DCS Software Progress and Discussion

Where are we and How Will this Stuff Get Used?
DCS Software Overview

• Individual daemons monitor different equipment
• Data stored in central DCS mySQL DB
  – Not related to main MINOS DB!
• Data read out by:
  – Rotorrooter, to be archived in MINOS data stream
  – DCS Monitoring interface
    • Screen for shift workers
    • Status web page
  – DCS DBs at Soudan, FNAL can update each other to enable two control rooms
Current Schematic

Exists
Prototyped
Missing

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Offline?

• We will write DCS data objects to decode the raw DCS root objects
• The MINOS DB group will put that data into the main database
• You will want to use this in your analyses…

HOW?
Use Cases

• Two things will be important keys:
  – Time
    • What’s wrong now or in some time window?
  – Space
    • Is something wrong with this strip (…on up)

• And two classes of users will want to ask these questions
  – Data analyzers
  – Operators/shifters
    • This will draw data from the internal DCS DB, so we will deal with it, but it would be nice to have similar methods
Where to from here?

• What does the DCS group need to do to allow the software group to write code which answers these questions?
• Most progress made so far in the HV area
  – Let’s use Nat’s stuff as a testbed