
Subject: Re: Crash in FairTSBufferFunctional
Posted by [StefanoSpataro](#) on Thu, 30 Jun 2011 11:50:25 GMT
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Hi Tobias,
I run 100 pipi events.
I have seen that in the simulation I have 883 MVDPpints, but after digitizatio I have 23 Pixed Digis and 20 Strip Digis, 14 Pixel Hits and 5 Strip Hits, we are missing a lot.

Meanwhile, the code produces a lot of messages in the init:

Toggle Spoiler
sensor out rad is 45
[INFO] The number of entries in chain is 100
Event Number 0
EventTime: 0
EventTime: 0
0 : Time 0 PndSdsDigiPixel in: 273 FE: 3 Col/Row 0/100 charge 40 e timestamp 0, from Point(s) 0

0 : Time 0 PndSdsDigiPixel in: 273 FE: 3 Col/Row 0/101 charge 280 e timestamp 0, from Point(s) 0

0 : Time 0 PndSdsDigiPixel in: 273 FE: 3 Col/Row 0/102 charge 220 e timestamp 0, from Point(s) 0

0 : Time 0 PndSdsDigiPixel in: 8 FE: 5 Col/Row 83/73 charge 240 e timestamp 0, from Point(s) 1

0 : Time 0 PndSdsDigiPixel in: 8 FE: 5 Col/Row 84/73 charge 240 e timestamp 0, from Point(s) 1

0 : Time 0 PndSdsDigiPixel in: 329 FE: 1 Col/Row 70/9 charge 120 e timestamp 0, from Point(s) 5

0 : Time 0 PndSdsDigiPixel in: 329 FE: 1 Col/Row 70/10 charge 280 e timestamp 0, from Point(s) 5

0 : Time 0 PndSdsDigiPixel in: 330 FE: 1 Col/Row 97/107 charge 280 e timestamp 0, from Point(s) 6

0 : Time 0 PndSdsDigiPixel in: 330 FE: 1 Col/Row 97/108 charge 240 e timestamp 0, from Point(s) 6

0 : Time 0 PndSdsDigiPixel in: 343 FE: 1 Col/Row 54/54 charge 160 e timestamp 0, from Point(s) 7

0 : Time 0 PndSdsDigiPixel in: 343 FE: 1 Col/Row 54/55 charge 200 e timestamp 0, from Point(s) 7

0 : Time 0 PndSdsDigiPixel in: 343 FE: 1 Col/Row 55/54 charge 60 e timestamp 0, from Point(s) 7

0 : Time 0 PndSdsDigiPixel in: 343 FE: 1 Col/Row 55/55 charge 100 e timestamp 0, from Point(s) 7

0 : Time 0 PndSdsDigiPixel in: 347 FE: 2 Col/Row 22/1 charge 120 e timestamp 0, from Point(s) 8

0 : Time 0 PndSdsDigiPixel in: 347 FE: 2 Col/Row 22/2 charge 280 e timestamp 0, from Point(s) 8

0 : Time 0 PndSdsDigiPixel in: 53 FE: 3 Col/Row 67/88 charge 0 e timestamp 0, from Point(s) -1

0 : Time 0 PndSdsDigiPixel in: 330 FE: 1 Col/Row 59/46 charge 20 e timestamp 0, from Point(s) -1

0 : Time 0 PndSdsDigiPixel in: 9 FE: 2 Col/Row 7/11 charge 0 e timestamp 0, from Point(s) -1

0 : Time 0 PndSdsDigiPixel in: 36 FE: 0 Col/Row 57/12 charge 20 e timestamp 0, from Point(s) -1

0 : Time 0 PndSdsDigiPixel in: 293 FE: 0 Col/Row 26/67 charge 0 e timestamp 0, from Point(s) -1

0 : Time 0 PndSdsDigiPixel in: 34 FE: 3 Col/Row 79/52 charge 0 e timestamp 0, from Point(s) -1

0 : Time 0 PndSdsDigiPixel in: 288 FE: 5 Col/Row 43/114 charge 20 e timestamp 0, from Point(s) -1

0 : Time 0 PndSdsDigiPixel in: 44 FE: 3 Col/Row 24/75 charge 0 e timestamp 0, from Point(s) -1

