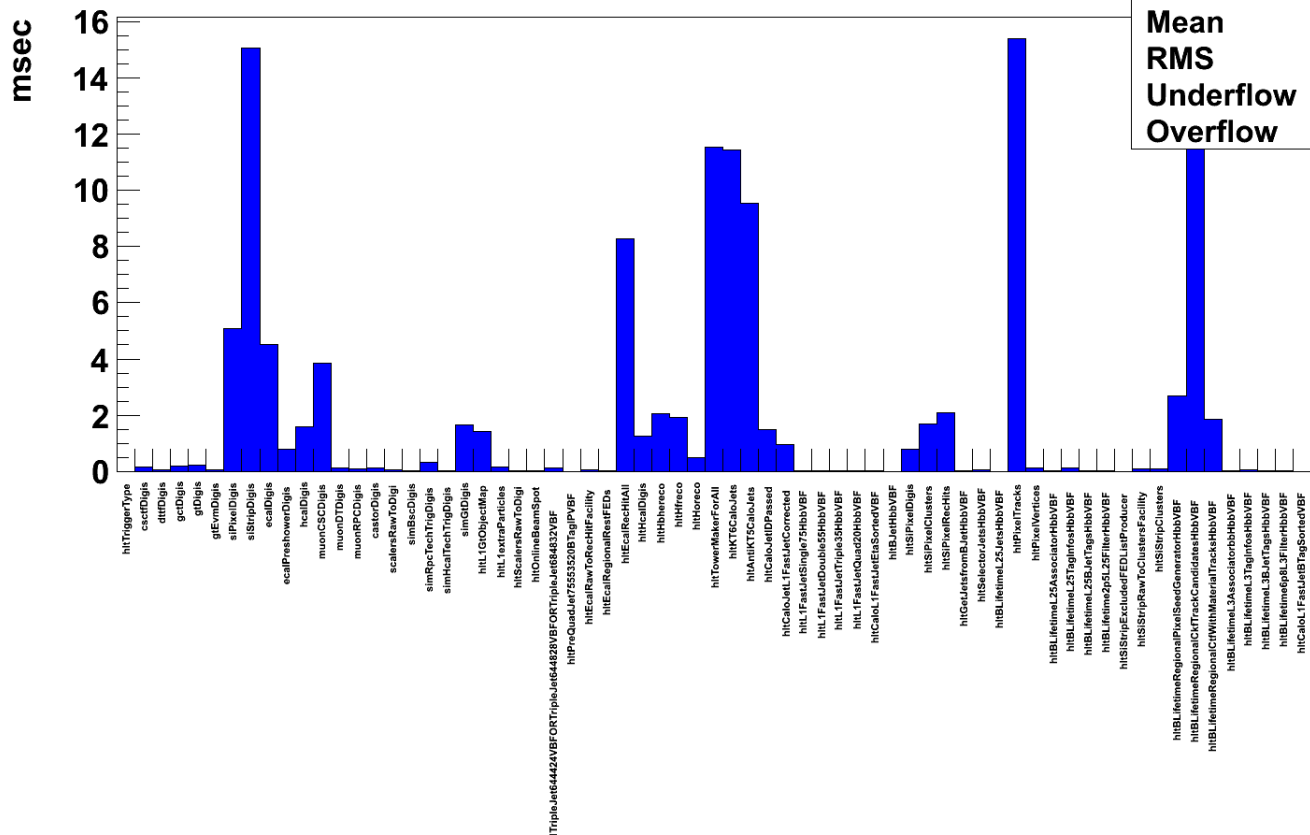


## Chapter 2

**HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7**  
**Info**

## 2.1 Average module in HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7 time

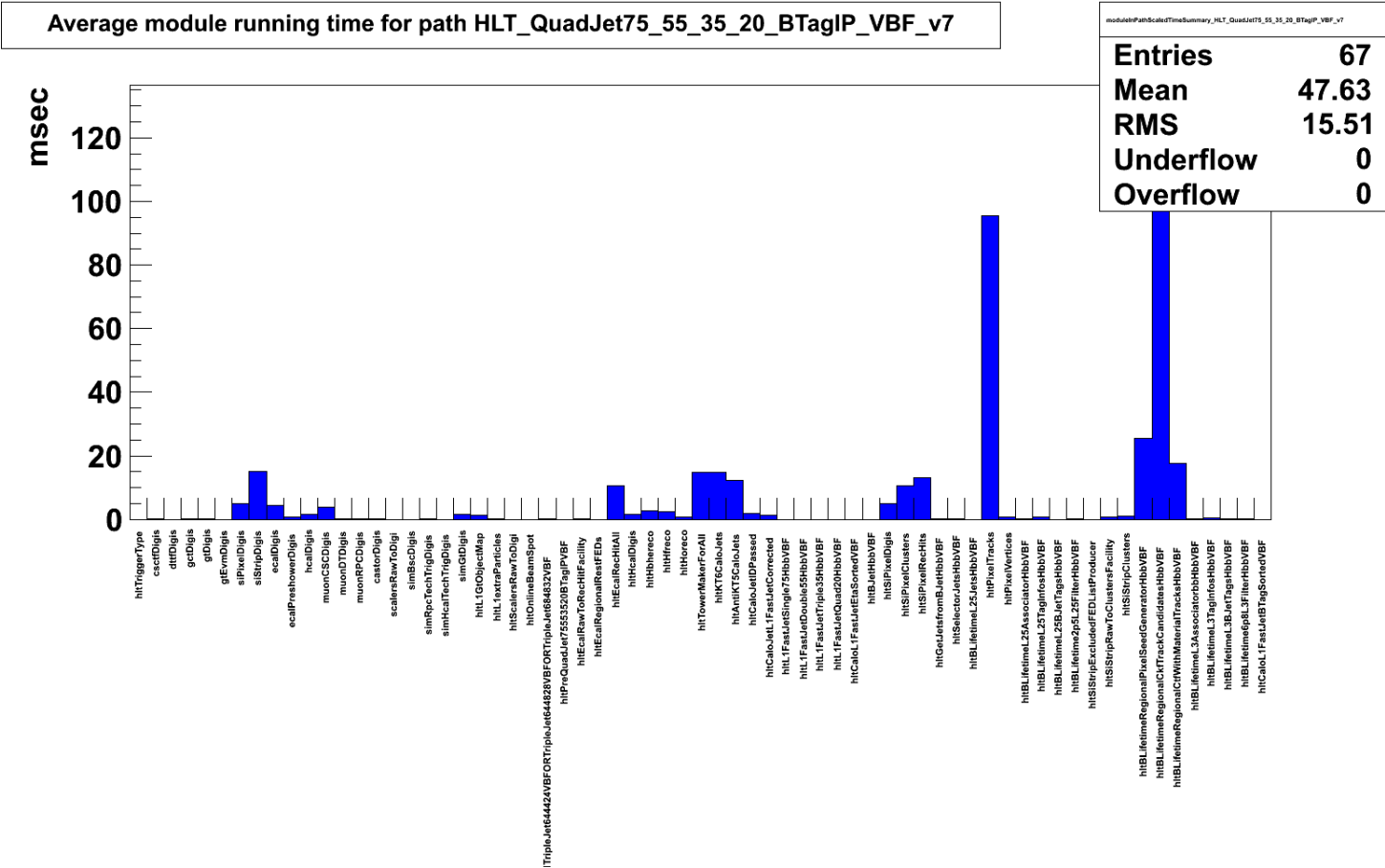
**Average module time for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7**



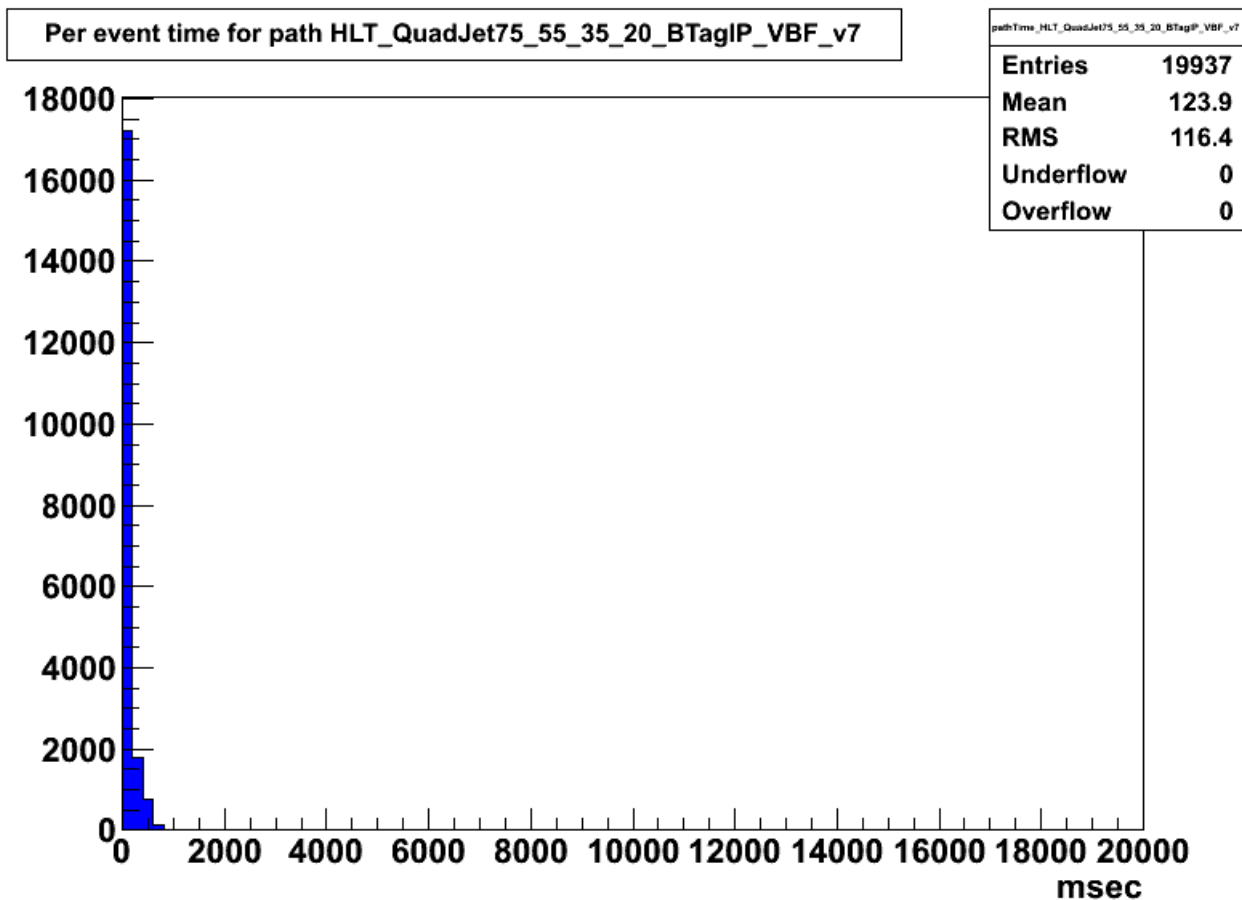
<b>Entries</b>	<b>67</b>
<b>Mean</b>	<b>32.56</b>
<b>RMS</b>	<b>18.07</b>
<b>Underflow</b>	<b>0</b>
<b>Overflow</b>	<b>0</b>



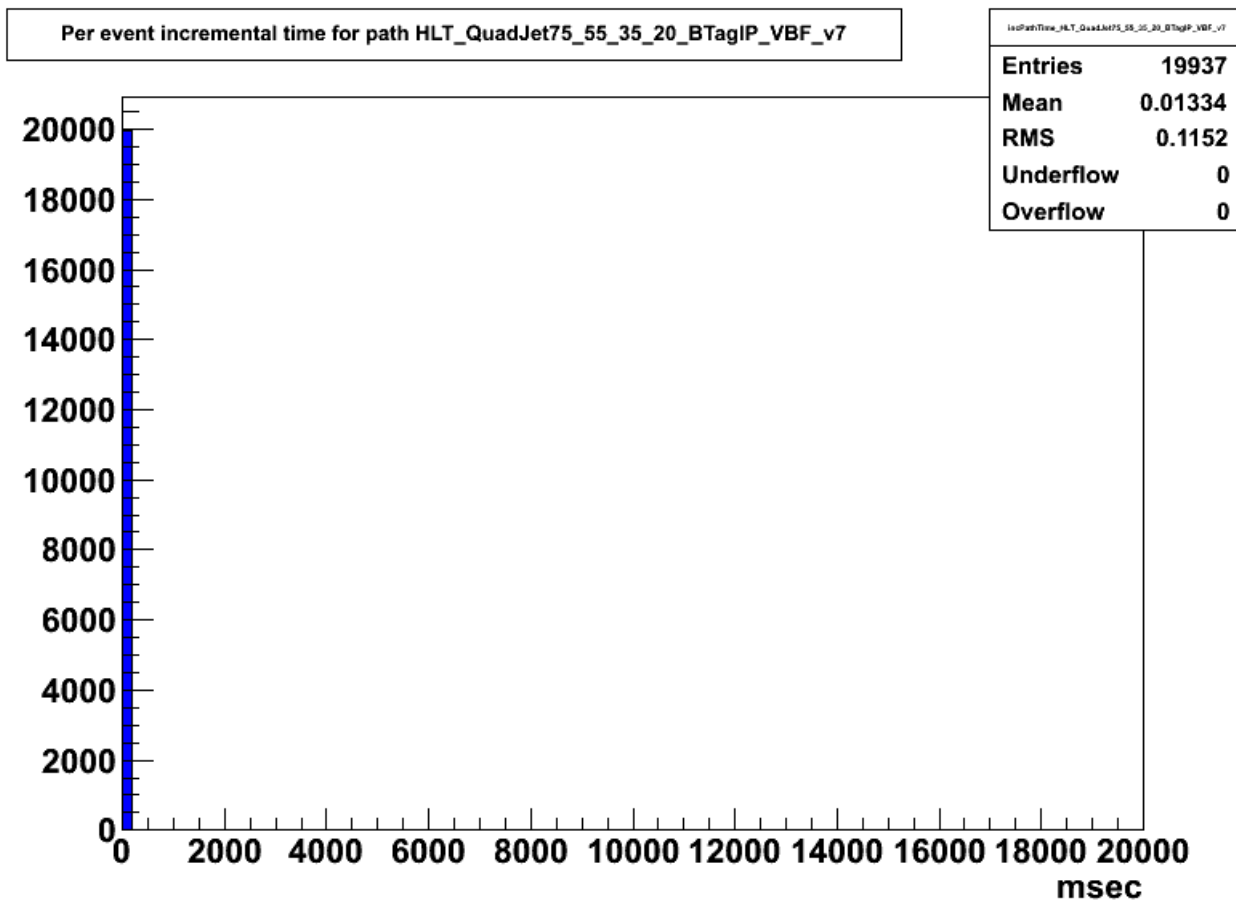
## 2.2 Average module in HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7 running time



## 2.3 Per event time for HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7

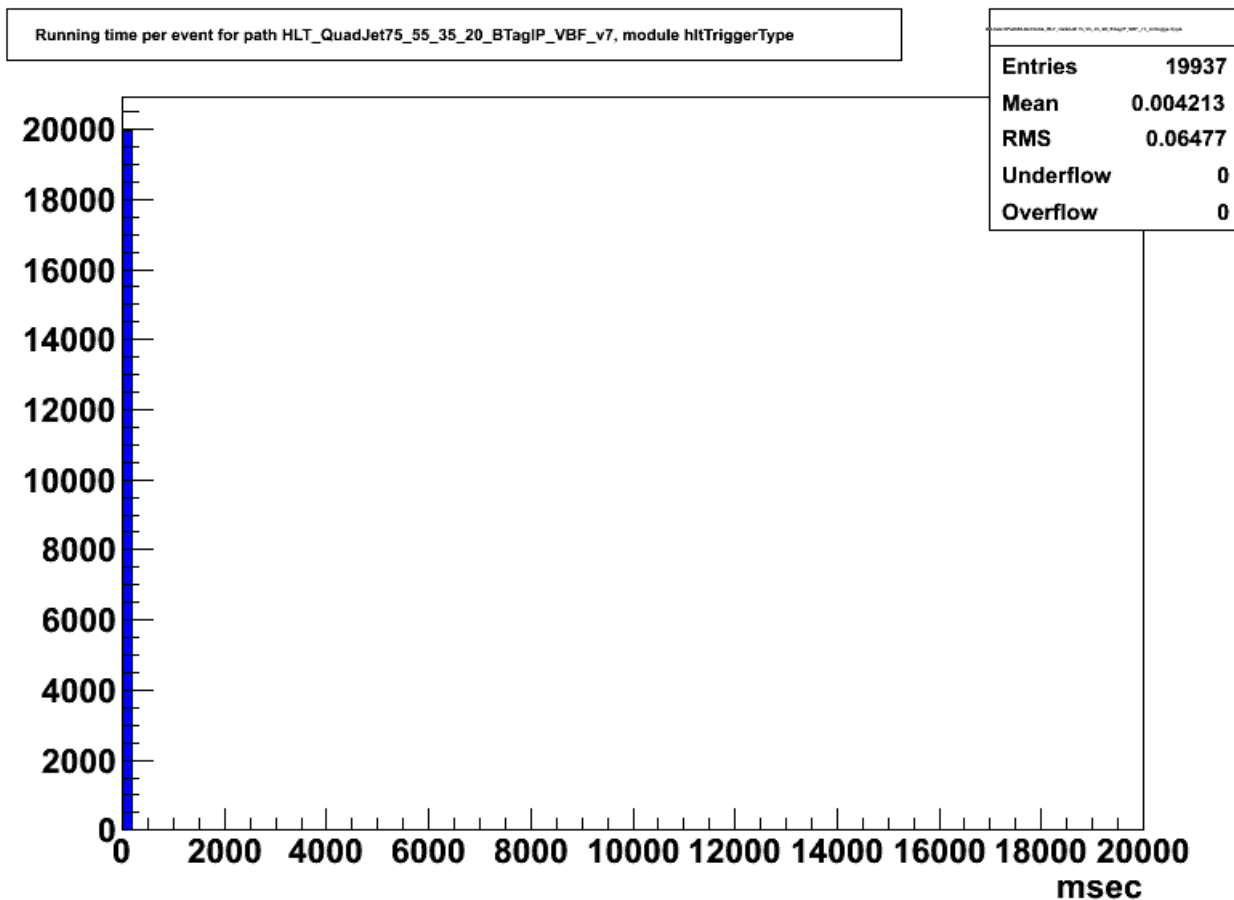


## 2.4 Per event incremental time for HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7



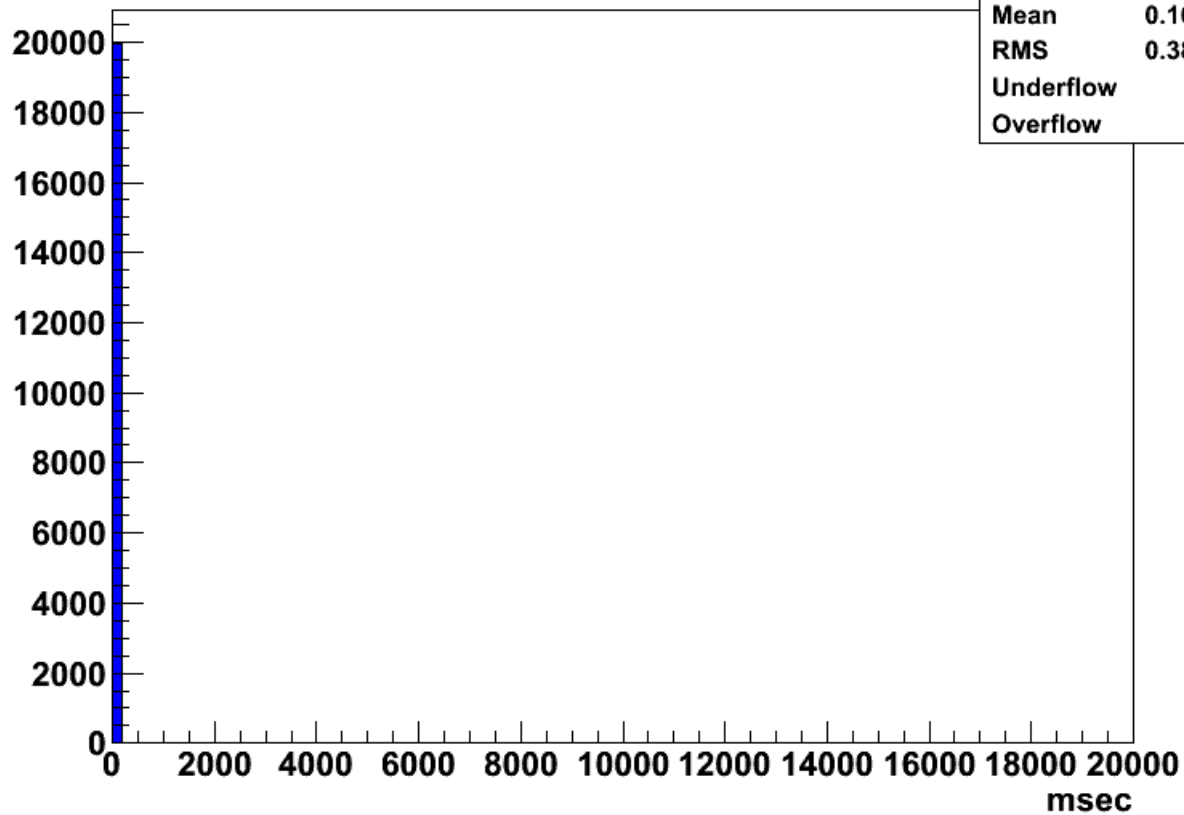
## 2.5 Running time per event for HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7

### 2.5.1 hltTriggerType



## 2.5.2 csctfDigis

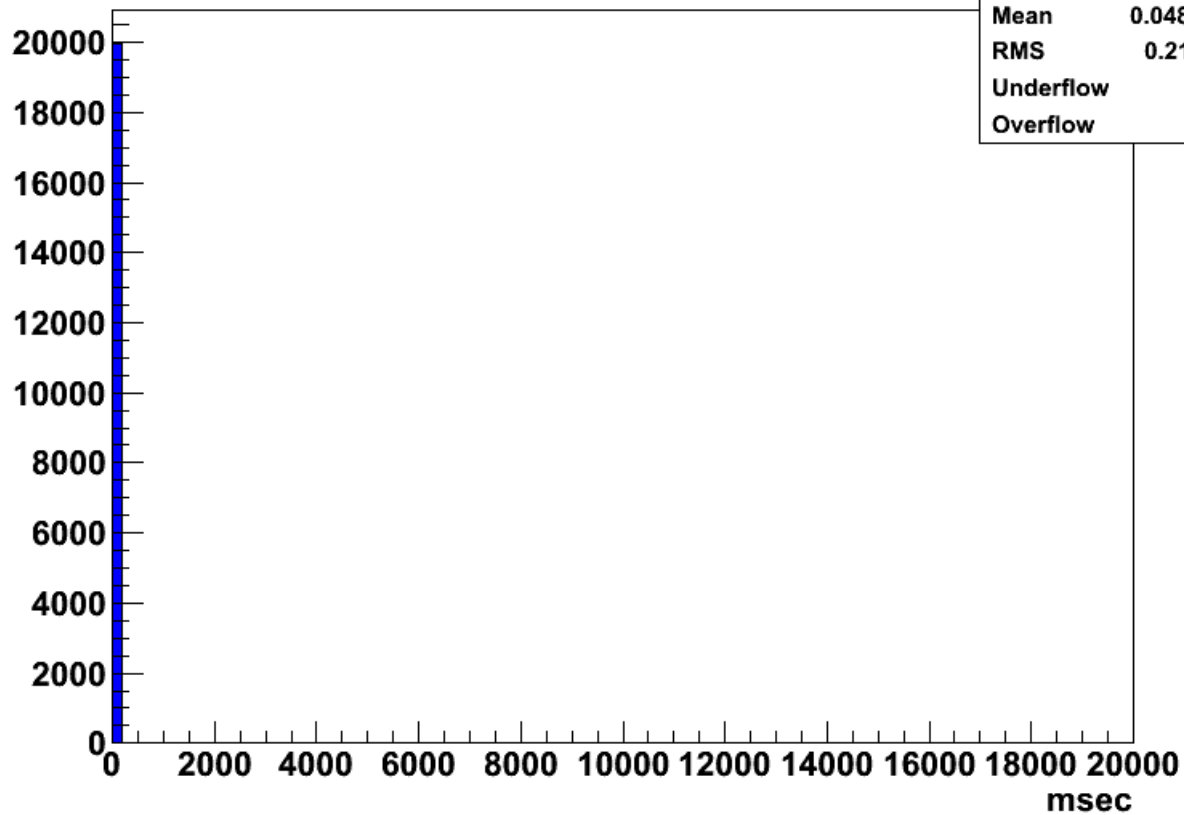
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module csctfDigis



Entries	19937
Mean	0.1693
RMS	0.3855
Underflow	0
Overflow	0

### 2.5.3 dttfDigis

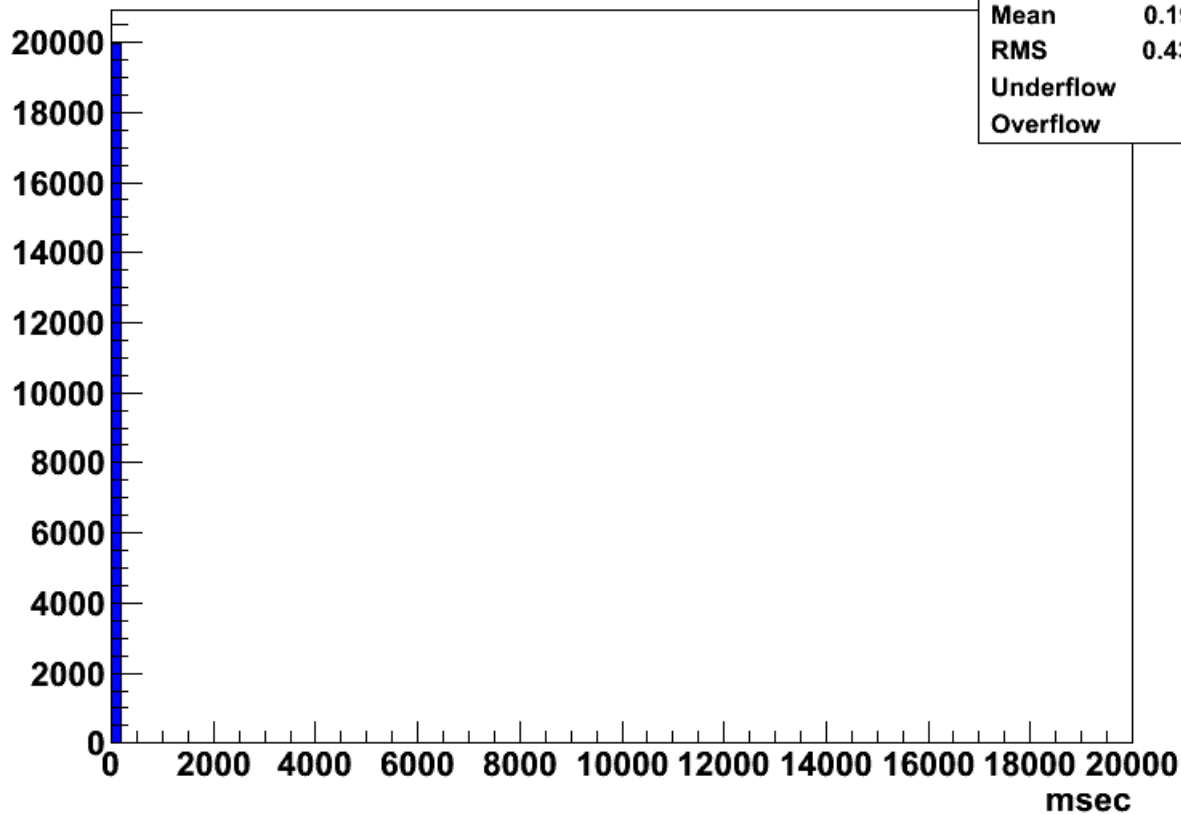
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module dttfDigis



module#HistogramName: HLT_QuadJet75_55_35_20_BTagIP_VBF_v7_dttfDigis	
<b>Entries</b>	<b>19937</b>
<b>Mean</b>	<b>0.04829</b>
<b>RMS</b>	<b>0.2195</b>
<b>Underflow</b>	<b>0</b>
<b>Overflow</b>	<b>0</b>

