Subject: Re: Problem with FLOAT in CW FORM Posted by Martin Schultz on Tue, 22 Jun 1999 07:00:00 GMT

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Axel vom Endt wrote:

> Steffen Keitel wrote: >>

>> Hello!

- >> Building a widget based fit program (IDL 5.1 / Linux) I encountered the
- >> following problem: I use the CW_FORM widget to enter my initial values
- >> of the fit parameter. If I type e.g. "0.350" in a FLOAT field, IDL will
- >> work with "0.3499999940" or something like that. How can I teach IDL to
- >> use the _exact_ value?

>>

>> Thanks in advance, Steffen

- > Hi steffen,
- > that's a more general problem: How do you tell a computer to work with
- > 0.350?
- > short answer: .35 cannot be represented by a finite binary fraction.

true, but at least the program should be able to identify 0.35 as 0.35 whenever it needs to. The kind of roundoff error you describe is very common when you change the data type from float to double or vice versa. What would be needed to make you happy is a DOUBLE type in CW FORM. Then again, who really needs this?

Martin

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