Subject: Re: Reducing size of vector EPS / PDF output
Posted by Fabzi on Fri, 17 Jul 2015 13:31:21 GMT
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On 07/17/2015 02:59 PM, David Fanning wrote:
>>> Ha! Thanks, David. The code is quite crytpic to me (3 calls to
>>> spl_interp!?), but it works and makes beautiful curves;-)
> I don't understand it either. Craig wrote it for me. I do know it has
> been one of the most useful utility routines in the Coyote Library for
> me.:-)

It seems to be quite close to SPLINE_P, I just found out. Howver, with SPLINE_P you have to estimate the tangent at the junction point by yourself. See the following example:

```
pro test_curvature

   x = [0.5, 1.5, 1.5, 0.5, 0.5]
   y = [0.3, 0.3, 1.3, 1.3, 0.3]

   ArcSample, x, y, xas, yas
   spline_p, x, y, xsp, ysp
   t = [1., -1]
   spline_p, x, y, xsp2, ysp2, TAN0=t, TAN1=t

   cgPlot, [0, 2], [0, 2], /NODATA, /WINDOW
   cgPlots, x, y, color='black', /WINDOW
   cgPlots, xas, yas, color='red6', /WINDOW
   cgPlots, xsp, ysp, color='blu6', /WINDOW
   cgPlots, xsp2, ysp2, color='blu4', /WINDOW
   cgLegend, Titles=['ArcSample', 'spline_p', 'spline_p tangent'], $
         LINESTYLES=[0,0,0], COLORS=['red6', 'blu6', 'blu4'], $
         /ADDCMD, LOCATION=[0.2, 1.8], /DATA

end
```