Current files

main\_hvac\_model\_manualdist\_1zone.m: This one generates disturbances manually so that Simulink model loads them. Implements differences throughout the week. Performs comparison between ASMPC, SMPC and MPC (MPC is the same SMPC but with tightening parameters equal to zero and not performing adaptation)

Calls the following design methods

design\_MPC\_hvacmb\_1z\_v4: designs ASMPC (and same file can be used for SMPC and MPC)

Calls the following Simulink models

hvac\_maborrelli\_singapur\_1zone\_with\_MPC\_v3\_manualdist\_ofice: calls ASMPC (or variations)

hvac\_maborrelli\_singapur\_1zone\_with\_RBC\_manualdist\_ofice: implements rule based controller

main\_hvac\_model.m: only the average disturbance sequence is generated, and an unknown Simulink model is called. No difference through the week. But can choose different MPC designs

main\_hvac\_basic.m: only the average disturbance sequence is generated, very “mysterious file haha”