
Subject: Problem with ASSOC,/PACKED
Posted by [bjackel](#) on Tue, 29 Feb 2000 08:00:00 GMT
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Greetings

I've run across a bug(?) using ASSOC,/PACKED
This appears under v5.3 for Win9x, and v5.2 on
SGIs.

If anyone has spare time, could you look
at the following demonstration script to see if
I'm doing anything obviously wrong. Tests
on other architectures or versions would also
be welcome.

```
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;  
;This IDL script demonstrates a problem with ASSOCIATED I/O,  
;probably due to a largeish (4516 byte) structure.
```

```
PRINT,!version
```

```
PRINT,'Start with a small test structure '  
test= {TEST_STRUCTURE, utime:0.0, data:FLTARR(75) }  
HELP,/STR,test  
PRINT,' '
```

```
PRINT,'Write it to a file'  
data= REPLICATE({TEST_STRUCTURE},10)  
data.ptime= FINDGEN(10)  
OPENW,1,'test.dat'  
WRITEU,1,data  
CLOSE,1  
PRINT,' '
```

```
PRINT,'Check out the times, should be 0,1,2...'  
dat= {TEST_STRUCTURE}  
OPENR,1,'test.dat'  
READU,1,dat & PRINT,dat.ptime  
READU,1,dat & PRINT,dat.ptime  
READU,1,dat & PRINT,dat.ptime
```

```
CLOSE,1
PRINT, ''
```

```
PRINT, 'Try using ASSOC, /PACKED (should give same result, does)
OPENR, 1, 'test.dat'
dat= ASSOC(1, {TEST_STRUCTURE}, /PACKED)
PRINT, (dat[0]).utime
PRINT, (dat[1]).utime
PRINT, (dat[2]).utime
CLOSE, 1
PRINT, ''
```

```
PRINT, 'Make a bigger structure '
windii_data= {WINDII_DATA, emission_rate:0.0,
sigma_emission_rate:0.0, $
                wind_speed:0.0, sigma_wind_speed:0.0,
$
                temperature:0.0, sigma_temperature:0.0}

windii_l2fd_redgreen= {WINDII_L2FD_REDGREEN, $
                        juldate:0.0, utime:0.0, dtime:FLTARR(2), $
                        altitude:FLTARR(75), latitude:FLTARR(75), $
                        longitude:FLTARR(75), $
                        red:REPLICATE({WINDII_DATA}, 75), $
                        green:REPLICATE({WINDII_DATA}, 75) }
```

```
HELP, /STR, {WINDII_L2FD_REDGREEN}
PRINT, ''
```

```
PRINT, 'Write it to a file'
data= REPLICATE({WINDII_L2FD_REDGREEN}, 10)
data.utime= FINDGEN(10)
OPENW, 1, 'test.dat'
WRITEU, 1, data
CLOSE, 1
PRINT, ''
```

```
PRINT, 'Read using standard I/O, times should be 0,1,2,3...'
OPENR, 1, 'test.dat'
dat= {WINDII_L2FD_REDGREEN}
READU, 1, dat & PRINT, dat.utime
READU, 1, dat & PRINT, dat.utime
READU, 1, dat & PRINT, dat.utime
CLOSE, 1
```

```
PRINT, ''
```

```
PRINT, 'Use ASSOC, /PACKED (should be same, isn"t)'  
OPENR, 1, 'test.dat'  
dat= ASSOC(1, {WINDII_L2FD_REDGREEN}, /PACKED)  
PRINT, (dat[0]).utime  
PRINT, (dat[1]).utime  
PRINT, (dat[2]).utime  
CLOSE, 1  
PRINT, ''
```

```
END
```
