

Re: GPS measured elapsed distance

Source: <http://sci.tech-archive.net/Archive/sci.geo.satellite-nav/2005-04/msg00849.html>

- *From:* cam@xxxxxxxxxxxxxxxxxxxx (Chris Malcolm)
 - *Date:* Fri, 15 Apr 2005 12:46:13 +0000 (UTC)
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Robbie <robbiex@xxxxxxxxxxxxxxxx> writes:

>I would like to share programming experience with those who have worked
>on public domain software for GPS measurement of elapsed distance.
>There are two basic approaches: one using rate x time and the other
>adding the distances between frequently obtained coordinates along a
>track. It is not a trivial problem due to position variability when the
>GPS is not in motion, limitations of the (PDA) programming languages
>regarding date-time data, and difficulties obtaining a regular "time
>tick" that is synchronized with the transmission of the GPS motion data.

Why do you need special software? I find that the trip distance total on my GPS matches to the distance recorded by my bicycle computer (based on wheel revolutions) to within 2%. On the few times when it goes from less than 2% to more than 2% but less than 5% the reason is obvious and easily discovered by inspection or by software: loss of satellite reception for some time. And once in a few hundred trips I got an error of a few thousand per cent, but again the reason was obvious: a spurious position fix which had me travelling hundreds miles at near the speed of light.

BTW, you shouldn't even be working with such a crap programming language that you actually have "limitations with regard to date-time data"!

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- *Follow-Ups:*
 - ◆ ***Re: GPS measured elapsed distance***
 ◇ *From:* Robbie
 - ◆ ***Re: GPS measured elapsed distance***
 ◇ *From:* Robbie

Re: GPS measured elapsed distance

- **References:**

- ◆ **GPS measured elapsed distance**

- ◆ *From: Robbie*

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