02 Sep, 2015

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**Progress Report – 1 Aug 2015 – 31 Aug 2015**

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. **2 weeks of vacation.**
2. **Worked more on CUSP, and got sidetracked by a code cleanup. I have too many ways of storing collections of great-circle-arcs, and it was getting very confusing. I also thought I could speed things up by using a single storage mechanism that is essentially a tree. This performed well enough for memory, initialization, and detecting crossings in my test case. However, it failed miserably with my 1.4 million vertex loop test case, for detecting whether or not an arbitrary LatLng is contained within the loop or not. It turns out that the way I’m doing that is very efficient; 5000 tries take less than ½ second. Along the way, I did clean up a lot of code. All of this is a completely different branch from 2.02.**
3. **Fixed bug 2506 relating to another zero-weight scenario issue. This was a crash that took a while to replicate, but once I did, I put a fix in.**
4. **Had some problems with the installers. They installed fine on my machine and most others, but not on Young’s. Hard to debug since I couldn’t duplicate the crash and installer building debug cycles are pretty long. I kind of guessed what the problem was, rebuilt the installers, and they seem to be working now.**
5. **Figured out what the strange planner case where the SRU focused on a single particle but still had 85% probability left, was about. Will not fix that for 2.02 but will get the fix into my “going forward” version.**
6. **Still looking into adding a configuration file for Jetty (the 3rd party library that I use to convert my program to a web service) to turn off TRACK and TRACE. Seems to be the only way of turning it off.**
7. **Note: Am off a week in October and a week in November.**

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| **Name** | **Activity Worked** | **Hours Worked** | **Hourly Cost** | **Total Cost** |
| Kratzke (New Contract) | Coding/Doc/Travel | 86 | 282 | 24252 |
| Stone | Doc | 0 | 223 | 0 |
| L White (Tech Writer) |  | 0 |  | 0 |
|  |  |  |  |  |
| **Totals** |  | 86 |  | 24252 |
|  |  |  |  |  |