

# Using T<sub>E</sub>X and L<sup>A</sup>T<sub>E</sub>X at Purdue University Calumet

Dr. Kevin P. Lee

At Purdue Calumet, T<sub>E</sub>X and L<sup>A</sup>T<sub>E</sub>X are already installed in all of the computers in Math Computing Lab, which is located in CLO 365.

The T<sub>E</sub>X implementation used in the lab is MiK<sub>T</sub>E<sub>X</sub>. In this implementation, the T<sub>E</sub>X compiler, the DVI-previewer, and the text editor are separate programs. The text editor is called PFE (which stands for Programmer's File Editor). The DVI-previewer is called Yap (Yet Another Previewer). (If you do not yet know what T<sub>E</sub>X is, please consult the document *Writing Mathematics with L<sup>A</sup>T<sub>E</sub>X*.)

To begin, go the **Start** menu. Proceed to submenus **Programs** followed by **MiK<sub>T</sub>E<sub>X</sub>**, and finally select **PFE 32 for TeX**. This will bring up the text editor. You can start a new file or open up an already existing file. (You might want to start off with the file `longtemp.tex` located on Mathematical Writing web page.)

To run T<sub>E</sub>X or L<sup>A</sup>T<sub>E</sub>X on the source file, first make sure that the source file is open in PFE. *The file needs to be saved before you can proceed.* The file name should contain no spaces and end with the suffix `.tex` (like for instance `myfile.tex`). Then within the PFE program, go to the menu item **Execute** and select either **LaTeX** (if you have a L<sup>A</sup>T<sub>E</sub>X file, like `longtemp.tex`) or **TeX** (if you have a plain T<sub>E</sub>X file). You may need to run the source file through the T<sub>E</sub>X/L<sup>A</sup>T<sub>E</sub>X compiler twice.

To view the DVI file, again make sure that the source file is open in PFE. Within PFE, go to the menu item **Execute** and select **View DVI file**. This will activate Yap and you will be able to see your beautifully typeset paper.

If you decide that you want to go make some changes, go back to PFE, make your edits, and *save your file again*. You can then run T<sub>E</sub>X/L<sup>A</sup>T<sub>E</sub>X on the file and view the resulting DVI file using the steps outlined above.

To produce a hard copy of your DVI file, you should print from within the Yap application. Within the Yap program, go to the menu item **File** and then select **Print**.

The procedures outlined above only work on the computers in CLO 365. If you are working with a different T<sub>E</sub>X implementation (or are using MiK<sub>T</sub>E<sub>X</sub> at another location), consult the documentation.