Subject: Re: Incrementing an Array
Posted by Craig Markwardt on Fri, 27 Apr 2001 21:14:32 GMT
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s007amf@news.wright.edu (ALAN FRAZIER) writes:

> Once again I am struggling with the finer points of IDL. What I am trying
> to do seems simple, but is causing me some headaches. What I am trying to
> do is this:
>
> matrix[x,y,z] = matrix[x,y,z] + 1
>
> Where matrix is a 3D array and x,y,z are 1D arrays. Matrix starts out
> all 0's and I am trying to increment values at elements [x,y,z]. The
> problem
> is that some elements should be incremented multiple times. All the
> proper elements are incremented once, but the second, third,
> fourth....increments are not showing up. Any ideas? I know that I could
> write this with loops, but that would be too slow.

This is a common error using array indices. The problem is that each
element evaluated in parallel, not in sequence.

You really want to use HISTOGRAM for this one. JD Smith wrote an
n-dimensional histogramming function which you can find here:

http://cow.physics.wisc.edu/~craigm/idl/archive/msg05549.htm l

Craig

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