

# MINERvA's FIFE Experience

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FIFE Users Meeting

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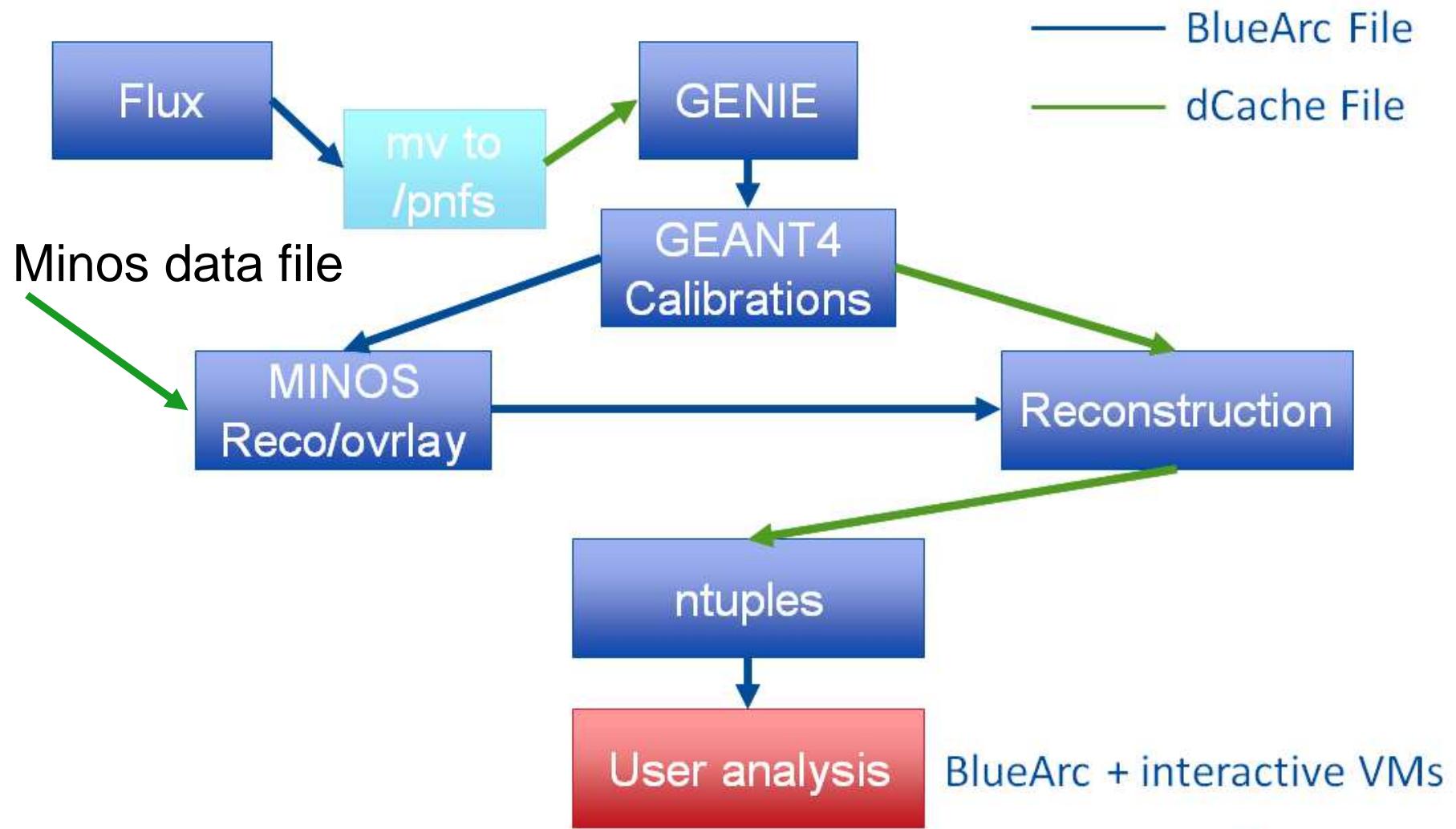


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# Outline

- MINERvA workflow
- Projects over the previous year
- Difficulties and challenges
- Future projects
- Requests?

