

Re: Singles to Doubles

Source:

<http://www.tech-archive.net/Archive/VB/microsoft.public.vb.general.discussion/2007-07/msg01403.html>

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Hi Bob --

What the heck? Seems silly to have to convert it to a String first, then to a Double. But, it is more accurate. Anyone know of a less ugly way to accurately replicate a Single with a Double, or this the best it gets?

Isn't it mainly that the Single isn't representing the value as accurately?

I guess, yeah. But how is it that a *String* seems to do so even more accurately? For discussion purposes, I modified your example just a bit:

```
Public Sub Main()  
Dim s As Single  
Dim d1 As Double  
Dim d2 As Double  
s = 0.3026!  
d1 = s  
d2 = CDbl(CStr(s))  
Debug.Print s, d1, d2  
Debug.Print s = d1, s = d2  
Debug.Print s - d1, s - d2  
End Sub
```

Which gives me these results:

```
0.3026 0.302599996328354 0.3026  
True True  
0 -3.67164609826887E-09
```

And, of course, the value I'm after *is* 0.3026 -- not the one that's off 0.00000000367... Seems like some sort of register garbage that I'm picking up in the conversion?

Thanks... Karl

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