

## Re: Strange basic problem with comparision of two varialbes defined as double

**Source:**

<http://www.tech-archive.net/Archive/VisualStudio/microsoft.public.vstudio.development/2004-05/0087.html>

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**From:** RAJ (*anonymous\_at\_discussions.microsoft.com*)

**Date:** 05/17/04

Date: Mon, 17 May 2004 09:49:08 +0100

Thanks for your reply.

What alternative is there to compare two values of this sort? I have also seen this kind of problem were in I am storing a value defined as double in the access database field which is again defined as double with 2 decimal places. Even though the value is, for example, 10.00, it at times (not always) stores it as 9.9999999999997 in the database.

My application does need to compare a lot of values for accounting purposes. Your help is much appreciated.

"Duane Bozarth" <dp\_bozarth@swko.dot.net> wrote in message news:40A77B79.7F6127E9@swko.dot.net...

> *Duane Bozarth wrote:*

> >

> ...*snip example of floating point comparison result...*

>

> > *This is giving a lot of problems in the actual code in my application.*

Any

> > *help would be greatly accepted.*

> >

> > [http://docs.sun.com/source/806-3568/ncg\\_goldberg.html](http://docs.sun.com/source/806-3568/ncg_goldberg.html)

> >

> > *As a hint in the VB Immediate window...*

> >

> > *dblOne# = 41.99#*

> > *dblTwo# = 31.49#*

> > *?dblOne#-dblTwo#*

> > *7.105427357601E-15*

>

> *Sorry, of course the demo was <really> the following--I somehow didn't*

> *copy the one step...*

>

> *dblOne# = 41.99#*

> *dblTwo# = 31.49#*

> *dblTwo# = dblTwo# + 10.5#*

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```
> ?dblOne#-dblTwo#  
> 7.105427357601E-15  
>  
> And, hint 2--  
> <NEVER, EVER> compare two floating point values for <exact> equality  
> (unless you really, really mean it (and understand fully what that  
> means), of course).
```