3 Mar, 2014

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 Feb 2014 – 28 Feb 2014**

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. **SAROPS Systems Component Services Tasks**
   1. **Found and fixed two bugs in Shut Down. In Sim as a Service, runs must be shut down smoothly and in standard cases, they are. But if something goes wrong, it was possible that shut down could leave part of Sim as a Service hung.**
   2. **Worked on SimLib01. Added intermediate points to the box, but introduced a bug. Ran that down and fixed it.**
   3. **Changed the timing and logging mechanism in Planner. A progress step is now allocated for each 4 seconds, and steps are allocated for each computation necessary for landed/adrift, selected particles, and all particles; each of these computations takes a fair amount of time. I also, as part of this, improved the ability to stop a planning session. Unfortunately, the post-processing, including the aforementioned steps, still must take place and these take a fair amount of time, so the “Stop” button doesn’t seem to stop things immediately.**
   4. **3 sets of installers. The latter two were not “complete efforts.” A complete effort involves updating 3rd party libraries, and running through nonregression cases.**
   5. **Changed the testing of the pattern-computation export. My own C++ program, which mimics Jim’s use of the library, now runs through many randomly selected cases, varying ps/cs, length, width, path length, etc.. This was in response to one of two bugs that Jim found in this code. Jim also sees some odd behavior that I cannot replicate. I reproduced the type of run that Jim is using, logged the results to a separate file, and see no similar problem. Awaiting further input.**
   6. **I now round the patterns that I export. Because this can change the path length that is used, I enlarged the set of values that I export.**
   7. **Judy is seeing some problems with planner’s “k of k steps completed by planner.” Started looking into that.**
   8. **Ran down a bug in voyages that wasn’t my doing, and one that was.**
   9. **Worked on the Sim Delay problem. AFAIK, I cannot do anything about this. I increased the logging to record when the message to start is received, and logged when it actually starts. Furthermore, I set things up (as a control experiment) so that a browser can start a (canned) case and that type of running shows no delay. Standing by for further input.**
   10. **Worked out and coded a different way to measure overlap. This is in preparation for doing a better planner, but I hope to use it in the current planner. This eliminates the “red cross” problem. To technical to discuss here, but I will say that it does not rely on or compute area of intersection.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Activity Worked** | **Hours Worked** | **Hourly Cost** | **Total Cost** |
| Kratzke (New Contract) | Coding/Doc/Travel | 94 | 261.27 | 24560 |
| Stone | Doc | 0 | 223 | 0 |
| L White (Tech Writer) |  | 0 |  | 0 |
|  |  |  |  |  |
| **Totals** |  | 94 |  | 24560 |
|  |  |  |  |  |