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Subject: Minimum/Maximum along a certain dimension

Posted by [smd](#) on Thu, 20 Apr 1995 07:00:00 GMT

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Hi,

I use IDL v3.6.1a on a PC. I would like to find out if there is a vectorized (fast) way of computing the minimum/maximum of an array along a given dimension.

To explain, if A is a bytarr of size (2,30,40) and I wish to compute the minimum along the first dimension, the result should be a bytarr of size (30,40) in which each element is the pointwise minimum of A(0,\*,\*) and A(1,\*,\*).

Such a feature is available for the TOTAL() function, but is not available for MIN() or MAX(). Does anyone know how to do this operation without using a FOR loop that goes over all the elements. In the above example, the FOR loop would have to extend over  $30 \times 40 = 1200$  elements. I have to deal with images that are of size 720 x 480 and this takes enough computation time.

Thanks

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