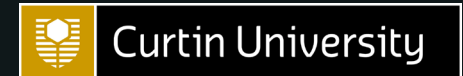




MWA ASVO Update

July 2022, MWA Project Meeting

Harrison Barlow – MWA ASVO Lead Developer

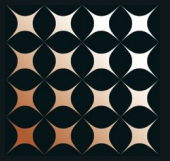




Updates

- Pawsey LTS
- MWA ASVO job processing
- Birli discussion
- Planned work





Pawsey LTS

- Acacia came online in Q1
 - 10PB allocation – 9PB for ingest and 1PB for ASVO
 - Successfully being used by the MWA ASVO to serve out data to the community.
 - Researchers are also starting to use Acacia for their workflows.
- Banksia came online in Q2 after an extended outage
 - Some minor teething issues initially but performance has been good.
 - Pawsey continue to work with the vendor to fine tune and improve the system.
 - 5.7PB already archived into Banksia since March 30th (all users).





ASVO Job Processing

- The new MWA ASVO backend was deployed in Q2
 - All jobs are processed on Garrawarla
 - Ability to leave data on /astro
 - Serve out data via Acacia
 - VCS downloads now supported
- System has successfully processed ~17,000 jobs and served out 872TB of data so far.
- Much more flexible, adaptable and scalable.



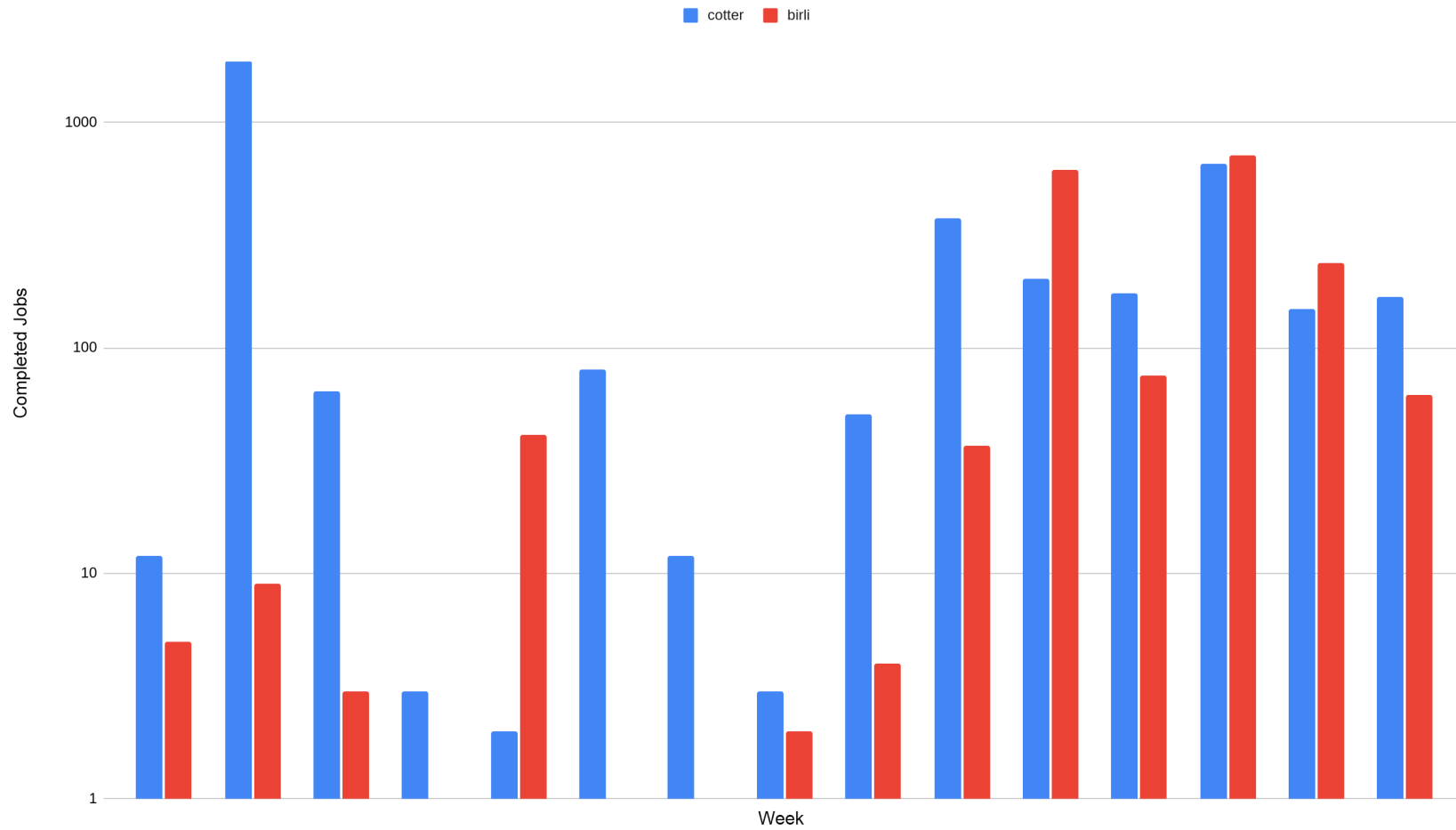
Birli

- MWA ASVO backend has been successfully using Birli since it was deployed.
- User adoption has been steadily increasing, use is now approximately at parity with Cotter.
- Aside from a minor bug effecting a very small number of jobs, Birli has ran thousands of times without issue.
- Credit to Dev, Chris, Luke from the Birli team!



Birli Adoption

Completed ASVO Jobs - Cotter vs Birli





- We are considering dropping Cotter support from the MWA ASVO.
- This has a number of benefits:
 - Allows me to focus on implementing all of Birli's features rather than support both
 - Supports MWAX
 - Fewer bugs
 - Fewer failed jobs
 - Better performance
 - Under active development and regularly getting new features
 - Well tested, flexible and reliable
 - Usable as a Rust library





Upcoming Work

- ARDC Project
- Implementing data lifecycle policy
 - Archive status page
- Quality of life improvements
 - Job history
- Your idea here



Help shape the MWA ASVO

- Always open to suggestions, improvements, feature requests.
- Tell us how we can make the ASVO help your work.
- Support and feedback – asvo_support@mwaterlescope.org.



Thank you!

Thank you!



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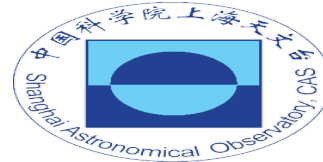
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