
Subject: Re: Instances of structure array with varying no. of elements

Posted by [Matthew Argall](#) on Tue, 28 Jan 2014 16:10:13 GMT

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> I tried doing the following for it :
>
> results[0].domain = results[0].domain[0:4]

Structures tags have fixed sizes and types. Since results[0].domain is part of a structure and starts as a 10-element array, it will always be a 10.

The best way to do this is to put your "domain" structures into a list. Lists are dynamic and can change sizes/types. They have a weird way of indexing, though. The following example shows you how to put your structure into a list, then change element 0 of the list to have only 5 instances of "domain".

```
IDL> temp_results = REPLICATE({domain:REPLICATE({frame :fltarr(1), particles : fltarr(5,6000)},
10)} , 500)
IDL> results = list(temporary(temp_results), /extract)
IDL> iKeep = [0,1,2,3,4]
IDL> results[0] = results[0,iKeep]
IDL> help, results[0]
<Expression>  STRUCT    = -> <Anonymous> Array[5]
```

This is a bit slow, so if you can put your domains directly into the list instead of extracting them, you will be better off.
