

IBPSA Project 2: BOPTTEST
Task 3 Emulator development
Virtual Progress Meeting
10/10/2024
6:00 AM –7:00 AM U.S. Pacific Time

Participation

	Name	Affiliation
1	David Blum	LBNL
1	Ettore Zanetti	
1	Harald Taxt Walnum	Sintef
1	Javier Arroyo	Wedoco
1	Cas Bex	KU Leuven
1	Peder Bacher	Danmarks Tekniske Universitet DT
1	Guowen Li	Texas A&M

Minutes:

Current Emulator developments

- Large Office [Yan, Xing] –
No news. Need 2025 budget to start working on it again.
- ADRENALIN Emulators and general update [Harald] – [competition](#) online.
Two emulators, starting with the single zone commercial. Need to look at possible issue with cooling season simulation. Forecasts to be updated. Whole building control vs only HVAC? Ettore to check test cases once PR is submitted to main repo.
- DOPTTEST [Javier]
Each building has background load in the buildings. Identified reduced order models for the buildings, but not a lot of progress due to other commitments. This work will pick up again this week.
- Twozone Apartment Hydronic [Ettore]
No updates.
- DTU emulators [Matthias]
No updates
- ETS emulator [Kun]
No updates

IBPSA Project 2 Task 3 breakout session discussion

Breakout Session 1		1 hr
Item		Time
Start from plenary presentation to introduce task. Current emulator development. Potentially more in depth discussion on open issues. Updates on available Emulators (models, bacnet, semantics). New emulator state of development?		13:00
New naming discussion. Finalize new naming convention? How to address legacy naming?		13:30
What key test cases are missing (or new features that are worth adding) ? Anyone willing to contribute?		13:50
How to increase engagement for test case development? (to be brought up in Task 1)		14:00

Breakout Session 3		1 hr 15 min
Item		Time
Presentation on previous test case development experience (Ettore, Iago, Xing, Yeonjin, etc...)		10:45
How to speed up development process? (one on one coaching sessions, cheat sheets, documentation improvements, tutorials)		11:00
How to improve review process? Feedback on review document and test script?		11:15
Open discussion		11:50

Breakout Session 4 - Joint with Task 2/3		1 hr 15 min
Item		Time
Test case compilation and execution tools (Where we stand today, next steps, discussion)		13:00
DOPTTEST development (Updates and next steps) (Javier can prepare presentation)		

Repository refactoring for test cases	
Additional cross-over identified during parallel sessions	
Papers for BS2025	