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Subject: Bug in IDL's FILE\_INFO function

Posted by [Dave Wuertz](#) on Thu, 30 Aug 2007 19:49:06 GMT

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Folks,

I believe there's a bug in the FILE\_INFO function. I am running IDL v6.4 on Linux.

I'm writing a program that does a lot of file updates and it's necessary for me to get the current file size after an update to an open file. I decided to use FILE\_INFO rather than FSTAT because I also must first check to see if the file exists. FILE\_INFO can tell you if the file exists as well it's size in bytes. It's also newer than FSTAT, so I thought I'd just use FILE\_INFO exclusively in my program.

Well, things just weren't making sense, and I boiled it down to this. If I append a new record to a file and immediately check the file size with FILE\_INFO it gives me the wrong size. It returns the size BEFORE the record was added. However, FSTAT will give the correct new size. And, once FSTAT has been called, then FILE\_INFO knows about the new size. It's like FSTAT issues a FLUSH, because the only way FILE\_INFO gives the correct size is if FLUSH (or FSTAT) is called first. This is fine, however there is no mention in the documentation that FLUSH must be called first.

Below is some code to illustrate the problem:

```
pro file_info_vs_fstat
```

```
fname = 'test.txt'
openw, lun, /get_lun, fname
nrec = 3
for i = 0, nrec-1 do begin

    print, 'Before writing record file_info.size, fstat.size:', $
        (file_info( fname )).size, (fstat( lun )).size,
    format='(a,1x,2i6)'

    printf, lun, 'This is record number ', i

    print, 'After writing record file_info.size, fstat.size:', $
        (file_info( fname )).size, (fstat( lun )).size,
    format='(a,1x,2i6)'

    print, ' ' ; print blank line for readability
```

```
endfor
free_lun, lun
```

```
return
end
```

```
..... Run above procedure
```

```
.....
IDL> file_info_vs_fstat
```

```
Before writing record file_info.size, fstat.size:  0  0
```

```
After  writing record file_info.size, fstat.size:  0  31
```

```
Before writing record file_info.size, fstat.size:  31  31
```

```
After  writing record file_info.size, fstat.size:  31  62
```

```
Before writing record file_info.size, fstat.size:  62  62
```

```
After  writing record file_info.size, fstat.size:  62  93
```

```
.....
Now, if you replace the "After" print statement with the following one
that simply
reverses the order the two functions are called, you then get the
correct result from
the FILE_INFO function:
```

```
    print, 'After  writing record fstat.size, file_info.size:', $
          (fstat( lun )).size, (file_info( fname )).size,
format='(a,1x,2i6)'
```

```
IDL> file_info_vs_fstat
```

```
Before writing record file_info.size, fstat.size:  0  0
```

```
After  writing record fstat.size, file_info.size:  31  31
```

```
Before writing record file_info.size, fstat.size:  31  31
```

```
After  writing record fstat.size, file_info.size:  62  62
```

```
Before writing record file_info.size, fstat.size:  62  62
```

```
After  writing record fstat.size, file_info.size:  93  93
```

```
.....
Ciao,
```

```
-Dave Wuertz
```

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