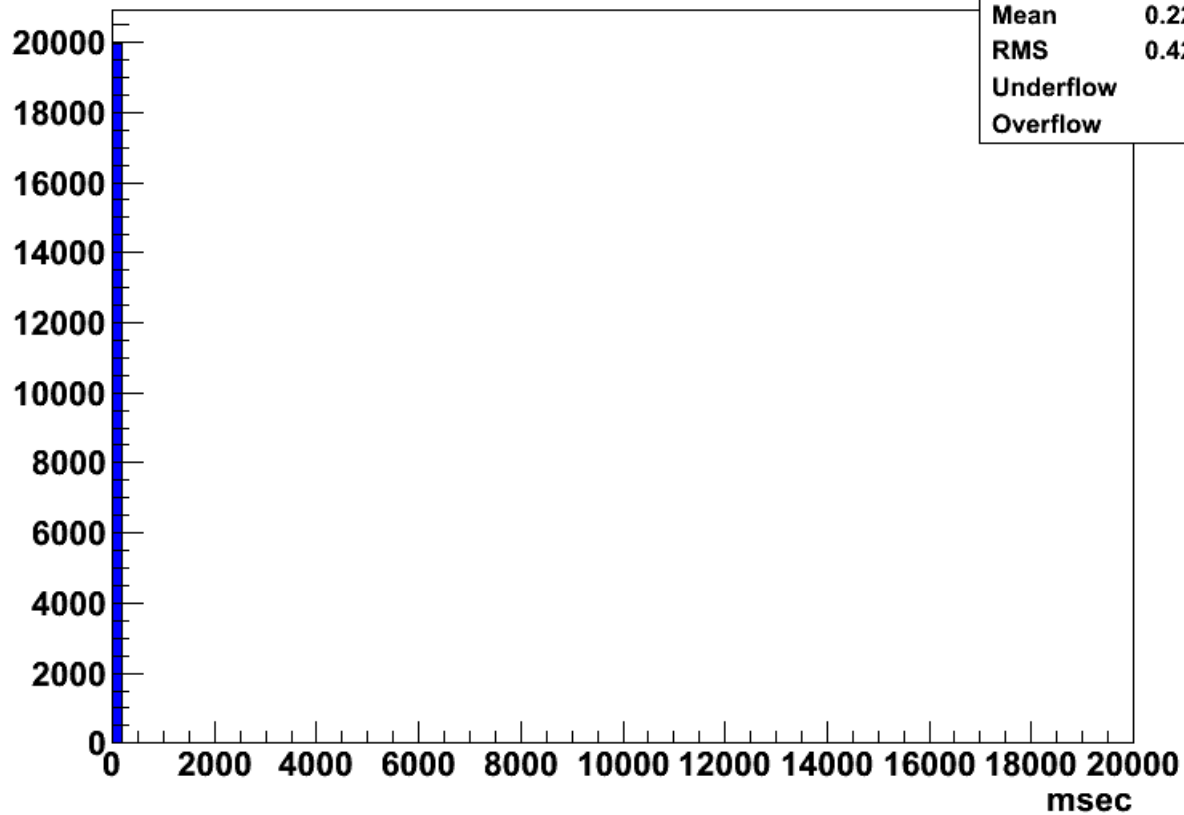
## 2.5.4 gctDigis

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module gctDigis



## 2.5.5 gtDigis

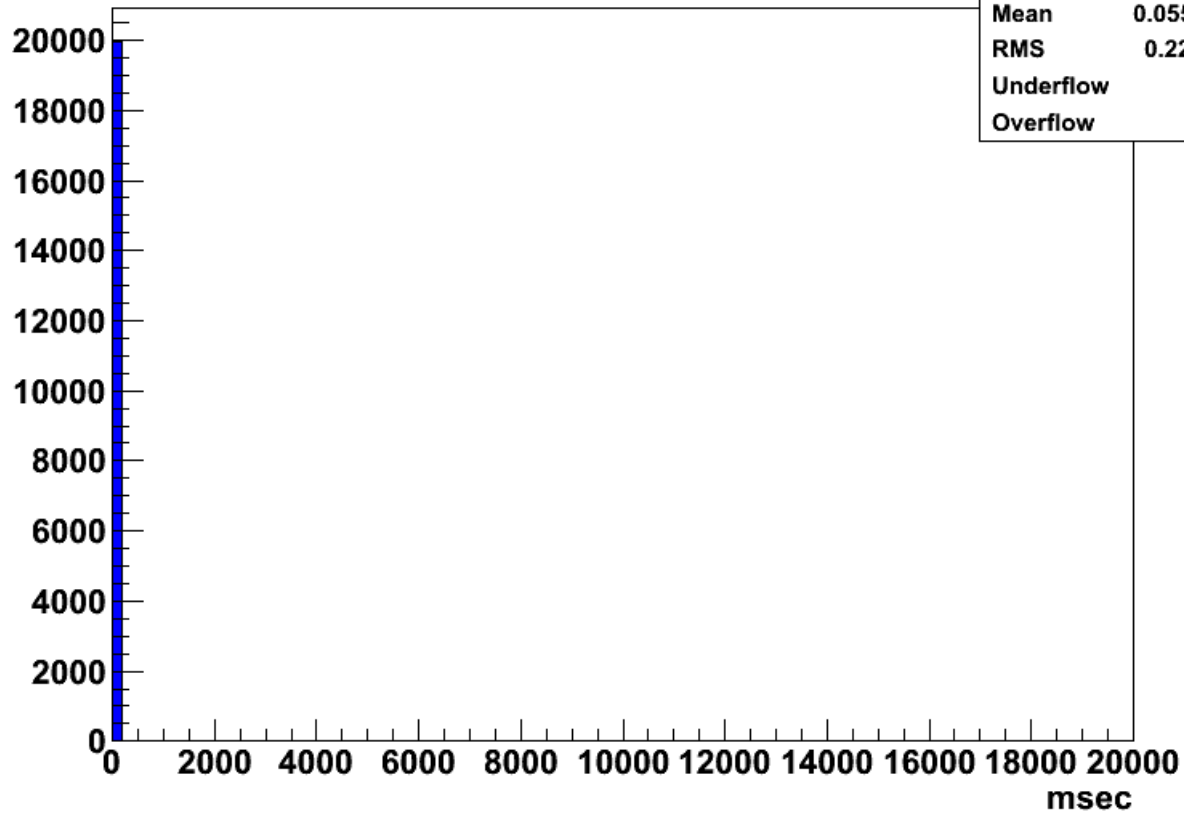
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module gtDigis





## 2.5.6 gtEvmDigis

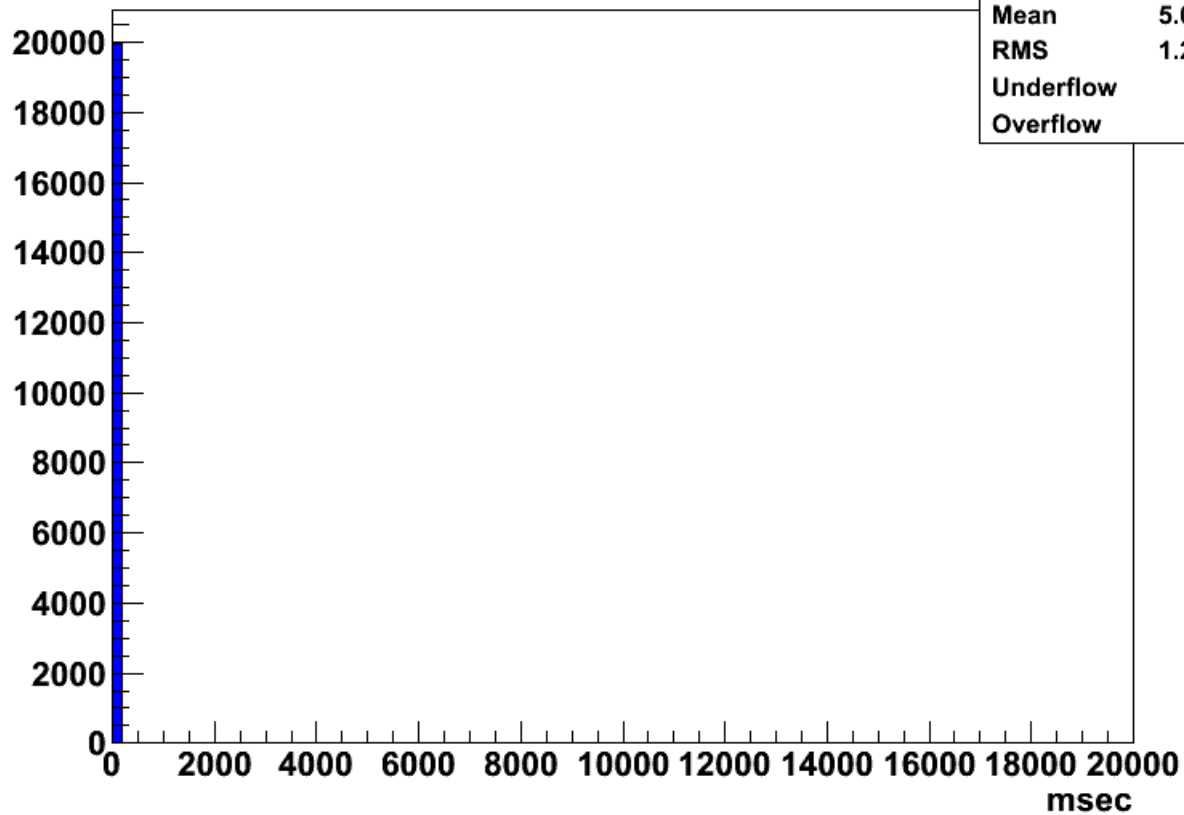
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module gtEvmDigis



Entries	19937
Mean	0.05501
RMS	0.2286
Underflow	0
Overflow	0

## 2.5.7 siPixelDigis

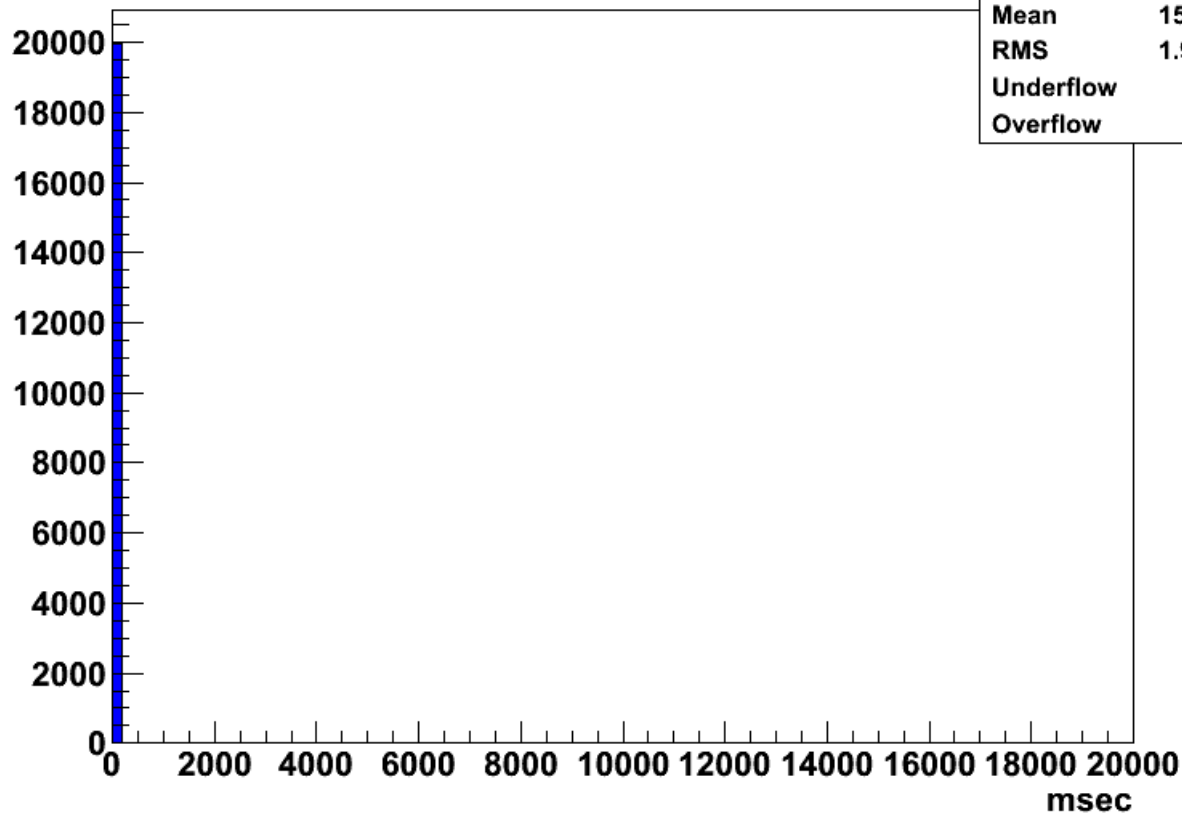
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module siPixelDigis



Entries	19937
Mean	5.069
RMS	1.246
Underflow	0
Overflow	0

## 2.5.8 siStripDigis

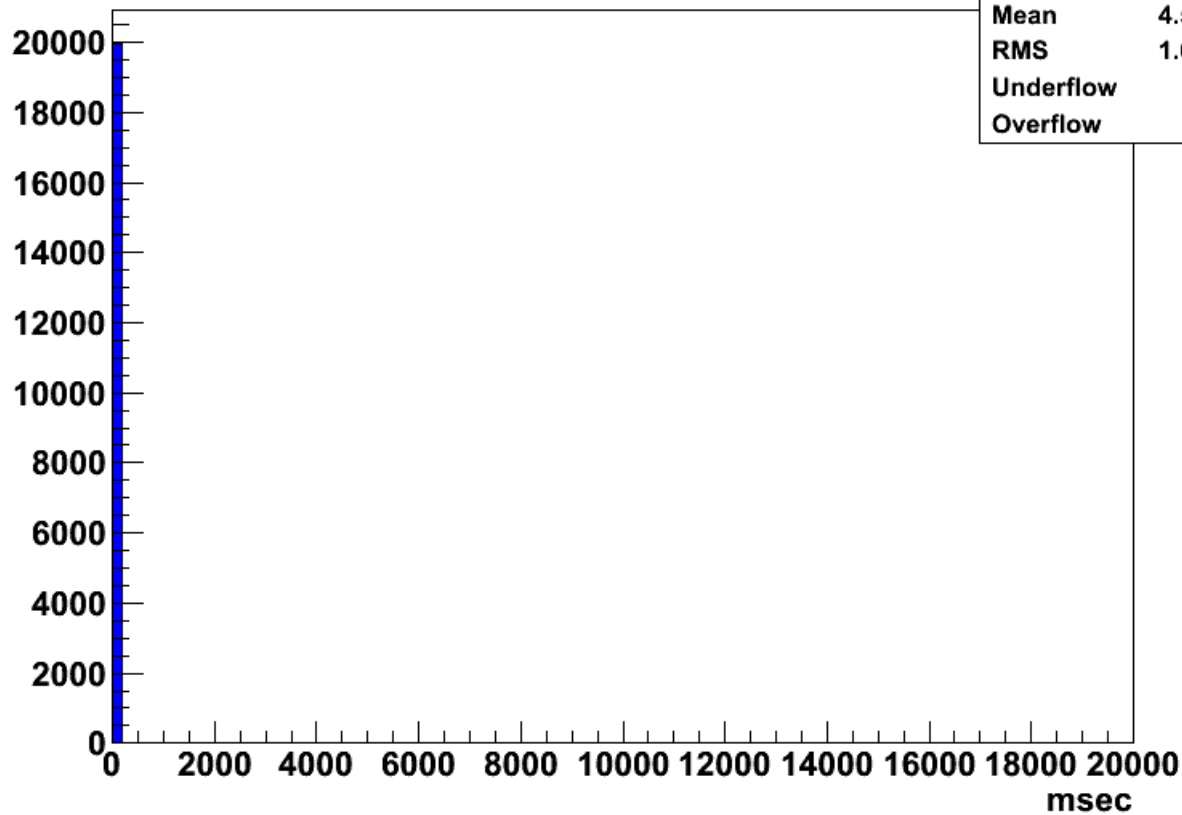
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module siStripDigis



Entries	19937
Mean	15.07
RMS	1.943
Underflow	0
Overflow	0

## 2.5.9 ecalDigis

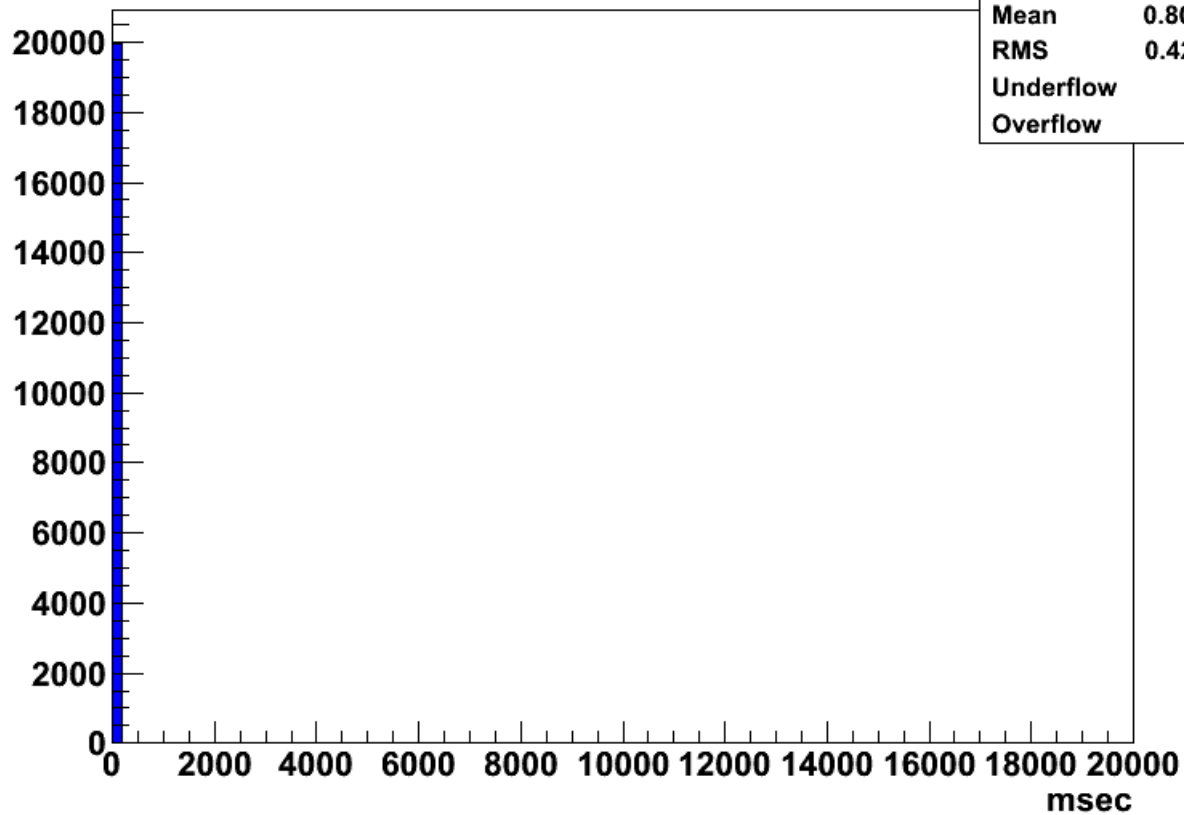
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module ecalDigis



module# ecalDigis, HLT_QuadJet75_55_35_20_BTagIP_VBF_v7, ecalDigis	
<b>Entries</b>	<b>19937</b>
<b>Mean</b>	<b>4.506</b>
<b>RMS</b>	<b>1.616</b>
<b>Underflow</b>	<b>0</b>
<b>Overflow</b>	<b>0</b>

## 2.5.10 ecalPreshowerDigis

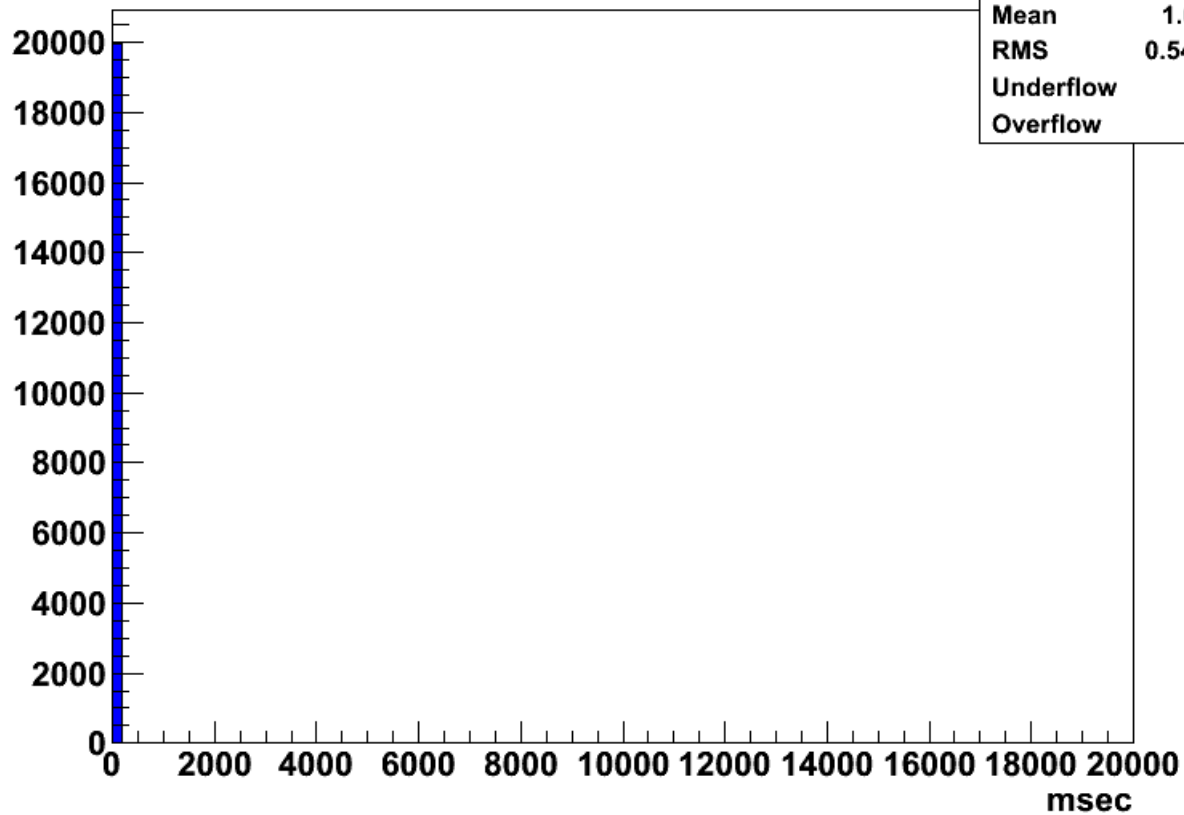
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module ecalPreshowerDigis



Entries	19937
Mean	0.8014
RMS	0.4212
Underflow	0
Overflow	0

## 2.5.11 hcalDigis

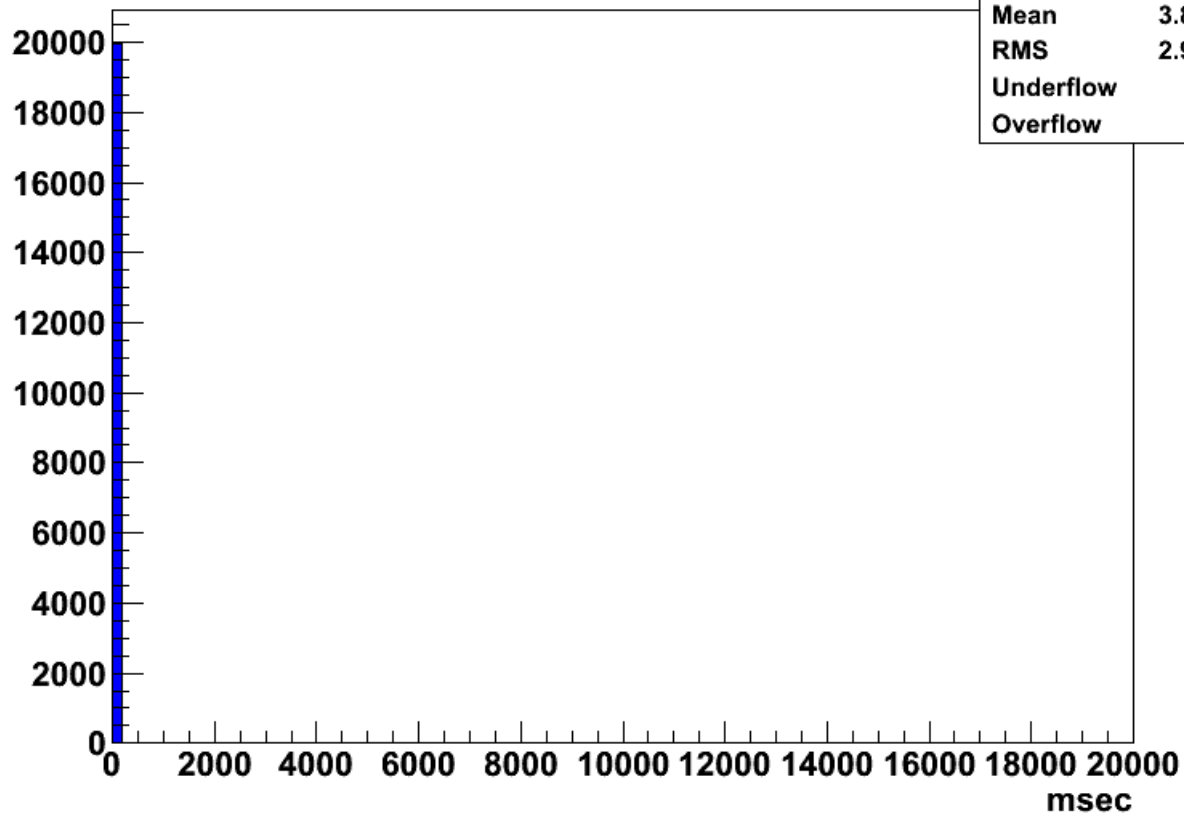
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hcalDigis



Entries	19937
Mean	1.601
RMS	0.5413
Underflow	0
Overflow	0

## 2.5.12 muonCSCDigis

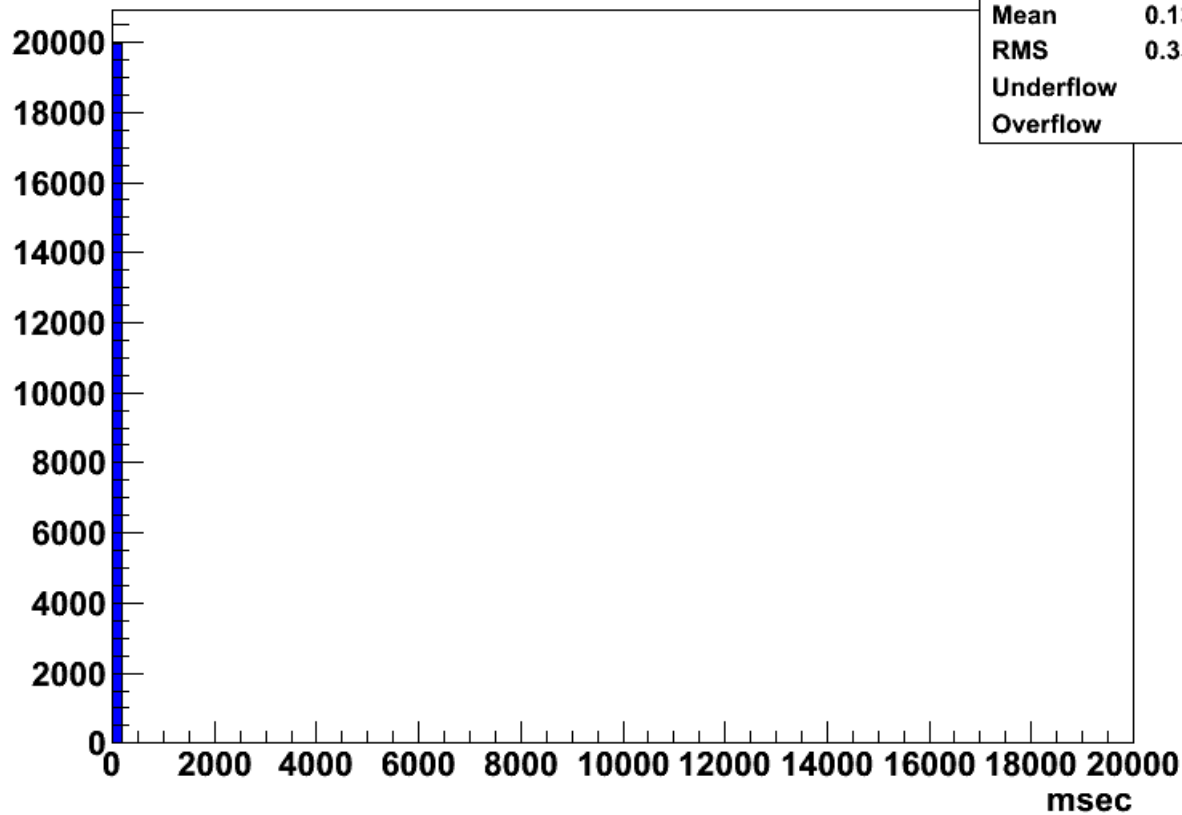
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module muonCSCDigis



<b>Entries</b>	<b>19937</b>
<b>Mean</b>	<b>3.852</b>
<b>RMS</b>	<b>2.944</b>
<b>Underflow</b>	<b>0</b>
<b>Overflow</b>	<b>0</b>

