# How to install Mentor HDL Designer, ModelSim and Precision Synthesis onto Windows (64 bit OS Only)

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Uninstall Previous Versions

If applicable, you must first uninstall the previous versions of above Mentor software. The old versions do not work with this year’s new license. To uninstall, on Windows 7, Start>All Programs>Mentor Graphics>Mentor Uninstall, select above software and remove. RESTART your computer afterwards. On Windows 10, search (Windows key + S) “Mentor Graphics”, and do the same. RESTART your computer afterwards.

Configure Mentor Licensing

Before or after installing the desired Mentor software, configure Mentor Licensing. To do so, open Windows Explorer  **(**Windows key**** + E**)**, > right click “computer or This PC” and pick "properties">advanced system settings (left column) >advanced tab>environment variables>system variables>"new", enter Environment Variable name LM\_LICENSE\_FILE, enter 1717@license.ece.virginia.edu as value (make sure there is **no leading nor trailing space**, or it won’t work!). Create another Environment Variables name MGLS\_LICENSE\_FILE and assign the same value of 1717@license.ece.virginia.edu. If environment variable LM\_LICENSE\_FILE already exists and has other value (used by other software), then obviously you cannot “create new”, click "Edit", then append 1717@license.ece.virginia.edu to the existing value string, separate them by ";". If you previously installed Mentor products, those variables should be set already and you may skip this step.

Install HDL Designer Series

Point your browser at http://www.ece.virginia.edu/~gl4n/cad/mentor2016 and download the following two files: HDS-READMEPC.TXT and HDS\_2015.1b\_win.exe

You do not have to read the HDS-READMEPC.TXT file unless you run into problems. Double click file “HDS\_2015.1b\_win.exe” to install. Answer “Yes” or “Agree” to all questions except:

1. Only select HDL Designer, do not select HDL Author (we do not have license to run the latter).
2. Answer “No” for question “Would you like to install the 1-wire Dongle Drivers (for windows 32-bit only)?”

Install ModelSim

Point your browser at http://www.ece.virginia.edu/~gl4n/cad/mentor2016 and download the following two files: modelsim-INSTALL\_NOTES.txt and modelsim-win64-10.4c-se.exe.

Again you do not have to read the modelsim-INSTALL\_NOTES.txt file unless you run into problems. Double click file “modelsim-win64-10.4c-se.exe ” to install. Answer “Yes” or “Agree” to all questions except: Answer “No” for question “Install Hardware Security Key Driver”.

If license wizard window pops up, just click “Exit”. Or run test, it should pass.

Install Precision Synthesis

 Point your browser at http://www.ece.virginia.edu/~gl4n/cad/mentor2016 and download “Precision-win64-2015.2” and precisionsynth\_install.txt. Double click to install and answer “Yes” or “Agree” to all questions.