Subject: Re: Type of array to store large numbers Posted by Russell Ryan on Fri, 25 May 2012 13:36:37 GMT View Forum Message <> Reply to Message

On May 25, 9:07 am, Sir Loin Steak < Ij...@fsmail.net> wrote: > On May 25, 1:58 pm, Fab <fabien.mauss...@gmail.com> wrote: > > > > > > > >> On 05/25/2012 02:50 PM, Sir Loin Steak wrote: >>> Hi all >>> I have a lot of numbers that have high precision (such as 401.4798584) >>> and I am trying to find what sort of array to use to store these >>> values. Can anyone help? I've tried floats, doubles etc, and none keep >>> the precision to more than 5 d.p. Am I missing something obvious, or >>> is what I'm after impossible?!! >> What do you mean with "keep" the precision? >> IDL> f = 401.4798584 >> IDL> d = 401.4798584d >> IDL> print, f 401.480 >> IDL> print, d 401.47986 >> IDL> print, f, FORMAT='(F12.8)' >> 401.47985840 >> IDL> print, d, FORMAT='(F12.8)' >> 401.47985840 >> http://www.idlcoyote.com/math_tips/sky_is_falling.html >> Cheers Sorry, what I meant was I want to write the data to a file for another > program to read, but the data were always output in the form 401.480. > I never thought about specifying with a format statement! I'll give it > a go now. > Thanks for the help.

I think you missed the point of the previous post. When you declare something as a double, IDL keeps that precision but doesn't print it out when you say print. You need to use a formatted print statement to "see" all those extra digits.

The bottom line is, they're there. You just aren't seeing them. And do read that article by Fanning.