### 2.5.13 muonDTDigis

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module muonDTDigis

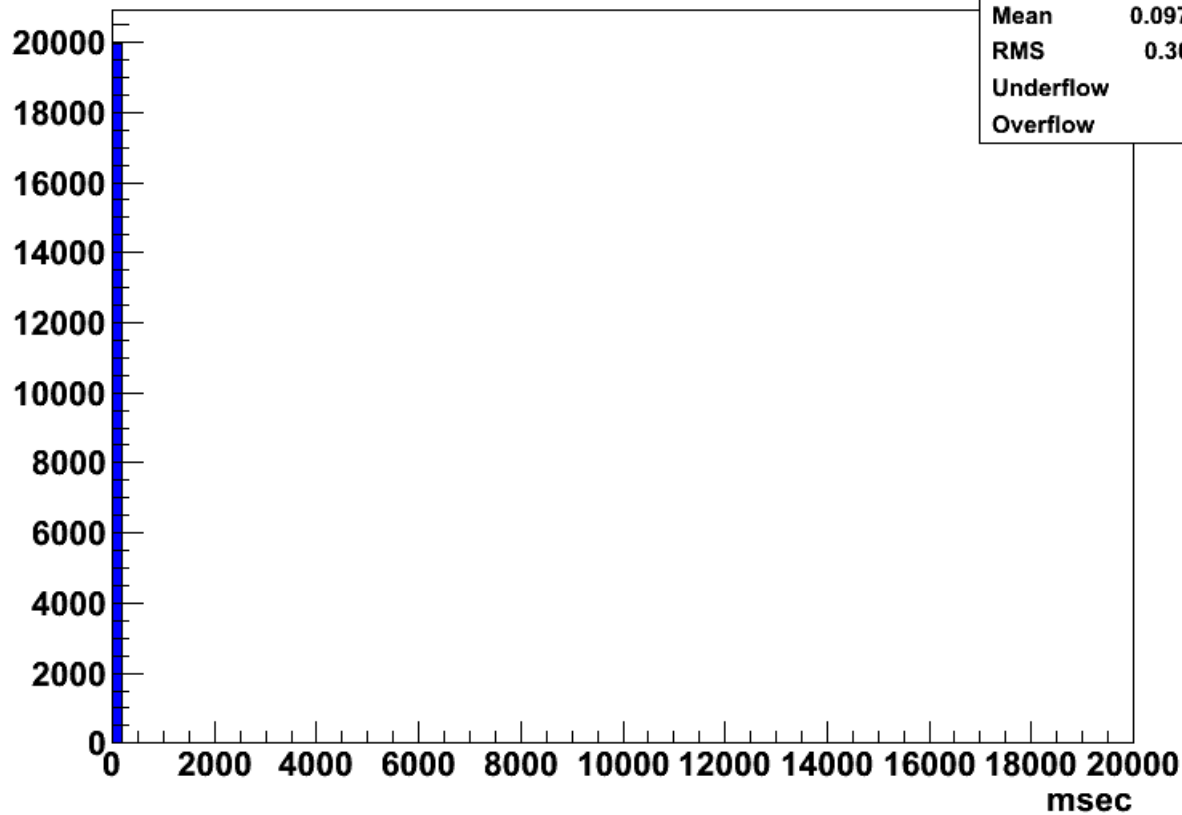


Entries	19937
Mean	0.1363
RMS	0.3553
Underflow	0
Overflow	0



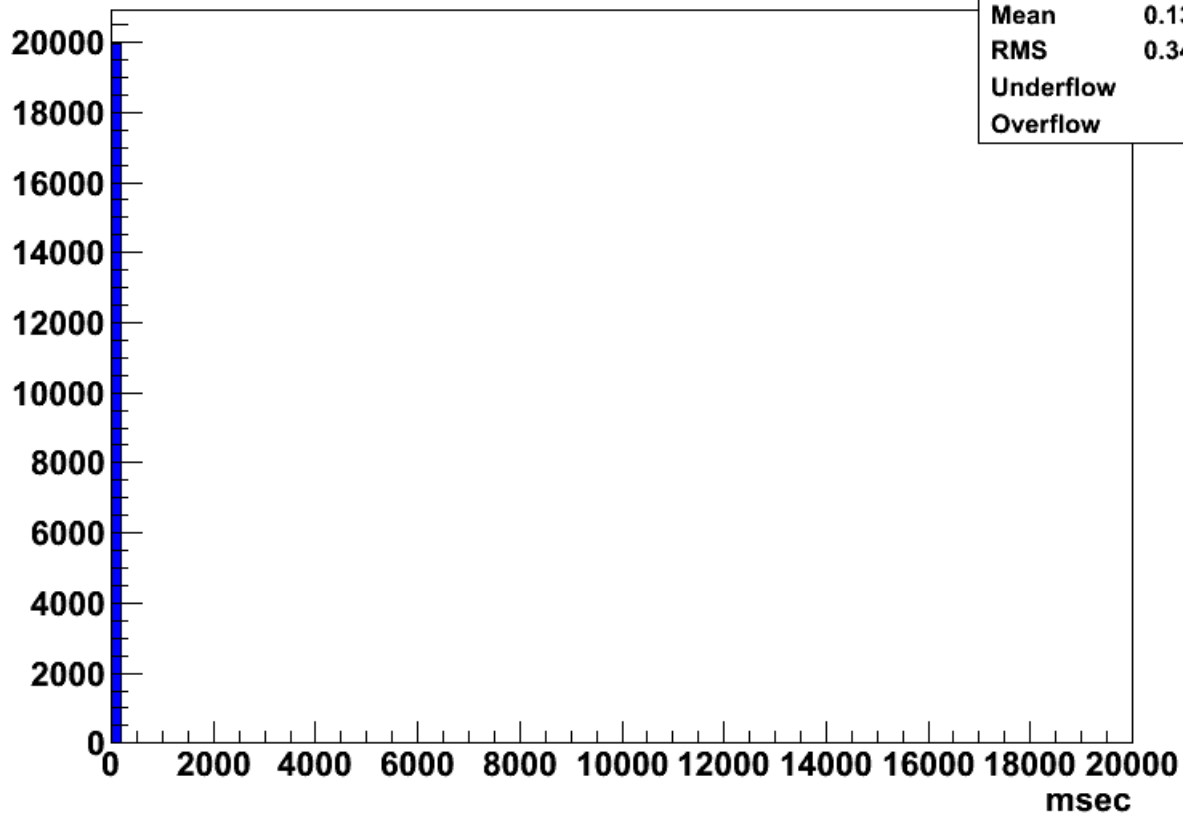
## 2.5.14 muonRPCDigis

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module muonRPCDigis



## 2.5.15 castorDigis

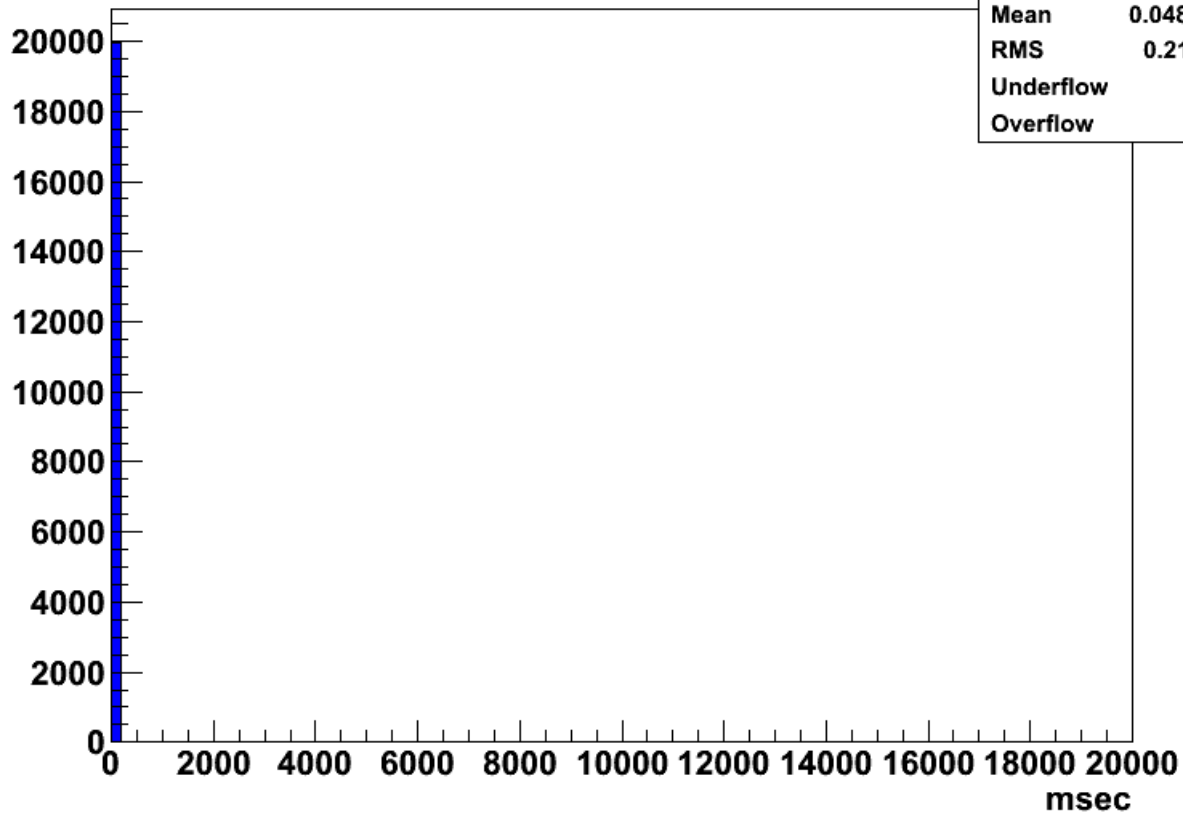
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module castorDigis



Entries	19937
Mean	0.1339
RMS	0.3467
Underflow	0
Overflow	0

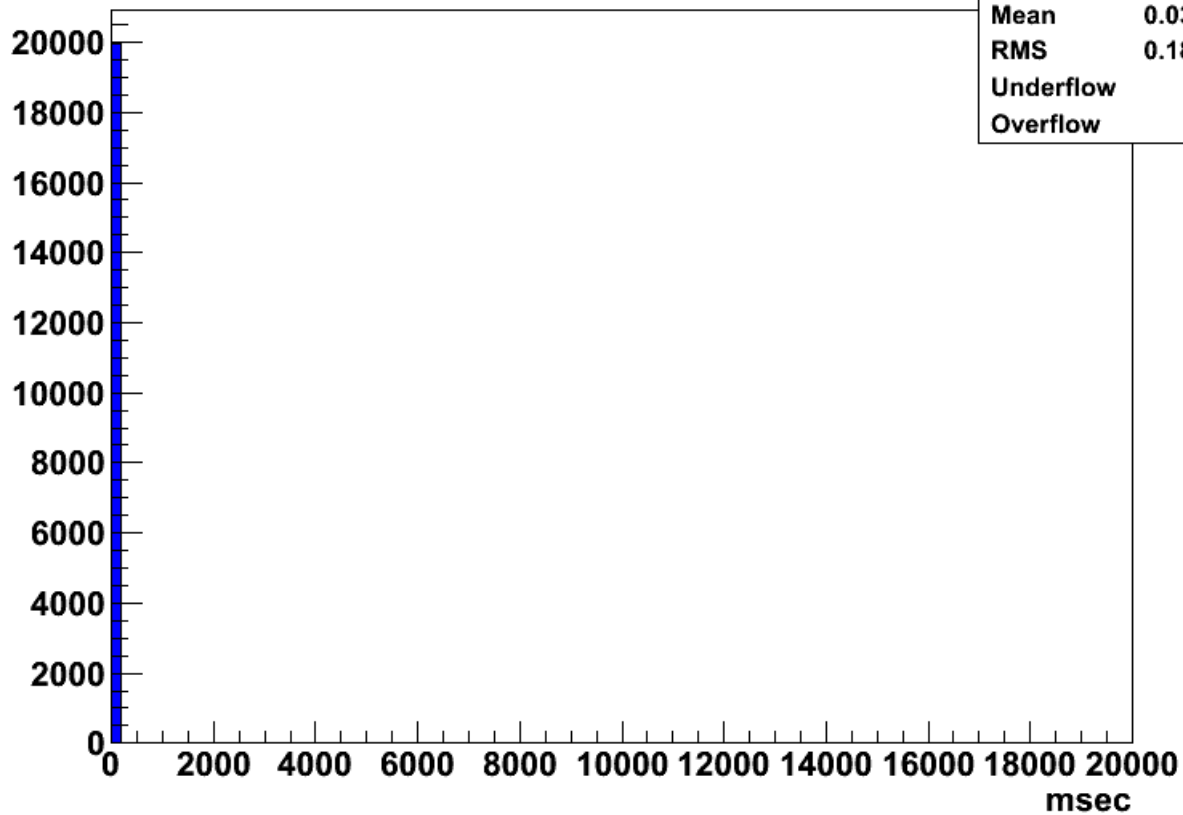
## 2.5.16 scalersRawToDigi

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module scalersRawToDigi



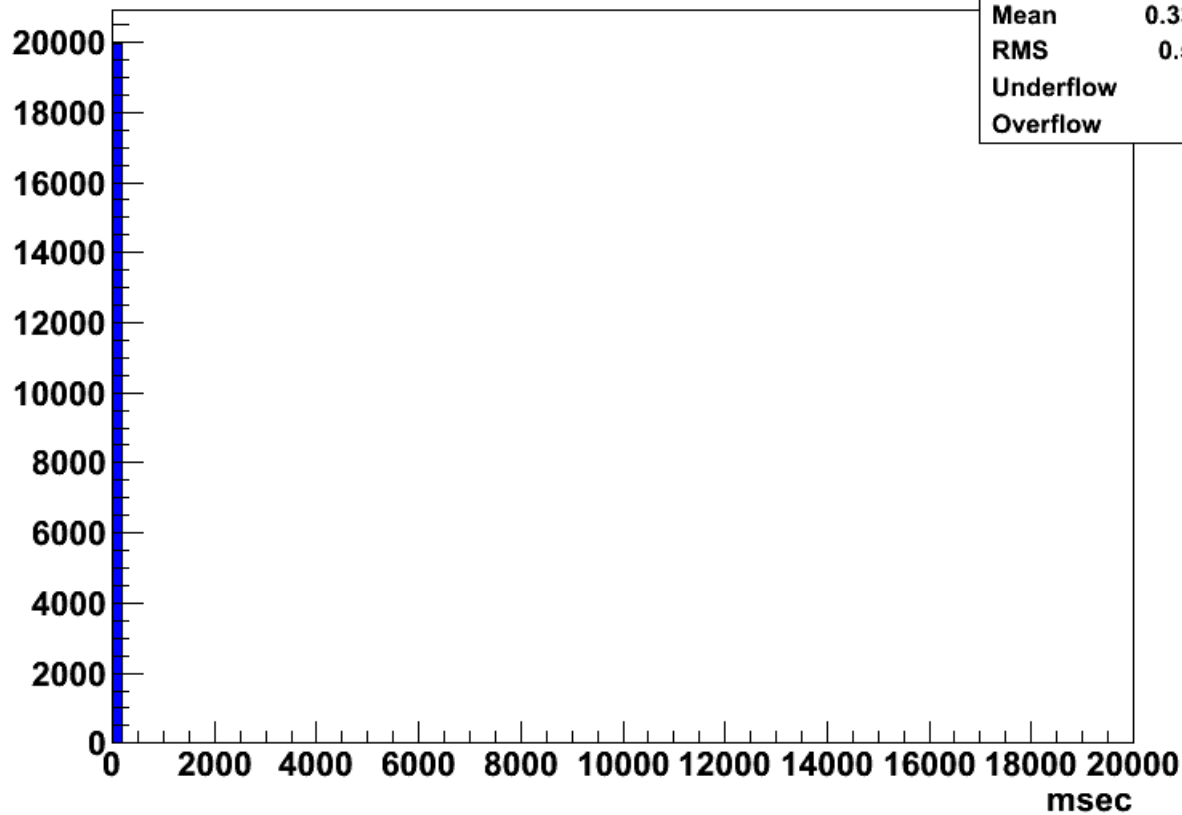
## 2.5.17 simBscDigis

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module simBscDigis



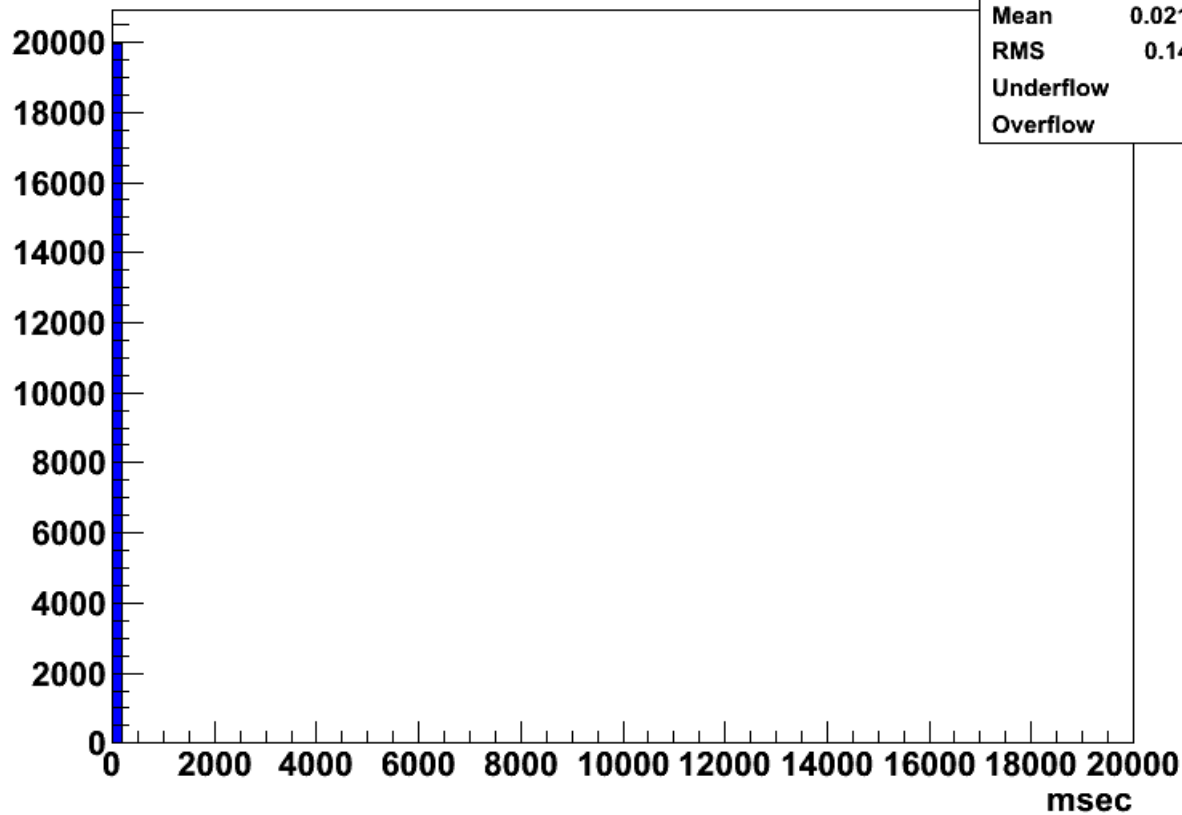
## 2.5.18 simRpcTechTrigDigis

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module simRpcTechTrigDigis



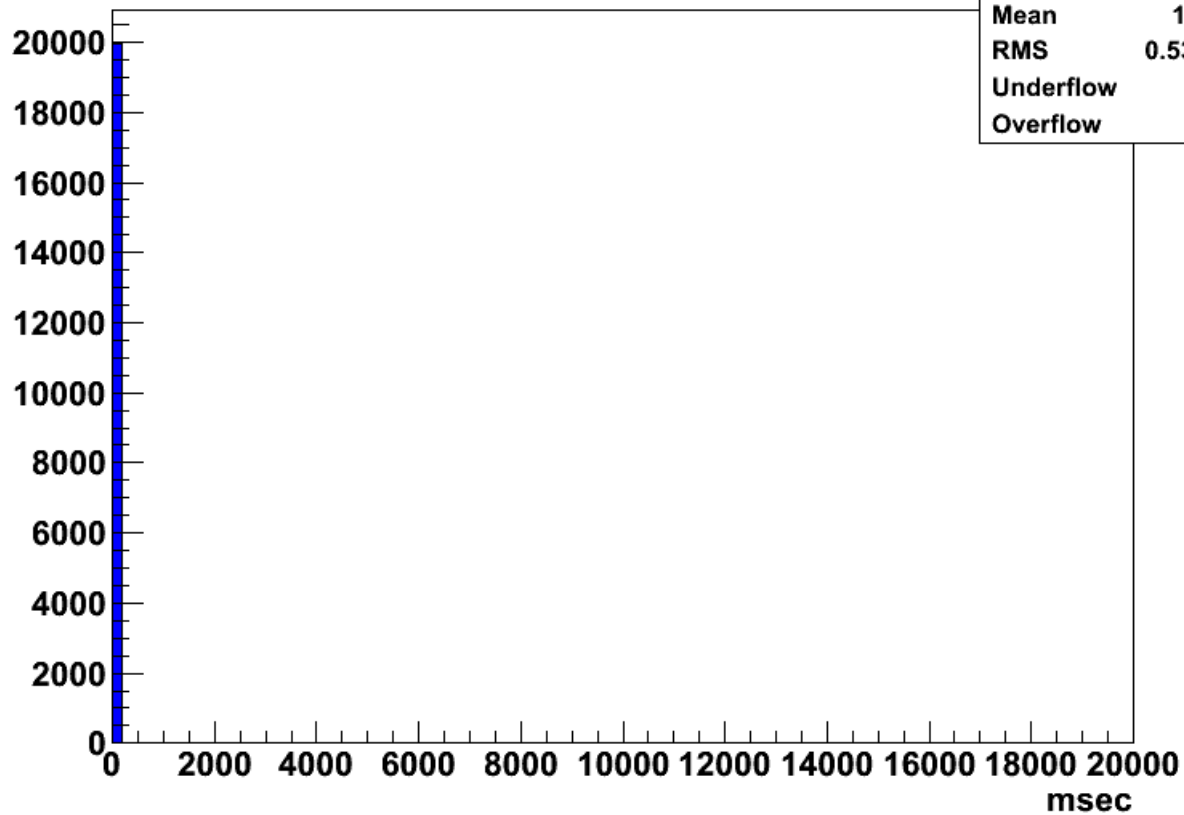
## 2.5.19 simHcalTechTrigDigis

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module simHcalTechTrigDigis



## 2.5.20 simGtDigis

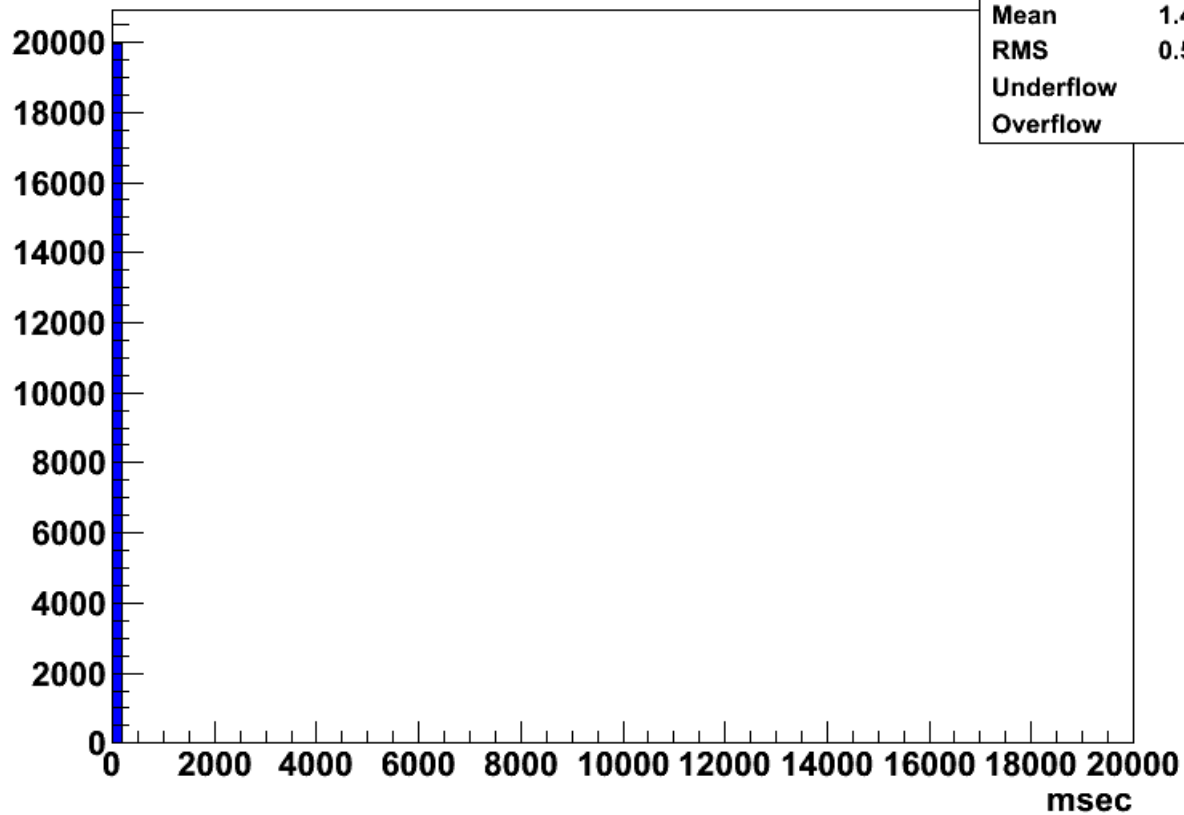
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module simGtDigis



Entries	19937
Mean	1.64
RMS	0.5309
Underflow	0
Overflow	0

## 2.5.21 hltL1GtObjectMap

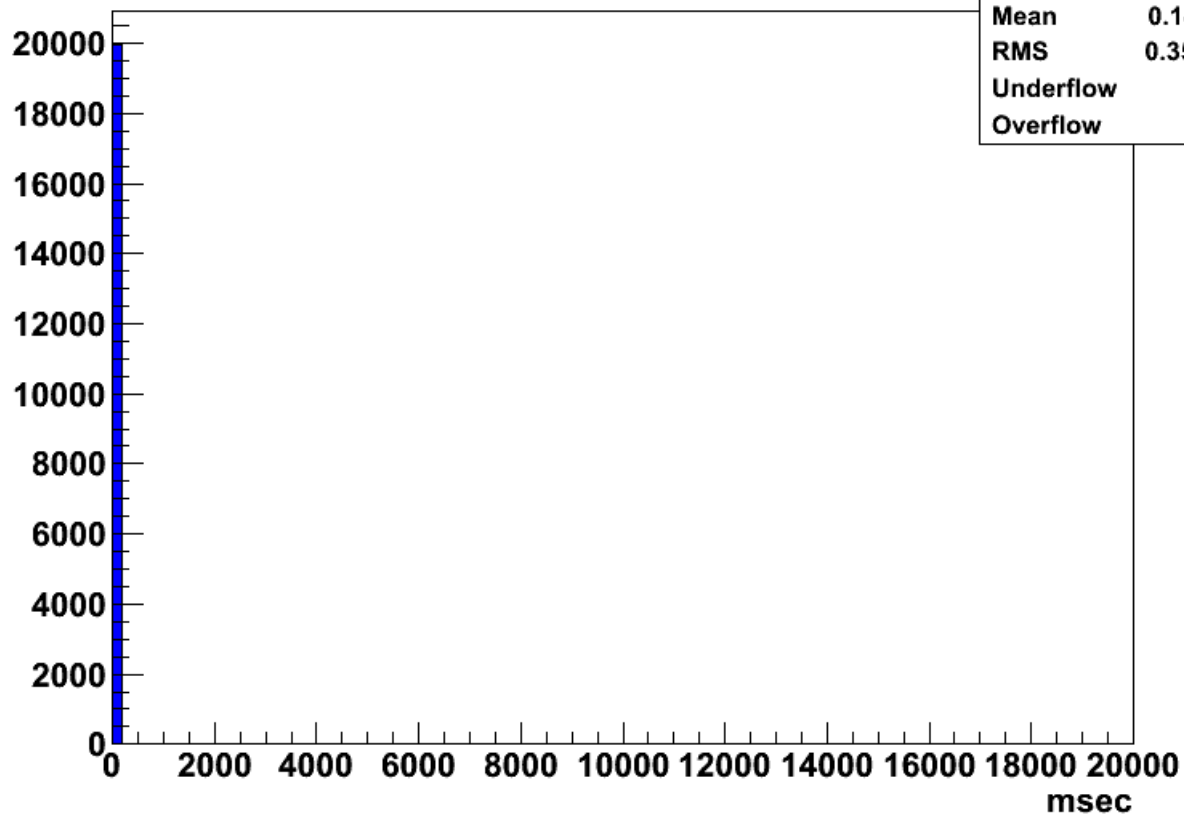
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltL1GtObjectMap





