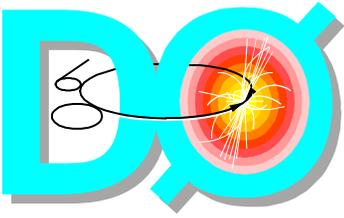


CTT Data Quality

- Run-by-run monitoring by CFT shifter
- Tools:
 - Online system diagnostics (ctt_mon etc.)
 - A/O term rates
 - CTT Examine (online comparison to trigsim)
- CTT expert on call updates database weekly (in theory)
 - Global judgment ('good', 'reasonable', 'bad') + sub-detector specifics based on elog (+ presence in control room)
 - Need to integrate offline ctt_analyze as/when it becomes available; will be in reco_cert

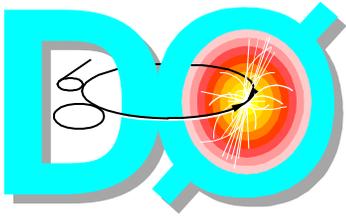


CTT Data Quality: Global Flags

- `good`: no problems we are aware of
- `reasonable` unfortunately now has two meanings:
 - old: ok for analysis; do not use for CTT trigger studies due to crate x13 problems
 - New: localized problems (e.g. AFE board misprogrammed Dec. 2003 – April 2004)
- Try to differentiate by adding fixed keywords
- `bad`: don't use this run if you need CTT

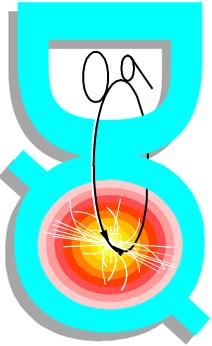
The screenshot shows a software window titled "File Help". At the top, there are tabs for "CTT", "CAL", "CFT", "MET", "MUO", "JET", "SMT", and "dummy". The "CTT" tab is selected. On the left side, there is a "Get Run Number" section with a "Qual =" dropdown menu set to "Unknown" and a "Run >" text box containing "175000". Below this is a large empty white rectangular area. At the bottom left of this section is an "Update Database" button. On the right side, there is a "Run Quality:" label followed by a dropdown menu set to "Unknown". Below this are several rows of data, each with a dropdown menu and a text box:

L1CFT	Unknown	
L1CPS		
L1FPS		
L1MUON		
L2CFT		
L2CPS_AXIAL		
L2CPS_STEREO		
L2STT		
L2FPS		



CTT data quality: additional keywords

- **default** (this keyword is entered when a whole run range is updated at once. It should be overwritten when run specific information is entered.)
- **afe_personality_bad**
 - **comment** **global physics run date**
 - **last good run before** 186155 **Dec 5, 2003**
 - **first run affected** 187168 **Dec 17, 2003**
 - **last run affected** 191735 **April 11, 2004**
 - **first good run after fix** 191880 **April 13, 2004**
- **x13_bad**
- **cps_calib** (for runs with a fixed CPS threshold, to be used for calibration)
- **afe_missing**
- **TSxx_bad** (if we can identify which sector is bad. For example TS67_bad TS68_bad TS69_bad)



CTT_analyze

- Data and distributions (efficiency vs. ϕ/η /PT, turn-on curves) available for all runs up to April 2004
- Available via CTT offline page
http://www.d0online.fnal.gov/www/groups/ctt/CTT/offline/ctt_offline.html

