Zeshawn Shaheen Supported Projects: PCMDI, ACME

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

Quarter Accomplishments:

- ACME
 - When a variable is missing from the reference or test data, the diagnostics run no longer halts. (October 2017)
 - Added systems test to plot on of each plot set with both backends.
 (October 2017)
 - o Released v1.0.1 of ACME Diagnostics. (October 2017)
 - Added debug parameter to stop diagnostics run when there's even a single error. (November 2017)
 - Working with Jill, implemented the table to summarize the metrics for each season, which is a part of the latitude-longitude set. (November 2017)
 - Released v1.1.0 of ACME Diagnostics. (December 2017)

CDP

- Finished CDP paper. Waiting for Dean to come back, and for Charles and Jill to finish their parts then. (October 2017)
- Added both Python 2 and 3 support to CDP. (November 2017)

Miscellaneous

- Interviewed various people. (October November 2017)
- Got Q-Clearance. (November 2017)
- Wrote a whitepaper with Soo, Jill, Ji-woo and Sasha for some ACME proposal thing. (December 2017)
- Went to ESGF F2F 2017 and presented. (December 2017)

Next Quarter's Roadmap

- Continue working on getting Xarray/Dask integrated into CDMS. (January March 2018)
- Dockerize ACME Diagnostics to make installation and running easier. This might also lead-in to the containerization of all parts of the E3SM Workflow. (January-Feburary 2018)
- Make more progress on ACME Diagnostics roadmap (March 2018)

Resources Required to Achieve Goals

 Help with testing of ACME Diagnostics. For the ACME Diagnostics, we'd only need Lina's help for about 2-3 weeks to get Jenkins up and running.

- By helping us test ACME Diagnostics, Lina will be able to get a high-level overview of how all of the AIMS software works together, CDMS, VCS, etc.
- This project is quite simple, but Lina doesn't even need to understand the inner-workings, just how to setup Jenkins to test large runs.
- There's an actual end goal for this and it's not endless: just setup Jenkins for ACME Diagnostics
- By doing this, Lina will also get accounts and her environments setup on the machines that we use.