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Subject: READU on IRX and Win95

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When I use READU on the same file in Win95 and IRIX, I get different results.

Is this possible? How would I read the file on a Win95 system?

I am trying to read a binary file of 32-bit floats with the following code:

```
function readfile
```

```
; This function will read the data in 'D:\data\thunderb.653'
```

```
; as an array of floating point (32-bit) numbers. It assumes
```

```
; the array has 716 columns, and calculates the number of rows.
```

```
; It returns the array.
```

```
file='thunderb.653'
```

```
openr,LUN,file,/Get_Lun
```

```
result=fstat(LUN)
```

```
nbytes=result.size
```

```
nx=716L
```

```
ny=nbytes / 4L /nx
```

```
image=fltarr(nx,ny)
```

```
readu,LUN,image
```

```
free_lun, LUN
```

```
return, image
```

```
end
```

The results I get are quite different:

On Win95

```
IDL> print,a(1:5,1:5)
```

```
-6.32813e-023-4.27821e+008-6.32846e-023-4.27903e+008 1.08637e+024
```

```
9.04917e-041-4.27821e+008 8.09951e-043 3.67981e-042 4.16997e-008
```

```
9.24857e-044-6.32813e-023-4.27838e+008-6.33169e-023-6.33524e -023
```

```
1.08622e+024 8.09951e-043 4.16942e-008-6.33718e-023-4.28427e+008
```

```
-4.27903e+008 3.67981e-042 1.44418e-041-4.28427e+008-6.34203e-023
```

```
% Program caused arithmetic error: Floating underflow
```

On an IRIX system:

```
IDL> print,a(1:5,1:5)
```

```
32.4000 32.2000 32.9000 34.7000 35.1000
```

```
31.5000 32.2000 32.5000 34.5000 38.3000
```

```
32.0000 32.4000 32.7000 37.9000 43.4000
```

```
33.1000 32.5000 36.8000 46.4000 50.7000
```

```
34.7000 34.5000 42.0000 50.7000 53.9000
```

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