Subject: Re: evenly spaced vector Posted by sivan on Thu, 06 Sep 2012 17:22:00 GMT

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On Thursday, September 6, 2012 5:00:29 PM UTC+3, Craig Markwardt wrote:
> 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 necessaril 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 |
| this is the graphic: https://docs.google.com/open?id=0B8iEehZBld1OLUVXdndEQ2RwcE0 |
| as you can see, arcsample doesn't work properly. moreover, some points fall outside the curve. |
| this is the code and the data: https://docs.google.com/open?id=0B8iEehZBld1OaEI5UkJiTVFkelk |

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