
Subject: Re: Ternary Operator for Arrays
Posted by [jack.c.yin](#) on Wed, 26 May 2004 15:32:13 GMT
[View Forum Message](#) <> [Reply to Message](#)

JD Smith <jdsmith@as.arizona.edu> wrote in message
news:<pan.2004.05.25.21.00.07.321890@as.arizona.edu>...
> 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:
>
> $a = b / (c \text{ eq } 0 + c * (d = c \text{ ne } 0)) * d$
>
> For positive floats:
>
> $a = b / (c > (\text{machar}()).\text{xmin}) * c \text{ ne } 0.0$
>
>
> JD

JD,

Thanks for the tips. They will work for me. Really appreciate the help!

Jack
