

IBPSA Project 2: BOPTEST
Task 2
Virtual Progress Meeting

09/19/2024
9:00 AM – 10:00 AM U.S. Eastern Time

Participation

David Blum	LBNL
Jaap Neven	KU Leuven
Javier Arroyo	Wedoco
Zhe (Walter) Wang	Hong Kong University of Science and Technology
Laura Zabala	R2M Solutions
Iago Cuepero	dnergy
Harald Taxt Walnum	SINTEF
Peder Bacher	DTU
Guowen Li	Texas A&M University
Kun Zhang	École de Technologie Supérieure (ÉTS)

Total: 10

Notes

Generally, updates to ongoing initiatives and discussion of possible new initiatives.

1. Weather forecast uncertainty [Laura and Zhe]
 - Waiting for reviewer comments to journal article still – maybe consider Journal of Building Performance Simulation
 - Laura merged to her fork implementation on fork that Wanfu was working on and ready for **Dave's** review.
2. Repo Refactor [Dave]
 - Service merge - <https://github.com/ibpsa/project1-boptest/pull/652>
Dave updated documentation and merged Service-specific unit tests to travis.
Kyle working on final changes resulting from Adrenalin experience. Ready for beta testing using branch ``issue617_refactorService_with_history2``.
 - i. Layer in AWS not in local deployment? **Dave** to check with Kyle.
 - ii. Also is large file storage or storage of results in minio, and not minio in AWS? **Dave** to check with Kyle
3. Online Dashboard and Service [Dave/Kyle/Harald]
 - Adrenalin competition in between training and competition stage
 - **Kyle and Harald** working through issues raised about Service during Adrenalin – messages not returning to client, either because of timeout (i.e. simulation took too long during initialization or otherwise) or other issue Kyle needs to look into. Competition entering final phase.
4. DOPTTEST [Javier]
 - **Javier talking with colleagues** from KU Leuven to split model development in MoPED (like Modelica library) and create new repo where do actual test case

development in dedicated repository. Suggest have in IBPSA repo group. See what functionality overlaps/integrates with existing functions in BOPTEST (e.g. parser and optionality for OpenModelica compilation).

5. OpenModelica compilation testing and library updates [Ettore]
 - Planned to be focus for next fiscal year at LBNL.
6. Semantic modeling [Ettore]
 - No update at this time.
7. New KPI – Actuator Travel [Xing and Jan]
 - Xing implemented KPI calc and testing resulted in change to formulation through discussion with Dave and Ettore – normalize y-axis and time before doing calculation. Xing also working on adding a parameter to overwrite block to tag an input as a actuator to be included in KPI calc. Will be able to choose type of actuator (e.g. valve, damper, fan, pump, HVAC equipment, other) perhaps for later usage in reporting.
 - Think about need to include set point in calculation?
 - Also, if can't overwrite actuator, still include in calculation?
 - i. Maybe yes if trying to measure wearing of all valves.
8. Breakout Session Topics for November Expert Meeting
 - See <https://docs.google.com/spreadsheets/d/148HZwPsnHOOrcX2iSBgcK9xeSfOrWbkX4i-DsZplDMU/edit?usp=sharing>
9. Ideas for new initiatives [All]
 - None.