
Subject: Re: costum stretch an image

Posted by [ivitseva](#) on Tue, 01 Dec 2009 16:45:20 GMT

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Thanks for both answers, I worked on it the whole day choosing the second option for that seems to be faster and less typing. In fact it is fast and does process the image but the output is a "disaster", the values are there but only part of the image is processed it seems or in any case the geometry of the resulting image is a mess. The dimension of the output array is ok so are the projection and datum information but opening the image it seems that the area is folded or turned or something...I've never seen that before thus I have no idea what that problem could be. I could put the input and output onto an FTP server if needed. In any case here is what I did, can you please tell me why the output has a messed up geometry?

```
-----
pro stretch_idl

indir='X:\run\'
outdir='H:\eva\noa\phentimesat\'
infile=dialog_pickfile(path=indir,filter='*.bil')
strpos=strpos(infile,'\','reverse_search')

outfile=strmid(infile,strpos+1,15)
outname=outdir+outfile+'.str'+'.bil'

ns=5407
nl=4650

openr,lun,infile,/get_lun
image=fltarr(ns,nl)
readu,lun,image
free_lun,lun

v = [-12, 0, 35, 48] ;--- output values
x = [0., 37., 72., 82.] ;--- input values

output=interpol(v,x,image)
output=round(output)

close, /all

openw,lun, outname, /get_lun
writeu,lun, output
free_lun, lun
close, lun
```

```
header=outdir+outfile+'str'+'.hdr'
openw, 3, header
printf,3,'ENVI'
printf,3,'samples =' +STRCOMPRESS(ns)
printf,3,'lines  =' +STRCOMPRESS(nl)
printf,3,'bands  = 1'
printf,3,'header offset = 0'
printf,3,'file type = ENVI Standard'
printf,3,'data type = 2'
printf,3,'interleave = bsq'
printf,3,'sensor type = AVHRR'
printf,3,'byte order = 0'
printf,3,'map info = {INSPIRE-LAEA, 1.0000, 1.0000, 0.0000, 0.0000,
1.00000000000e+003, 1.00000000000e+003, ETRS89, units=Meters}'
printf,3,'projection info = {11, 6378137.0, 6356752.5, 52.000000,
10.000000, 4321000.0, 3210000.0, ETRS89, INSPIRE-LAEA, units=Meters}'
printf,3,'band names = {sos83}'
CLOSE, 3

print,'Done!'

end
```
