Subject: Re: evenly spaced vector
Posted by Craig Markwardt on Thu, 06 Sep 2012 14:00:29 GMT
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On Thursday, September 6, 2012 7:22:21 AM UTC-4, sivan wrote:
> On Sunday, September 2, 2012 11:46:56 PM UTC+3, Craig Markwardt wrote:

> i appreciated for your reply.
>
>
>
> it doesn't matter whether I use arcsample or not.
>
> the problem is that i don't place evenly spaced points along the curve.
>
> modified or unmodified arcsample routine doesn't work as requested. i tried both.

I tried this example:

```
x0 = randomn(seed,5) & y0 = randomn(seed,5)
arcsample, x0, y0, x, y

plot, x0, y0 & oplot, x, y, psym=1
plot, sqrt((x(1:*)-x)^2 + (y(1:*)-y)^2)
```

It looks evenly spaced to me.

The points are evenly spaced along the (spline interpolation) path, but that does not necessarily mean equally distant from each other (linear interpolation).

ARCSAMPLE up-samples by a factor of 100. If you modify that to a larger and larger number, then neighbor points will tend to be more and more equidistant.

CM