Subject: Re: matrix division
Posted by David Fanning on Thu, 22 May 2008 15:48:10 GMT
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jameskuyper@verizon.net writes:

> For the integer case:
>
> ratio = numerator/denominator
> bad = WHERE(denominator eq 0, count)
> IF count gt 0 THEN ratio[bad] = replacement_value
>
> replacement_value needs to be carefully chose for the context of your
> problem. You might want to give different replacement values depending
> upon whether the numerator is positive, negative, or 0. There's
> probably a more elegant approach, but three different WHERE's would
> certainly be sufficient to cover those cases.
>
> For the floating point case, IDL fills in the relevant elements of
> ratio with -Inf, Nan, or Inf, depending upon the sign of the
> numerator, and I can't think of any better way of handling it than to
> use precisely those value. If you need to use your result for further
> computations where those values would be unacceptable, replace them,
> with logic similar to the above, but using the FINITE() function.

Shoot. I was hoping for an elegant solution. :-(

Cheers,

David

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Coyote's Guide to IDL Programming (www.dfanning.com)
Sepore ma de ni thui. ("Perhaps thou speakest truth.")