Subject: Re: evenly spaced vector
Posted by Craig Markwardt on Sat, 08 Sep 2012 03:40:19 GMT
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On Friday, September 7, 2012 3:40:25 PM UTC-4, sivan wrote:
> On Friday, September 7, 2012 5:06:48 PM UTC+3, Craig Markwardt wrote:
...
>>>> If you want equidistantly sampled points in *plot* space, then you need to transform to device coordinates first, then do your arcsampling.
...
>>>> Some warnings. ARCSAMPLE uses SPL_INTERP(), which has some overshoot for rapidly varying functions like yours. You may not want that. Also, you used David's original code which sets the endpoint slopes to AVGSLOPEX and AVGSLOPEY, but that assumes that it's still a closed curve. Yours is not a closed curve. For your open curves, you should revert to natural splines where the slope is not specified at the endpoints.
...
>> Yes. I described it above. "If you want equidistant points in plot space..."
...
> yes. i'd be perfect if i could place equidistant points along the curve (isochrone).
>
> you said that i needed to transform to device coordinates first, then did my arcsampling. it seems a little complicated to me. how can i do it?

Read about the IDL function CONVERT_COORD. You have data in DATA space and want to convert to DEVICE space before arcsampling.