
Subject: Re: array addressing

Posted by [sjt](#) on Tue, 02 Aug 1994 09:44:43 GMT

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Terry Kucera (kucera@stars.gsfc.nasa.gov) wrote:

: In article <CtvMnL.MAD@hpl.hp.com>, peter@hpl.hp.com (Peter Webb) writes...

: >William Thompson (thompson@orpheus.gsfc.nasa.gov) wrote:

: >: kump@morph.ebme.cwru.edu (Kenneth S. Kump) writes:

: >

: >: >Just a quick question:

: >

: >: >A=indarr(10,5)

: >: >B=[0,0,1,0,1]

: >

: >

: >: >I would like array C to consist of only A(*,2) and A(*,4).

: >: >I understand why C=A(*,B) doesn't work, but what is the

: >: >correct way?

: >

: >: Just thinking off the top of my head, one could do something like the

: >: following:

: >

: >: IDL> SZ = SIZE(A) ;Get dimensions of A

: >: IDL> BB = REPLICATE(1,SZ(1)) # B ;Match dims. of B to A

: >: IDL> C = A(WHERE(BB EQ 1)) ;Extract requested data

: >: IDL> C = REFORM(C,SZ(1),TOTAL(B)) ;Rectify dimensions

: >

: >: I haven't actually tried this to confirm that it works, but I think it will.

: >: :^)

: >

: >: Bill Thompson

: >

: >Or, c=a(*,[2,4]) might be a bit easier...

: Or, c=a(*,where(b)) if you don't know b ahead of time.

: Terry Kucera

maybe for safety you might be better with:

locs=where(b,nl)

if (nl ne 0) then c=a(*,locs)

to avoid the risk of having effectively c=a(*,-1) which will crash your program.

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"If all else fails--read the instructions!"

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-- V^
