Subject: Re: fix(4.70\*100) is... 469 Posted by Paolo Grigis on Fri, 20 Apr 2007 08:04:14 GMT View Forum Message <> Reply to Message David Fanning wrote: > Jean H. writes: >> What is being displayed is a bit different than what is being stored.. >> IDL> print, 470.0 - (4.70\*100) 3.05176e-005 > I guess I would argue that what is being displayed is EXACTLY > what is being stored: Is it? I always wondered if the garbage after the 16th digit does correspond indeed to the exact decimal representation of the double stored in memory in binary format, or is just a meaningless side product of the binary to decimal conversion... IDL> print,!DPi,format='(f68.64)' 3.1415926535897931159979634685441851615905761718750000000000 000000 ^^^^^ Ciao, Paolo > > IDL> print, 470, format='(f18.14)' > 470.000000000000000

- > IDL> print, 470, format='(f18.14)'
  > 470.00000000000000
  > IDL> print, 4.70\*100, format='(f18.14)'
  > 469.99996948242187
  > IDL> print, 470.0000000000000 469.99996948242187D, format='(f18.14)'
  > 0.00003051757813
  > Cheers,
- > David