
Subject: Re: WHERE approaching Flatland
Posted by [Haje Korth](#) on Wed, 19 Feb 2003 12:50:35 GMT
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I always use the function WHERETOMULTI below. (Sorry about the line spacing)

Haje

```
;***** Beginning of wheretomulti.pro  
*****
```

PRO WhereToMulti, Array, Indices, Col, Row, Frame

```
;+
```

```
; NAME: wheretomulti.pro
```

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;
```

```
; FUNCTION: Convert WHERE output to 2d or 3d indices
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;
```

```
; USAGE: WhereToMulti, Array, Indices, Col, Row, Frame
```

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;
```

```
; INPUT ARGUMENTS:
```

```
; Array: the array that was WHERE'd
```

```
; Indices: the indices returned by WHERE
```

```
;
```

```
; OUTPUT ARGUMENTS:
```

```
; Col: Indices to first dimension.
```

```
; Row: Indices to second dimension.
```

```
; Frame: Indices to third dimension. Returned only for 3-d array.
```

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;
```

```
; OPTIONAL ARGUMENTS:
```

```

;
; KEYWORDS:
;
; REQUIRED MODULES:
;
; SIDE EFFECTS:
;
; ERROR HANDLING:
; If Array is not a vector or matrix, all return values are set to zero
; and a message is written to the screen.
;
; NOTES:
;
; HISTORY:
; 1998 Sept 15 J.L.Saba Developed based on code from David Fanning's
; web site.
;
;- End of
prologue -----

s = SIZE ( Array )

NCol = s[1]

Col = Indices MOD NCol

IF s[0] EQ 2 THEN BEGIN ; 2-d array

```

```

Row = Indices / NCol

ENDIF ELSE IF s[0] EQ 3 THEN BEGIN ; 3-d array

NRow = s(2)

Row = ( Indices / NCol ) MOD NRow

Frame = Indices / ( NRow * NCol )

ENDIF ELSE BEGIN ; neither 2d or 3d

Col = 0

Row = 0

Frame = 0

PRINT, 'WhereToMulti called with bad input. Array not a vector or matrix.'

HELP, Array

ENDELSE

RETURN

END

```

```

;***** End of wheretomulti.pro
;*****

```

```

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"Sean Raffuse" <sean@me.wustl.edu> wrote in message
news:b2u1d0\$1nc\$1@newsreader.wustl.edu...

> Hello,

>

> Is there are 2-d version of where?

>

> I would like to do this:

>

> bad = where(Array[:,*,0] GT Array[:,*,5])

>

> Array[bad,1:5] = Array[bad,0]

>

> I know that doesn't work, but after having spent some time with IDL, I'm
> allergic to loops.

>

> Thanks in advance,

>

> Sean

>

>

>