Subject: Re: image data extraction
Posted by landers on Fri, 03 Jun 1994 13:39:24 GMT
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Finding image data along a line...

This just picks points from the image. It doesn't do any image interpolation or anything like that. Just finds the closest x,y to the line.

Just some code fragments I sucked out of one of my codes:

```
; Line endpoints are (x1,y1), (x2,y2) (these are indices into the image)
; image size is (Mx,My)
: There are two methods here. The first works better for more
: horizontal cuts, the second for more vertical. You could put a test
; on the slope of the line, and choose your method accordingly.
; Horizontal cuts:
; first figure out how many points you want to grab between the ends.
Nx = Abs(x2 - x1) > 1
Ny = Abs(y2 - y1)
; find the x and y indices into the image along the cut
; get one point for every x pixel in the cut line, and figure the
; corresponding y points
thex = Long(Lindgen(Nx + 1) + x1)
they = Long( Lindgen( Nx + 1 ) * Float(Ny)/Nx + y1 )
image_line = image( they * Mx + thex )
; Vertical cuts:
Nx = Abs(x2 - x1)
Ny = Abs(y2 - y1) > 1
; get one point for every y pixel in the cut line
thex = Long(Lindgen(Ny + 1) * Float(Nx)/Ny + x1)
they = Long(Lindgen(Ny + 1) + y1)
image line = image(they * Mx + thex)
```

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