Subject: Re: A[X,Y,Z] -> A[Z,X,Y]
Posted by Paul van Delst on Wed, 09 Aug 2000 07:00:00 GMT
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"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 FLOAT = Array[3, 1024, 39]

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]

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