Subject: Re: Distance - geodesic - Vincenty - very accurate
Posted by nlneilson on Fri, 26 Mar 2010 10:09:49 GMT

I found where the glitch was. It had nothing to do with Ubuntu 10.04b (although I will drop that until the 10.04 release for other problems).

I ran some tests with the Linux version and found a problem.
The copy and paste from a web site for a location in deg,min,sec was not parsed correctly.

In another Java app, Location.jar, I spent a considerable amount of time parsing the different ways the location in lat,lon format is specified on the web.
http://www.nlneilson.com/nww.html

For the Distance app, Java or C++, unless the latlon is in decimal degrees, the lat and lon should be comma delimited, this eliminated many problems with odd ball formats.

The format that was a problem in the C++ Linux version is also a problem in the Win .exe version, I just did not catch that. I will go back into the parsing code and correct that.

The Java version worked but there were two function there:
.replaceAll("\\s+", " "); // This replaces several spaces with a single space
.trim(); // this removes leading and trailing spaces

I did not know the corresponding functions in C++, my error as usual.