
Subject: Deleting specific instances of the structure
Posted by [midhunjoyp](#) on Mon, 27 Jan 2014 22:51:18 GMT
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Hi all,

I am having some difficulty working with structure arrays.

I initialized an array of 10 structures with the following fields.

```
domain = REPLICATE({frame :0, particles : fltarr(5,6000),link : [-1,-1]}, 10)
```

The calculations were performed for each field of the structure array. After calculations, there are some instances of the structure which are empty and needs to be deleted.

For eg, out of the 10 structure instances, domain[2], domain[6],domain[7] are the empty ones and needs to be deleted and the final result should have only 7 elements in the structure array.

Is there any way to perform delete operation(other than creating a new structure and assigning the selected ones to it) ?

Best,
Midhun

Subject: Re: Deleting specific instances of the structure
Posted by [Phillip Bitzer](#) on Mon, 27 Jan 2014 22:59:51 GMT
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Think "redefine variable" not "delete":

```
badInd = WHERE(domain.frame EQ 0, count, COMPLEMENT=goodInd)
```

```
IF count NE 0 THEN domain = domain[goodInd]
```

You could check for good values instead. I'm also assuming frame = 0 indicates an "empty" structure, i.e., good structures have a non-zero value for frame.

Subject: Re: Deleting specific instances of the structure
Posted by [Matthew Argall](#) on Mon, 27 Jan 2014 23:01:18 GMT
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> For eg, out of the 10 structure instances, domain[2], domain[6],domain[7] are the empty ones and needs to be deleted and the final result should have only 7 elements in the structure array.

If you already know the structures you want to keep, you can just pick them out...

```
IDL> domain = REPLICATE({frame :0, particles : fltarr(5,6000),link : [-1,-1]}, 10)
IDL> iKeep = [0,1,3,4,5,8,9]
IDL> domain = domain[iKeep]
IDL> Help, domain
```

Subject: Re: Deleting specific instances of the structure
Posted by [midhunjoyp](#) on Tue, 28 Jan 2014 14:48:53 GMT
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On Monday, January 27, 2014 5:51:18 PM UTC-5, midhu...@gmail.com wrote:

> Hi all,
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>
>
>
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>
> Midhun

Hi Phillip & Matthew,

That was a really good suggestion. Thanks a lot for the help.

Best,
Midhun
