

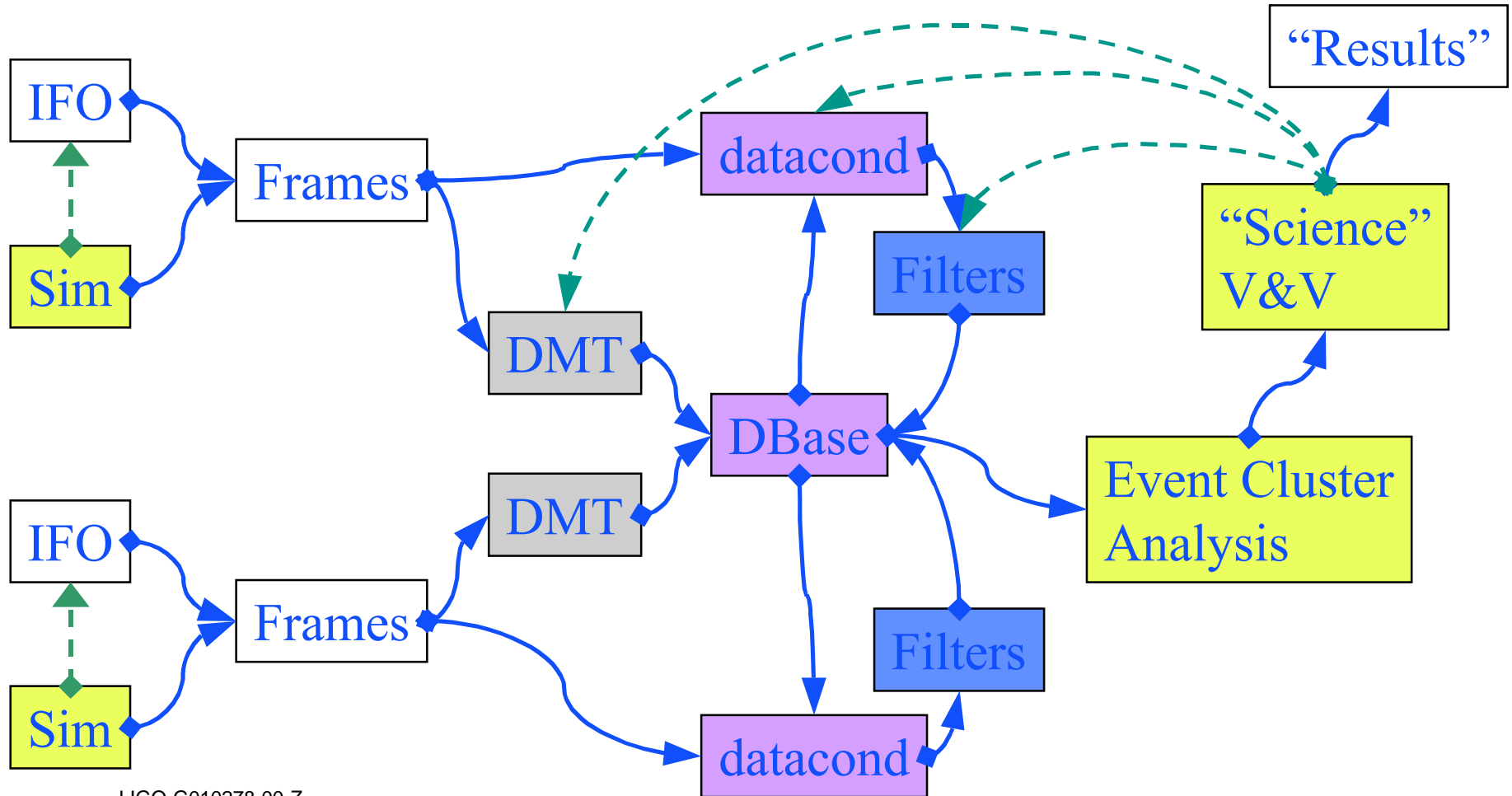


Burst Analysis Overview

LIGO Burst Analysis Working Group



Burst Pipeline



LIGO-G010278-00-Z

13 August 2001

Burst Analysis Group



Summary

- Analysis will involve non-DMT/LAL/LDAS
 - » Principally for analysis of event data
 - » Integration into analysis model via database
- LAL/LDAS analyses will require
 - » Frame data: strain channel, power-main monitors, seismic and other channels for regressions
 - » Non-frame data: calibration, transfer functions, detector quality channel, summary channel(s) constructed from DMT products
 - » Nodes per search: few (not yet properly scoped)
 - » Parallel searches: slope/zop; wavelet power, threshold; Z-M & ring-down matched filter; tid; excess power
 - » On-site analysis required for detector events and quick response; off-site for multi-detector cluster analysis
- Simulations
 - » Normal data with and w/o events; detector data with and w/o events

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