
Subject: Re: Automatic truncation of trailing dimension.....

Posted by [Paul van Delst](#) on Tue, 27 Nov 2001 21:53:06 GMT

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"Liam E. Gumley" wrote:

```
>
> Paul van Delst wrote:
>>
>> .....of an array when the dimension size is 1 is a real pain in the ass. Given:
>>
>> IDL> x=fltarr(100,1,15)
>> IDL> help, x
>> X          FLOAT    = Array[100, 1, 15]
>>
>> Is there anyway to prevent:
>>
>> IDL> help, x[*,* ,1]
>> <Expression>  FLOAT    = Array[100]
>> IDL>
>>
>> i.e. to give:
>> <Expression>  FLOAT    = Array[100,1]
>>
>> Argh wot a pain.
>
> I take it you mean
>
> <Expression>  FLOAT    = Array[100, 1, 1]
```

No, I mean

```
<Expression>  FLOAT    = Array[100,1]
```

i.e. an rank-2 array where one of the dimensions just happens to be 1. IDL reforms these by default to a vector. This is a pain. Doesn't do it for arrays dimensioned as [1,100], so I don't see why it should do it for the other.

> Does your code absolutely require it?

Not usually - except when I run test cases and I process one instance of something rather than "X" hundred (atmospheric profiles).

> If you must maintain the dimensions:

```
>
> IDL> dims = size(x, /dimensions)
> IDL> index = 1
```

```
> IDL> help, reform(x[* , *, index], dims[0], dims[1], 1)
> <Expression>  FLOAT  = Array[100, 1, 1]
```

This is good to know but a pain in the rear to back-implement. To get things working. I just set my minimum allowed dimension to 2 rather than 1. A work-around rather than a fix. I'm not going to bother fixing something that shouldn't be broken - and besides, using IDL is supposed to **enhance** my productivity, not decrease it. :o)

I find this auto-truncate behaviour for arrays with unity dimension in one particular order but not the other quite ridiculous.

paulv

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