Subject: rotating contour lots
Posted by ahw199 on Thu, 26 Jul 2001 11:05:06 GMT
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I am trying to rotate a set of contours about 10 degrees, I understand
that I have to use the ROT command but I can't seem to get this to
work. All it seems to do is rotate the plot about 90 degrees and
squash the contours. Does anyone have any idea what I am doing wrong?

Subject: Re: rotating contour lots
Posted by Craig Markwardt on Thu, 26 Jul 2001 17:45:13 GMT
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ahw199@soton.ac.uk (Ann Webber) writes:

> I am trying to rotate a set of contours about 10 degrees, I understand
> that I have to use the ROT command but I can't seem to get this to
> work. All it seems to do is rotate the plot about 90 degrees and
> squash the contours. Does anyone have any idea what I am doing wrong?

Having little information, here are some ideas:

* you should either rotate the image beforehand, or the contours
  afterward. ROT is for images; why are you using it on the contours?

* ROT does have an ANGLE parameter which can be set to any angle, not
  just 90 degrees (were you really talking about the ROTATE
  function?) Again, this is for images, not contours.

* It may be easier to rotate the contours afterwards. You would
  extract the contours using the PATH_INFO and PATH_XY keywords to
  the CONTOUR procedure, and then apply a simple rotation
  transformation like:
    c = cos(theta) & s = sin(theta)
    xp = x*c + y*s
    yp = -x*s + y*c

Good luck,
Craig

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Craig B. Markwardt, Ph.D.   EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
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Subject: Re: rotating contour lots
Posted by Pavel A. Romashkin on Mon, 30 Jul 2001 15:51:06 GMT
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Craig Markwardt wrote:

> * It may be easier to rotate the contours afterwards. You would
> extract the contours using the PATH_INFO and PATH_XY keywords to
> the CONTOUR procedure, and then apply a simple rotation
> transformation like:
> c = cos(theta) & s = sin(theta)
> xp = x*c + y*s
> yp = -x*s + y*c

I think I am going to set up a newsgroup filter called "Craig", and redirect everything Craig writes to a folder "Geom_advice", where I will look every time I plan to use a coordinate transformation. You know, I studied all this before (I think) and even had an A+. But it is very hard when you forget something that you actually never really new :-(

Cheers,
Pavel