Subject: Re: Problem with FLOAT in CW_FORM Posted by Axel vom Endt on Tue, 22 Jun 1999 07:00:00 GMT

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Steffen Keitel wrote:
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> 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.
Try the same in c:
#include <stdio.h>
int main(){
 float x = 0.35;
```

For a more detailed answer, refer to any textbook on numerical methods.

Axel

}

return 0;

printf(" $x = %12.10f\n",x$);