
Subject: Re: contour with logarithmic axis

Posted by [Martin Schultz](#) on Mon, 11 Jun 2001 09:22:04 GMT

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Not sure if pwave does this the same way, but I suspect you need to use the irregular keyword in IDL or perform a triangulation to the log of the x and y axis in order to create something regular (linear) again before plotting.

Martin

Hilmar GUDMUNDSSON GL D21 2-4093 <hilmar@vaw.baug.ethz.ch> writes:

```
> -----0F6472BF5FFA11C34C831ACA
> Content-Type: text/plain; charset=iso-8859-1
> Content-Transfer-Encoding: 8bit
>
>
> Thanks, but it must be something different. I have !x.style=1 &!y.style=1.
> BTW I'm using PV-WAVE 7.0.
>
> Hilmar
>
> David Fanning wrote:
>
>> Hilmar GUDMUNDSSON GL D21 2-4093 (hilmar@vaw.baug.ethz.ch) writes:
>>
>>> I'm having problems with contour using a logarithmic x axis. When
>>> I contour the data using
>>>
>>>     CONTOUR, matrix, x,y, xrange = , yrange = [ymin,
>>> ymax], $
>>>     xtitle = x_t, ytitle = y_t, max_value = 1000., level = levels,
>>> xtype=1
>>>
>>> the contour lines only appear on a part of the plot. Depending on the
>>> exact values of xmin and xmax, the fraction of the plotting area that is
>>> contoured changes in an erratic fashion. I can use alog10(matrix) and
>>> alog10(x), which produces a plot which is OK but I would rather like to
>>> stick to having the x axis logarithmic if possible.
>>>
>>> Has someone else run into this problem? Any solutions?
>>
>> You are running into IDL's very persistent aesthetic
>> sensibilities about what constitutes "nice-looking"
>> axes. You have to hit it upside of the head. Try
>> setting the XSTYLE and YSTYLE keywords to 1. :-)
```


