
Subject: Re: Plot perpendicular lines of current plot?
Posted by [Loren Anderson](#) on Fri, 09 May 2008 13:06:28 GMT
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On May 8, 6:20 am, Frank Wang <Muchi0...@gmail.com> wrote:

> Hi all,
> I have a data set for a contour plot, then how can I plot lines
> perpendicular to the contour lines(just like contour using the /
> downhill keyword)? Is there any existing procedures, or how should I
> manipulate the data to get a proper matrix for this? A lot of thanks.
>
> Regards,
> Frank

I attempted this a while back with good results, but can't seem to find the code. Here's what I would do:

1) Use David Fanning's arcsample: <http://www.dfanning.com/programs/arcsample.pro> to find the indices of the original curve where you'd like to draw the perpendicular lines.

2) Find the slope of the original curve near these indices.

3) Take the negative reciprocal of this slope, create a new point from the equation of this line.

4) Connect the points output from arcsample to these new points.

I remember there being some strange sign issues that you'll have to work out.

-Loren
