
Subject: Re: Unsigned Integers - How?

Posted by [David Foster](#) on Fri, 07 Feb 1997 08:00:00 GMT

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David Foster wrote:

>> David Fanning wrote:

>>

>> Read the unsigned integers into *signed* 16-bit integers in IDL.

>> (You are already doing this, apparently).

>>

>> date = 0L

>> time = 0L

>> READU, lun, datafile, date, time

>>

>> Convert them to the correct *unsigned* values, like this:

>>

>> date = LONG(date) AND 'FFFF'x

>> time = LONG(time) AND 'FFFF'x

>>

>

> Oops! If you specify LONG then you get 32-bit integers. So:

>

> date = fix(0)

> time = fix(0)

> readu, lun, datafile, date, time

>

> date = date AND 'FFFF'x

> time = time AND 'FFFF'x

>

Double oops! Low voltage day or what!! Sorry about this noise.

I just meant that you need 16-bit integers when you read the integers from the file (I'm assuming we're talking about shorts).

Of course, the last two lines should read:

```
date = long(date) AND 'FFFF'x
```

```
time = long(time) AND 'FFFF'x
```

as David Fanning suggested.

Sorry Dave.

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