Subject: Re: Bug/feature in matrix multiply Posted by Martin Schultz on Mon, 15 Mar 1999 08:00:00 GMT View Forum Message <> Reply to Message

## Mark Fardal wrote:

> [...]

- > So my question becomes, why does this happen? If IDL is going to
- > treat an 3x1 array differently than a 3-element vector, it shouldn't
- > just cavalierly remove the trailing dimension in my opinion. The
- > behavior is probably documented somewhere but I couldn't find it in
- > the hyperhelp. There is this one sentence in "Combining Array
- > Subscripts with Others": "As with other subscript operations, trailing
- > degenerate dimensions (those with a size of 1) are eliminated."

- > I also notice that the behavior is somewhat inconsistent, in that
- > converting an expression to one of the same type does \_not\_ remove
- > the trailing dimension:
- > [...]

I agree (somewhat). Generally, I found that IDL is quite "smart" in removing trailing dimensions so that one doesn't have to worry too much about them. But when you do encounter a case where you need to (and this is frequent for any type of matrix manipulation), IDL is just too smart and you have to think twice to outsmart it ;-)

Anyway: you can always make sure you get what you want with

a = transpose(reform(a))

These statements are not very costly in terms of execution time, because it's only messing around with the array descriptor (at least I believe so).

Regards, Martin.

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Page 2 of 2 ---- Generated from comp.lang.idl-pvwave archive