Subject: Re: Changing variable type
Posted by Helder Marchetto on Mon, 16 May 2016 11:34:51 GMT
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On Monday, May 16, 2016 at 12:31:45 PM UTC+1, Helder wrote:
> On Monday, May 16, 2016 at 11:43:54 AM UTC+1, Mats Löfdahl wrote:
>> Is there a way in IDL to change the type of an array, specifically a 16-bit integer into a 16 bit unsigned integer?
>>
>> No, I do not mean b = uint(a). This makes a new array and keeps the values. I want to change the variable type of the existing array (from 2 to 12), so the bit values are interpreted differently. Is this possible?
>>
>> /Mats
>
> Hi Mats,
> I think you're looking for the offset keyword in the uint function, but I'm not 100% sure (because this also makes a copy of the variable... there is no /temporary keyword)
>
> IDL> a = -1
> IDL> help, a
> A INT = -1
> IDL> print, uint(a,0)
> 65535
>
> Would this do what you want?
>
> Cheers,
> Helder

Sorry, you wanted an array, so you have to do this:

```
IDL> a = indgen(20)
IDL> a[10:19] = -indgen(10)
IDL> a
      0      1      2      3      4      5      6      7      8      9      0     -1     -2     -3     -4     -5     -6
  -7     -8     -9
IDL> print, uint(a,0,20)
      0      1      2      3      4      5      6      7      8      9      0  65535  65534  65533  65532
65531  65530  65529  65528  65527
```

Does it make sense?

Cheers,
Helder