-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:
PndSdsHit in 273 at
(2.18827, -1.045, 2.42) cm with 22637.3 e at Time: 0, Cluster No. 0, mc point id = 0
hit.GetClusterIndex() 0
hit.GetBotIndex() -1
hit.GetRefIndex() 0
hit.GetNDigiHits() 3
hit.GetCharge() 22637.3(8.17208e-05 GeV)
hit.GetSensorID() 273
Error values in FairHit part: (dx,dy,dz) = (0.00288675,0.00288675,0.0057735)
-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:
PndSdsHit in 8 at
(4.78839, -2.13384, 5.32) cm with 20000 e at Time: 0, Cluster No. 1, mc point id = 1
hit.GetClusterIndex() 1
hit.GetBotIndex() -1
hit.GetRefIndex() 1
hit.GetNDigiHits() 2

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hit.GetCharge() 20000(7.22e-05 GeV)
hit.GetSensorID() 8
Error values in FairHit part: (dx,dy,dz) = (0.0057735,0.00288675,0.00288675)
-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:
PndSdsHit in 329 at
(-1.27265, 0.455, 1.98) cm with 16073.4 e at Time: 0, Cluster No. 2, mc point id = 5
hit.GetClusterIndex() 2
hit.GetBotIndex() -1
hit.GetRefIndex() 5
hit.GetNDigiHits() 2
hit.GetCharge() 16073.4(5.8025e-05 GeV)
hit.GetSensorID() 329
Error values in FairHit part: (dx,dy,dz) = (0.00288675,0.00288675,0.0057735)
-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:
PndSdsHit in 330 at
(-2.40051, 0.955, 3.98) cm with 22288.3 e at Time: 0, Cluster No. 3, mc point id = 6
hit.GetClusterIndex() 3
hit.GetBotIndex() -1
hit.GetRefIndex() 6
hit.GetNDigiHits() 2
hit.GetCharge() 22288.3(8.04607e-05 GeV)
hit.GetSensorID() 330
Error values in FairHit part: (dx,dy,dz) = (0.00288675,0.00288675,0.0057735)
-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:
PndSdsHit in 343 at
(-4.08911, 1.71765, 6.98) cm with 18279.6 e at Time: 0, Cluster No. 4, mc point id = 7
hit.GetClusterIndex() 4
hit.GetBotIndex() -1
hit.GetRefIndex() 7
hit.GetNDigiHits() 4
hit.GetCharge() 18279.6(6.59894e-05 GeV)
hit.GetSensorID() 343
Error values in FairHit part: (dx,dy,dz) = (0.00288675,0.00288675,0.0057735)
-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:
PndSdsHit in 347 at
(-5.77735, 2.495, 9.98) cm with 16073.4 e at Time: 0, Cluster No. 5, mc point id = 8
hit.GetClusterIndex() 5
hit.GetBotIndex() -1
hit.GetRefIndex() 8
hit.GetNDigiHits() 2
hit.GetCharge() 16073.4(5.8025e-05 GeV)
hit.GetSensorID() 347
Error values in FairHit part: (dx,dy,dz) = (0.00288675,0.00288675,0.0057735)
-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:
PndSdsHit in 53 at
(-3.02858, -4.28703, 2.955) cm with 1000 e at Time: 0, Cluster No. 6, noise hit without mc poit
hit.GetClusterIndex() 6

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hit.GetBotIndex() -1
hit.GetRefIndex() -1
hit.GetNDigiHits() 1
hit.GetCharge() 1000(3.61e-06 GeV)
hit.GetSensorID() 53
Error values in FairHit part: (dx,dy,dz) = (0.0057735,0.00288675,0.00288675)
-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:
PndSdsHit in 330 at
(-3.015, 0.575, 3.98) cm with 1200 e at Time: 0, Cluster No. 7, noise hit without mc poit
hit.GetClusterIndex() 7
hit.GetBotIndex() -1
hit.GetRefIndex() -1
hit.GetNDigiHits() 1
hit.GetCharge() 1200(4.332e-06 GeV)
hit.GetSensorID() 330
Error values in FairHit part: (dx,dy,dz) = (0.00288675,0.00288675,0.0057735)
-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:
PndSdsHit in 9 at
(3.41582, -3.31885, -5.705) cm with 1000 e at Time: 0, Cluster No. 8, noise hit without mc poit
hit.GetClusterIndex() 8
hit.GetBotIndex() -1
hit.GetRefIndex() -1
hit.GetNDigiHits() 1
hit.GetCharge() 1000(3.61e-06 GeV)
hit.GetSensorID() 9
Error values in FairHit part: (dx,dy,dz) = (0.0057735,0.00288675,0.00288675)
-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:
PndSdsHit in 36 at
(-2.91144, 4.38046, -7.405) cm with 1200 e at Time: 0, Cluster No. 9, noise hit without mc poit
hit.GetClusterIndex() 9
hit.GetBotIndex() -1
hit.GetRefIndex() -1
hit.GetNDigiHits() 1
hit.GetCharge() 1200(4.332e-06 GeV)
hit.GetSensorID() 36
Error values in FairHit part: (dx,dy,dz) = (0.0057735,0.00288675,0.00288675)
-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:
PndSdsHit in 293 at
(2.785, 0.335, 10.42) cm with 1000 e at Time: 0, Cluster No. 10, noise hit without mc poit
hit.GetClusterIndex() 10
hit.GetBotIndex() -1
hit.GetRefIndex() -1
hit.GetNDigiHits() 1
hit.GetCharge() 1000(3.61e-06 GeV)
hit.GetSensorID() 293
Error values in FairHit part: (dx,dy,dz) = (0.00288675,0.00288675,0.0057735)
-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:

