
Subject: Re: Conversion Error?

Posted by [davidf](#) on Mon, 16 Aug 1999 07:00:00 GMT

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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

--

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