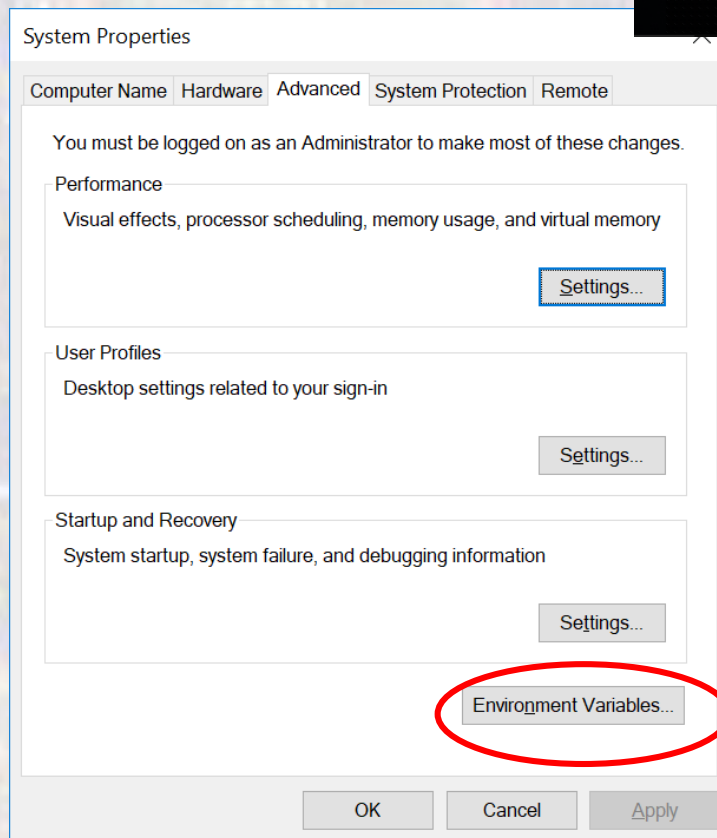# GDSPlot Setup

Last updated 2/25/19

GDSPlot Setup

- GDSPlot is a CAD tool used to plot integrated circuit designs from GDS files

- GDS is a standardized integrated circuit representation

- www.artwork.com

- It runs in Windows

- It requires a license to run
  - Served from an MSOE computer
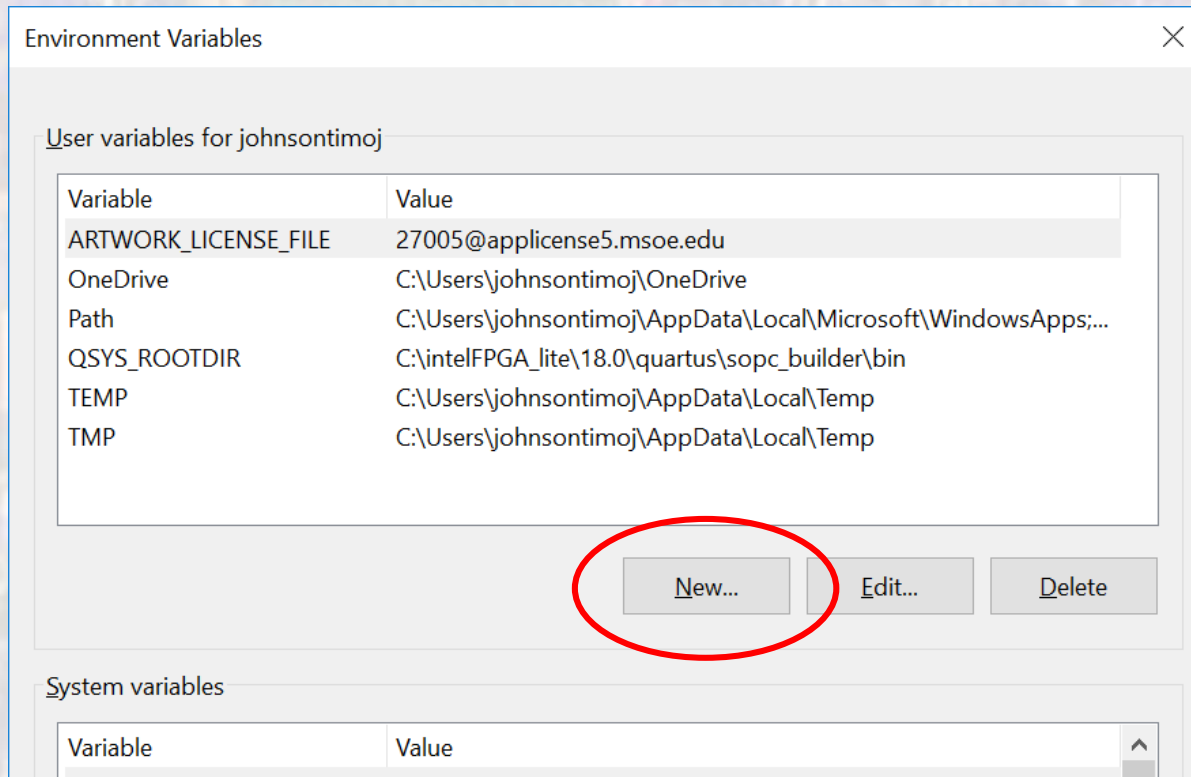 - Must be connected to the MSOE network