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PndSdsHit in 34 at
(-1.20437, -5.08124, -3.385) cm with 1000 e at Time: 0, Cluster No. 11, noise hit without mc
poit
hit.GetClusterIndex() 11
hit.GetBotIndex() -1
hit.GetRefIndex() -1
hit.GetNDigiHits() 1
hit.GetCharge() 1000(3.61e-06 GeV)
hit.GetSensorID() 34
Error values in FairHit part: (dx,dy,dz) = (0.0057735,0.00288675,0.00288675)
-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:
PndSdsHit in 288 at
(2.315, 0.935, 7.42) cm with 1200 e at Time: 0, Cluster No. 12, noise hit without mc poit
hit.GetClusterIndex() 12
hit.GetBotIndex() -1
hit.GetRefIndex() -1
hit.GetNDigiHits() 1
hit.GetCharge() 1200(4.332e-06 GeV)
hit.GetSensorID() 288
Error values in FairHit part: (dx,dy,dz) = (0.00288675,0.00288675,0.0057735)
-I- PndSdsChargeWeightedPixelMapping TimeStamp: 0
-I- PndSdsPixelClusterTask::Exec(): Calculated Hit:
PndSdsHit in 44 at
(-5.24003, -0.175079, -4.435) cm with 1000 e at Time: 0, Cluster No. 13, noise hit without mc
poit
hit.GetClusterIndex() 13
hit.GetBotIndex() -1
hit.GetRefIndex() -1
hit.GetNDigiHits() 1
hit.GetCharge() 1000(3.61e-06 GeV)
hit.GetSensorID() 44
Error values in FairHit part: (dx,dy,dz) = (0.0057735,0.00288675,0.00288675)
-I- PndSdsStripClusterTask:: fDigiArray->Size(): 20
-I- PndSdsStripClusterTask:: fClusterArray size: 6
-I- PndSdsStripClusterTask:: fClusterArray size: 10
-I- PndSdsStripClusterTask:: fClusterArray size: 10
-I- PndSdsStripClusterTask:: fClusterArray size: 10

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And at each event I have the following message:

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EventTime: 0
EventTime: 0
-I- PndSdsStripClusterTask:: fDigiArray->Size(): 0
EMC header: fired crystals= 99, digi= 57, Total energy= 1.70795 [GeV], Reconstructed
clusters= 21, Total energy in clusters= 1.63535 [GeV]
PndFtsHitProducer Exec #####
EventTime: 0
EventTime: 0
-I- PndSdsStripClusterTask:: fDigiArray->Size(): 0

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EMC header: fired crystals= 83, digi= 58, Total energy= 2.24424 [GeV], Reconstructed clusters= 28, Total energy in clusters= 2.21341 [GeV]
PndFtsHitProducer Exec #####
EventTime: 0
EventTime: 0
-l- PndSdsStripClusterTask:: fDigiArray->Size(): 0
EMC header: fired crystals= 45, digi= 32, Total energy= 1.42629 [GeV], Reconstructed clusters= 16, Total energy in clusters= 1.40166 [GeV]
PndFtsHitProducer Exec #####
EventTime: 0
EventTime: 0
-l- PndSdsStripClusterTask:: fDigiArray->Size(): 0
EMC header: fired crystals= 62, digi= 43, Total energy= 2.07544 [GeV], Reconstructed clusters= 13, Total energy in clusters= 2.05008 [GeV]
PndFtsHitProducer Exec #####
EventTime: 0
EventTime: 0
-l- PndSdsStripClusterTask:: fDigiArray->Size(): 0

The digiarray size 0 sounds very suspicious.