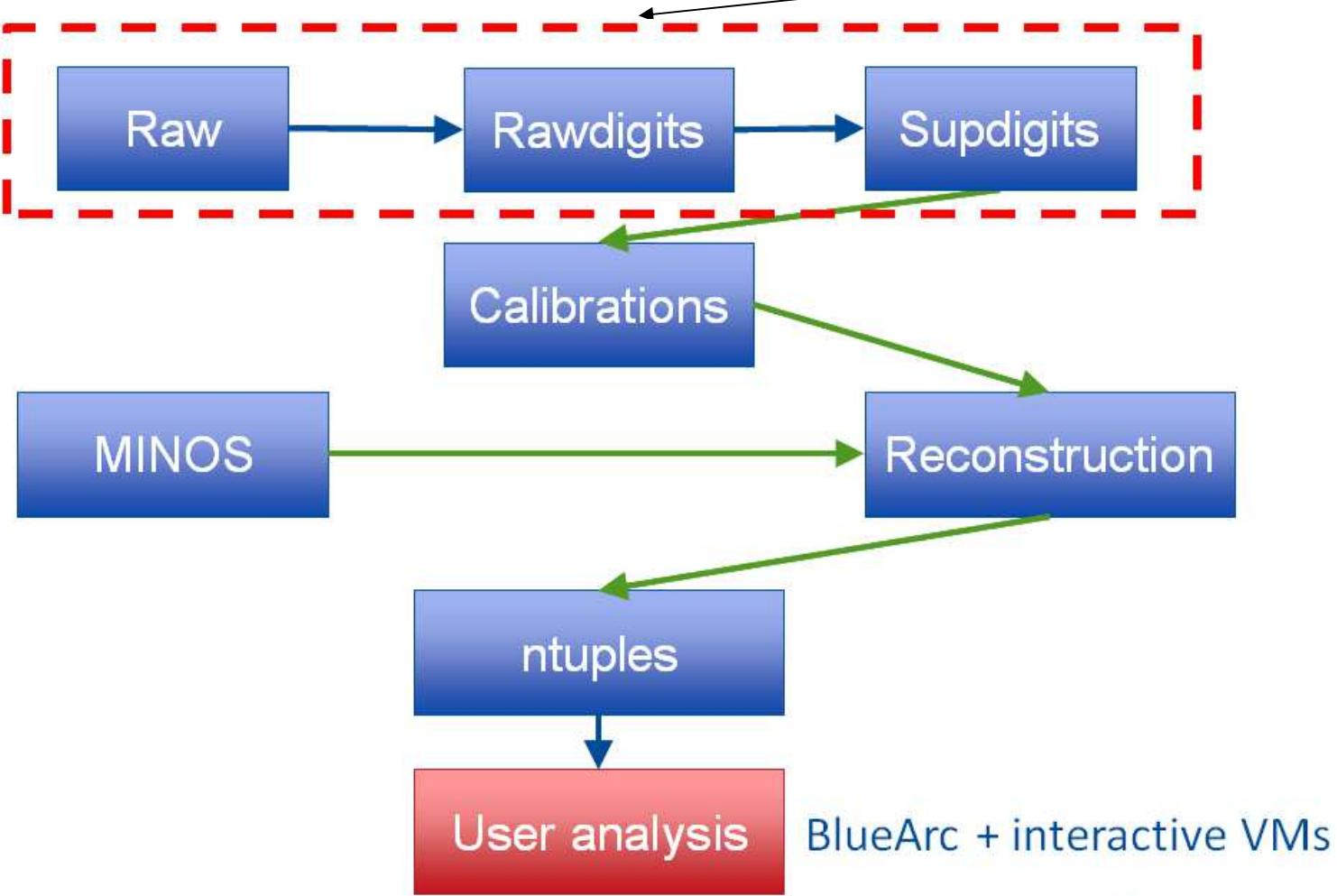
# MC File Flow



— BlueArc File  
— dCache File

# Data File Flow

keepup



# Services MINERvA Uses

- FermiGrid
- Jobsub\_client
- Ifdhc
- SAM
- FTS
- dCache
- Conditions database
- ELog

# Projects over the past year

- sam → samweb
  - Transition was mostly smooth except for a couple issues with a couple parameters being slightly different in the new system
- SL5 → SL6
  - Made the deadline, but lots of work to move. When is SL7 slated?
- BlueArc → dCache
  - Currently use dCache scratch areas for production. Moving to test out persistent dCache!
  - This will, hopefully, fix our periodic issues with locks on BlueArc

# Projects over the past year

- jobsub -> jobsub\_client
  - Went smoothly for the majority of our use cases thanks to FIFE support. Shared accounts have been trickier, but almost there!
- OPOS group integration
  - Been both very positive and helpful

# Difficulties and challenges

- BlueArc+dCache input/output files in same submission
- jobsub\_client and shared accounts
- Different performance of dags between jobsub and jobsub\_client
- Conditions database heavy jobs see large drops in node CPU efficiency.

# Ongoing projects and the future

- Hierarchical quotas
- Expanding use of the OPOS group
- Persistent dCache integration
- samweb projects
- CVMFS with the goal of running off site

# Requests

- Way to stagger job starts of certain job types
- Ability to have concurrent limit on a stage within a dag
- Ability to kill/hold/release all jobs in queue
  - Really useful if a certain user has gigantic efficiency issues due to any sort of issue

# Conclusion

- FIFE products and services are critical to MINERvA's physics program
- A lot of progress made to adopt the newest and best practices from FIFE over the past year
- Looking forward to continue working with FIFE to adopt services to better help MINERvA meet physics goalsfs