1 Oct, 2013

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**Progress Report – 1 Sep 2013 – 30 Sep 2013**

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. **Activities completed (Again, off one week at the beginning of the month):**
      1. **A kind of “non-bug” was popping up occasionally. When Sim-as-a-service (SaaS) is first fired up, the first case can “kind of go haywire.” When ASA “calls GetStatus,” they can get a server error return. The error code is 5000, which is very un-specific. Although the server error is generated, planner hasn’t crashed and indeed continues to work away, eventually finishing normally.  
         A possible explanation for this behavior is that ASA is calling GetStatus very often; GetStatus returns the time of each call and ASA is capturing these returns in a log file. The log file indicates that GetStatus is being called at least 4 times within a second. The first time that SaaS is called, the gshhs file is loaded (I don’t understand why this is being loaded for a planner run, but it is), and this might be too long an operation for ASA’s frequent calls.  
         The first fix that I put in was to allow only one call to GetStatus at a time. If a second call came in while another call is executing, I simply generate a “hold your horses” message as a response. I abandoned this because I didn’t want some user to repeatedly get this message until he happened to hit SaaS when nobody else was.  
         The 2nd approach I’ve taken is to automatically load up gshhs data when SaaS is started. I don’t know if that will fix it, but it’s in my latest release.**
      2. **I tried to clean up the installer by getting rid of dialogs. I took out as many dialogs during the install as I could. But some are still there and, after consulting with Advanced Installer, learned that I could not easily get rid of them.**
      3. **There might have been a bug in the building of SimLib01, the common waypoint generator. I rebuilt all 4 libraries (32/64 x Debug/Release) in my latest installer. Strangely enough, the java virtual machine in the 32bit version might have default memory parameters that are *insufficient to even load a minimal amount of code!* So I changed the C++ code to require slightly more memory and now it’s working.**
      4. **Continue to work on improving planner. Am slowly trying to introduce another C++ library in. This is a low-level effort and very non-intrusive. The goal is to be able to flip a switch and activate the new planner, always reserving the ability to revert back to the old planner.**
      5. **Answered several questions from Jack and one from Art. Art’s question concerned LOB distributions and how I deal with minRange/maxRange. My current code puts more particles in the longer ranges so that the distribution is uniform over area. Art is questioning that and wonders if it should be uniform in range. Awaiting further instructions on that after Art confers with Jack.**
   2. **Travel planned:**
      1. **IPR 10/16/2013**
   3. **Concerns or recommendations:**
      1. **Judy has a planner case that I’ll have to look at and it might be exposing a bug.**

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| **Name** | **Activity Worked** | **Hours Worked** | **Hourly Cost** | **Total Cost** |
| Kratzke (New Contract) | Coding/Doc/Travel | 64.1 | 255.16 | 16356 |
| Stone | Doc | 0 | 223 | 0 |
| L White (Tech Writer) |  | 0 |  | 0 |
|  |  |  |  |  |
| **Totals** |  | 64.1 |  | 16356 |
|  |  |  |  |  |