Subject: Re: fast magnification routine needed
Posted by knipp on Mon, 13 Jun 1994 08:06:07 GMT
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In article eml@news.service.uci.edu, vshvetsk@fourier.oac.uci.edu (Victor Shvetsky) writes:
>
> I have a 20x20 array that I would like to magnify to 200x200
> It works like this- as my cursor moves around the picture, that part of the picture is magnified in real time in a second window by a facvtor of ten (20->200)
> Right now I am using the REBIN routine,, and I was wondering if there is anuything FASTER than that. Is it possible to STORE THE WHOLE image magnified into the memory and just display a part of it in the window- wouldiot be faster?
> If so, what is the command that SAVES the image into the memory, because
> I know to retrievce, I hhave to typre: tvrd
> Thanks in advance
>

If you have got enough memory try the following:

```
 ; ima: original image
 ; mag: magnified with factor 10

window, /free, xsize=cols, ysize=rows  ; window for original image
w_ori = !d.window

window, /free, xsize=200, ysize=200  ; window to display zoom
w_zoom = !d.window

mag = rebin(ima, 10*cols, 10*rows)
window, /free, xsize=10*cols, 10*rows, /pixmap ; window for mag. image
      ; in case the keyword /pixmap is
      ; NOT working in your environment,
      ; simply position the window
      ; outside your screen
      ; p.e., xpos=1536, ypos=1024
      ;
w_mag = !d.window

finitum = 0     ; control repeat-loop

repeat begin

 wset, w_ori
 cursor, xc, yc, /change, /device
 if !mouse.button eq 4  then finitum = 1 ; to exit loop

 wset, w_zoom
```

```
 xc_z = xc * 10  -  100  ; test here for inside image
 yc_z = yc * 10  -  100

 DEVICE, COPY=[xc_z, yc_z, 200, 200, xc-10, yc-10, w_mag]


endrep until finitum
```

Hope it works,

Karlheinz


```
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```