Subject: Re: changing a datatype in a structure Posted by K. Bowman on Thu, 11 May 2006 13:16:05 GMT

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In article <1147306191.957848.151880@q12g2000cwa.googlegroups.com>, mark.macauda@gmail.com wrote:

- > Ok, here is my current very frustrating problem. I have ALOT of IDL
- > work done the general idea is that I read in binary files that are
- > stored in very specific format...blah blah, the details aren't
- > important, the important part is that rewriting all of that becuase of
- > the current problem is not a desirable solution. Here's the problem.
- > All the info is read in in structures and the data types are dictated
- > by the binary files. One is an array of long 32-bit integers. I have
- > discovered that I need to do some calculations on this array, that
- > require the data type to be something other than interger. Normally I
- > would just use the float command and be on my merry way...but for all
- > the other programs to work I need the float arrays to be back in the
- > handy dandy structures...is there anyway I can easily change that
- > datatype?

You cannot change the type of a variable inside a structure, but you can add a new variable to an existing (anonymous) structure.

```
IDL > data = \{i : LINDGEN(5)\}
IDL> help, data, /str
** Structure <215d270>, 1 tags, length=20, data length=20, refs=1:
           LONG
                     Array[5]
IDL> data = CREATE STRUCT(data, 'x', FLOAT(data.i))
IDL> help, data, /str
** Structure <215d330>, 2 tags, length=40, data length=40, refs=1:
                     Array[5]
 ı
           LONG
 Χ
            FLOAT
                      Array[5]
IDL> print, data
       0
                       2
                               3
               1
   0.00000
               1.00000
                           2.00000
                                       3.00000
                                                  4.00000
```

Ken Bowman