Subject: Re: A[X,Y,Z] -> A[Z,X,Y]
Posted by Paul van Delst on Wed, 09 Aug 2000 07:00:00 GMT

View Forum Message <> Reply to Message

```
"Liam E. Gumley" wrote:
>
> Dave Greenwood wrote:
>>
>> I'm trying to analyze data from a new experiment using an IDL code from
>> a different experiment. The new experiment has data stored in an array
>> of the form [X,Y,Z] while the code expects [Z,Y,X]. I can do something
>> like (untested):
>>
    FOR i = 0, z-1 DO BEGIN
>>
      FOR j = 0, y-1 DO BEGIN
>>
       newarray[i, y, *] = oldarray[*, y, i]
>>
      ENDFOR
>>
    ENDFOR
>>
>>
>> But I thought perhaps someone (probably several people) here could
>> suggest a better (faster, more elegant, etc.) way?
>>
>> Fyi, to give some size to the problem, X=1024, Y=39 and Z=3.
> a = findgen(1024, 39, 3)
> b = transpose(a, [2, 0, 1])
> help, b
> B
                      = Array[3, 1024, 39]
            FLOAT
Not to be to ZYX'y about it, but how about
IDL> a = findgen(1024, 39, 3)
IDL> help, transpose(a, [2, 1, 0])
<Expression> FLOAT = Array[3, 39, 1024]
Paul van Delst
                    Ph: (301) 763-8000 x7274
CIMSS @ NOAA/NCEP
                           Fax: (301) 763-8545
Rm.202, 5200 Auth Rd.
                        Email: pvandelst@ncep.noaa.gov
Camp Springs MD 20746
```