
Subject: Re: transforming an array where some values can't

Posted by [offenbrg](#) on Fri, 06 Feb 1998 08:00:00 GMT

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bowler@eisner.decus.org writes:

> I'm trying to write a function that will transform an arbitrary array by taking
> the natural log of every element in the array.

> What I have is

```
> function xform, input
> temp = alog(input) ; I realize I could combine these 2 statements
> return, temp      ; but it makes debugging easier
> end
```

> Unfortunately, I can't guarantee that there won't be some elements that are
> zero and thus invalid arguments to alog. what's the "most efficient" way to
> take the alog of any element that's greater than 0 and set the value of any
> that are less than or equal to 0 to some small value (1e-7 for example)?

I think what you want is this:

```
function xform, input
temp = alog(input > 1e-7)
return, temp
end
```

The ">" operator in this case sets a floor on the values of "input"...any
value less than 1e-7 is replaced with 1e-7.

Good luck,
Joel

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"...And I am unanimous in this" - Mrs. Slocumbe

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