Subject: Re: crazy contour
Posted by news.qwest.net on Wed, 02 May 2007 19:00:46 GMT
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"R.G. Stockwell" <no@email.please> wrote in message
news:4638de7b$0$505$815e3792@news.qwest.net...

>
> I'll reduce the code and post it.

Note: this seems to be a problem with the ps code (I bet). Perhaps I
have a bad ps driver or something. It would be interesting to see if
anyone reproduces my problem. The thing to look for is: on the left hand
plot, at time = 2048. That column of the plot should continue the peak
of the chirp signal (i.e. the signal goes right to the edge). On my
postscript
file, the chirp ends at around time = 2000, and those final columns are
all "0", i.e. they are black. The plot on the right (using /cell) is
correct.
I see this problem in ps only, the problem does not appear if I plot to
screen.

```
len = 256.*8
t = findgen(len)
dt = 1

h = 10*cos(2*!pi*(40+t/7.2)*t/len)
s = s_trans(h,samp=dt)

loadct,0
set_plot,'ps'
name='c:\temp\crazycontour.ps'
 device,filename=name,color=0,xsize=6.5,xoffset=1,yoffset=2,y size=3,/inches

!p.charsize=1.
!P.multi=[0,2,1]
levels = findgen(15) - 2

contour,abs(s.st),s.time,s.freq,levels=levels,/fill,$
 xtitle='Time',ytitle='Frequency',title='(a) ST'

; this below creates the correct contour plot,
; HOWEVER on my system it creates a 77mb ps file.
; So go ahead and see what happens.
contour,abs(s.st),s.time,s.freq,levels=levels,/cell,$
 xtitle='Time',ytitle='Frequency',title='(a) ST'
```

```
device,/close
set_plot,'win'


end
```

The ST function is located at:
http://www.cora.nwra.com/~stockwel/rgspages/S-Transform/s_tr ans.pro

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