Subject: Re: Why does 0.8 = 0.80000001 ?
Posted by David Fanning on Mon, 26 Aug 2002 13:14:51 GMT
View Forum Message <> Reply to Message

Benjamin Panter (benpanterREMOVE@bigfoot.com) writes:

- > I've just found something quite interesting and I wonder if anyone had
- > any clues as to why it's happening

>

- > I have a rather huge program which spits out a set of numbers in an
- > array called str1, declared as a double. When I try to set one of the
- > elements to 0.8, it actually sets to 0.80000001... this is below the
- > accuracy that I worry about, but I'm just rather interested as to why it
- > happens. Some output is below

You will want to read this article:

http://www.dfanning.com/math_tips/sky_is_falling.html

Cheers,

David

--

David W. Fanning, Ph.D.

Fanning Software Consulting, Inc.

Phone: 970-221-0438, E-mail: david@dfanning.com

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Toll-Free IDL Book Orders: 1-888-461-0155