GDSPlot Setup

- Software Setup
  - Setup environment variable for the license server
    - Search for environment variables
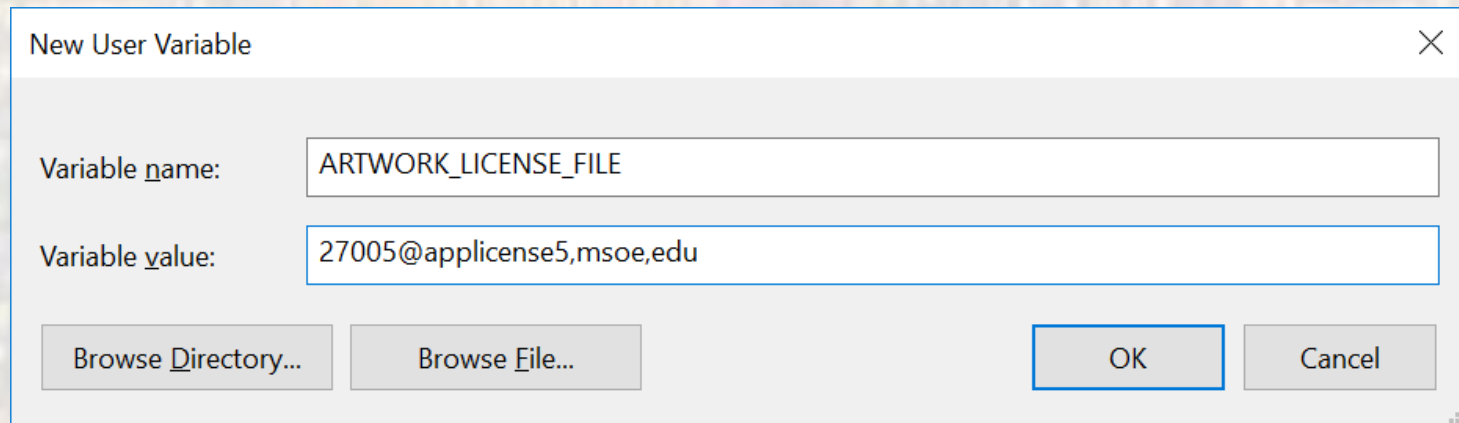
GDSPlot Setup

Windows

- Software Setup
  - Setup environment variable for the license server
    - Select New

GDSPlot Setup

Windows

- Software Setup
  - Setup environment variable for the license server
    - Add the following

New User Variable		✕
Variable name:	ARTWORK_LICENSE_FILE	
Variable value:	27005@applicense5,msoe,edu	
Browse Directory... Browse File...		OK Cancel

