

Notes on setting up Geothermal Properties Measurement Model

Copy the files setup.exe, setup.lst, and gpm.cab to a temporary directory. Click on the setup program to begin the process. It is best to exit from all Windows programs before beginning setup.

The setup program begins by copying a number of DLL files to your machine. Undoubtedly, you already have copies of many of these DLLs. Depending on which version of Windows you are running, the gpm setup program may try to install versions of these DLLs that are newer than the ones you have. If so, setup will notify you, and you will have the option of keeping your old DLLs or installing the newer versions. We recommend that you install the newer versions -- they were obtained directly from Microsoft, and will improve the performance of this and other programs. However, gpm should run correctly even if you keep the older DLLs.

In some cases, the setup program may require you to restart your machine in order to continue with the setup process. If so, restart your machine, and when Windows comes back up, restart the setup program on the WINDOWS/TEMP directory. The program should then install correctly.

For some unknown reason, on some machines an error will occur when copying a file called exsrv5.dll. Pressing the "ignore" button clears the error, and the program continues to install and will run with no problems.

Once the program installs, it will appear on your start menu under the title "gpm". Run the program as you would any other Windows application, by clicking on its icon.

Three sets of test data are included with the program: camp.dat, example.dat and sim.dat. Press the "Browse..." button next to the file input window; the three data files will appear. Double click on one of them to load it into the program. After this, you need to input the correct u-tube diameter, borehole diameter, borehole depth and deep earth temperature. The easiest way to do this is to press the "Browse..." button next to the "Output file name" window. The output file for each data file contains all of the correct information. So for example if you selected the camp data file, select "camp2.out" in the Output file name window. Press the "Calculate parameters" button. You will receive a warning stating that "An output file by this name already exists. Do you want to overwrite it?" Press the "Yes" button. After a few seconds (depending on the speed of your machine) gpm will report the thermal conductivity as 1.1463 BTU/hr-ft-F.

If you have any problems, please send an e-mail to John Shonder at shonderja@ornl.gov.