Project Status Report
JPL Parallel SPICE Implementation
As of 10/12/2020

Project Status Summary   Percent Complete: 0%

🟨	**Scope**	With a good understanding of JNISpice and GRPC, we should have a good idea of our scope after our weekly standup on Tuesday.
🟩	**Schedule**	Our weekly team meetings suggest that our understanding of SPICE and potential solutions are steadily progressing.
🟩	**Quality**	There have been no quality issues thus far.
🟨	**Issues**	There is still no concrete scope for the project, but the team has a better grasp of the requirements and the team will discuss and decide on a formal sense of scope this week.

Work Planned For Last Week

- Develop example programs that calls SPICE functions in Java
  - Get an example program with multiple SPICE functions on the GitHub repository
  - Understand the function types that SPICE uses
- Research methods of parallelizing functions in Java
  - Develop a simple ZeroMQ prototype program
  - Develop a simple GRPC prototype program

Work Planned For This Week

- Develop a requirements document
  - The research we did on the various libraries we are working with gave us a good context to understand the requirements of our task
- Start on the design document
  - Along with the requirements document we would like to start an outline along with discussions of our design document

○ Our team is all on the same page on the general idea of the solution we want to produce. Translating our thoughts into a formal design document would be the next step to flesh out our ideas and fill any gaps in our understanding.

Open Issues

● Team operations have still been smooth

Deliverables and Milestones

Milestone	Planned	Forecasted	Actual	Status
Understand SPICE in a Java Context	10/12/2020	10/19/2020	-	90%
Develop a preliminary design for parallelizing SPICE functions in Java	10/12/2020	10/26/2020	-	25%
Understand the scope of the project	10/12/2020	10/19/2020	-	15%
Deliverable	Planned	Forecasted	Actual	Status
Create a requirements document	10/19/2020	10/19/2020	-	75%
Create a design document	10/19/2020	10/19/2020	-	10%
Develop a preliminary prototype of ParSPICE	11/02/2020	11/02/2020	-	0%

Open Change Requests

● None thus far

Key Performance Indicators

● **Schedule** - Project is on Schedule
    ○ Schedule Variance (SV):   +/- 7 days