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Thread: [%getDistance% Macro](#)

?CARUs L?VE?™ - August 5, 2017, 11:42 am

Hello all!

I recently found the need to find the distance between to points on a grid in batch. For those of you who know me in this section, batch game dev is my favorite.

Perhaps some of you may find this helpful as well!

Code @echo off & setlocal enableDelayedExpansion

set ^"LF=^

^" Above empty line is required - do not remove

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

```
set getDistance=for %%# in (1 2) do if %%#==2 ( for /f "tokens=1-5" %%1 in ("^!args^!") do (%\n%
    set /a "%%5=( ?((((((%%1 - %%2))>>31|1)*((%%1 - %%2)))-((((%%3 - %%4))>>31|1)*((%%3 -
%%4))))>>31)+1, ?*(2*(((%%1 - %%2))>>31|1)*((%%1 - %%2)))-((((%%3 - %%4))>>31|1)*((%%3 -
%%4)))-((((%%1 - %%2))>>31|1)*((%%1 - %%2)))-((((%%3 - %%4))>>31|1)*((%%3 - %%4)))) +
^^!?*((((%%1 - %%2))>>31|1)*((%%1 - %%2)))-((((%%3 - %%4))>>31|1)*((%%3 -
%%4)))-((((%%1 - %%2))>>31|1)*((%%1 - %%2)))-((((%%3 - %%4))>>31|1)*((%%3 - %%4))*2))
)%\n%
)) else set args=
```

set /a "x1=4", "x2=7", "y1=22", "y2=14"

%getDistance% x2 x1 y2 y1 distance

echo %distance%

pause & exit