
Subject: Re: findgen([variable])

Posted by [Paul van Delst](#) on Tue, 12 Dec 2000 18:33:52 GMT

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"Pavel A. Romashkin" wrote:

```
>
> I am afraid FINDGEN can not take a vector for dimensions. What I would
> try is either using a vector
>
> x = [5, 7]
> r = findgen(total(x))
>
> which still would allow transparent indexing of R. If I really needed
> multi D arrays, I'd use EXECUTE and build a command string using
> dimensions of X:
>
> x = [5, 7]
> com = 'r = findgen('
> for i=0, n_elements(x)-1 do com = com +'x['+string(i)+']'+ $
> string(44b*byte(i ne n_elements(x)-1) > 41b)
> i=execute(com)
>
> EXECUTE is not cute, but I can't come up with anything nicer. I need
> another cup of coffe :-(-
```

Oof!

What about

```
IDL> x=[5,7]
IDL> ndim=n_elements(x)
IDL> n=1L
IDL> for i=0,ndim-1 do n=n*x[i]
IDL> help, reform(findgen(n),x)
<Expression>  FLOAT   = Array[5, 7]
IDL> print, reform(findgen(n),x)
  0.00000  1.00000  2.00000  3.00000  4.00000
  5.00000  6.00000  7.00000  8.00000  9.00000
 10.0000  11.0000  12.0000  13.0000  14.0000
 15.0000  16.0000  17.0000  18.0000  19.0000
 20.0000  21.0000  22.0000  23.0000  24.0000
 25.0000  26.0000  27.0000  28.0000  29.0000
 30.0000  31.0000  32.0000  33.0000  34.0000
```

Seems that determining "n" is the hard part...is there a "PRODUCT" type of function in IDL? Like TOTAL but with * rather than + as the operator.

Why doesn't MAKE_ARRAY allow for a dimension vector input?

paulv

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