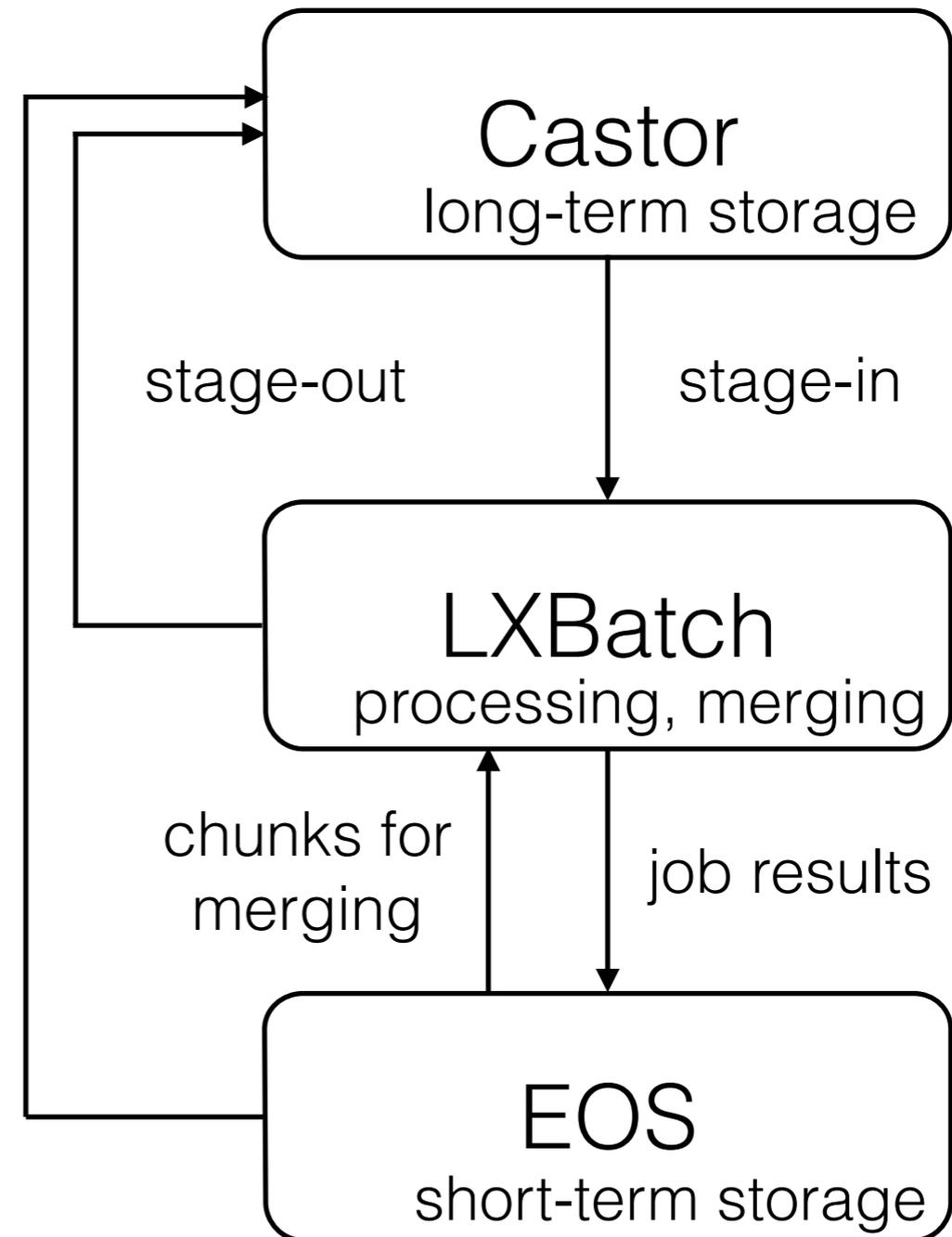


COMPASS dataflow 1/2

- All data stored on Castor
- Data is being requested to be copied from tapes to disks before processing (may take ~6 hours)
- Task moves files directly from Castor to lxbatch for processing, several programs are used for processing
- After processing results are being transferred to EOS for merging or short-term storage or directly to Castor for long-term storage
- Merging
- Results are being copied to Castor for long-term storage



COMPASS dataflow 2/2

- Data-preparation task is a separate process, each file should be requested once to avoid overloading Castor
- Amount of jobs running on lxbatch is controlled, should not be more than defined value (30)
- Depending on the job type (test or production) or size of resulting file job output may be either transferred to EOS to be merged or to Castor for long-term storage. Tests are not being copied to Castor
- Merging task is another job type being sent to lxbatch

PanDA instance in JINR

- MySQL version of server and monitoring deployed on virtual machine
- 2 queues defined: local and on lxplus.cern.ch under my username
- http://vm127.jinr.ru/bigpandamon/jobuser/Artem%20Petrosyan/?computingsite=ANALY_LXPUB_TEST

PanDA Extension for COMPASS

- COMPASSExperiment and COMPASSSite modules added to define experiment-specific logic
- Tested, runs perfectly, results go to the requested output directory:
 - COMPASS PHAST (<http://ges.web.cern.ch/ges/phast/>) software execution via PanDA adopted and tested with real root files on lxplus queue
 - PHAST payload submission to LSF
- Is being tested:
 - PanDA pilot with PHAST payload submission to LSF, status: pilot runs on lxbatch, sends monitoring messages to the server, fetches the job definition, executes the payload, but at some point loses the child processes

Summary

- Infrastructure is ready, software deployed and serves as supposed
- Data flow is defined (thanks to Elena Zemlyanichkina)
- Experiment-specific add-ons to PanDA is in development & testing stage
- The nearest expected result — possibility to execute COMPASS payload on LSF via PanDA job
- User how-to documentation preparation in progress