

Project Status Report

JPL Parallel SPICE Implementation

As of 03/08/2021

Project Status Summary

Percent Complete: 0%

	Scope	We have had no issues with the scope of the project
	Schedule	Our original timeline has been modified, but we are comfortable with our current progress
	Quality	We have merged the TDT engine and gRPC layer and are currently testing automation build-out
	Issues	

Work Planned For Last Week

- Merge the marshalling and dispatching modules of the project
- Use our new SPICE function knowledge to improve our automatic code generation suite. Our generated code should now be more reliable.

Work Planned For This Week

- Complete the merge of TDT, gRPC, and automation code.
- Get the project demo-able for JPL sponsor

Open Issues

- No open issues

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	-	100%
Automating the coverage of the SPICE Library	01/25/2021	03/05/2021	-	50%
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	-	50%

Key Performance Indicators

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