

IBPSA Project 2: BOPTTEST
Task 3 Emulator development
Virtual Progress Meeting
06/04/2024
6:00 AM –7:00 AM U.S. Pacific Time

Participation

	Name	Affiliation
1	David Blum	LBNL
1	Ettore Zanetti	
1	Davide Fop	Politecnico di Torino
1	Alireza Yaghoubi	École de Technologie Supérieure (ÉTS)
1	Matthias Van Hove	Danmarks Tekniske Universitet
1	Zhe (Walter) Wang	Hong Kong University of Science and Technology

Minutes:

Current Emulator developments

- Multizone Hydronic Simple [Bart, Iago]
Unit tests are passing. However as highlighted in [issue465](#), problems were found with control behavior.
Iago started to work by reverting the preconditioning to its original value and check on incongruencies in the PI opening that lead to simultaneous heating and cooling
- Large Office [Yan, Xing] –
Xing is addressing Kun’s review comments and he is done with most of them. Xing was able to simulate a full year with no problems and was not able to reproduce end of year simulation error. Kun will run simulation on windows instead of Linux to see if error persists.
Xing to resume work on this Test case in a couple of weeks.
- ADRENALIN Emulators and general update [Harald] – no update. Probably close to starting [competition](#)
- DOPTTEST [Javier]
Lieve mentioned in Task 2 meeting that new PhD students are taking on the project. No update, Ettore to reach out to students to see if they are interested joining Task 3 meetings to give updates on DOPTTEST.
- Twozone Apartment Hydronic [Ettore]
Laura sent updated BOPTTEST model to Ettore, he will take care of updating the model.

Matthias test case presentation discussion

Two case studies were presented, a single family house and school. Matthias may start updating the single family house model to make it compatible with BOPTTEST. In particular, all the necessary changes (input, output blocks, .csv files, scenarios, etc..) should be implemented. Furthermore, currently there is not heat pump model but only a lookup table.