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 pvwave does this th esame 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:

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>
> 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 used 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. :-)

>>
>> Cheers,
>>
>> David
>> --
>> David Fanning, Ph.D.
>> Fanning Software Consulting
>> Phone: 970-221-0438 E-Mail: davidf@dfanning.com
>> Coyote's Guide to IDL Programming: http://www.dfanning.com/
>> Toll-Free IDL Book Orders: 1-888-461-0155
>
> --
> G. Hilmar Gudmundsson
> Office: Home:
> VAW-ETH Zentrum Burstwiesenstrasse 21
> Gloriastrasse 37/39 CH-8606 Greifensee ZH
> Swiss Federal Institution of Technology Switzerland

> Switzerland
> Phone: +41-1-632 40 93 +41-1-940 51 15, (m) 079 706 30 20
> Fax: +41-1-632 11 92
> E-mail: hilmar@vaw.baug.ethz.ch
> http://www.vaw.ethz.ch/vi/vaw_gz.vi_web/members/hilmar.html
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David Fanning, Ph.D.
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> <pre>--
>   G. Hilmar Gudmundsson
>
Office: &am p;nbsp;   &am
p;nbsp;   &am p;nbsp;   &am
p;nbsp;   &am p;nbsp; Home:
>   VAW-ETH
Zentrum   &am p;nbsp;   &am
p;nbsp;   &am p;nbsp;   Burstwiesenstrasse
21
>   Gloriastrasse 37/39   &
nbsp;   & nbsp;   & nbsp;
CH-8606 Greifensee ZH
> Swiss Federal Institution of Technology
       Switzerland
>   CH-8092
Zürich   & nbsp;   &
nbsp;   & nbsp;   &
nbsp;

>   Switzerland
> Phone: +41-1-632 40 93   &nbs
p;   &nbs p;   &nbs
p;   +41-1-940 51 15, (m) 079 706 30 20
> Fax: +41-1-632 11 92
> E-mail: hilmar@vaw.baug.ethz.ch
> <A
HREF="http://www.vaw.ethz.ch/vi/vaw_gz.vi_web/members/hilmar.html">http://www.vaw.ethz.ch/vi/vaw_gz.vi_web/members/hilmar.html</A></pre>
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[[[
[[Dr. Martin Schultz   Max-Planck-Institut fuer Meteorologie   [[
[[Bundesstr. 55, 20146 Hamburg   [[
[[phone: +49 40 41173-308   [[
[[fax: +49 40 41173-298   [[
[[martin.schultz@dkrz.de   [[
[[