Subject: Re: where help

Posted by gunter on Wed, 29 Jan 1997 08:00:00 GMT

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David Fanning (davidf@dfanning.com) wrote:

```
[snip...snip]
  data = FINDGEN(12)
  data = REFORM(data, 3, 4)
   PRINT, data
    0.00000
                1.00000
                            2.00000
    3.00000
                            5.00000
                4.00000
    6.00000
                7.00000
                            8.00000
    9.00000
                10.0000
                            11.0000
  s = SIZE(data)
 OK, suppose I now do this:
  index = WHERE(data EQ 6)
The WHERE function returns the 1D index into the 2D array.
   PRINT, index
    6
So, the number 6 is located in index 6 (the 7th number in
: the array with zero-based subscripting). What is its
: 2D subscript? Well, if I divide index by how many columns
: there are in the array, and then take the whole part of that
: number. I will know its row number. In IDL terms:
   row = FIX(FLOAT(index)/s(1))
  PRINT, row
    2
```

Is there a reason you wouldn't just write: row=index/s(1)? In this manner you will end up with the whole part automatically.

```
: To find the column number, I multiply the row number times
: the number of columns in the array, and subtract that value
: from the index. Again, in IDL terms:
: col = index - (row * s(1))
: PRINT, col
: 0
```

And you could just as well write: col = index MOD s(1), where the MOD function returns the remainder of the division (index/s(1)). Of course there may be extra time involved (looking up the MOD function, etc) versus the above line.

--

david gunter

http://www.mcs.anl.gov/people/gunter/

"When you are a Bear of Very Little Brain, and you Think of Things, you find sometimes that a Thing which seemed very Thingish inside you is quite different when it gets out into the open and has other people looking at it." - A.A. Milne, "The House At Pooh Corner"