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Subject: Re: Ternary Operator for Arrays  
Posted by [JD Smith](#) on Tue, 25 May 2004 21:00:07 GMT  
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On Tue, 25 May 2004 12:07:18 -0700, Jack Yin wrote:

- > Does anyone know of a good clean way of doing ternary operation on
- > arrays without using FOR loops and nested IF statements?
- >
- > For example, I have three arrays A, B and C and I want to do  $A = B /$
- > C, but there are elements in C that are zeros and I want to set the
- > corresponding elements in A to zeros without actually doing the
- > division to avoid divide by zero error. The ternary operator (?:)
- > only works on scalars. Is there something comparable for arrays?
- >
- > Any help would be greatly appreciated!

A couple of ways, not necessarily clean:

For integers or floats:

$$a = b / (c \neq 0 + c * (d = c \neq 0)) * d$$

For positive floats:

$$a = b / (c > (\text{machar}()).\text{xmin}) * c \neq 0.0$$

JD

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