Subject: Re: polar interpolation
Posted by Thomas Gutzler on Tue, 14 Jan 2003 01:36:16 GMT
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Hi,

Rick Towler wrote:
> "Thomas Gutzler" <tgutzler@ee.uwa.edu.au> wrote
>>
>> I want an interpolated curve in polar coordinates AND equidistant
>> theta-values. Since the original curve isn't a straight line it's really
>> complicated to pass the correct x-values to interpol so that
>> reconversion of the interpolated curve would have eqidistant
>> theta-values (of type integer).
>
> I might be missing something here (I usually am) but why won't simple linear
> interpolation work?

Hm, because I want it to be a spline or sth.

> If it is difficult to get one of the canned routines to
> work, brew your own:
>
> Interpolate between points a and b:
> iFactor = (Ti - Ta) / (Tb - Ta)
> Ri = Ra + (iFactor * (Rb - Ra))
> Where Ti is the Theta value where you are interpolating your radius Ri.

Thanx for this, but..
what I'm trying to do is to create the fitting function using spline and
solve this for the desired theta-values.
If I can't get this to work I will perhaps use your linear one.

Tom