



# L2 Turning On

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DAQ shifters meeting, 04/30/02



# Outline

- Downloading
- L2 turn-on procedures
- Trigger lists
- L2 experts
- Non-issues
- Schedule



# L2 Downloading

- COOR → TCC → L2 Crates
- Not automatic yet
- Currently: manual L2 configuration
- L2 Expert needs to make sure trigger bits are assigned appropriately
  - Contact the L2 expert when downloading a new run
  - Check L1/L2 rates for trigger bits in the global run
  - Free all triggers before downloading the global run



# Initial L2 turn-on procedure

- Edit COOR configuration file
  - Use\_l2 = 1
  - Initialize COOR
  - Configures trigger framework
  - Includes L2 Crates and inputs in all runs
- (Free all triggers)
- Download global run
  - L2 expert goes over bits and confirms bit locations
    - Trigger framework - L2 global configuration
- Start global run
- L2 expert also verifies L2 accept/reject rates



# L2 Experts

- Will be present at DØ during global run with L2
  - Until things are smooth or we have downloading fully working
  - 24 hour coverage
- Would monitor the state of the system from their office
  - Fast response time
  - Alert DAQ shifter of potential problems
- Tools:
  - DAQ monitor
  - Coormon
  - L2 monitoring display
  - L2 Alpha log files
  - L2 hardware debug programs



# Non-Issues

- SDAQ runs
  - COOR will include all L2 crates + inputs
    - Currently done by hand
    - Edit configuration file
  - Already tested, can run in parallel without affecting global run
    - CFT test stand ran at 50 Hz yesterday



# Schedule

- Yesterday (4/29)
  - Turned on L2 in pass-all mode in the morning
  - Turned off L2 this morning
- Next Tuesday/Wednesday
  - Analyze Monday's data
    - Make sure everything is still ok
  - Test COOR - L2 downloading
- Next Thursday (5/1)
  - Turn on L2 for all Physics runs with muon rejection
  - Loose L2 muon cut



# Impact on DAQ shifters

- Global run downloading
  - Contact L2 expert
  - SDAQ runs can only be downloaded after global run
- L2 expert on site 24/7
- New problem class:
  - L2 is not sending a decision
  - Appears as only trgfr 100% L1 busy
    - And “L1 awaiting L2” is 1
  - Usually a missing input for L2
    - scl\_init
    - Or contact L2 expert