GDSPlot Setup
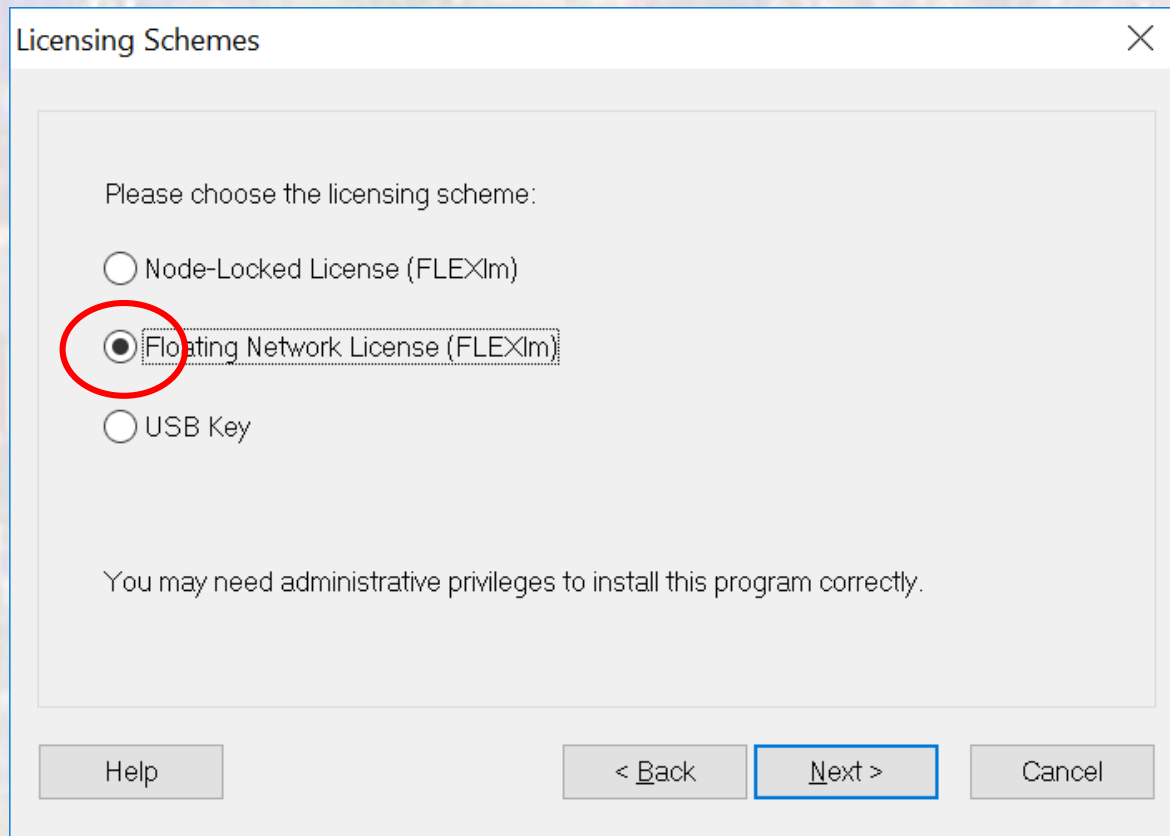
Windows

- Software Download
  - Go to http://www.artwork.com/gdsii/gdsplot/gplw_dnl.htm
  - Select

    gdsplot.win32.v544.exe   (towards the bottom of the page)
    - User Name: acsGuest
    - Password: W3lcomeBack

  - A password is required to extract the executable
    - See instructor for password

  - Accept all the defaults UNTIL you get to the Licensing screen

GDSPlot Setup

- Software Download
  - Choose the Floating Network License
  - Cycle through the menus

Licensing Schemes

Please choose the licensing scheme:

- ○ Node-Locked License (FLEXlm)
- ◉ Floating Network License (FLEXlm)
- ○ USB Key

You may need administrative privileges to install this program correctly.

Help		< Back	Next >	Cancel

GDSPlot Setup

Windows

- Software Download
  - Validate

Validating Floating FLEXlm License

Setup will attempt to communicate with a FLEXlm license server within your network. The environment variable ARTWORK_LICENSE_FILE defines the hostname of the server where FLEXlm is installed.

It may stay idle for a period of time if your network is busy or FLEXlm has not been started. If the ARTWORK_LICENSE_FILE variable has not been set, a dialog will prompt for the FLEXlm license server.

Validate   Network License Web Page
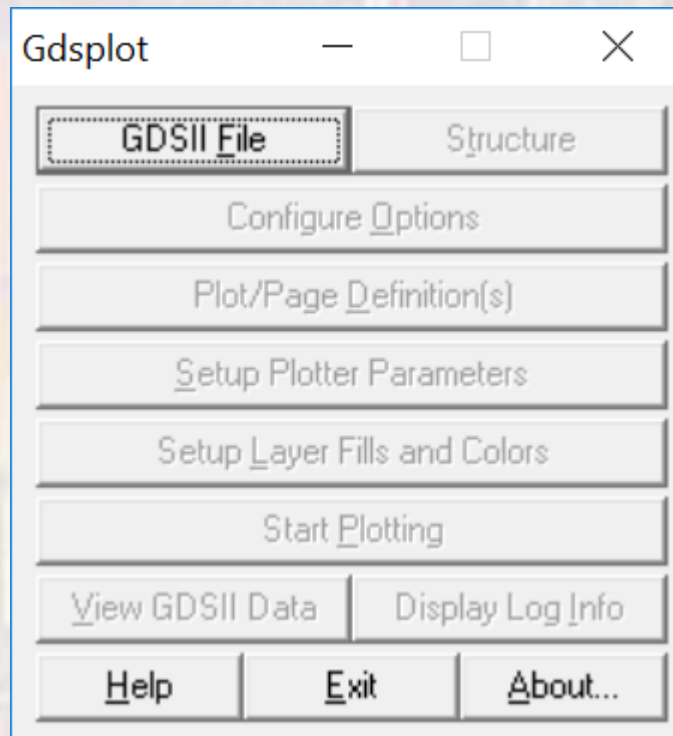
GDSPlot Setup

Windows

- Software Download
  - In Windows – search
    - Printers
    - Add Printers and Scanners

    - Not sure what goes here

GDSPlot Setup

- Software Check
  - Download from the class website/labs into a convenient location (EE4981 directory?)
    - https://faculty-web.msoe.edu/johnsontimoj/EE4981/index-ee4981-lab.html
    - MSOE 25nm GDS file (SRAM bit)
    - MSOE 25nm Plot Layers

GDSPlot Setup

- Software Check
  - Start GDSPlot

GDSPlot Setup

- Software Check
  - Select GDSII File
    - Choose the downloaded example file
    - Scan or rescan the file when asked

  - Configure Options
    - Leave defaults

  - Plot/Page Definitions
    - Select Scale or Fit (preferred)

GDSPlot Setup

- Software Check
  - Plot Setup
    - OEM Driver
    - \\printers.ad.msoe.edu\MSOE Plotting

  - Page Setup
    - Default should be 24x36
    - Select Fit

  - Setup Layer Fills and Colors
    - Load
    - Select your saved file – msoe25_gds.map
    - Apply

GDSPlot Setup

- Software Check
  - Before Plotting
    - View GDSII Data
      - Inspect the design