



UNIVERSITY OF
NOTRE DAME

The CMS ECAL DAQ system: electronics auto-recovery and monitoring

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Overview

A new monitoring system has been developed for the ECAL DAQ system to identify and log errors into a database

Playback Start Next ESDCC CCS DCC SRP TCC SLB OpI Tree Laser_fastcheck SysResources Light_(beta)

Resources Monitor ESDCC DCC CCS TCC oSLB SRP LaserFastcheck Laser SEU

Board Id: 1 EE- Running Context: 23000 SRP TCC BCO Count: 19456438 LIA Counter: 987189 BGo Start Count: 0 BGo Stop Count: 0 BGo ReSync Count: 2 BGo Hard Reset Count: 5	Board Id: 2 EE- Running Context: 23000 SRP TCC BCO Count: 19457919 LIA Counter: 987368 BGo Start Count: 0 BGo Stop Count: 0 BGo ReSync Count: 2 BGo Hard Reset Count: 5	Board Id: 3 EE- Running Context: 23000 SRP TCC BCO Count: 19459386 LIA Counter: 987349 BGo Start Count: 0 BGo Stop Count: 0 BGo ReSync Count: 2 BGo Hard Reset Count: 5	Board Id: 4 EB- Running Context: 23000 SRP TCC BCO Count: 19460859 LIA Counter: 987428 BGo Start Count: 0 BGo Stop Count: 0 BGo ReSync Count: 2 BGo Hard Reset Count: 5	Board Id: 5 EB- Running Context: 23000 SRP TCC BCO Count: 19461742 LIA Counter: 987470 BGo Start Count: 0 BGo Stop Count: 0 BGo ReSync Count: 2 BGo Hard Reset Count: 5	Board Id: 6 EB- Running Context: 23000 SRP TCC BCO Count: 19462627 LIA Counter: 987512 BGo Start Count: 0 BGo Stop Count: 0 BGo ReSync Count: 2 BGo Hard Reset Count: 5
Board Id: 7 EB+ Running Context: 23000 SRP TCC BCO Count: 19463512 LIA Counter: 987550 BGo Start Count: 0 BGo Stop Count: 0 BGo ReSync Count: 2 BGo Hard Reset Count: 5	Board Id: 8 EB+ Running Context: 23000 SRP TCC BCO Count: 19464398 LIA Counter: 987605 BGo Start Count: 0 BGo Stop Count: 0 BGo ReSync Count: 2 BGo Hard Reset Count: 5	Board Id: 9 EB+ Running Context: 23000 SRP TCC BCO Count: 19465284 LIA Counter: 987665 BGo Start Count: 0 BGo Stop Count: 0 BGo ReSync Count: 2 BGo Hard Reset Count: 5	Board Id: 10 EE+ Running Context: 23000 SRP TCC BCO Count: 19466173 LIA Counter: 987713 BGo Start Count: 0 BGo Stop Count: 0 BGo ReSync Count: 2 BGo Hard Reset Count: 5	Board Id: 11 EE+ Running Context: 23000 SRP TCC BCO Count: 19467013 LIA Counter: 987786 BGo Start Count: 0 BGo Stop Count: 0 BGo ReSync Count: 2 BGo Hard Reset Count: 5	Board Id: 12 EE+ Running Context: 23000 SRP TCC BCO Count: 19467905 LIA Counter: 987861 BGo Start Count: 0 BGo Stop Count: 0 BGo ReSync Count: 2 BGo Hard Reset Count: 5

Current Flags

Show / 25 entries

Since Timestamp Run Number Board Flag type

No data available in table

Showing 0 to 0 of 0 entries Previous Next

History

Run Number Board Flag type

Show / 25 entries

Since Timestamp Last Timestamp Run Number Board Flag type

25/01/2018, 18:38:17 CET	25/01/2018, 18:39:37 CET	308304	5	TcclnNNbldErr
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Auto Recovery

A new automatic recovery system has been developed and integrated into the system which identifies errors and reconfigures hardware in on detector and off detector electronics

It's performance has been measured by comparing the lost luminosity and downtime of ECAL and ES during 2016 and 2017