Project Status Report
JPL Parallel SPICE Implementation
As of 11/1/2020

Project Status Summary   Percent Complete: 0%

🟩	**Scope**	We finally have a good, team wide understanding of the scope and are on track working towards our end goal.
🟨	**Schedule**	Spice and Gradle is springing up issues that are currently thanking longer than expected to solve
🟩	**Quality**	There have been no quality issues thus far.
🟨	**Issues**	Road block with Spice and Gradle.

Work Planned For Last Week

- Design a method for the marshaling of grpc calls to spice lib calls
  - Finnish preliminary prototype of function call marshaller
- Get a workerPool prototype working
  - There is a workerPool example in the Github repository of a workerPool in C#
  - Porting it to Java would be helpful
- Design useful benchmarks
- Work on design document
  - Completed outline of user code

Work Planned For This Week

- Mainly a continuation of tasks from last week
  - Design a method for the marshaling of grpc calls to spice lib calls
  - Get a workerPool prototype working
  - Design useful benchmarks
  - Work on design document

Open Issues

- Getting Gradle to work with the JNISpice Library is taking longer than expected

Deliverables and Milestones

Milestone	Planned	Forecasted	Actual	Status
Understand SPICE in a Java Context	10/12/2020	10/19/2020	10/19/2020	100%
Develop a preliminary design for parallelizing SPICE functions in Java	10/12/2020	11/16/2020	-	35%
Understand the scope of the project	10/12/2020	10/19/2020	10/19/2020	100%
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	11/16/2020	-	25%
Develop a preliminary prototype of ParSPICE	11/02/2020	11/23/2020	-	05%

Open Change Requests

- None thus far

Key Performance Indicators

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