Subject: Re: number problem
Posted by Jeremy Bailin on Sat, 12 Jul 2008 21:58:41 GMT
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On Jul 10, 3:17 pm, "R.G. Stockwell" <notha...@noemail.com> wrote:
> <pgri...@gmail.com> wrote in message
>
> news:c8f5bb5a-7b15-4abd-bf13-1587add65abe@j22g2000hsf.google groups.com...
>
>
>
>> R.G. Stockwell wrote:
>>> <d.po...@gmail.com> wrote in message
>>> news:43fbf367-1b18-473e-a047-3ce39612f806@x35g2000hsb.google groups.com...
>>> .... snipped ...
>
>>>> yes that was the problem!!1
>>>> it is works properly.but for lat-lon data as you can see it is not:
>>>> 499690.96 3387795.6
>
>>>> i need more details like this
>>>> 499690.95879779 3387795.57157002
>
>>> WHOA WHOA WHOA WHOA!!
>
>>> While we are being pleasant and thinking about what we are doing,
>>> let's think about what it means when you say you need 8 digits of
>>> lat and lon. (hint, think in millimeters)
>
>>> Granted this is somewhat beside the point of how to read data, but if
>>> anyone
>>> ever reviews a lat or a lon with more than 2 decimal points, they will
>>> flag
>>> it.
>
>> On the other hand, google maps will pinpoint
>> the location of my office at
>
>> 42.381009N, 71.128014W
>
>> whereas that would be a bit off if it only
>> had 2 decimals... ;-)
>
>> Ciao,
>> Paolo
>
> True, 2 decimals places is about 1km (roughly). But 71.128014W
> implies a precision of about 10 cm. That is smaller than the window.

> Geophysical data - that is large enough to use lat and lon, is quite
> often not taken on a resolution of cms.
>
> Incidentally, three decimal places works just fine.
> 42.381N, 71.128W (100 m resolution)
>
> I used latitude with minutes and seconds in my phd defense, noting the
> position of
> an instrument. The examiner called me on it. Luckily I had used
> extremely detailed plots of the land to determine the lat and lon,
> and it did have an accuracy down to 10 meters. :)
>
> Cheers,
> bob

Well, that's an accuracy of 36 microarcsec. If those were sky coordinates (ie. RA, dec) instead of lat, long, that's perfectly reasonable in certain circumstances (eg. GAIA is supposed to give better astrometry than that).

-Jeremy.
