4:59 AM May 3 2019 Jacob Smith: I did some more background research on writing board independent libraries, here are some helpful links

[1]<http://forum.arduino.cc/index.php?topic=233476.0> #7 and 1: Multifunctionality with templates and flag variable

[2]<https://forum.arduino.cc/index.php?topic=534512.0> #10: Avoid board defines when possible

[3]<https://github.com/arduino/Arduino/wiki/Arduino-IDE-1.5:-Library-specification>: Arduino specification, includes an extras file which could be useful for engineering notebook etc.

[4]<https://www.deviceplus.com/how-tos/arduino-guide/arduino-preprocessor-directives-tutorial/> Good background on preprocessor directives, confirms #warning for Arduino

My conclusion is that precompiler directives seem to be an accepted way to write libraries that can handle multiple boards. Templates sound interesting, and I think having differently named libraries or functions wastes code.