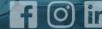




## A site view on potential ops automation (and other topics)

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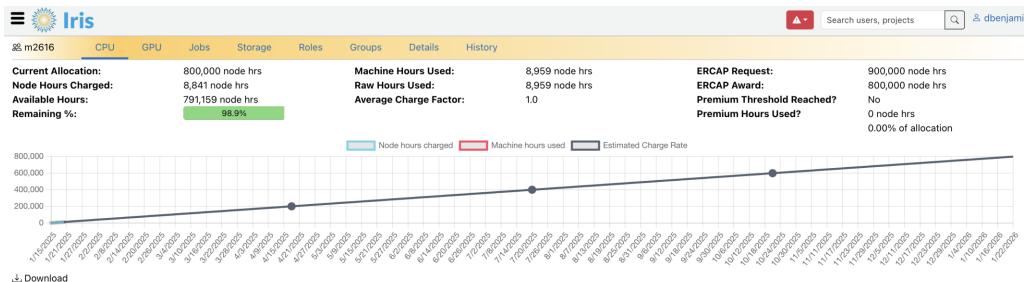


#### **Preamble**

- ATLAS Software and Computing labor has been declining for years
  - Will the trend continue? I think so ...
  - People turn over
    - retire or leave ATLAS
    - if replaced at all someone younger less experience but eager
- HL-LHC represents a challenge for ADC
  - Scope of work and amount of work is dramatically increasing
- Will automation help us do more with less?







- Some "Opportunistic" HPC are not really opportunistic
  - DOE Office of HEP (primary funder of LHC activities Sorry Kaushik) gives ATLAS time to use NERSC – it is use it or loss it
  - We are compared to CMS
- Other Funding Agencies in ATLAS also give us time in a similar manner if you don't use it
  you get less next time
- Request make Production system aware of these rules to ensure ATLAS uses time in a timely manner.



# Is a "US problem" "Site issue" or "ADC" issue? Sage words from Kaushik De

- "Since Patrick retired, I had to help out on debugging SWT2 site issues. I found that the monitoring systems are highly fragmented. Only experts know where to go to find useful information. It takes hours for sites to look through all the different pages to track down simple things like error rates in various components: DDM, Pilot, Harvester, Factory, JEDI, iDDS, PanDA, networking etc. We badly need monitoring unification. There are many features but not easy to find without asking Rod."
- Request unified monitor with improved visualization to help sites more quickly determine if problem is truly a site problem or not



#### **Crystal Ball Gazing**

User Analysis facilities (or whatever they are called these days)

- User analysis in HL-LHC will be more complicated
  - More data, more complicated measurements
  - New technologies (high IOPS storage/accelerators)
  - Not all sites will have all the same resources



#### An idea -

1 or 2 common analysis portals to direct "interactive" user analysis to correct site w/ resources. Data sharing, container, code etc



### Discussion time

