Subject: Re: Conversion Error?
Posted by davidf on Mon, 16 Aug 1999 07:00:00 GMT
View Forum Message <> Reply to Message

Laurent Chardon (chardons@NOT_THISsprint.ca) writes:

> I can't figure this out. Is it a bug or something that I can not understand?
> This is with IDL 5.2 running on a PII 333 on Windows NT.
>
> If I do
>
>  IDL> size=double(12990)
>  IDL> help,size
>  SIZE  DOUBLE  =  12990.000
>  IDL> c=fltarr(size)
>  IDL> help,c
>
> I get
>
>  C  FLOAT  = Array[12990]
>
> which is what I expect.
>
> But... If I do
>
>  IDL> size=(double(200-70.1))/0.01
>  IDL> help,size
>  SIZE  DOUBLE  =  12990.000
>  IDL> c=fltarr(size)
>  IDL> help,c
>
> I get
>
>  C  FLOAT  = Array[12989]
>
> Does anyone know why??? I am starting to not trust any of my previous
> calculations done with IDL. Or is this a "feature" of the Pentium II?

I think your problem lies here:

```
IDL> size=(double(12990))
IDL> print, fix(size)
   12990

IDL> size=(double(200-70.1))/0.01
IDL> print, fix(size)
   12989
```

Of course, you need an *integer* as the argument of
FLTARR, since you can't have a partial element. Those
darn computer representations of numbers have done us
in again. :-)

Cheers,

David

--
David Fanning, Ph.D.
Fanning Software Consulting
Phone: 970-221-0438 E-Mail: davidf@dfanning.com
Coyote's Guide to IDL Programming: http://www.dfanning.com/
Toll-Free IDL Book Orders: 1-888-461-0155