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Thread: [Floating Points in Batch](#)

?CARUs L?VE?™ - May 30, 2018, 8:42 pm

Hello all ^_^

The absolute, and final release for this. I think after many checks and balances; I have finished both the function, and macro of FLOATDIV. The function that allows you to divide 2 numbers into floating points.

Please enjoy this script! I worked REALLY hard on this, and I finally have it finished.

Spoiler [\(Click to View\)](#)

HF CODE FORMAT:

Spoiler [\(Click to View\)](#)

Code @echo off & setlocal enableDelayedExpansion

call :macros

echo.

echo floatDIV MACRO

echo.-----

for /l %%a in (1,1,20) do (

set /a "rnd1=!random! %% 49 + 1", "rnd2=!random! %% 49 + 1"

%floatDIV% !rnd1! !rnd2!

)

echo.

echo.

echo floatDIV :FUNCTION

echo.-----

for /l %%a in (1,1,20) do (

set /a "rnd1=!random! %% 49 + 1", "rnd2=!random! %% 49 + 1"

call :floatDIV !rnd1! !rnd2!

)

pause & exit

:macros

set ^"LF=^

^" Above empty line is required - do not remove

set ^"\n=^^^%LF%%LF%^%LF%%LF%^"

for /F %%a in ('echo prompt \$E^| cmd') do set "ESC=%%a"

set floatDIV=for %%# in (1 2) do if %%#==2 (for /f "tokens=1-3" %%1 in ("^!args^!") do (%\n%

```

set /a "i=%~1 / %~2", "f=(( (~(%~1-%~2)>>31)&1) * ((10000 * (%~1 - %~2)) %% ((%~2) * 10000) / %~2) )|((~ ((~(%~1-%~2)>>31)&1) &1)* (((%~1) * 10000) %% ((%~2) * 10000) / %~2) ))"%\n%
if "!f:~3^!" equ "" set "f=0!f^!"%\n%
for /f "tokens=1,2" %%a in ("^!j^! ^!f^!") do ( if "%~3" neq "" ( set "%~3=%%a.%%b" ) else echo %~1 / %~2 = %%a.%%b )%\n%
)) else set args=
goto :eof

```

```

:floatDIV
rem                                BOOL                                GY
    BOOL                                LY
set /a "i=%~1 / %~2", "f=(( (~(%~1-%~2)>>31)&1) * ((10000 * (%~1 - %~2)) %% ((%~2) * 10000) / %~2) )|((~ ((~(%~1-%~2)>>31)&1) &1)* (((%~1) * 10000) %% ((%~2) * 10000) / %~2) ))"
if "!f:~3!" equ "" set "f=0!f!"
if "%~3" neq "" ( set "%~3=!i!.!f!" ) else ( echo %~1 / %~2 = !i!.!f! )
goto :eof

```

b00st3d - May 31, 2018, 4:01 pm

This is awesome. floating point has always been a huge weakness of batch.

grady - May 31, 2018, 4:06 pm

holy code cancer
never going to learn batch