## 2.5.22 hltL1extraParticles

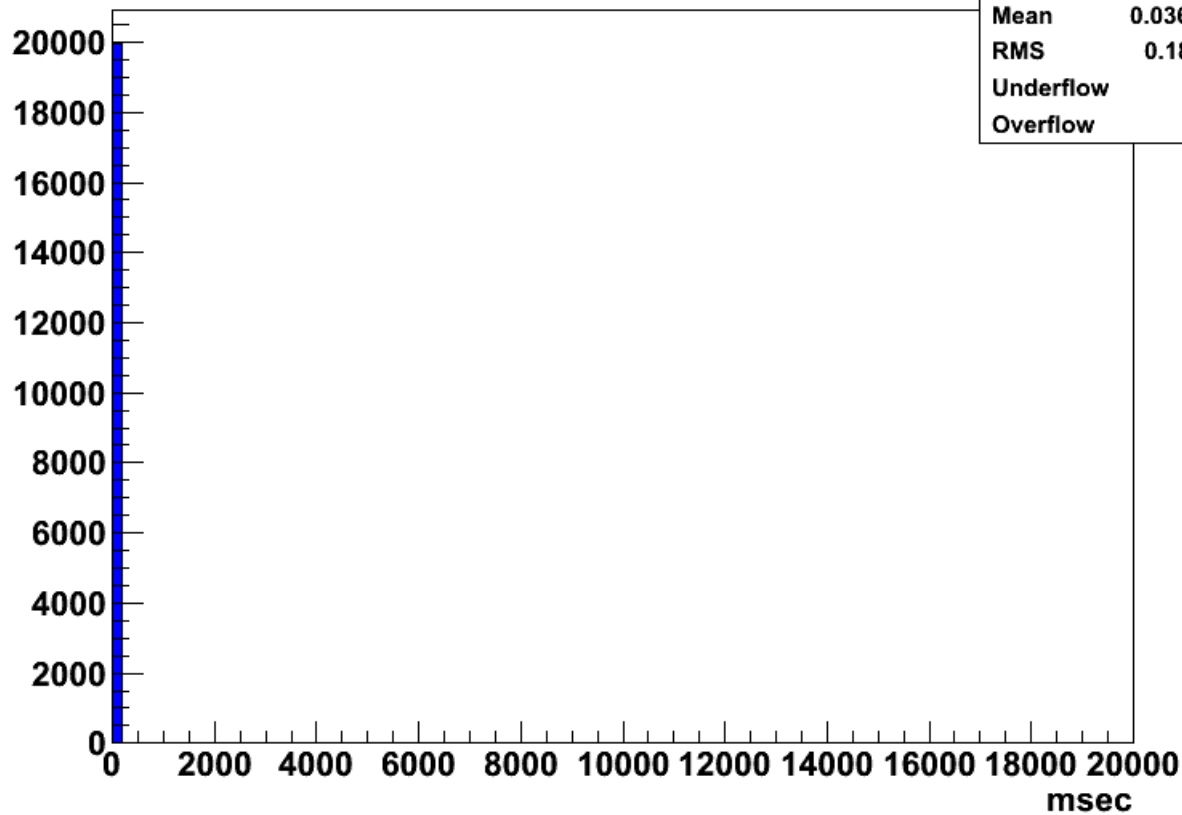
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltL1extraParticles



<b>Entries</b>	<b>19937</b>
<b>Mean</b>	<b>0.1401</b>
<b>RMS</b>	<b>0.3547</b>
<b>Underflow</b>	<b>0</b>
<b>Overflow</b>	<b>0</b>

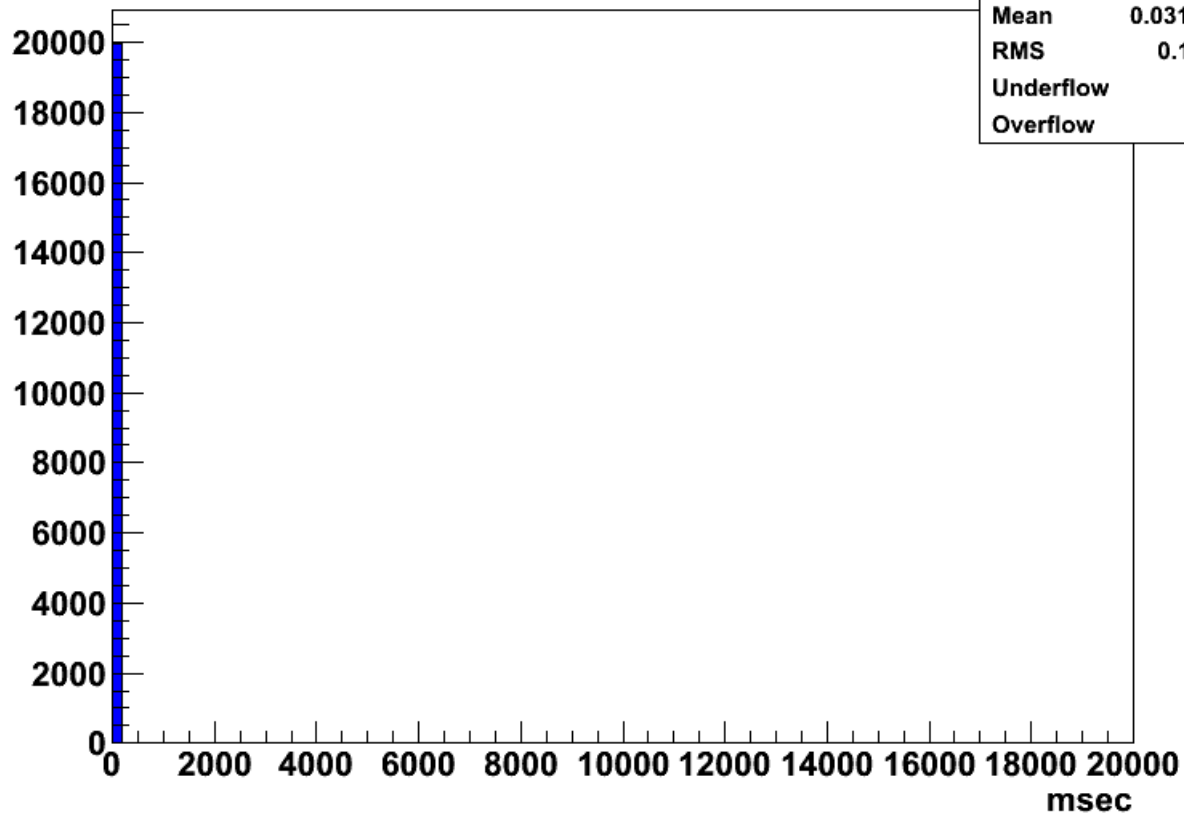
## 2.5.23 hltScalersRawToDigi

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltScalersRawToDigi



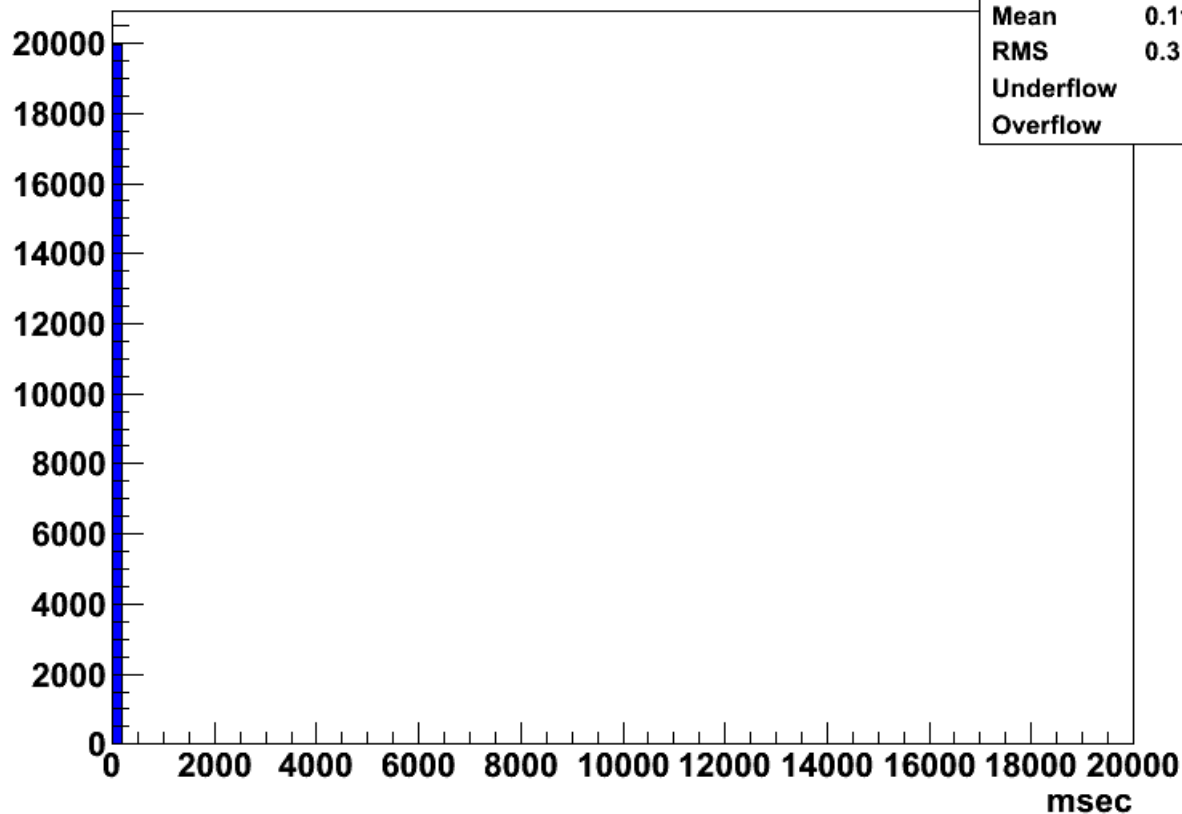
## 2.5.24 hltOnlineBeamSpot

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltOnlineBeamSpot



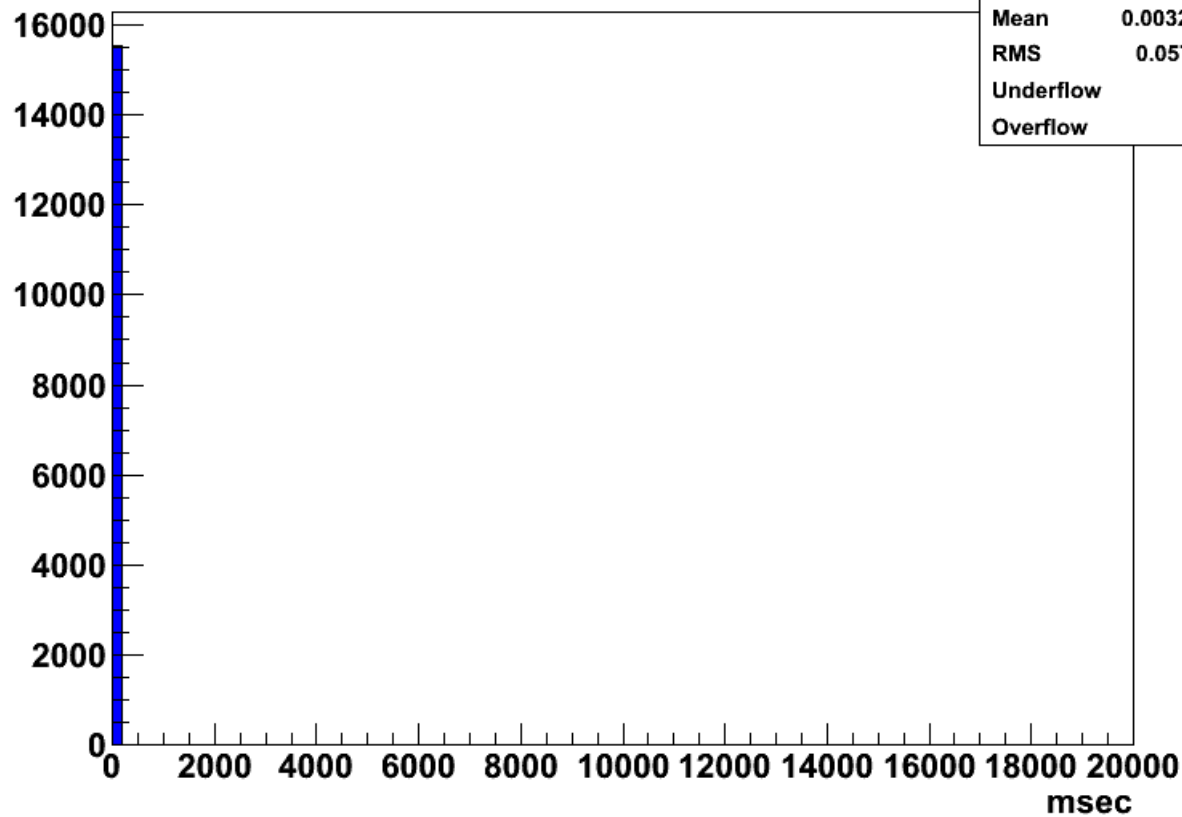
## 2.5.25 hltL1sL1TripleJet644424VBFORTripleJet644828VBFORTripleJet684832VBF

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltL1sL1TripleJet644424VBFORTripleJet644828VBFORTripleJet684832VBF



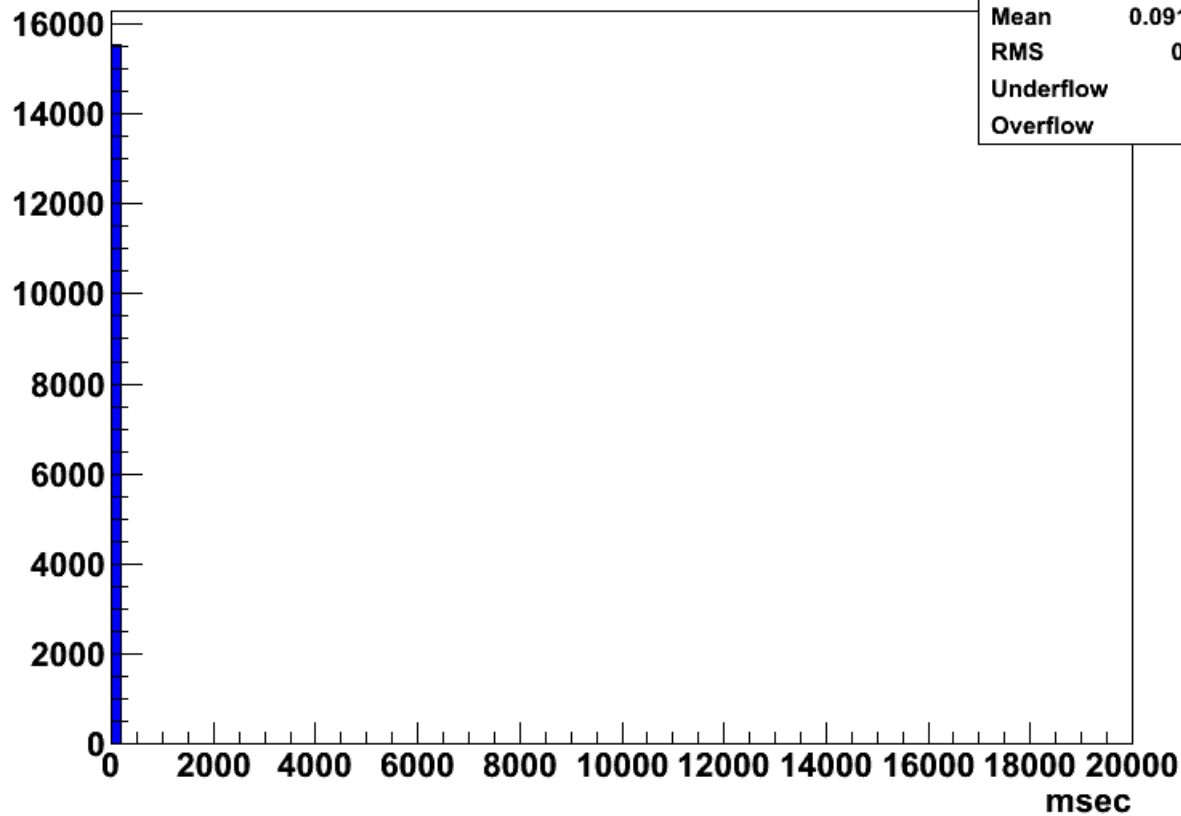
## 2.5.26 hltPreQuadJet75553520BTagIPVBF

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltPreQuadJet75553520BTagIPVBF



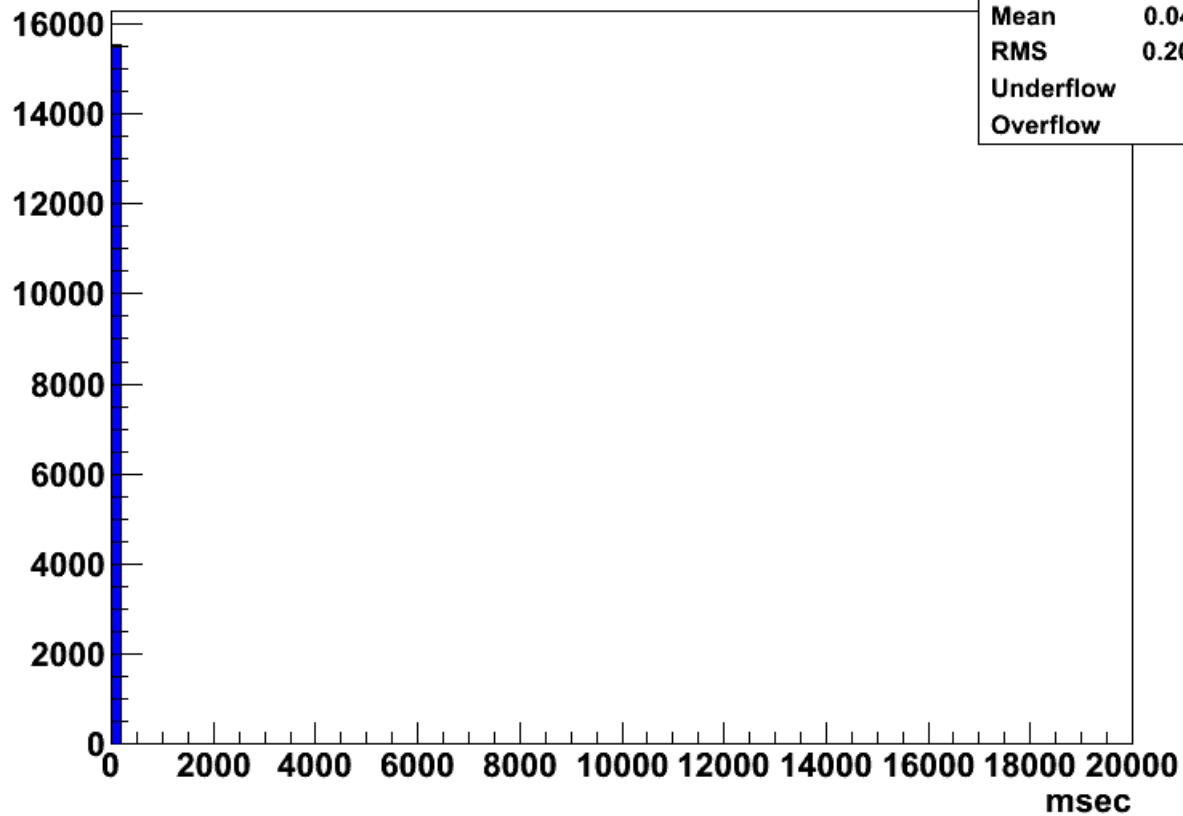
## 2.5.27 hltEcalRawToRecHitFacility

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltEcalRawToRecHitFacility



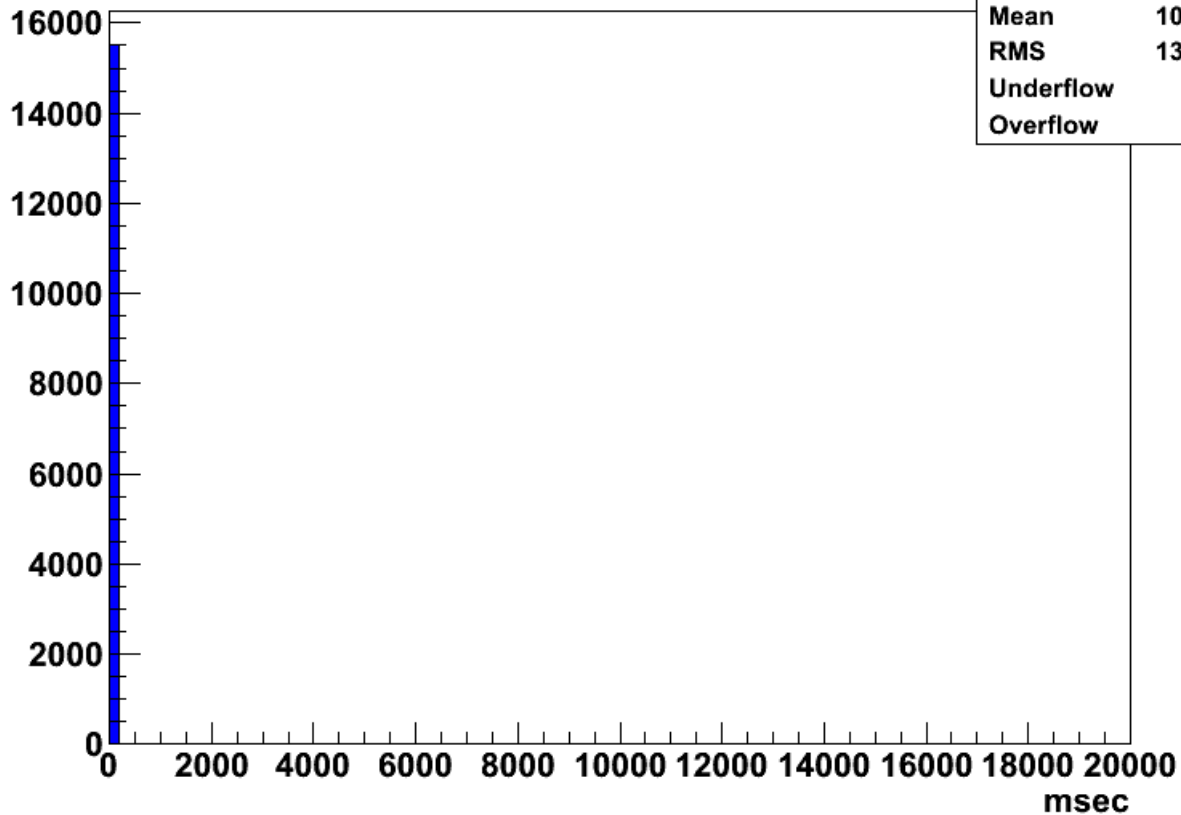
## 2.5.28 hltEcalRegionalRestFEDs

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltEcalRegionalRestFEDs



## 2.5.29 hltEcalRecHitAll

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltEcalRecHitAll

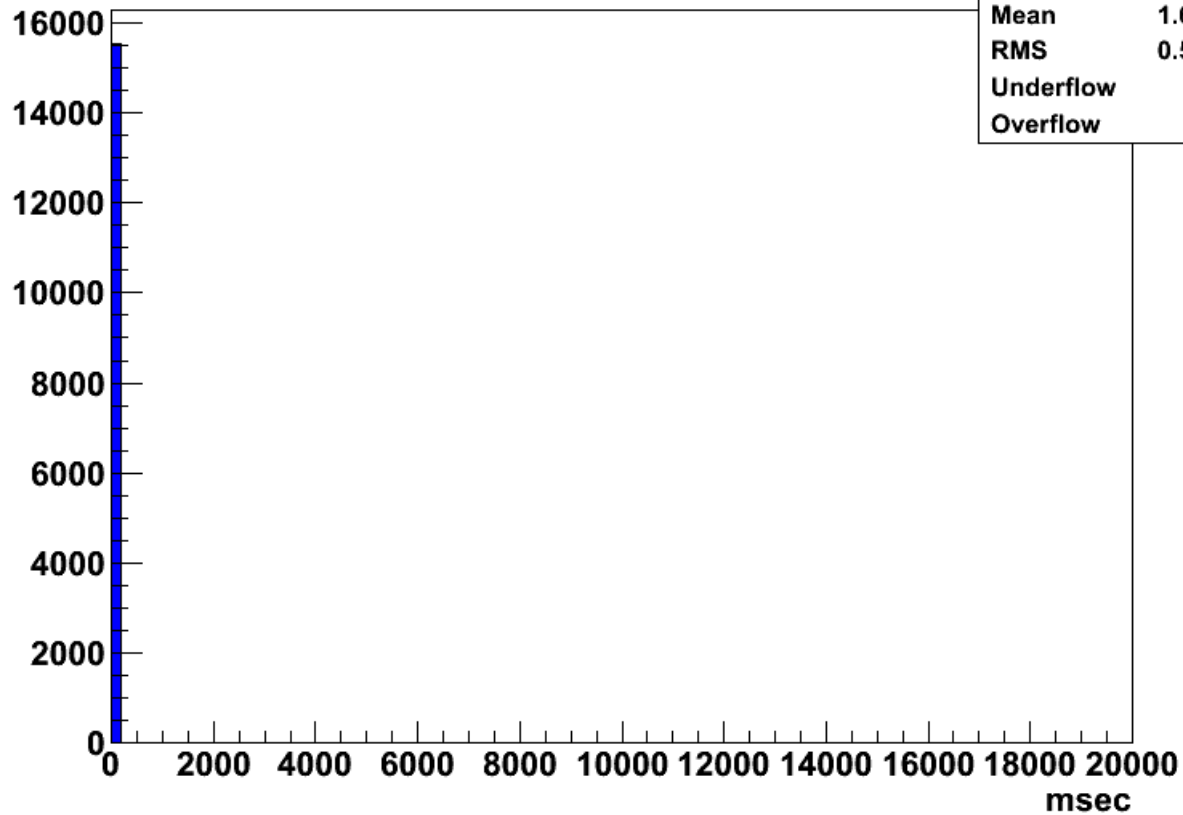


<b>Entries</b>	<b>15513</b>
<b>Mean</b>	<b>10.64</b>
<b>RMS</b>	<b>13.03</b>
<b>Underflow</b>	<b>0</b>
<b>Overflow</b>	<b>0</b>



## 2.5.30 hltHcalDigis

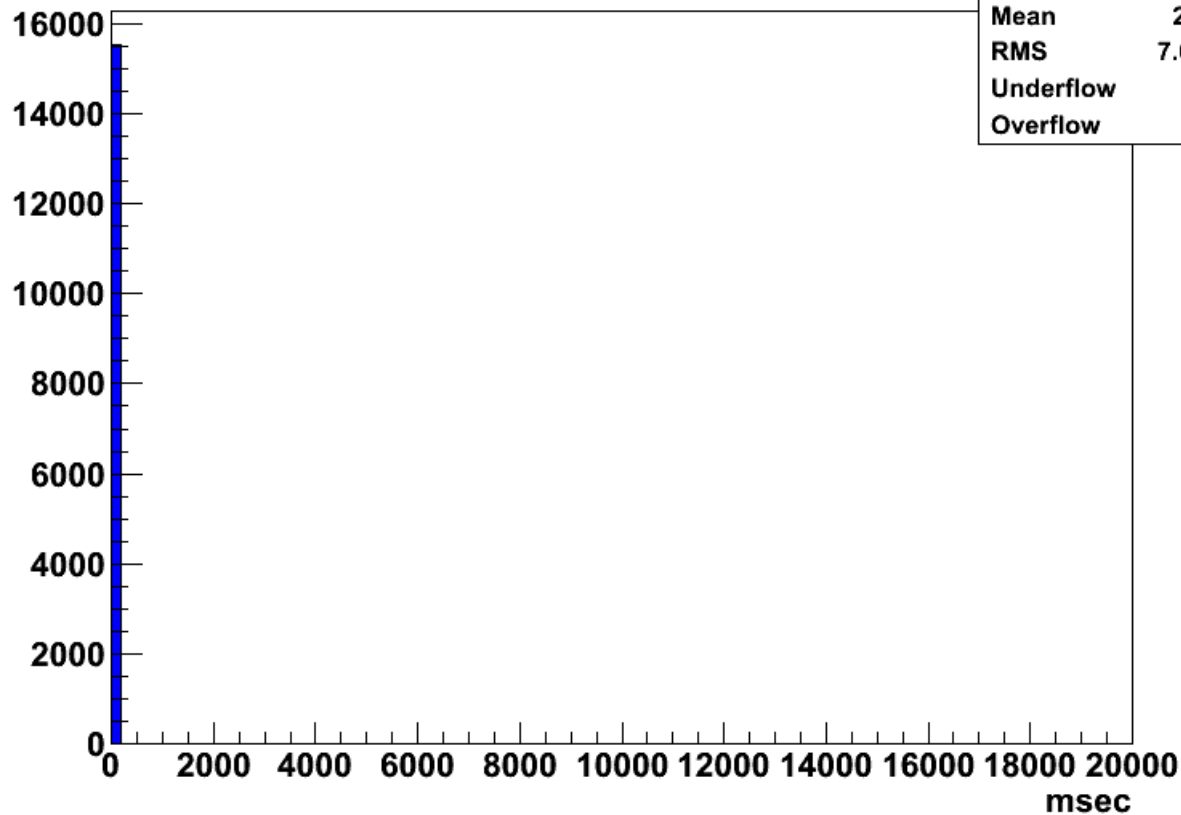
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltHcalDigis



Entries	15513
Mean	1.615
RMS	0.502
Underflow	0
Overflow	0

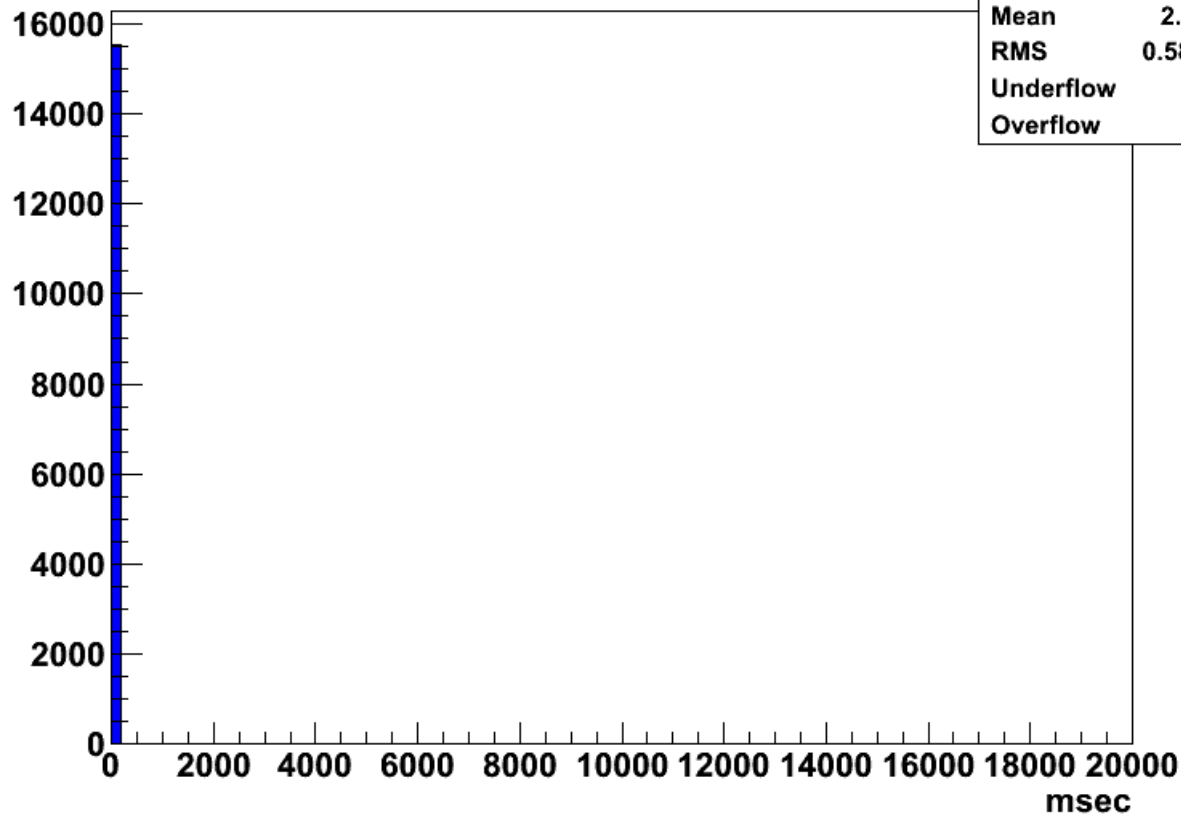
## 2.5.31 hltHbhereco

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltHbhereco



### 2.5.32 hltHfreco

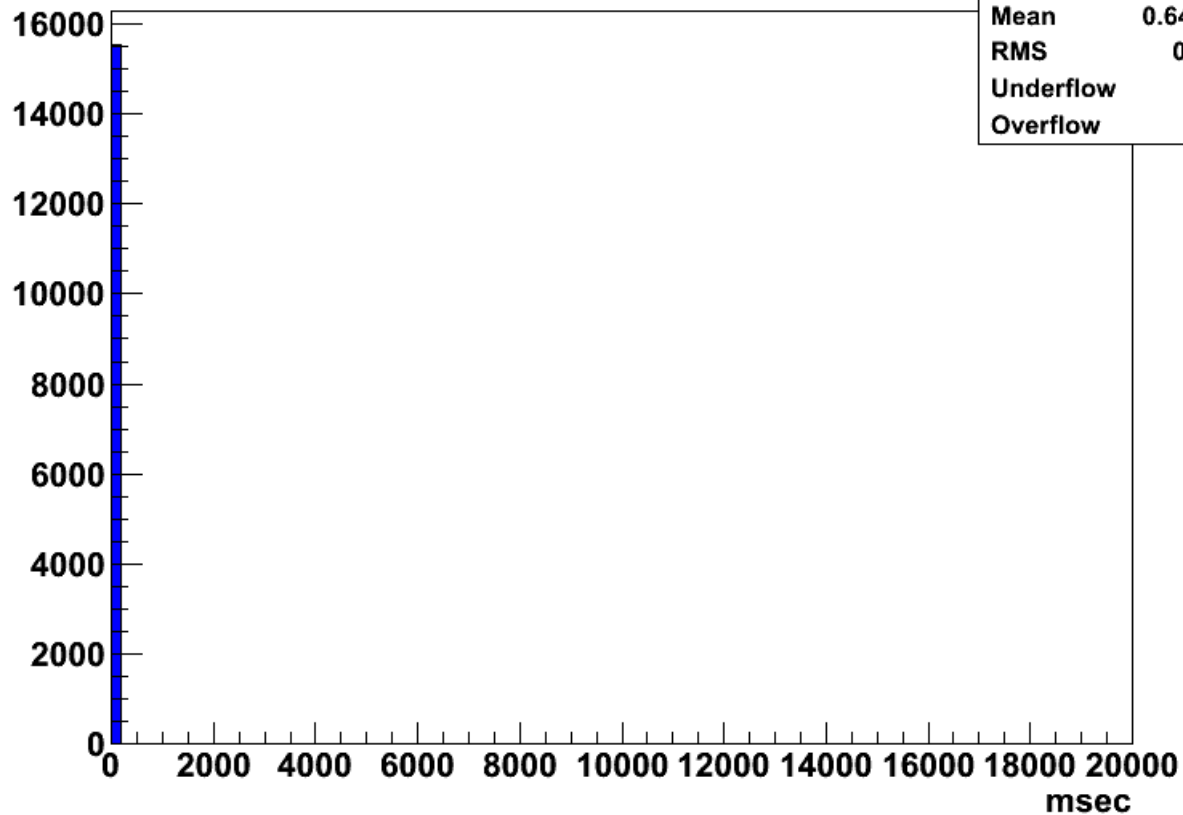
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltHfreco



Entries	15513
Mean	2.461
RMS	0.5814
Underflow	0
Overflow	0

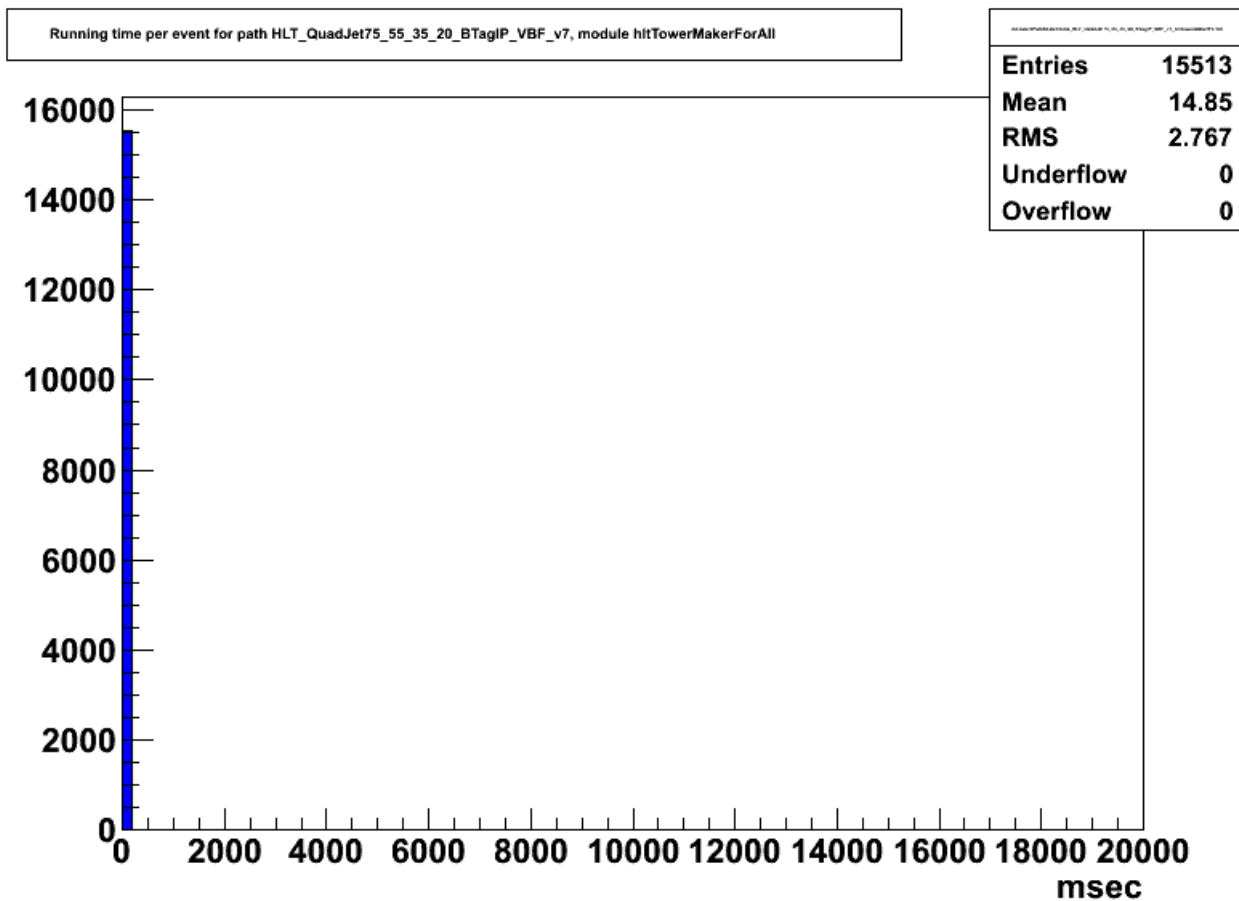
### 2.5.33 hltHoreco

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltHoreco



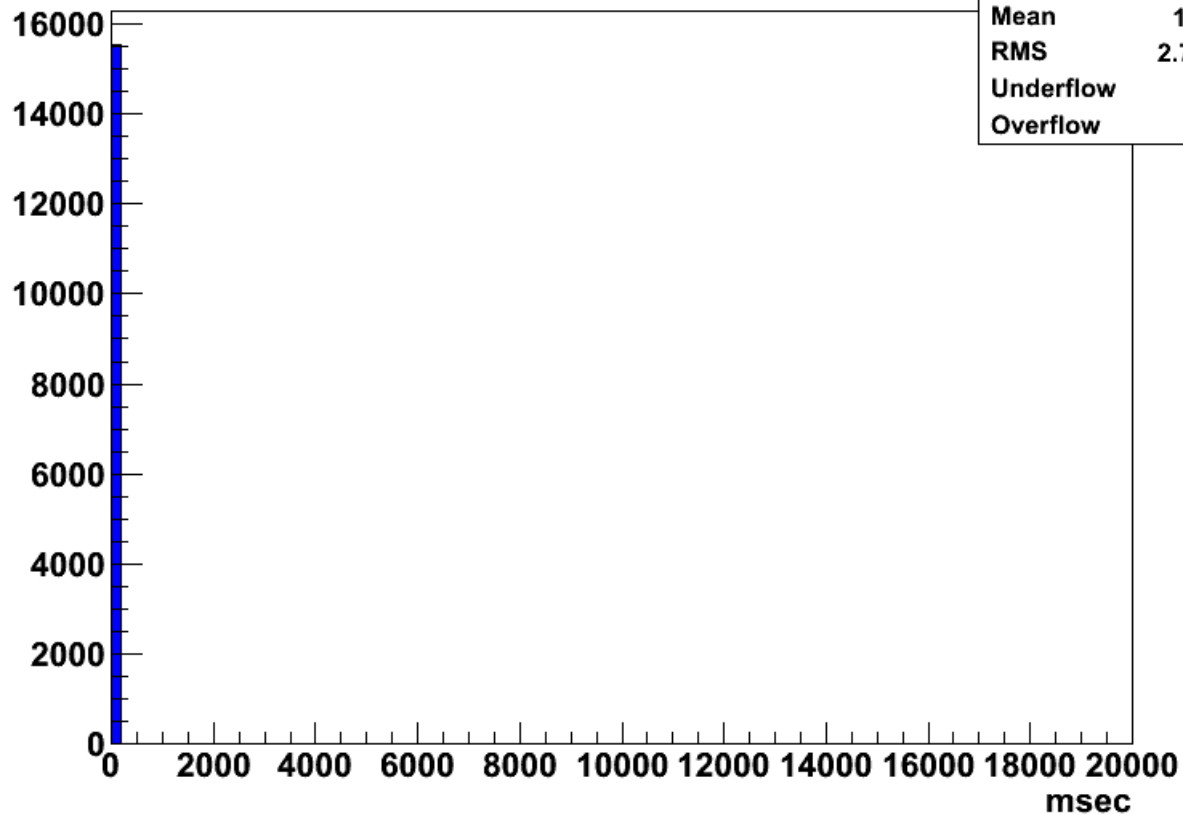
Entries	15513
Mean	0.6494
RMS	0.48
Underflow	0
Overflow	0

## 2.5.34 hltTowerMakerForAll



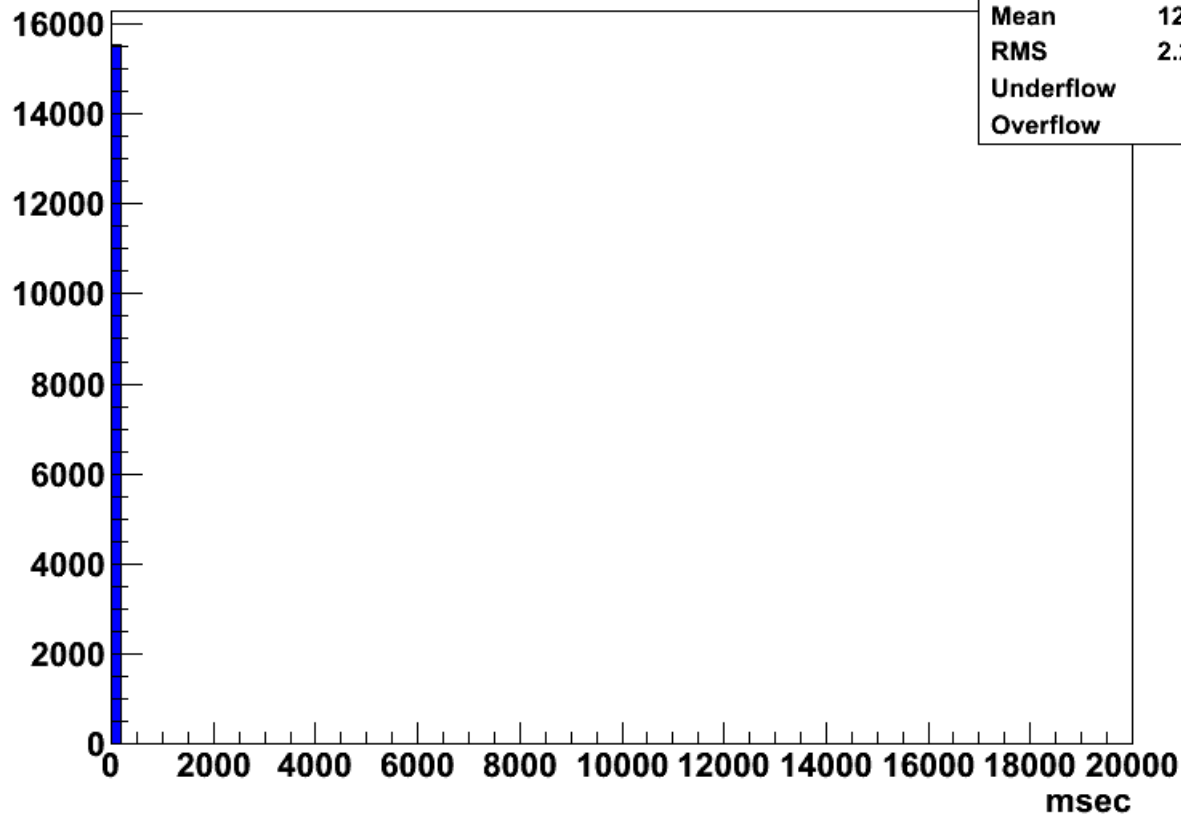
### 2.5.35 hltKT6CaloJets

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltKT6CaloJets



## 2.5.36 hltAntiKT5CaloJets

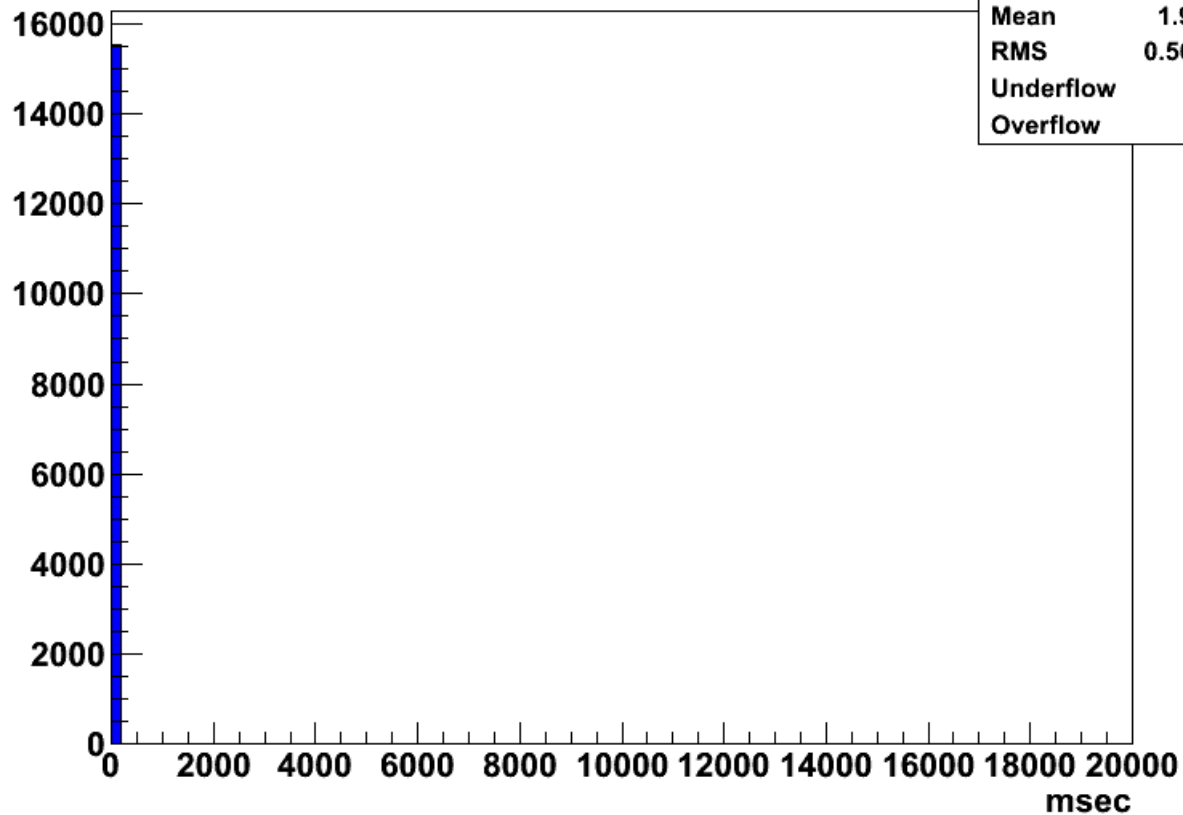
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltAntiKT5CaloJets



Entries	15513
Mean	12.26
RMS	2.218
Underflow	0
Overflow	0

## 2.5.37 hltCaloJetIDPassed

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltCaloJetIDPassed

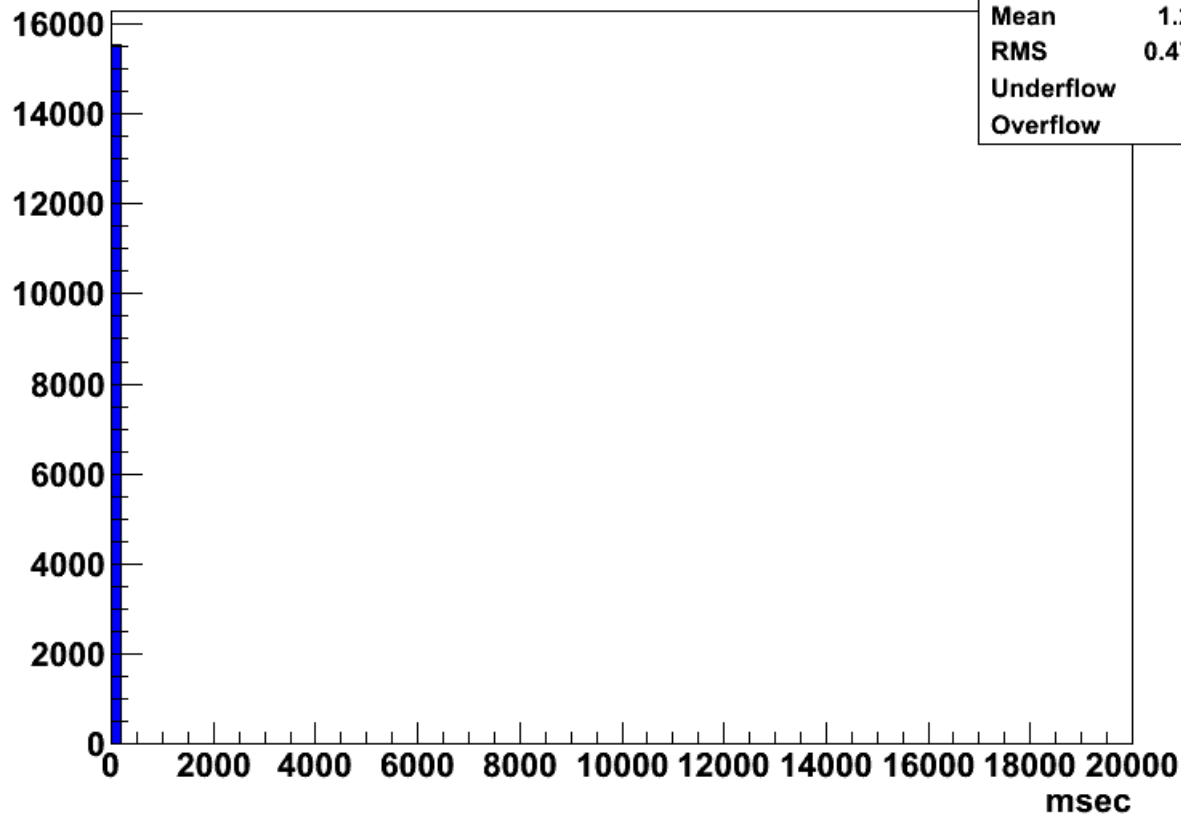


Entries	15513
Mean	1.913
RMS	0.5612
Underflow	0
Overflow	0



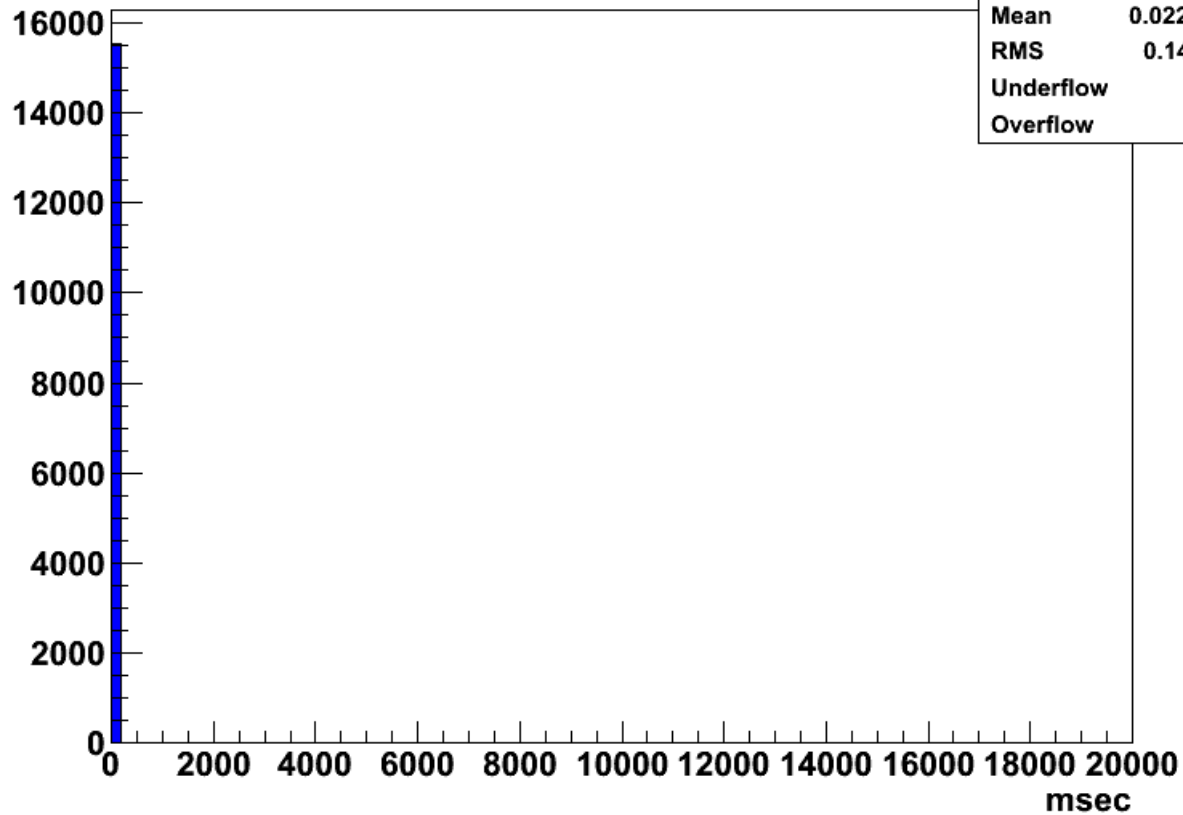
### 2.5.38 hltCaloJetL1FastJetCorrected

Running time per event for path HLT\_QuadJet75\_35\_20\_BTagIP\_VBF\_v7, module hltCaloJetL1FastJetCorrected



### 2.5.39 hltL1FastJetSingle75HbbVBF

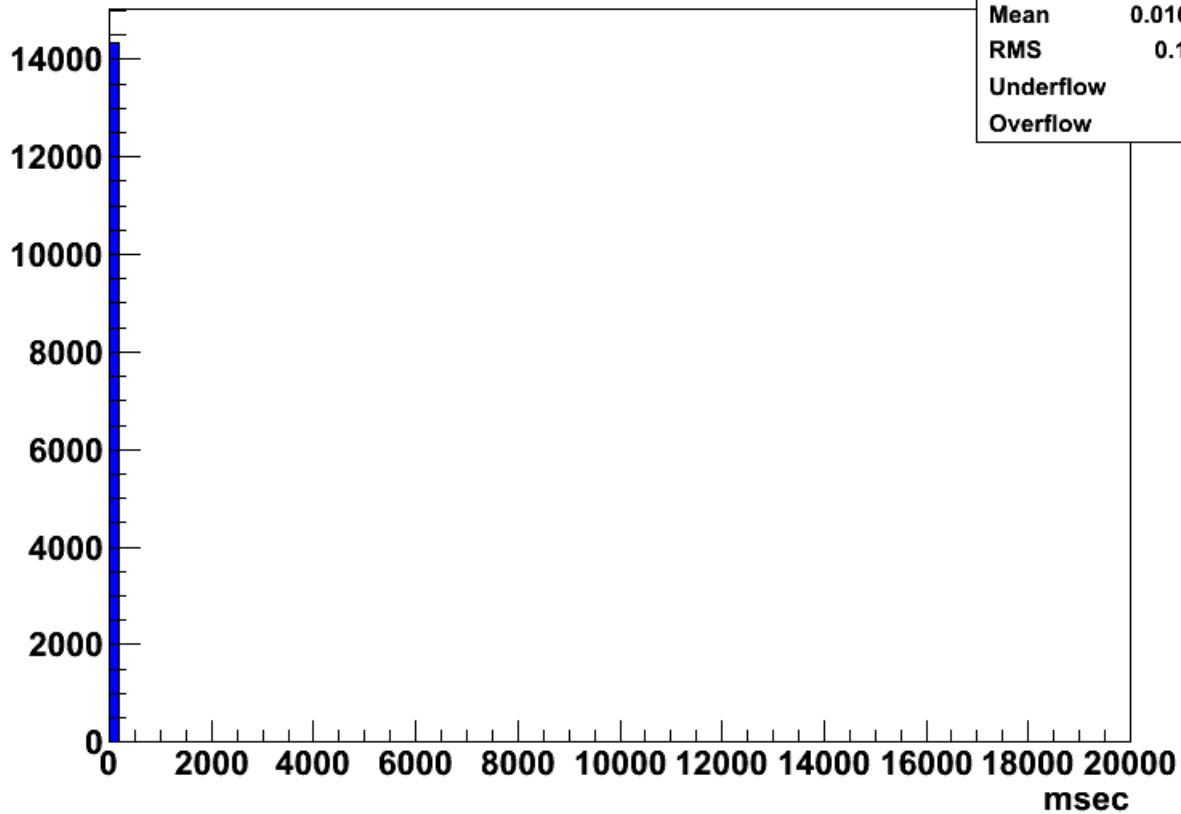
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltL1FastJetSingle75HbbVBF



