

Jason Boutte
Supported Projects: DREAM

Quarterly Report for October 1, 2017 - December 30, 2017

Quarter Accomplishments:

- Fixed bugs for CWT WPS server/End-user API [October-December]
- Updated Unit Testing for WPS server and WPS UI [October-December]
- Updated CDAS Docker/CWT WPS integration to new EDAS [October]
- Refactored WPS UI to utilize lazy module loading for increased responsiveness [October]
- Added scripts for database backups and docker image building [October]
- Fixed CDAT average for CWT WPS [November]
- Added CDAT diff, max, min, sum processes for CWT WPS [November-December]
- Added more metrics to CWT WPS [November-December]
- Added Ophidia avg, max, min, std, sum, var processes to CWT WPS [November-December]
- Added CWT WPS workflow frontend/backend support [November-December]
- Prepared Demo for ESGF F2F [December]
- Investigated parallel I/O through Dask distribute framework [December]

Next Quarter's Roadmap:

- Fix bugs for CWT WPS server/End-user API [January-March]
- Migrate aims2 from Docker Swarm to Kubernetes [January]
- Plan 3.0.0 version of WPS server and End-user API [January]
- Add more metrics for WPS server [February]
- Merge CWT CoG into production build/Testbed [February]
- Deploy CWT WPS on Federated Testbed [February]
- Plan/Design VISuS integration for data access for CWT WPS processes [February]
- Evaluate additional computational backends [February]
- Migrate Greyworm cluster from CentOS 6 to 7 and deploy kubernetes [March]
- Plan/Design CWT WPS federated operation (Security, Data management, Cache sharing) [March]

Resources Required to Achieve Goals

- N/A