

IceCube Detector Operations

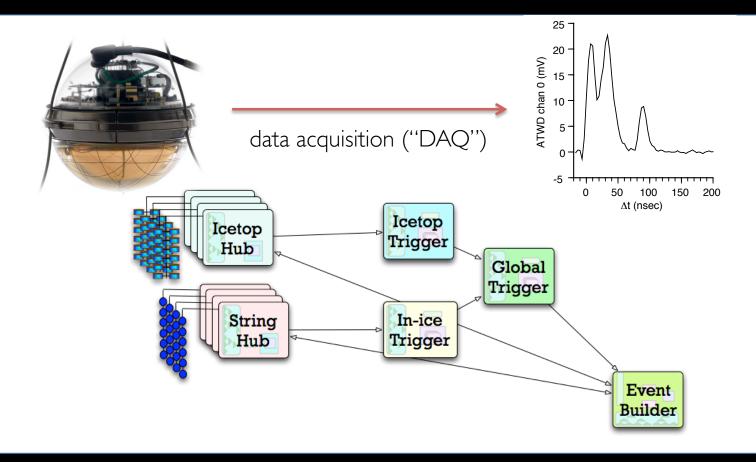
Keep the Detector Running!



winterover walking to IceCube Lab to fix a problem

supernova (remnant)

Detector Software



IceCube DAQ: Java, Python, C, C++ Form "triggers" from particle-like light patterns

Detector Control & Monitoring

SPS Status

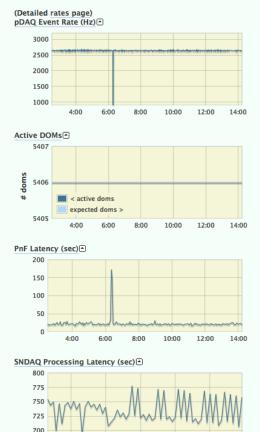
Data Acquisition

Current run: 122346 (8h:12m:41s) Run config: sps-IC86-adios-Skorpionen-again- V228 DAQ release: Capital_14431:103430M Total events: 75480758 Active DOMs: 5406		
Light mode: dark Change: LID		
Control Details -		
pdaq RUNNING		
Other Components		
DB	RUNNING stop	
GammaFollowUp	UNKNOWN waiting	
I3DAQDispatch	RUNNING stop	
I3MoniDomMon	RUNNING stop	
I3MoniDomSn	RUNNING stop	
13MoniDomTcal	RUNNING stop	
13MoniMover	RUNNING stop	
I3MoniPhysA	RUNNING stop	
OpticalFollowUp	RUNNING stop	
PFFiltDispatch	RUNNING stop	
PFFiltWriter	RUNNING stop	
PFRawWriter	RUNNING stop	
PFServer1	RUNNING stop	

Currently Watched Alerts

multirunfail	ОК
runfail	ОК
ICL overtemp max2	ОК
/mnt/data/pdaqlon.tar file count	ОК
Detector not taking data	ОК
ICL overtemp max1	ОК
ICL overtemp min2	ОК
ICL temperature too high	ОК
Lots of LBM overflows	ОК
Max WXGoose 3 Temp	ОК
Max WXGoose 3 Temp (pages)	ОК
Max WXGoose 6 Temp	ОК
Min WXGoose 1 Temp	ОК
Minimum Active DOMs	ОК
OFU latency too high	ОК
PnF latency too high	ОК
PnF rate too low	ОК
SERIOUS SN alert triggered!	ОК
Supernova DAQ state check	ОК
Test Alert	ОК
Time since SNDAQin running state	ОК
[/usr/local/pdaqdat file count]	ОК
Active Users jkelley now	

Graphs



I3Live: Python, JavaScript real-time updates via Iridium satellites

Keeping Track of Detector Issues



5,404 DOMs currently in operation

- 39-61 "Hydrogen": PMT imploded
- 07-36 "Cookie_Monster": dead
- 10-60 "Boerenkaas": bad ATWD chip
- 40-36 "Sheep": slightly unstable baseline voltage etc.!

Detector Upgrades at South Pole





Recreation

