Subject: Re: evenly spaced vector Posted by Craig Markwardt on Thu, 06 Sep 2012 14:00:29 GMT View Forum Message <> Reply to Message

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 = \text{randomn(seed,5)} \& y0 = \text{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