

Project Status Report

JPL Parallel SPICE Implementation

As of 02/08/2021

Project Status Summary

Percent Complete: 0%

	Scope	We have had no issues with the scope of the project
	Schedule	We have reorganized the team management and task distribution to help with busy workloads
	Quality	There have been no quality issues thus far
	Issues	None

Work Planned For Last Week

- Redesign marshalling to better fit Spice parameter usage
- Merge the marshalling and dispatching parts of the project

Work Planned For This Week

- Improve task dispatch engine to better support SPICE call polymorphism
- Merge the marshalling and dispatching parts of the project

Open Issues

- We are working to get back on track and shift responsibilities to account for different class schedules this semester. Hopefully this will improve our deliverable lead time.

Deliverables and Milestones

Milestone	Planned	Forecasted	Actual	Status
Understand SPICE in a Java Context	10/12/2020	10/19/2020	10/19/2020	100%
Understand the scope of the project	10/12/2020	10/19/2020	10/19/2020	100%
Develop a preliminary design for parallelizing SPICE functions in Java	10/12/2020	02/12/2021	-	50%
Automating the coverage of the SPICE Library	01/25/2021	03/05/2021	-	5%
Deliverable	Planned	Forecasted	Actual	Status
Create a requirements document	10/19/2020	10/19/2020	10/19/2020	100%
Create a design document	10/19/2020	03/05/2021	-	45%
Develop a preliminary prototype of the user-side of ParSPICE	11/02/2020	02/12/2021	-	80%
Develop a preliminary prototype of the engine-side of ParSPICE	11/02/2020	02/12/2021	-	80%
Develop a prototype of ParSPICE with both the client-side and engine-side components	01/24/2021	03/12/2021	-	0%

Key Performance Indicators

- **Schedule** - Project is on Schedule
 - Schedule Variance (SV): +/- 14 days