This is yet another floating point mystery, and I am unable to figure out which is the right way to deal:

I wrote this program ("Operation") in which I made sure that all calculations are done in double precision. The program accepts 6 mandatory arguments and returns the output to "result".

Syntax: Operation, A, B, C, D, E, F, result

I get variable results (after 3rd decimal point) when I pass some of the arguments as numbers and when I pass the same arguments as pre-defined variables.

Case#1:

```
IDL> Operation, A, B, 0.0D, 0.0D, 0.0D, F, result
IDL> help, result
RESULT          DOUBLE    = Array[7]

IDL> print, result
1.0247013    1.0279051    1.0365066    1.0447064
1.0477210    1.0543893    1.0569390
```

Case#2:

```
IDL> C = (D = (E = 0.0D))
IDL> Operation, A, B, C, D, E, F, result
IDL> help, result
RESULT          DOUBLE    = Array[7]

IDL> print, result
1.0250284    1.0281385    1.0367149    1.0450368
1.0480349    1.0547703    1.0573193
```

Why is such discrepancy? In my problem the accuracy after 3rd decimal point is not so important, however, after seeing the results I lose confidence on IDL's capability on Real number arithmetic!

May be I am missing something?

Thanks,
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