4 Nov, 2013

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**Progress Report – 1 Oct 2013 – 31 Oct 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. **Ran down 2 bugs; one in SLDMB and the other in Planner. Neither required any code changes. The first one was that I was aborting when times were not ascending and the 2nd was that we need updated patterns to be given to me. In short, this was just troubleshooting and not bug fixing.**
   2. **Cleaning up code. After Sept 20 installer, I did break the code. While testing, I discovered the problem and fixed it.**
   3. **“Mavenized” the dependency libraries. This is a much more organized way of tracking and maintaining the ~50 3rd party libraries that I use for such things as shpFiles, webServer, netCdf files, and miscellaneous mathematical utilities.**
   4. **More progress on getting a good version of Opt++. Tried two pure java solutions, but neither (commons-math and parallel colt) worked out. Robert Davies, author of newmat, which opt++ uses, helped me out quite a bit. The issue is getting something to compile, since opt++ is distributed only in code, and that code is written only for unix systems. MinGw, the unix translation C++ compiler, did not work well for 64bit, and it was awkward to develop with anyway. Much prefer MSVC.**
   5. **Consulted with Art about radar curves. In particular, how to combine them with visual. Side note; while running a case for Art, I discovered the bug mentioned in b.**
   6. **Built slides for IPR for both cleanup and planner improvement (what is primarily mentioned in the above bullets).**
   7. **Expanded SimLib01 to expose basic navigation calculations to the rest of the team via a C++ interface.**
   8. **DoEval is disabled in the “b version.” The “b version” is being exercised more and this is necessary to clean up my code. Until it is used, I can’t clean out obsolete file writing.**
   9. **More meetings and revisions/additions of slides for IPR, which was delayed two or three times.**
   10. **The installers are getting complicated to build. I wrote up directions on the steps that are necessary to build the installers that I provide. These write-ups are just for moving from one version to another and are not very thorough; they omit the entire setup. But things like “build the jar file,” “create the directory of 3rd-party libraries,” and “compile the Mat01Lib and SimLib01 libraries, the latter for (32Bit,64Bit) x (Debug,Release),” are now written up and I used it as a checklist for creating a new pair of installers. I hope this helps keep the process of creating new installers (not countying non-regression testing) down to a couple of hours at most.**

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| **Name** | **Activity Worked** | **Hours Worked** | **Hourly Cost** | **Total Cost** |
| Kratzke (New Contract) | Coding/Doc/Travel | 105 | 261.27 | 27433 |
| Stone | Doc | 0 | 223 | 0 |
| L White (Tech Writer) |  | 0 |  | 0 |
|  |  |  |  |  |
| **Totals** |  | 105 |  | 27433 |
|  |  |  |  |  |