4 Dec, 2017

Robert Trzeciak

Program Manager

Northrop Grumman IS

468 Viking Drive

Virginia Beach, VA 23452

757-498-5544 work

757-635-2628 mobile

**Progress Report – 1 Nov 2017 – 30 Nov 2017**

Contract Number: HSHQDC-06-D-00022

Contract Number 7500097279

Order Number: HSCG23-07-J-TED150

Task Order – Performance Work Statement (PWS) 1.12

Attachments: (1) SAROPS subcontractor financial reports.

1. **Jira meetings, e.g. Sprint Planning, Sprint retrospective, etc. Lots of meetings.**
2. **More prep for IPR that had been delayed. Re-did critical section on transits, including adding graphics and an explanation on the “piecemeal algorithm” for assigning all of the “Search Tasks” within a block within a sortie. This translates to “assigning all PatternVariables within a block within a PatternVariableSequence,” using my terminology from the last IPR. “Block” is a new term.**
3. **Attended IPR and subsequent day of Agile training in VA Beach.**
4. **Worked more on computing Transit Violation for each Frozen, and Transit Violation for Sortie. Did a more accurate job of dealing with the “launch time not given” problem**
5. **Worked more on re-reading, re-thinking, and re-doing the other facets mentioned in last monthly report:**
   1. **Parallel assignment for the initial box within an optimization pass, for the PatternVariables within a block of a PatternVariableSequence**
   2. **Computation of the (multiplicative) penalty for initial seeds for the boxes, during the initialization stage in “a.” above.**
   3. **Simplification of first release; PvSeq PVs can overlap anything, and we don’t do minor moves for PvSeq PVs.**
6. **Resurrecting sailboat voyage: Many hours in discussion, but code is pretty much resurrected. The last problem that I’m facing is that I’m not sure why I don’t compute what I called the “magic point” any more. The “magic point” was when the simulator was tacking and a switch in tack direction would eliminate tacking and aim the sailboat straight at its target (waypoint or destination). Regardless, the old case I had (Simple Sail) is seemingly working. There’s still work to be done based on this case; I’m not sure why so many of the particles are tacking starboard**
7. **I have put the “sail stage” into the particle file, but only the ordinal number of the stage. I needed a “translation” from ordinal number to string so that Judy can make sense of the these ordinals. I did that and put it into the particle file.**
8. **Discussed polars, SAILOR\_TYPE, the SAIL element, multiple SAILOR\_TYPEs, and additional parameters, until they were understood by Art, Judy, and Jim. I think we’re all on the same page now. Discussed in more detail, what the parameters for each type of sailor meant with Art.**

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| **Name** | **Activity Worked** | **Hours Worked** | **Hourly Cost** | **Total Cost** |
| Kratzke | Coding/Doc/Travel | 184.07 | -- | -- |
|  |  |  |  |  |
| **Totals** |  | 184.07 |  |  |
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