Entries	15513
Mean	0.02256
RMS	0.1485
Underflow	0
Overflow	0

## 2.5.40 hltL1FastJetDouble55HbbVBF

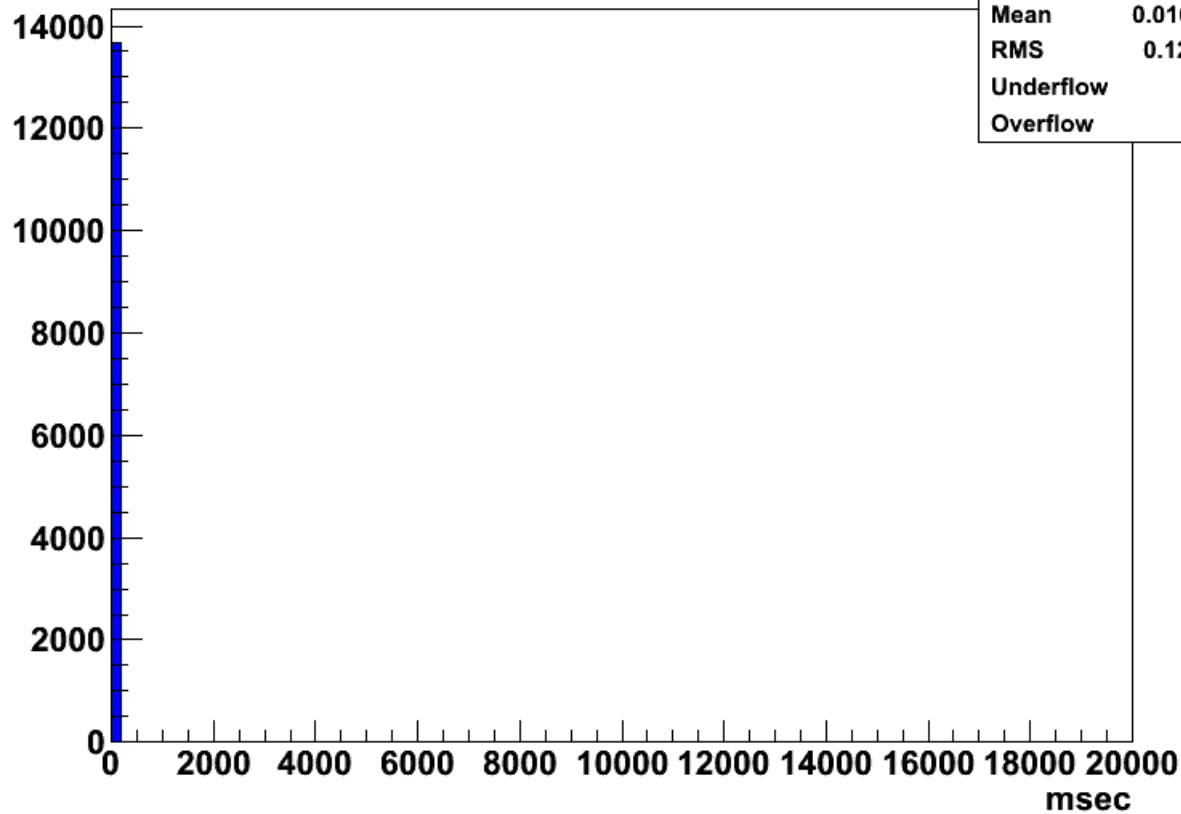
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltL1FastJetDouble55HbbVBF



Entries	14322
Mean	0.01641
RMS	0.127
Underflow	0
Overflow	0

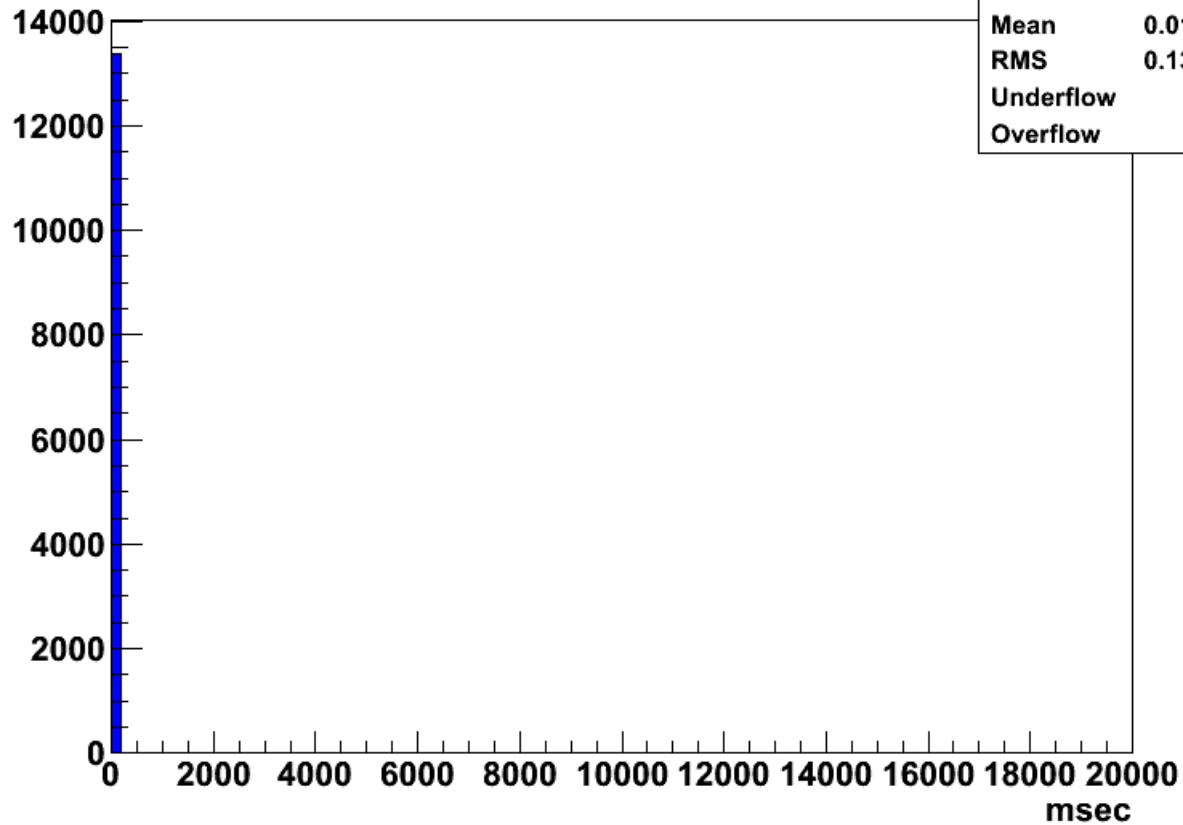
## 2.5.41 hltL1FastJetTriple35HbbVBF

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltL1FastJetTriple35HbbVBF



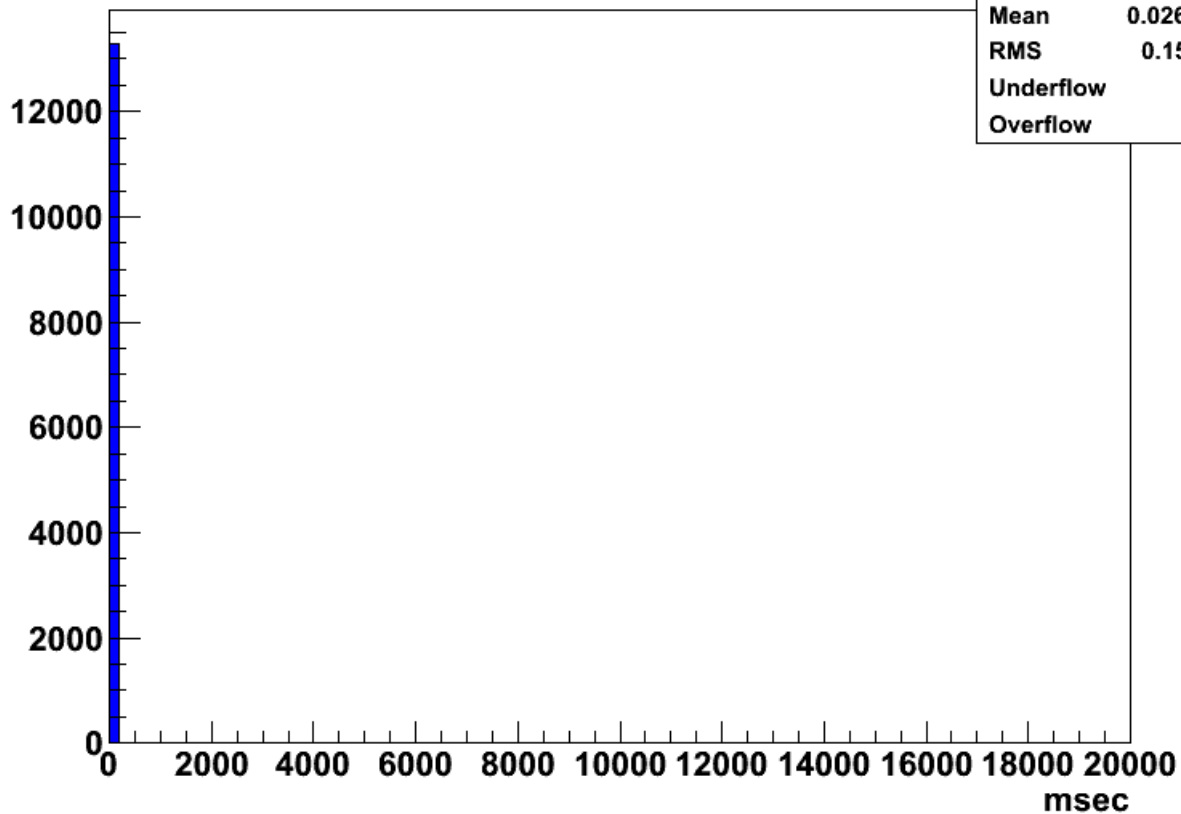
## 2.5.42 hltL1FastJetQuad20HbbVBF

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltL1FastJetQuad20HbbVBF



## 2.5.43 hltCaloL1FastJetEtaSortedVBF

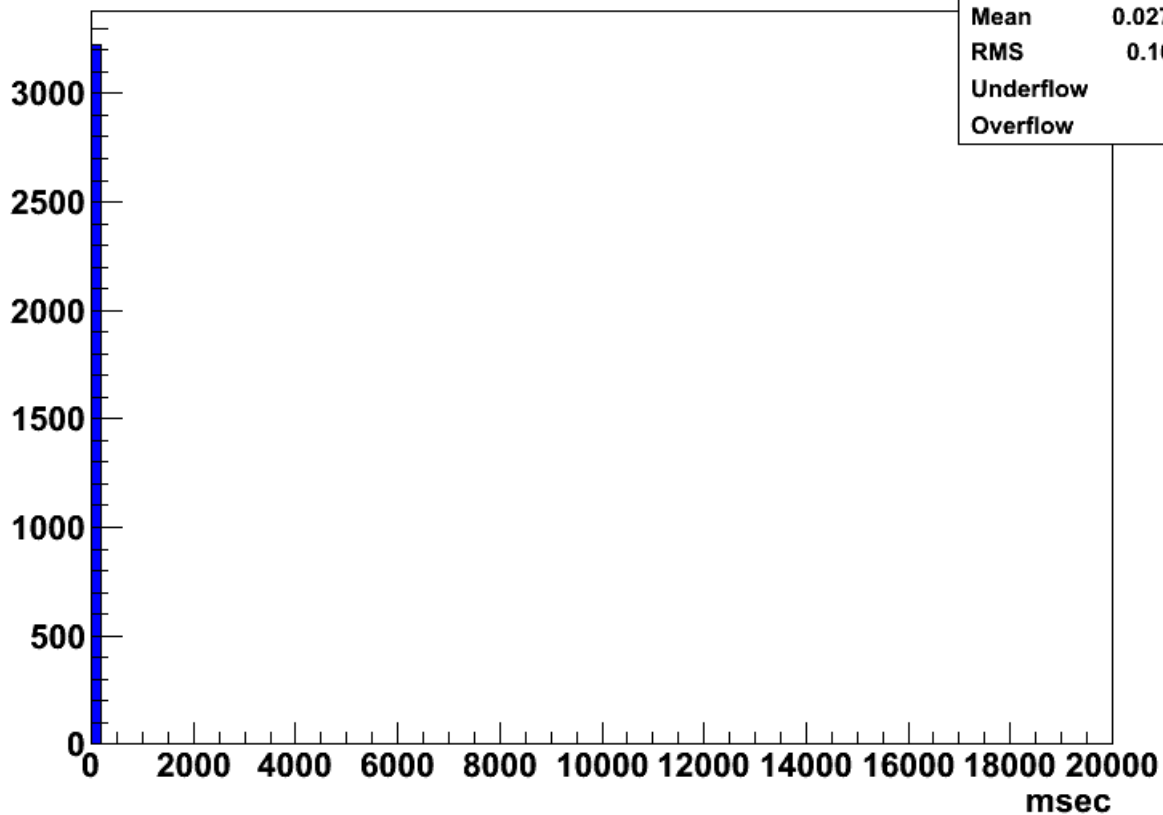
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltCaloL1FastJetEtaSortedVBF



Entries	13273
Mean	0.02614
RMS	0.1595
Underflow	0
Overflow	0

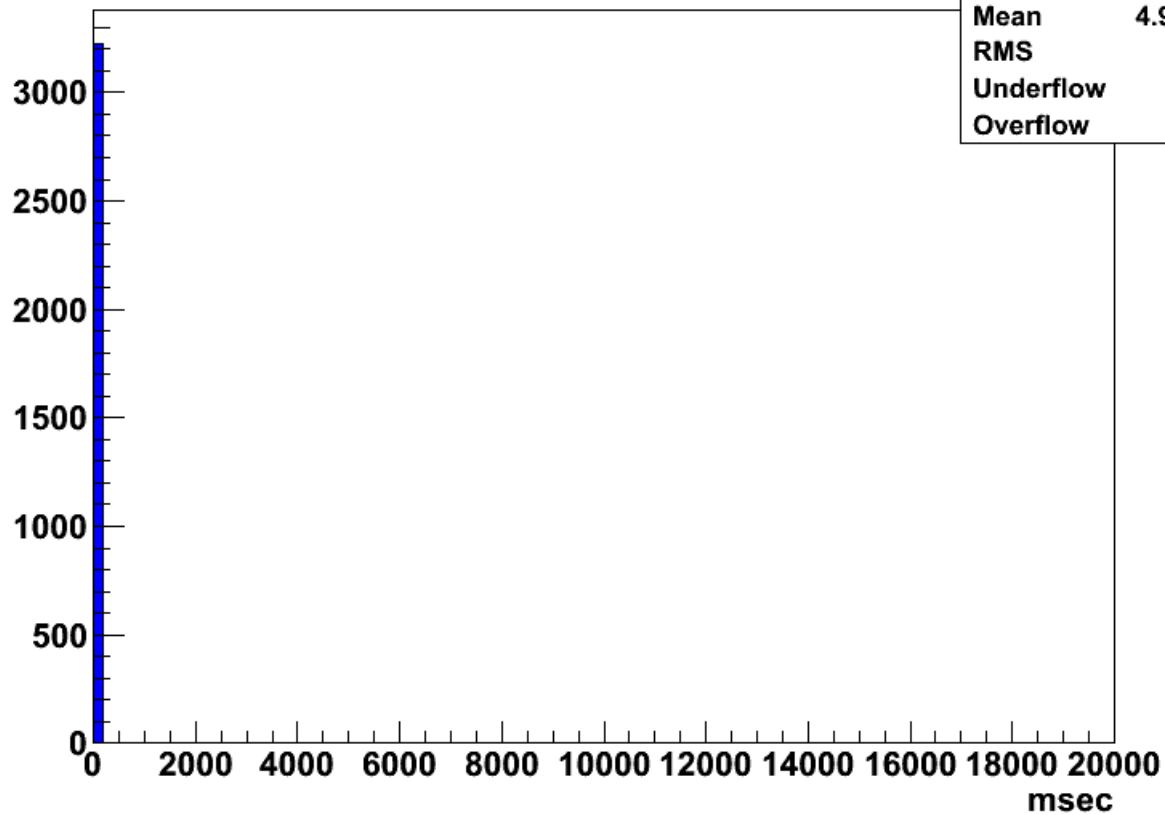
## 2.5.44 hltBJetHbbVBF

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltBJetHbbVBF



## 2.5.45 hltSiPixelDigis

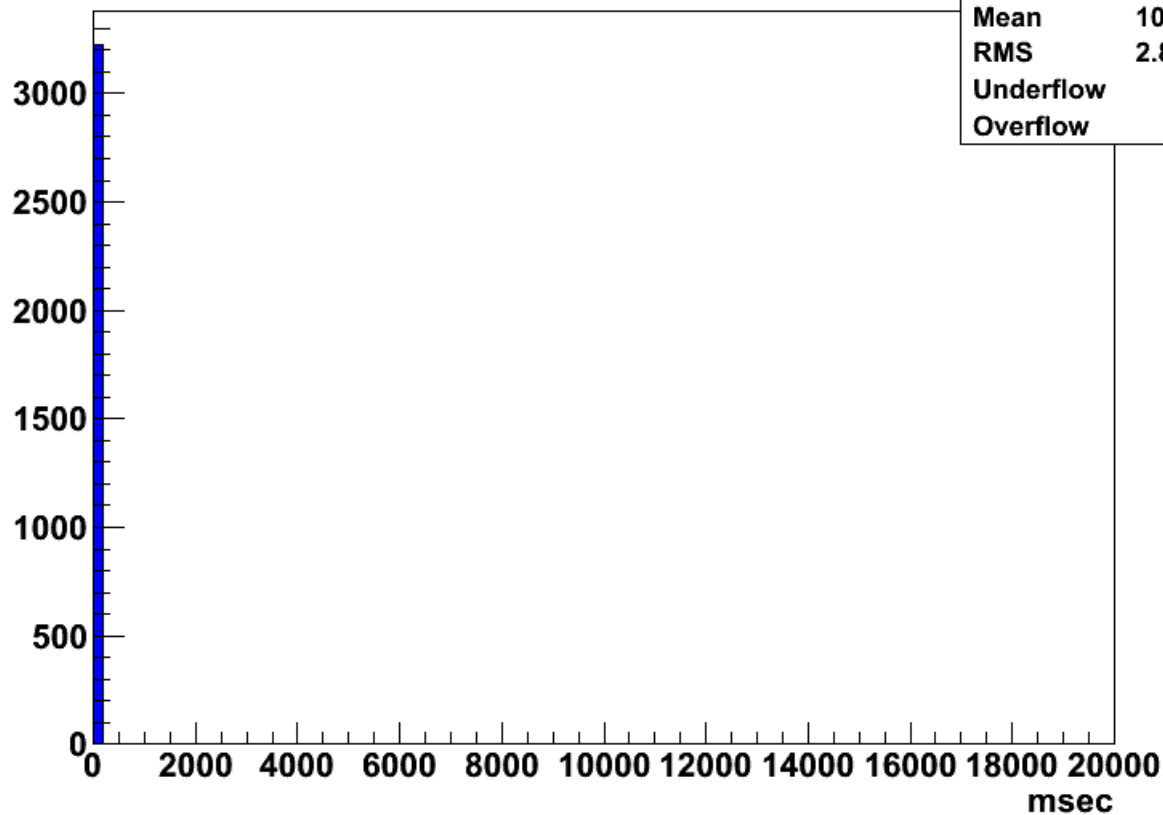
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltSiPixelDigis





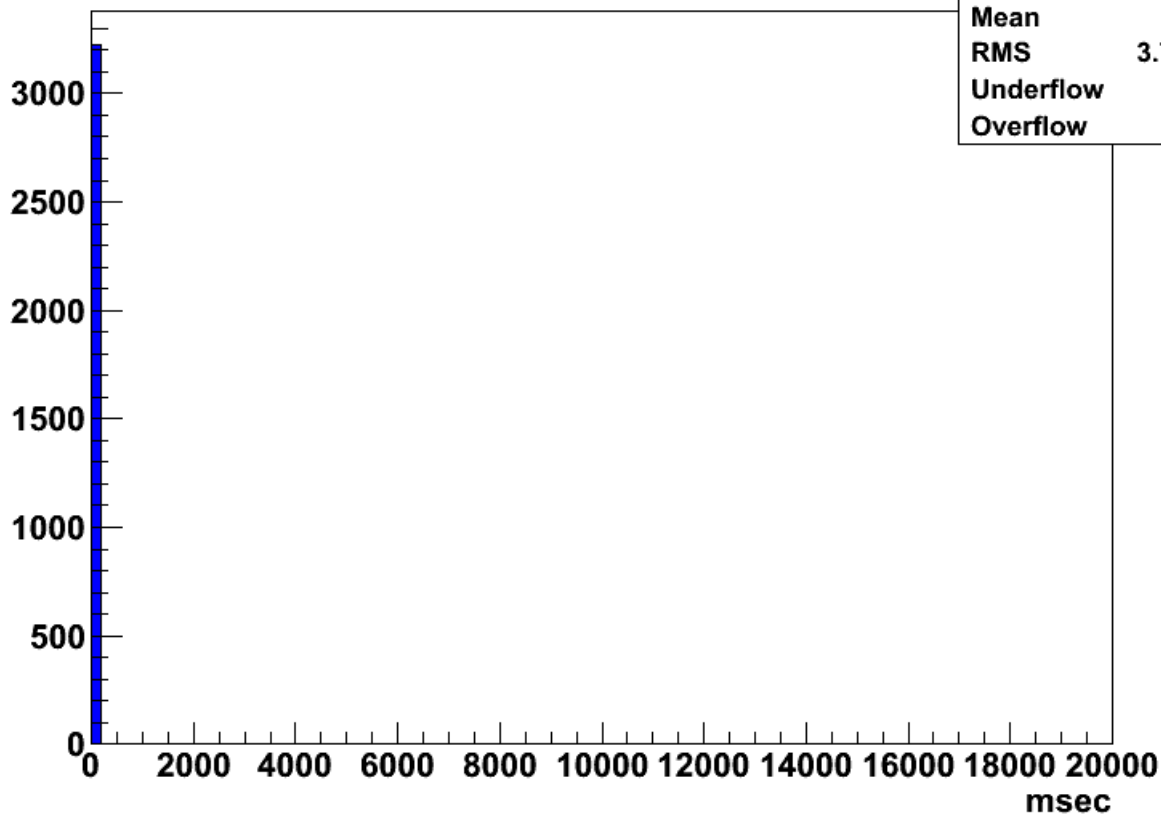
## 2.5.46 hltSiPixelClusters

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltSiPixelClusters



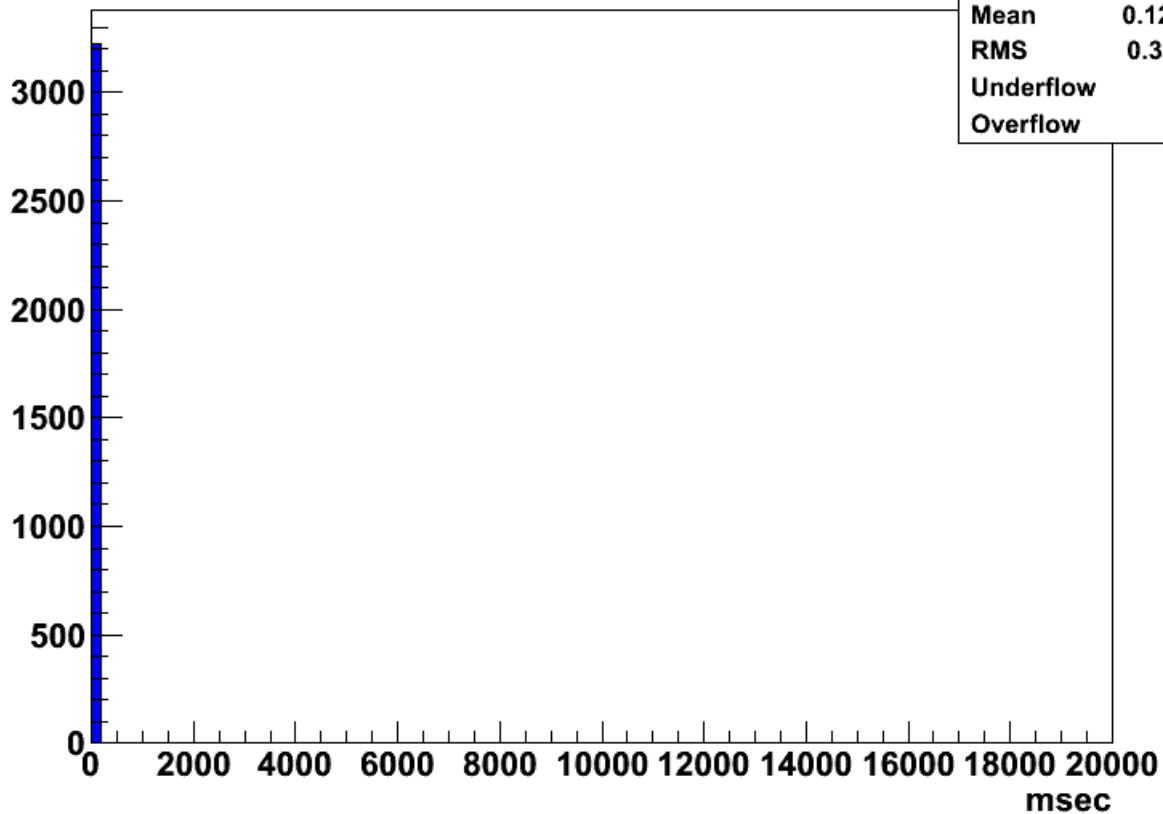
## 2.5.47 hltSiPixelRecHits

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltSiPixelRecHits



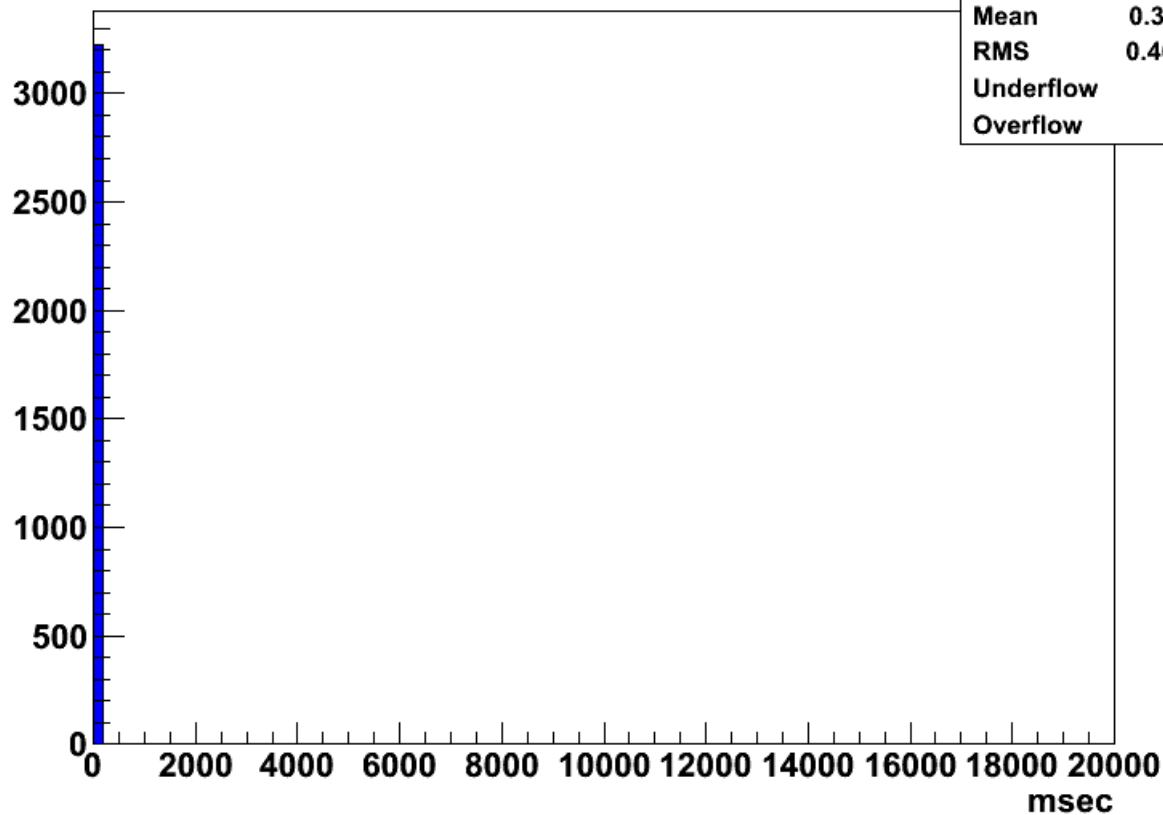
## 2.5.48 hltGetJetsfromBJetHbbVBF

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltGetJetsfromBJetHbbVBF



## 2.5.49 hltSelectorJetsHbbVBF

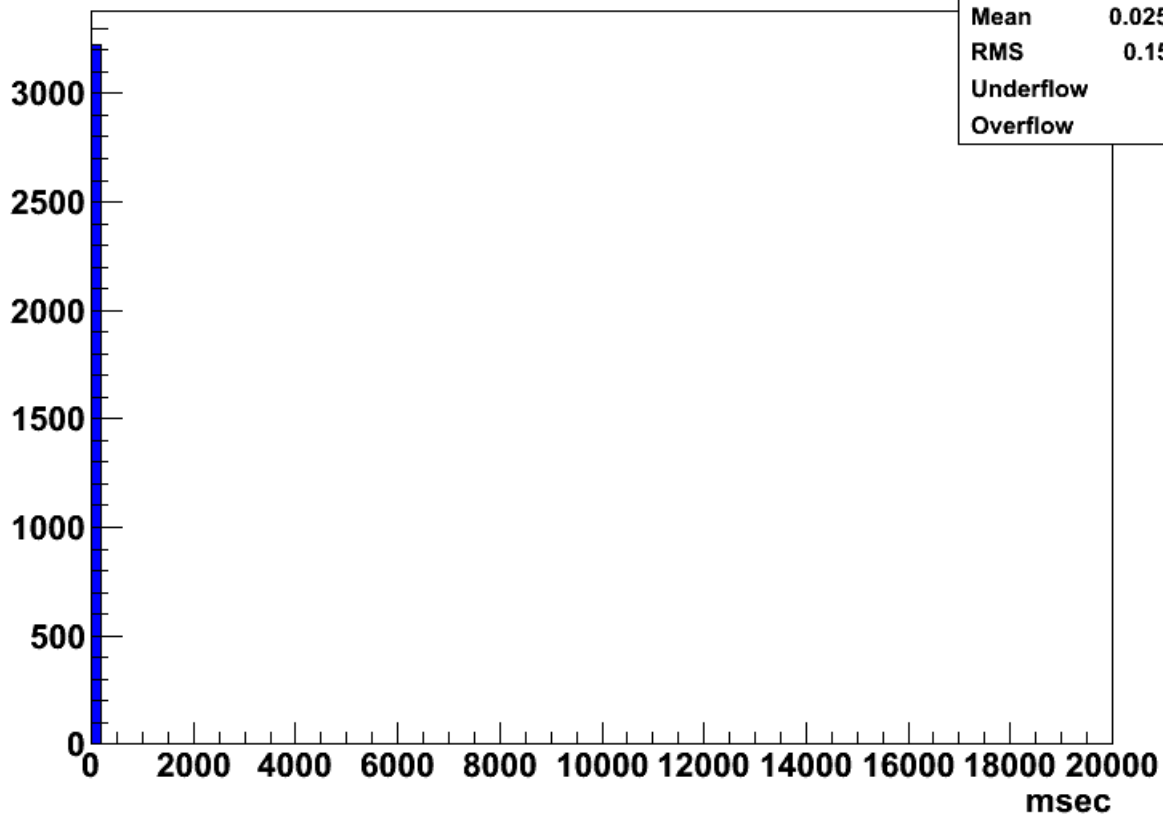
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltSelectorJetsHbbVBF



