## 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, vpos=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
```

Subject: Re: fast magnification routine needed Posted by peter on Mon, 13 Jun 1994 16:34:38 GMT

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Victor Shvetsky (vshvetsk@fourier.oac.uci.edu) wrote:

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Victor,

By far the fastest way to copy images around is to let the X server take care of it. Assuming you have a displayed image, use TVRD to read the screen, then magnify the whole image with REBIN and display it in a hidden pixmap (see the /pixmap keyword to WINDOW). Then, use DEVICE, /COPY to copy sections of the pixmap to your displayed window. You should get real time performance this way.

## Subject: Re: fast magnification routine needed Posted by velt on Mon, 13 Jun 1994 20:15:23 GMT

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In article eml@news.service.uci.edu, vshvetsk@fourier.oac.uci.edu (Victor Shvetsky) writes:

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- > Thanks in advance

>

Try pixmaps and device,copy=[]. That works absolutely fabulous. I flip through various (large) images very fast.

Robert Velthuizen velt@rad.usf.edu