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Subject: Data I/O problem on IBM R6000  
Posted by [pellet](#) on Mon, 23 Jan 1995 19:02:54 GMT  
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I'm facing a rather strange problem (bug?) when trying to write images to file with the WRITE\_SRF routine.

If I take a byte array Z, write it to a file and then read it back it is ok.  
But if I do the same with a sub-part of that array Z1 then the read image is incorrect. Both the WRITE\_SRF and TIFF\_WRITE routines show this behaviour.  
I tried this on three different systems and only the IBM R6000 shows the malfunction. Here's the code that shows it.

;1) Create an image. View, save, read and view again the image.

```
z=bytarr(256,256)
for i =0,255 do z(i,*)=i
tv, z
write_srf, 'z.img', z
read_srf, 'z.img', zz
window,2
tv, zz
;The 2 images should and are identical.
```

;2) Take a subframe of that array and do the same operations.

```
z1 = z(21:200,20:200)
wset, 0
erase
tv, z1
write_srf, 'z1.img', z1
read_srf, 'z1.img', zz1
wset, 2
erase
tv, zz1
result = where(z1 NE zz1, count) & help, count, result
```

At this point I see 2 different images, and the output of the last command should be:

```
COUNT      LONG    =      0
RESULT     LONG    =     -1
```

but I get:

```
COUNT      LONG    =     3908
RESULT     LONG    = Array(3908)
```

So, if anyone has any ideas/suggestions they are very wellcomed (sp?).

Jeff

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