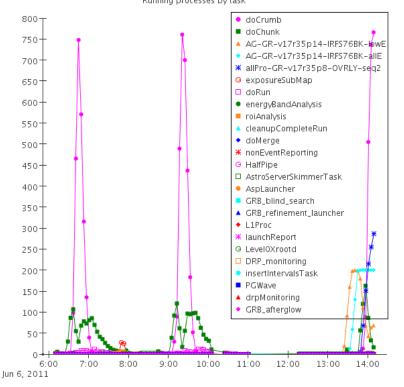
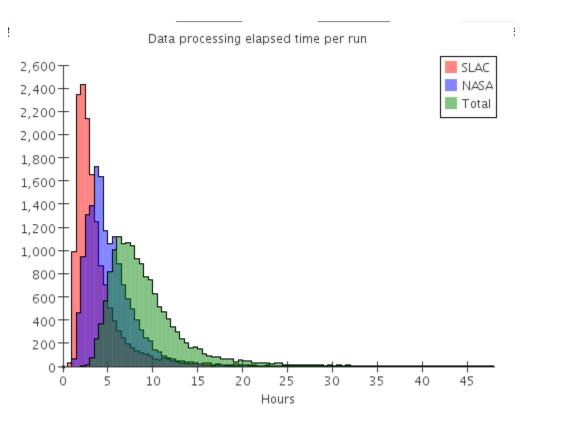
Fermi Special Time Critical Needs Or Why We Suspend Your Batch Jobs Every Three Hours

- Fermi data downlinked and delivered to SLAC every 3h:
 - Fermi put 800 cores in the general batch queues
 - We use them for <1h every 3h:</p>
 - The rest of the time you can use them
 - But when we need them we suspend any job already running on our cores.

– Why?



- From raw data on the satellite to the final analysis data for the end user:
 - ~8h
 - Includes downlink, data transfer to SLAC, data processing here (reconstruction, photon identification etc)

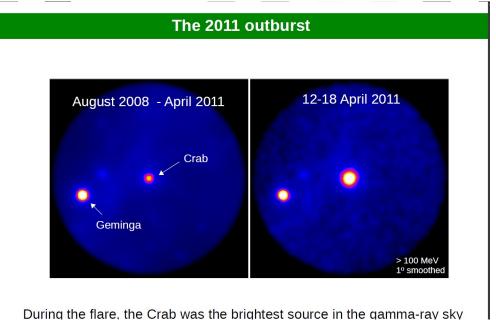


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Dynamic Sky

- The sky is dynamic on very short time scales:
 - From seconds to hours to days
- One instrument (wave-length) alone is not enough!
 - Need multi-wavelength campaigns to study objects
 - Need to alert other observatories/telescopes asap
- Example:





Summary

- Time is critical for the Fermi data processing!
 - So we suspend your jobs!
 - But remember:
 - You get access to 800 Fermi cores!
 - » Most of the time
 - And you can chose not to run on these cores!
 - » Bsub -R "-preempt"