Entries	3221
Mean	0.3281
RMS	0.4695
Underflow	0
Overflow	0

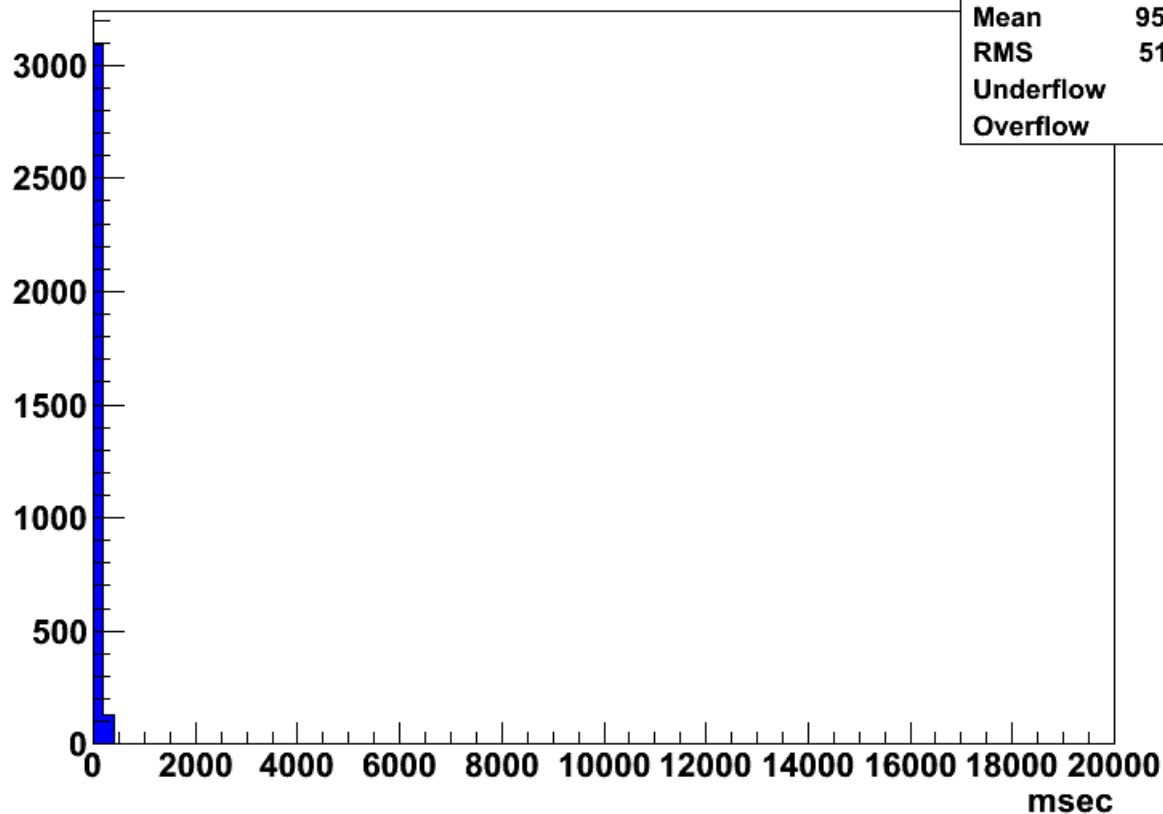
## 2.5.50 hltBLifetimeL25JetsHbbVBF

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltBLifetimeL25JetsHbbVBF



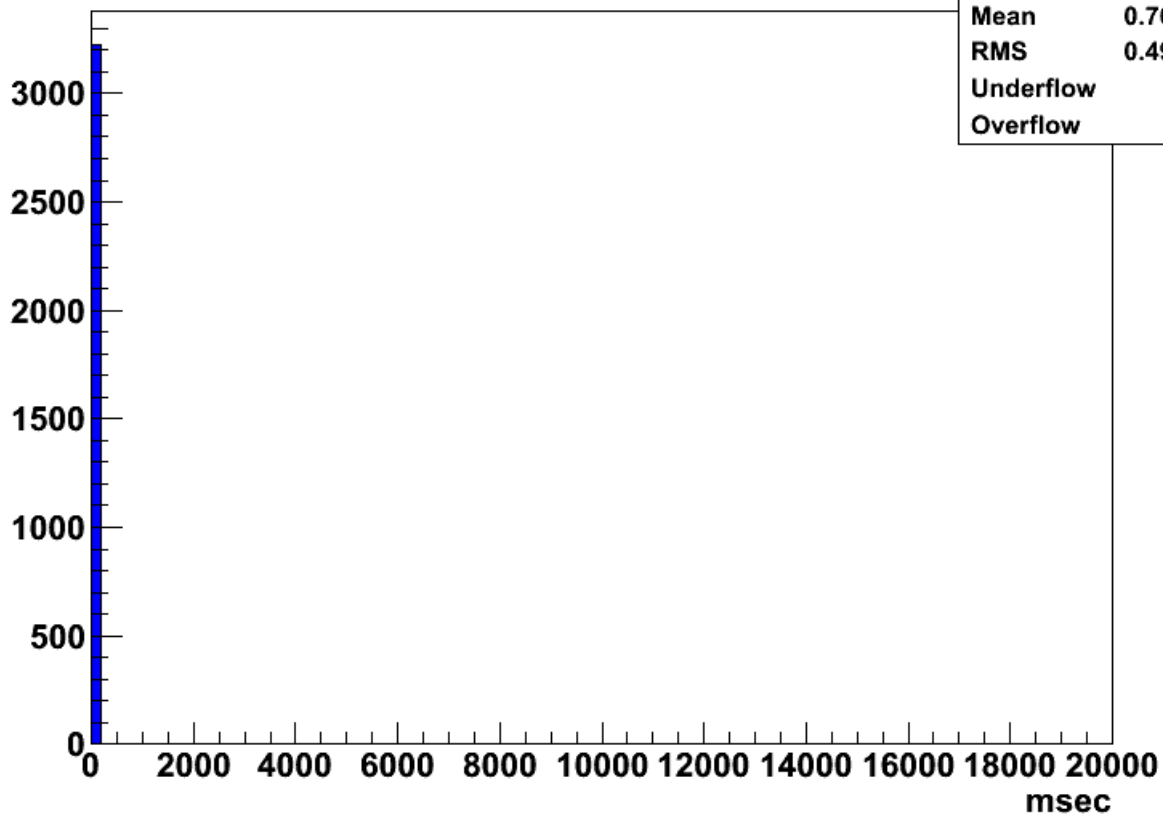
## 2.5.51 hltPixelTracks

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltPixelTracks



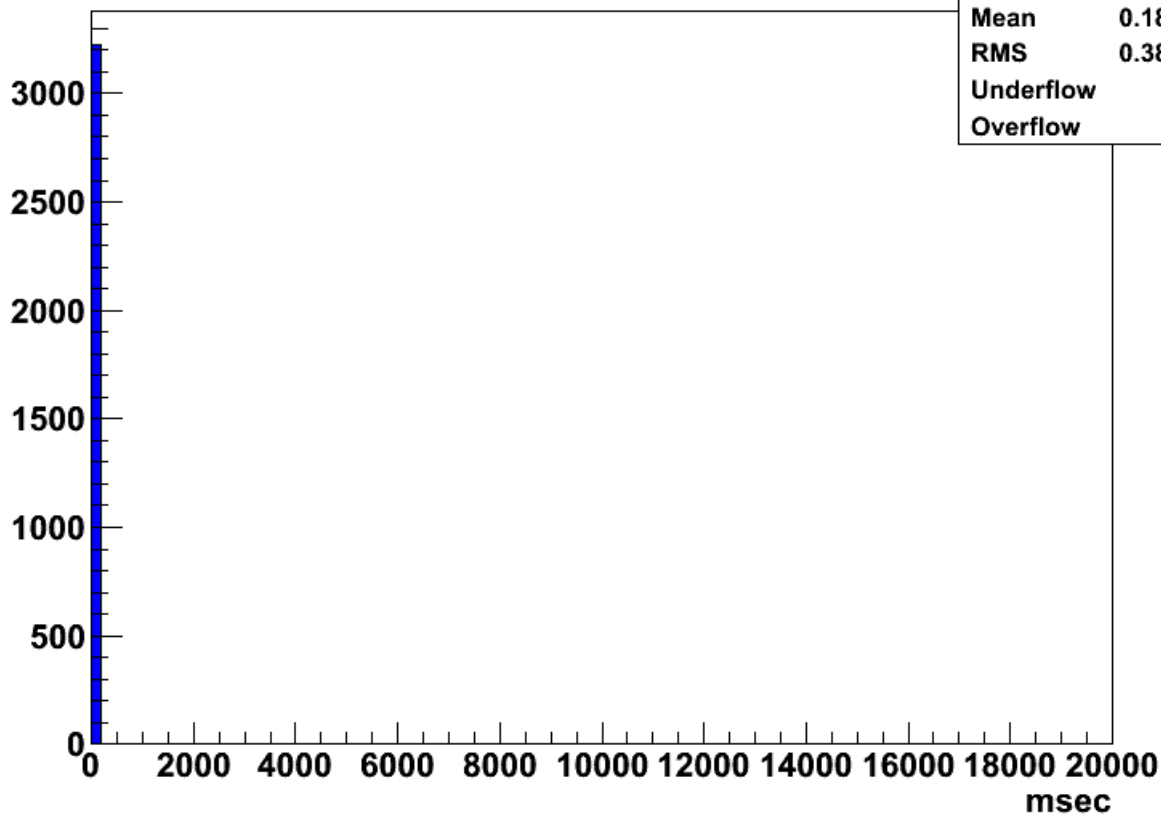
## 2.5.52 hltPixelVertices

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltPixelVertices



### 2.5.53 hltBLifetimeL25AssociatorHbbVBF

Running time per event for path HLT\_QuadJet75\_55\_20\_BTagIP\_VBF\_v7, module hltBLifetimeL25AssociatorHbbVBF

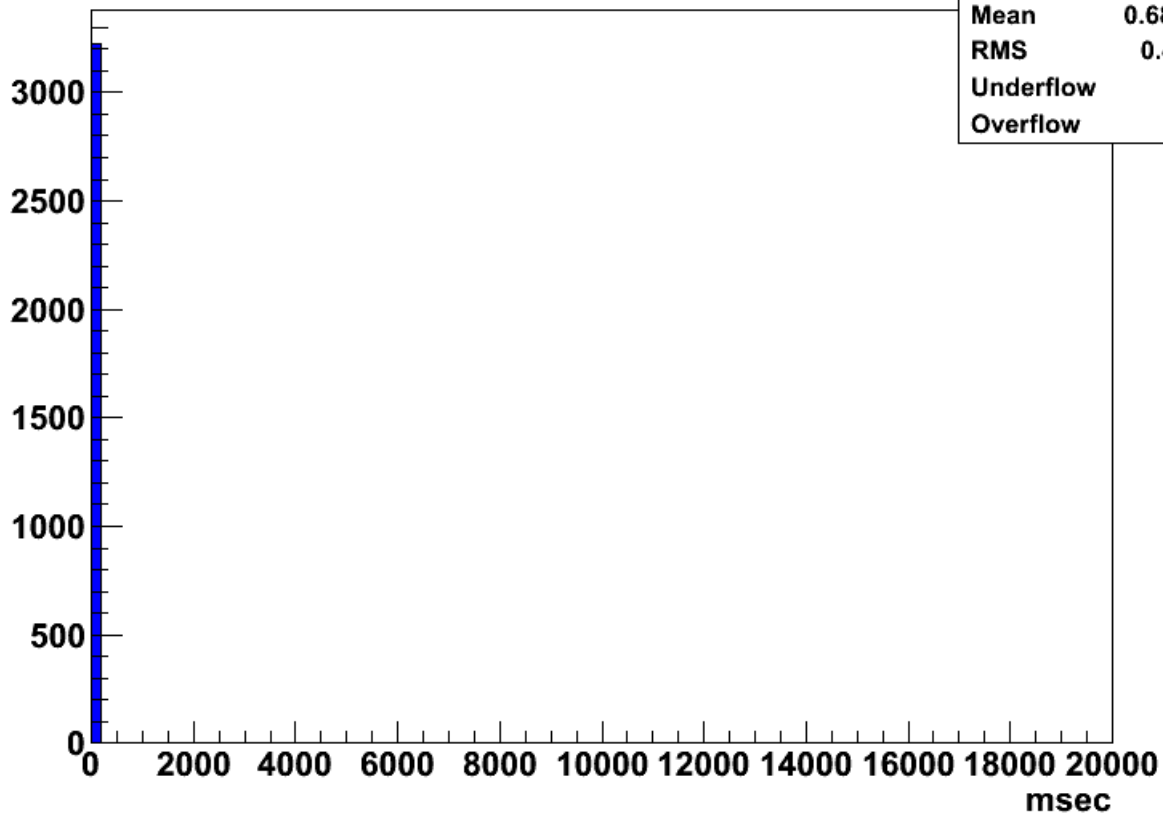


Entries	3221
Mean	0.1838
RMS	0.3873
Underflow	0
Overflow	0



### 2.5.54 hltBLifetimeL25TagInfosHbbVBF

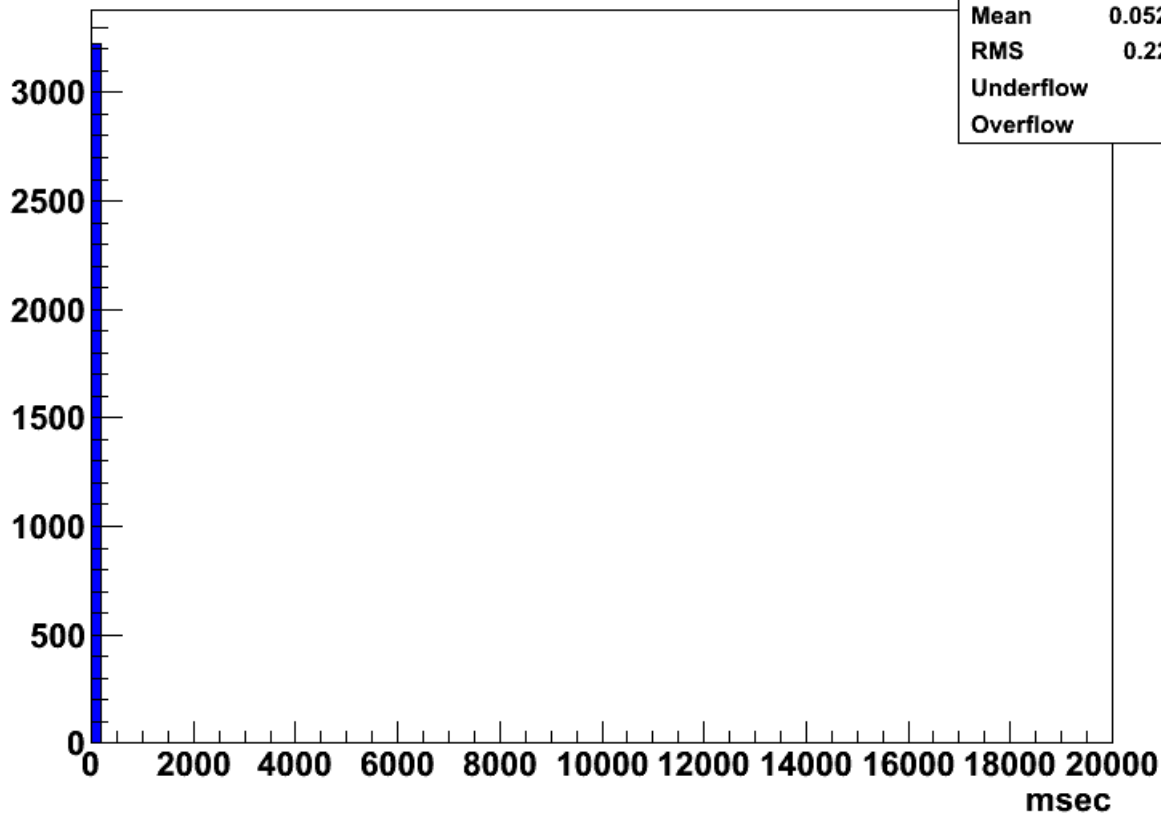
Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltBLifetimeL25TagInfosHbbVBF



Entries	3221
Mean	0.6885
RMS	0.491
Underflow	0
Overflow	0

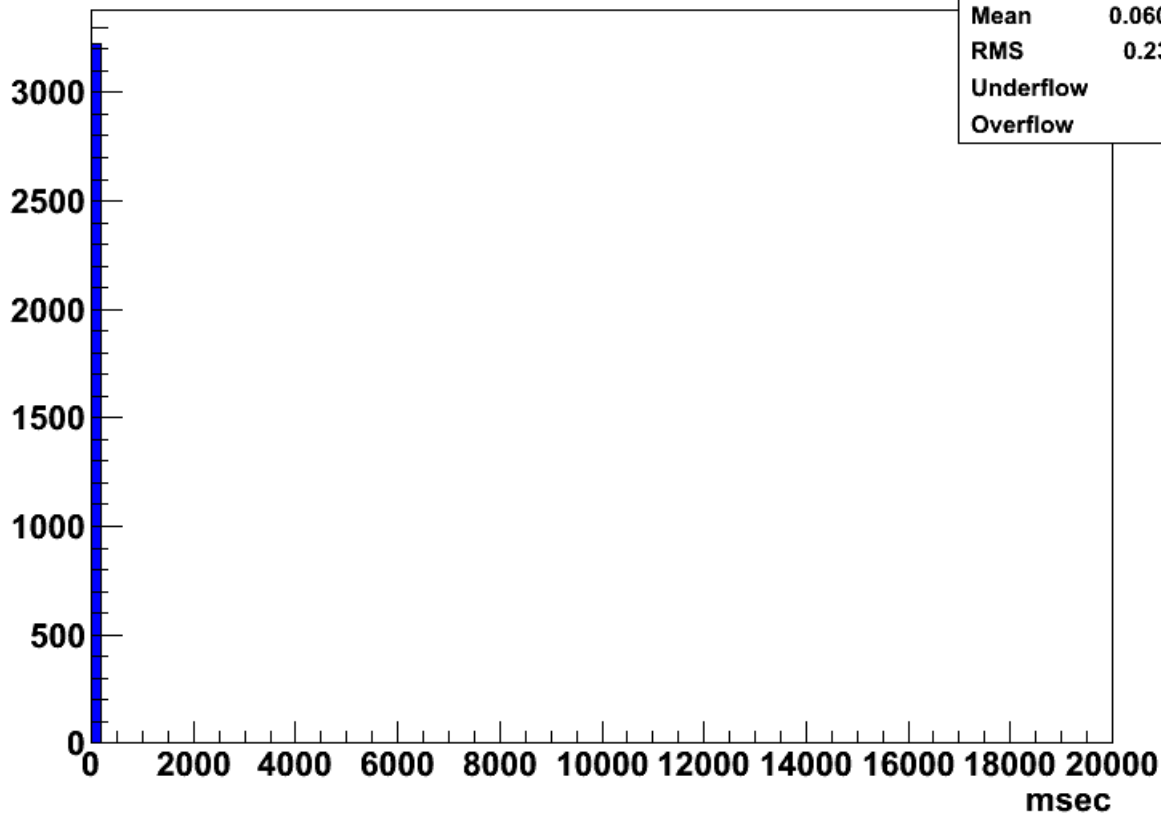
## 2.5.55 hltBLifetimeL25BJetTagsHbbVBF

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltBLifetimeL25BJetTagsHbbVBF



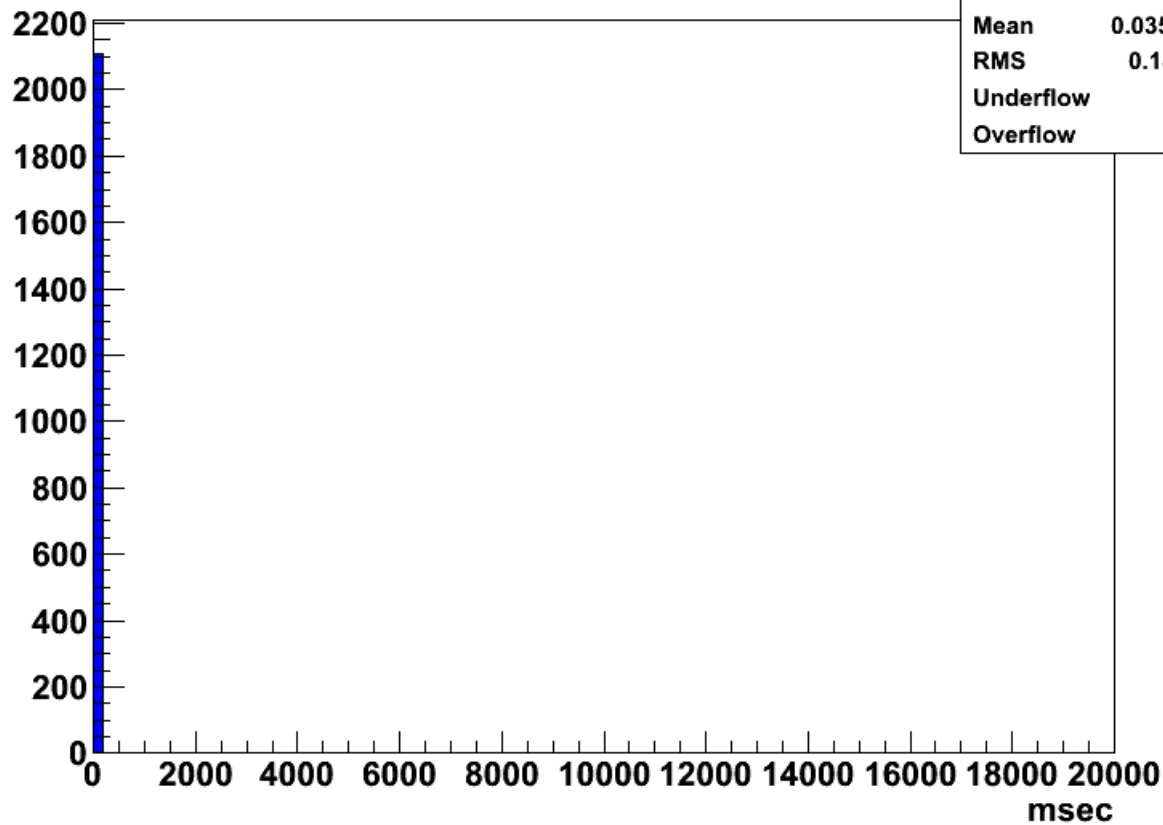
## 2.5.56 hltBLifetime2p5L25FilterHbbVBF

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltBLifetime2p5L25FilterHbbVBF



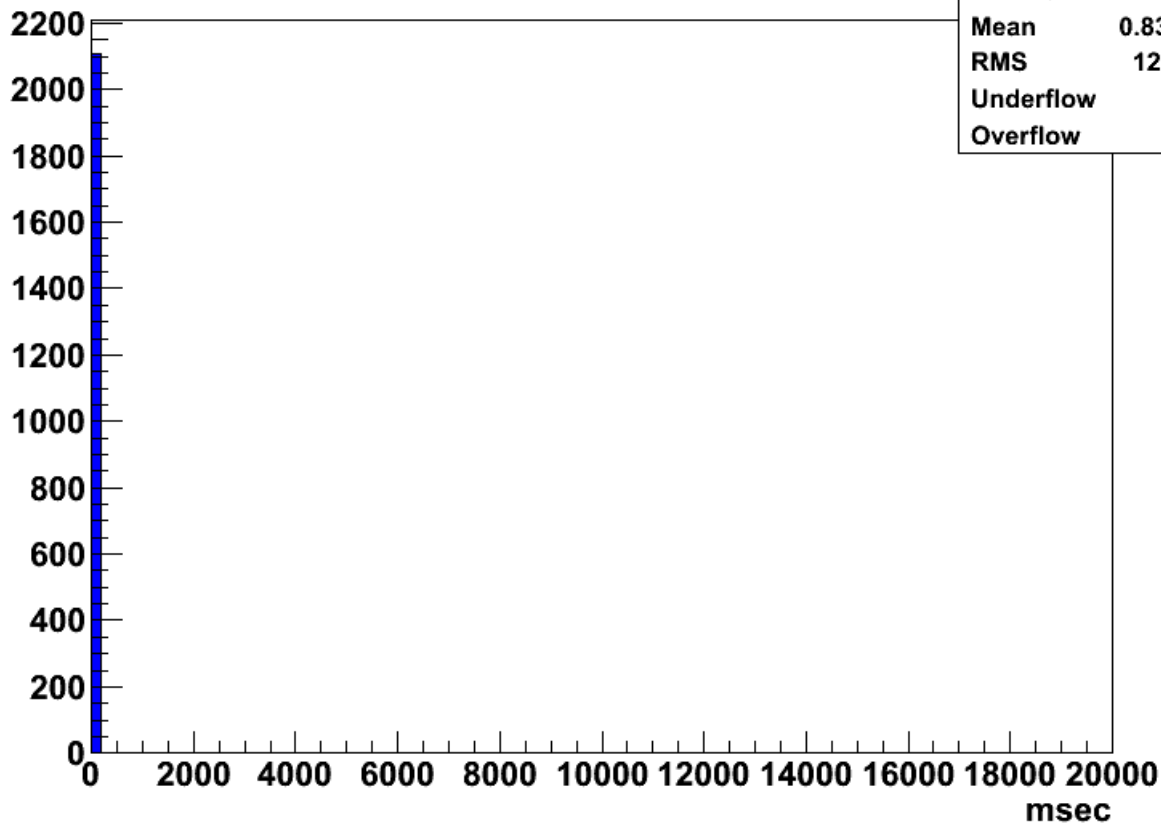
## 2.5.57 hltSiStripExcludedFEDListProducer

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltSiStripExcludedFEDListProducer



