
Subject: Is it possible to generate an error when it is tried to multiply matrix with different dimensions?

Posted by [Victor\[2\]](#) on Tue, 30 Jul 2013 10:15:52 GMT

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Hi everyone!

I want to know if it is possible to generate an error (or warning) in IDL (using for instance de COMPILE_OPT or something like that) when it is tried to multiply matrix with different dimensions.

for instance..

```
a = [1,2,3]
```

```
b = [1,2]
```

The dimensions are different and if I do print,a*b the result is [1,4] but in fact I want to know that the matrix are different.

It is a common error when I use a lot of matrix and could be good to know when this it happens (at least some warning...)

thanks!!

kind regards,

Víctor

Subject: Re: Is it possible to generate an error when it is tried to multiply matrix with different dimensions?

Posted by [Michael Galloy](#) on Tue, 30 Jul 2013 16:26:36 GMT

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On 7/30/13 4:15 AM, victor wrote:

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>

> I want to know if it is possible to generate an error (or warning)
> in IDL (using for instance de COMPILE_OPT or something like that)
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> It is a common error when I use a lot of matrix and could be good to
> know when this it happens (at least some warning...) thanks!!

>
> kind regards,
>
> Víctor
>

Not that I know of.

Mike

--

Michael Galloy

www.michaelgalloy.com

Modern IDL: A Guide to IDL Programming (<http://modernidl.idldev.com>)

Research Mathematician

Tech-X Corporation

Subject: Re: Is it possible to generate an error when it is tried to multiply matrix with different dimensions?

Posted by [Phillip Bitzer](#) on Tue, 30 Jul 2013 18:08:55 GMT

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You could always check before multiplying:

```
IF N_ELEMENTS(a) EQ N_ELEMENTS(b) THEN c= a*b ELSE MESSAGE, "different number of  
elements"
```

and let your error handler "catch" the error.

An FYI - this isn't *really* matrix multiplication. What you're doing is multiplying each element of the arrays together. If you're interested in matrix multiplication, check out:

http://www.exelisvis.com/docs/Matrix_Operators.html

Subject: Re: Is it possible to generate an error when it is tried to multiply matrix with different dimensions?

Posted by [Victor\[2\]](#) on Thu, 01 Aug 2013 07:04:52 GMT

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Sorry, I wrote the question bad, as you said I would want to control a multiplication of each element of the matrix (not a "classical" mathematical matrix multiplication)

And Yes, I knew that I can control the situation but I wanted to know if it is possible to work in the same way like Matlab ...

Thanks

On Tuesday, July 30, 2013 8:08:55 PM UTC+2, Phillip Bitzer wrote:

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>

>

>

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