How to use cmd-PC1D6.1 and the associated conversion programs

- 1. Set up the simulation parameters and the device structure. The original PC1D interface or PC1Dmod6.1 can be used for this.
- 2. Convert the .prm files to ascii text for editing: convert prm to ascii.exe filename.prm filename.txt
- 3. Change parameters by editing the text version of the parameter file, which is now called *filename.txt*. For a single-region simulation, each parameter will always correspond to a specific line number.
- 4. Convert the text file back to the .prm format: convert_ascii_to_prm.exe filename.txt filename.prm
- 5. Use one of the cmd-PC1D programs to run the simulation: cmd-pc1d5.exe filename.prm (original PC1D) cmd-pc1d6-1.exe filename.prm (modified PC1D)
- To run batch simulations with a batch file, use the following syntax:
 cmd-pc1d5.exe filename.prm batchfile.txt (original PC1D) *
 * cmd-PC1D 6.0 does not support batch simulations at the moment, but this will hopefully be fixed in a future update. Batch simulations must therefore be done using a loop, or within the PC1D for Matlab GUI.
- 7. The output from cmd-PC1D is a column vector of x-data followed by up to four column vectors of y-data. The type of output data can be defined in two ways:
- a. By using the original PC1D GUI, use "Graph" -> "Defined" under the main file menu.
- b. By directly modifying the .prm file.
- 8. The description field of the .prm file (the second line in the corresponding .txt file) is used to specify a file location for the configuration file, which may be used to specify which physical models to use. See PC1Dmod6.1 help for details.