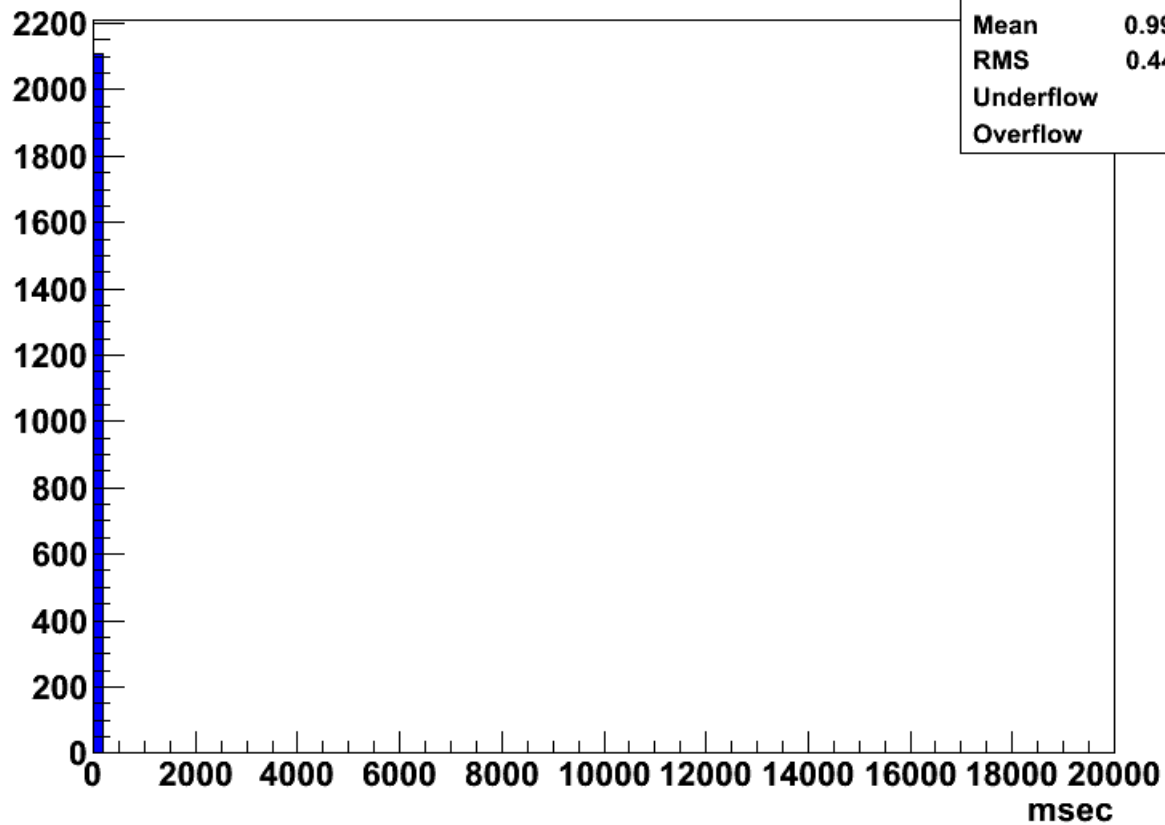
## 2.5.58 hltSiStripRawToClustersFacility

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltSiStripRawToClustersFacility



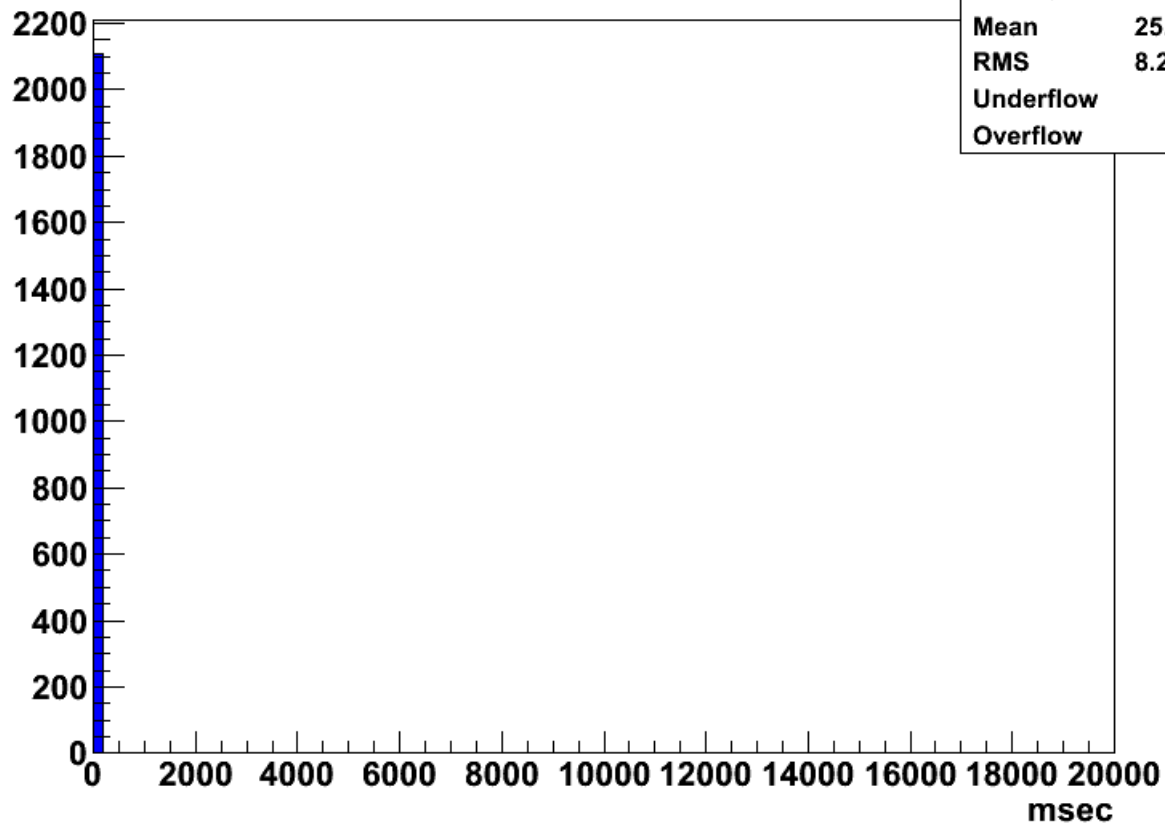
## 2.5.59 hltSiStripClusters

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltSiStripClusters



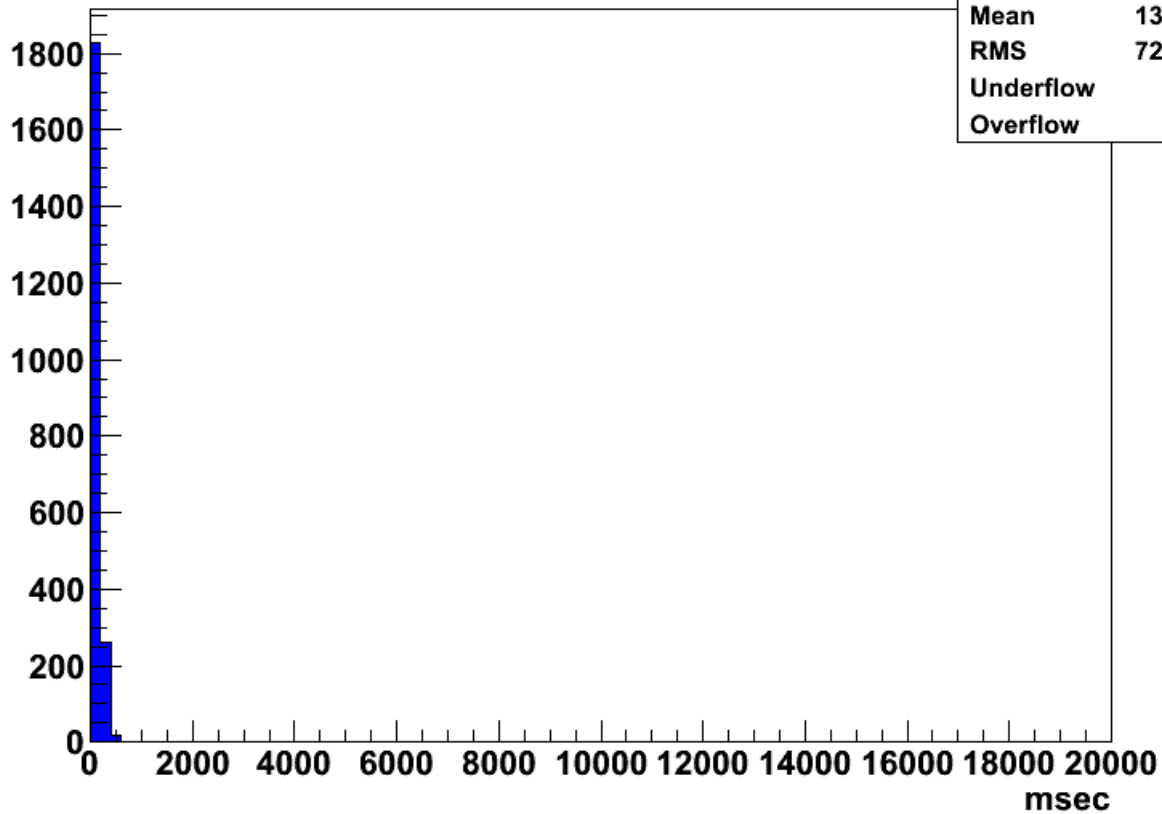
## 2.5.60 hltBLifetimeRegionalPixelSeedGeneratorHbbVBF

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltBLifetimeRegionalPixelSeedGeneratorHbbVBF



## 2.5.61 hltBLifetimeRegionalCkfTrackCandidatesHbbVBF

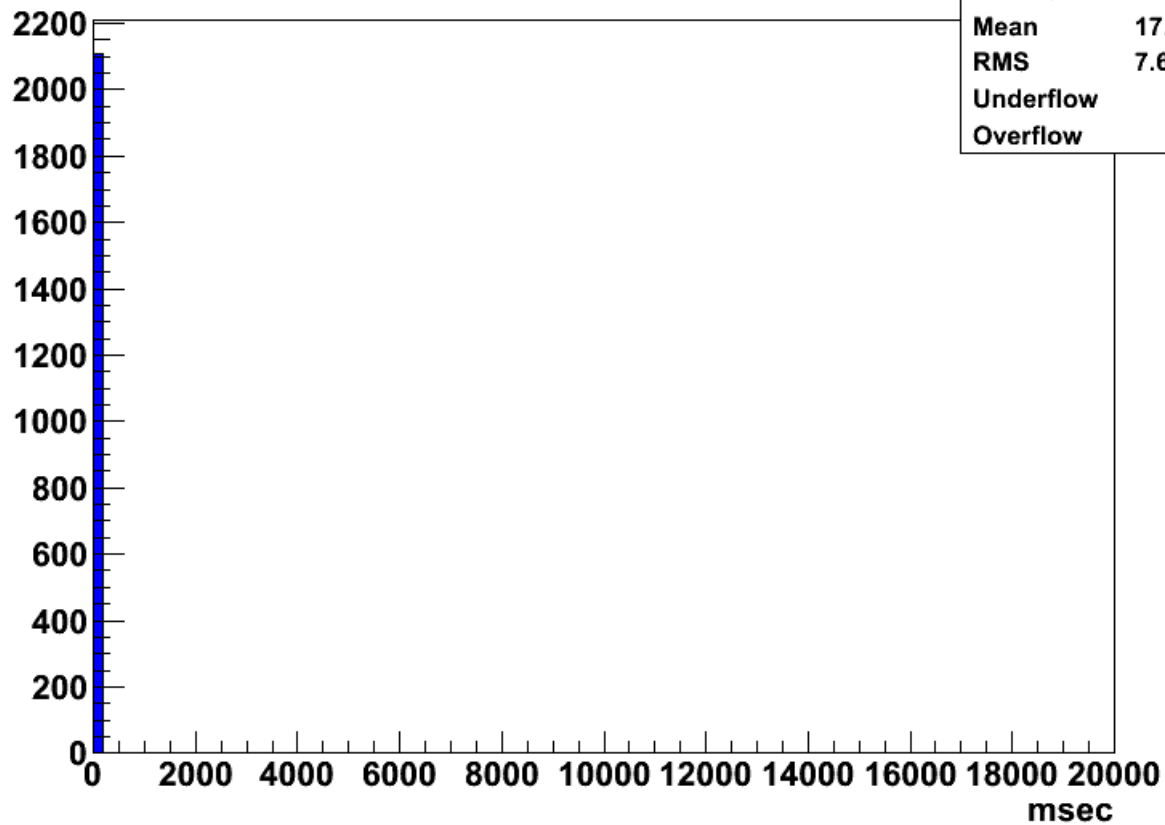
Running time per event for path HLT\_QuadJet175\_55\_35\_20\_BTagIP\_VBF\_v7, module hltBLifetimeRegionalCkfTrackCandidatesHbbVBF





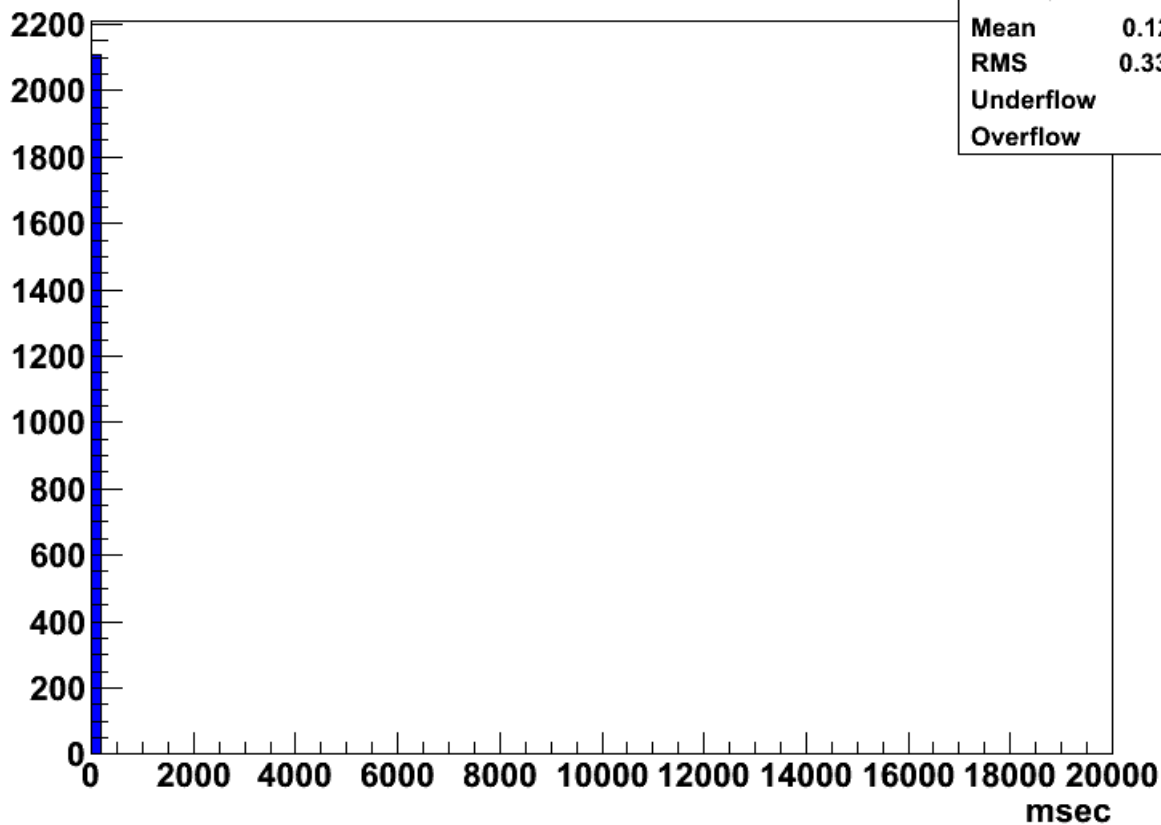
## 2.5.62 hltBLifetimeRegionalCtfWithMaterialTracksHbbVBF

Running time per event for path HLT\_QuadJet175\_55\_35\_20\_BTagIP\_VBF\_v7, module hltBLifetimeRegionalCtfWithMaterialTracksHbbVBF



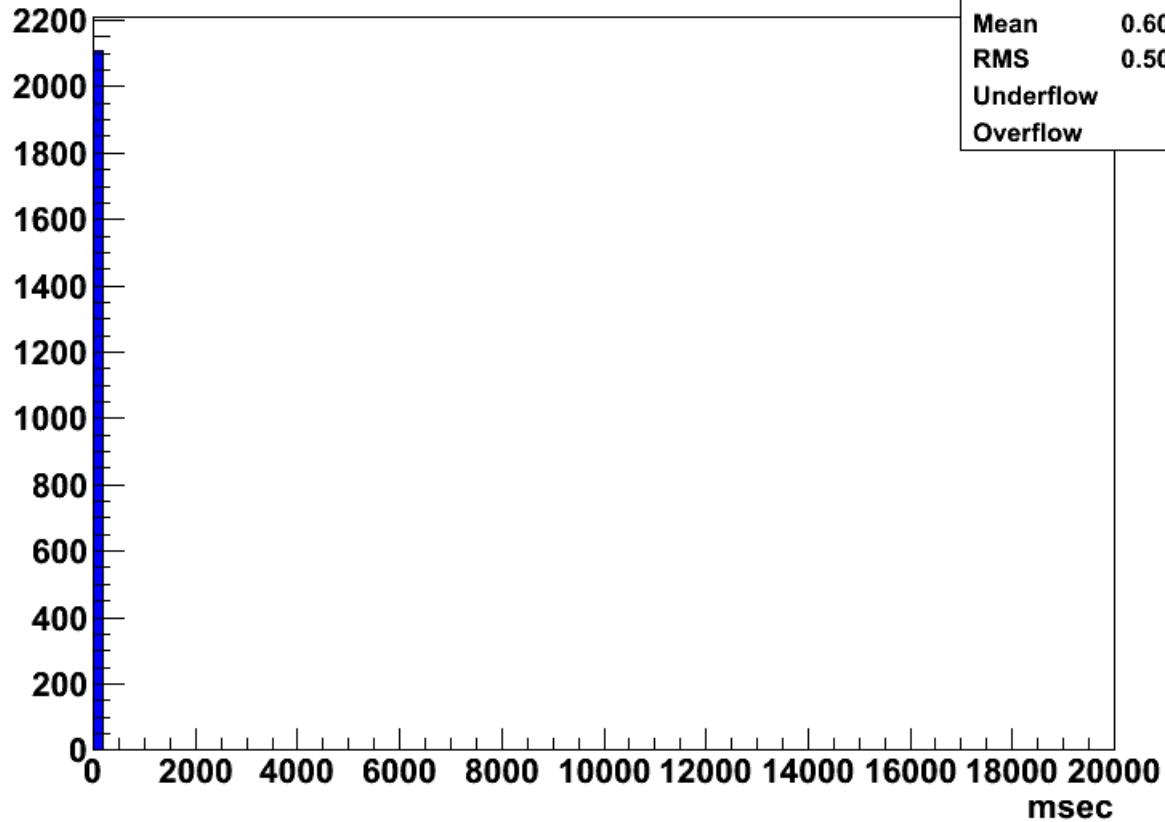
## 2.5.63 hltBLifetimeL3AssociatorbbHbbVBF

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltBLifetimeL3AssociatorbbHbbVBF



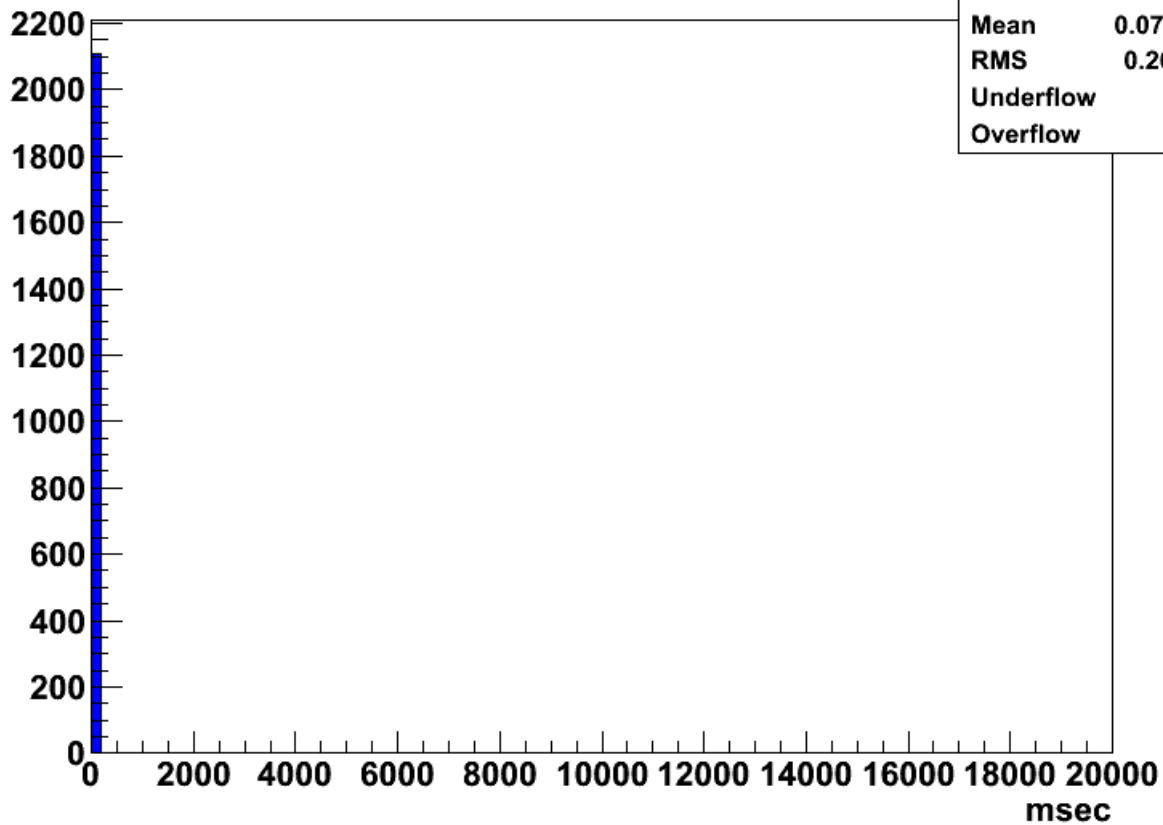
## 2.5.64 hltBLifetimeL3TagInfosHbbVBF

Running time per event for path HLT\_QuadJet75\_55\_20\_BTagIP\_VBF\_v7, module hltBLifetimeL3TagInfosHbbVBF



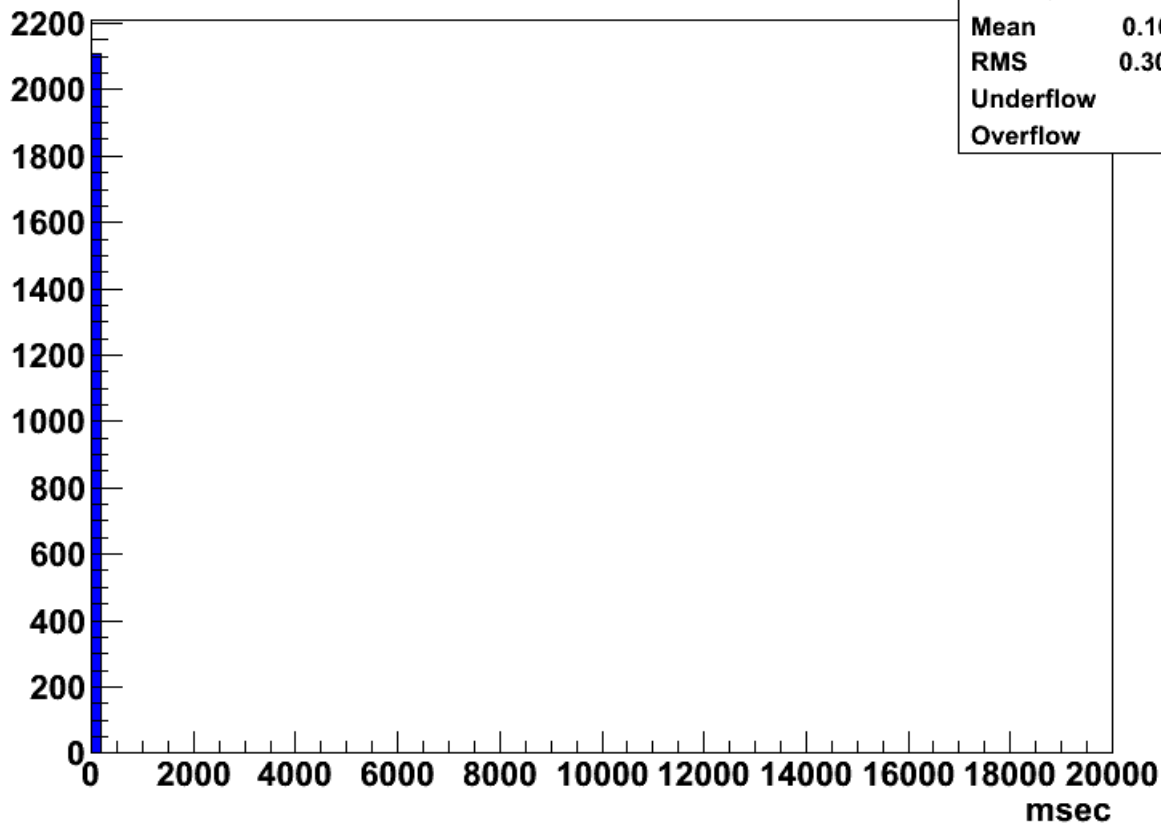
## 2.5.65 hltBLifetimeL3BJetTagsHbbVBF

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltBLifetimeL3BJetTagsHbbVBF



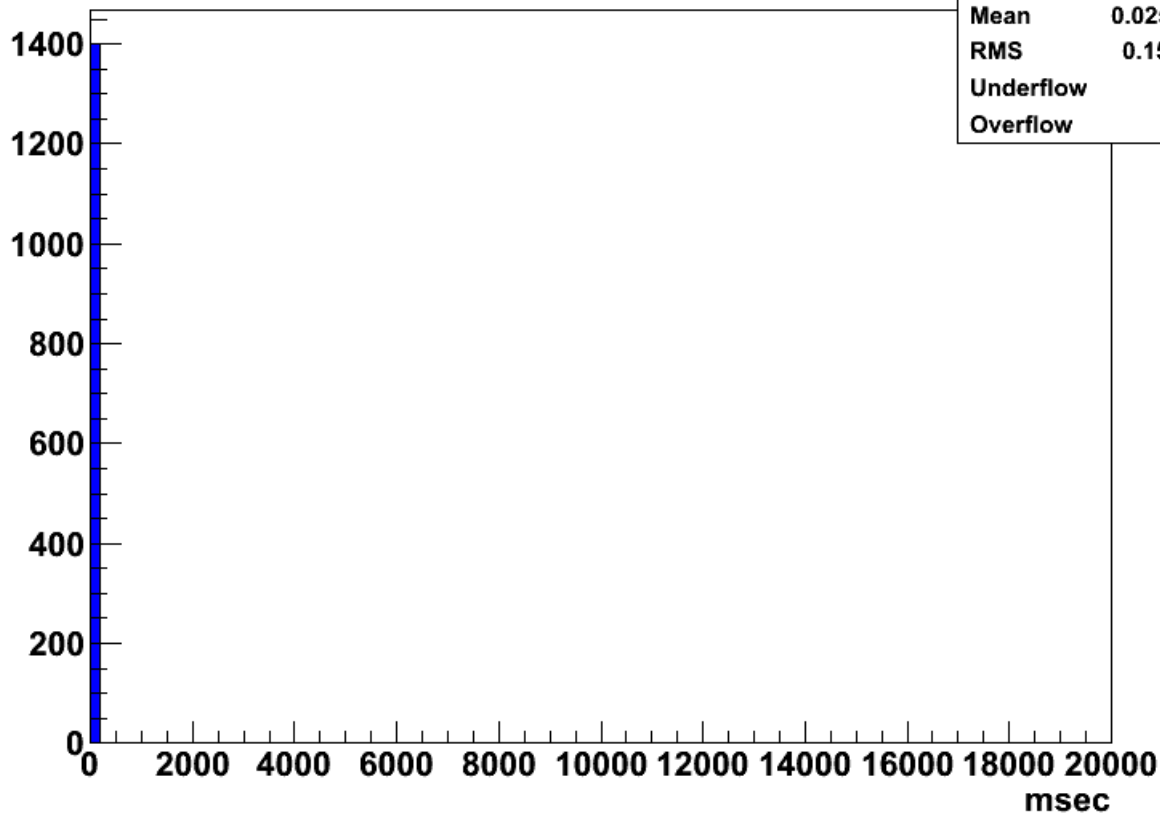
## 2.5.66 hltBLifetime6p8L3FilterHbbVBF

Running time per event for path HLT\_QuadJet75\_55\_20\_BTagIP\_VBF\_v7, module hltBLifetime6p8L3FilterHbbVBF



## 2.5.67 hltCaloL1FastJetBTagSortedVBF

Running time per event for path HLT\_QuadJet75\_55\_35\_20\_BTagIP\_VBF\_v7, module hltCaloL1FastJetBTagSortedVBF



Entries	1399
Mean	0.02501
RMS	0.1562
Underflow	0
Overflow	0