
Subject: Re: Reversing a multi-dimensional array
Posted by [Dick Jackson](#) on Mon, 07 Jul 2003 16:30:46 GMT
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Hi Andy,

"Andy Loughe (remove OMITs)" <Andrew.LougheOMIT@noaaOMIT.govOMIT>
wrote in message news:3F04BF29.7030406@noaaOMIT.govOMIT...

> Hello,

>

> I have a 4-dimensional array, but it could someday grow to become

> 6 or 7 dimensions. What I would like to do is reverse the entire

> array, so that if it is now: a(i,j,k,l) it becomes a(l,k,j,i).

>

> What is the most efficient method for accomplishing this in IDL?

While I wouldn't call this a reversal of the array (rather, a
transposition reversing the dimensions of the array), I think what
you're looking for is:

a = Transpose(a)

The reversal of dimensions is the default behaviour of Transpose,
equivalent to:

a = Transpose(a, [3, 2, 1, 0])

If you needed some other ordering, you would give a different ordering
of values in the array.

Cheers,

--

-Dick

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