
Subject: Re: Why does $0.8 = 0.80000001$?
Posted by [condor](#) on Thu, 29 Aug 2002 00:35:34 GMT
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Benjamin Panter <benpanterREMOVE@bigfoot.com> wrote in message
news:<3D6A306A.BF422364@bigfoot.com>...

> I had it in my head that it was 12 sig fig with an internal mantissa of 14,
> as I mentioned I wasn't overly panicked about it, more interested in finding
> out what was going on. Glad to get that cleared up!

It is actually about 15 significant figures:

```
help,str1
STR1      DOUBLE  = Array[17]
str1[6] = 0.8 ; the original example
print,str1[6]
    0.80000001
str1[6] = 0.8d0 ; the correct way
print,str1[6]
    0.80000000
```

...
