Subject: Re: Structure field concatenation
Posted by Martin Schultz on Wed, 06 Sep 2000 14:16:02 GMT
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Amara Graps wrote:
>
> (at the risk of being the only one here who still hasn't
> figured this out)
>

Reset.

Now try again from scratch:

```
  ;; create template structure and structure array
  template = {orbit:'',freq:ptr_new()}
  periodcube = replicate(template, 20)

  ;; fill first element with data
  periodcube.orbit = 'G2'
  periodcube.freq  = Ptr_New( DIndgen(100) )

  ;; Work with data
  plot, *(periodcube.freq), title=periodcube.orbit

  ;; Free all pointers
  Ptr_Free, periodcube.freq
```

You probably didn't want to use a second Ptr_New statement out of fear that would allocate extra memory and create a memory leak. This is no problem, because the Ptr_New() statement with no argument only "declares" a pointer but does not allocate any memory for the data it will eventually point to. Only if you want to replace the data in a structure element, then you need to free the pointer beforehand:

```
  ;; Replace data of first structure
  IF Ptr_Valid(periodcube.freq) THEN Ptr_Free,
periodcube.freq
  periodcube.freq  = Ptr_New( DIndgen(200)*0.1 )
```

Hope this will clear your mind,
Martin

PS:

> "Never fight an inanimate object." - P. J. O'Rourke

No, it's far better to write them ;-)

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