Subject: Re: Help
Posted by Martin Schultz on Fri, 21 May 1999 07:00:00 GMT
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Tri VU KHAC wrote:
>
> Hi folks,
>
> I'm looking for an efficient way to produce the matrix of type (I woulk
> like to be able to avoid the FOR statement)
>
> 0 1 0 1 0 1 0 1
> 1 0 1 0 1 0 1 0
> 0 1 0 1 0 1 0 1
> 1 0 1 0 1 0 1 0
>
> OR
>
> 1 0 0 1 0 0 1
> 0 1 0 0 1 0 0
> 0 0 1 0 0 1 0
> 1 0 0 1 0 0 1
>
> ETC.
>
> Best regards,
> Tri.

Isn't that coincidence? Take a look at the recent discussion on "AN array slicing function". I posted a routine ARREX that will do the opposite of what you are looking for, i.e. you could extract all the 1's from your matrix with it (probably need several calls though). Now you can go ahead and use the function arrex_ComputeInd (included in arrex.pro) to come up with a function arrexi that returns the indices rather than the values, and then you would write

```
A = intarr(8,4)
A[arrexi(A,[1,0],-1,[2,2]) = 1
A[arrexi(A,[0,1],-1,[2,2]) = 1
```

(or similar) ... If you wait a little, I'll hack arrexi for you as soon as soem other folks have confirmed that arrex works.

Regards,
Martin.

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