

Forum:[Hack Forums](#)

Thread: [Using SETLOCAL and ENDLOCAL inside functions](#)

?CARUs L?VE?™ - November 13, 2016, 11:11 am

Code @echo off

```
rem set GLOBAL variable x
set "x=Hello World"

:main
cls

echo.
echo    MAIN
echo X is globally defined as      - %x%
echo.
pause

echo.
echo Calling function with setlocal
call :function_1 "dlroW olleH"

echo.
echo    MAIN
echo X is globally defined as      - %x%
echo.
pause

call :function_2 "HeLlO wOrLd"

echo.
echo    MAIN
echo X is now globally redefined as - %x%
echo.
pause
exit

:function_1
SETLOCAL

rem define LOCAL variable X
set "x=%~1"

echo.
echo    FUNCTION 1
echo Create local variable X      - %x%
echo.
```

```

        pause
    ENDLOCAL
goto :eof

:function_2

    rem redefine GLOBAL variable X
    set "x=%~1"

    echo.
    echo    FUNCTION 2
    echo Globally redefine variable X    - %x%
    echo.
    pause
goto :eof

```

The code above demonstrates two functions being called inside the :main function. The purpose of this quick tutorial is to demonstrate how setlocal can be useful when used in functions that display output, and keep your variable environment pool small. Creating scripts that have A LOT of variables will run slower than a script with less variables. This is good to know for development in batch games where there could be MANY variables.

Step by step in plain english.

X is globally defined at the top of the script

Continue to the :main function, and display %x%

Call :function_1 using SETLOCAL to temporarily redefine %x%

Display global %x% inside :main function to show %x% has NOT changed

Call :function_2 WITHOUT SETLOCAL to redefine %x%

Display in :main function that %x% has been globally modified

This concludes my quick tutorial. If you have any questions feel free to ask!

Sajuuk - November 13, 2016, 12:53 pm

You guys here have advanced so much since my last relative post in this section. Good to see that flawless tutorials with the code/explanation format are still being posted focusing on everything but the stereotypical Batch viruses. Awesome work.

JoshuTee - November 13, 2016, 12:59 pm

(Nov 13, 2016 01:53 PM)Sajuuk Wrote: [\[CITE\]](#) You guys here have advanced so much since my last relative post in this section. Good to see that flawless tutorials with the code/explanation format are still being posted focusing on everything but the stereotypical Batch viruses. Awesome work.

I agree. Good work @OP!