

# IBPSA project 1 expert meeting

October 12th, 2020

IDEAS updates

# IDEAS



OpenIDEAS

An open framework for integrated building and district energy simulations

- Stable, focus on maintenance
- Features and upgrades since May:
  - BOPTEST simple hydronic case added (WP 1.2)
  - Documentation and usability improvements
  - IBPSA merge
  - Updated unit tests to python 3.6

# IDEAS



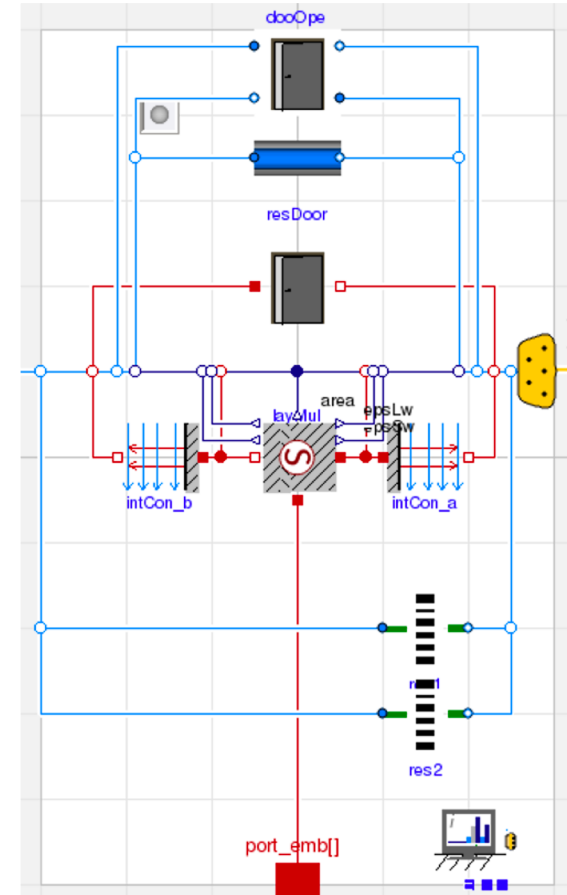
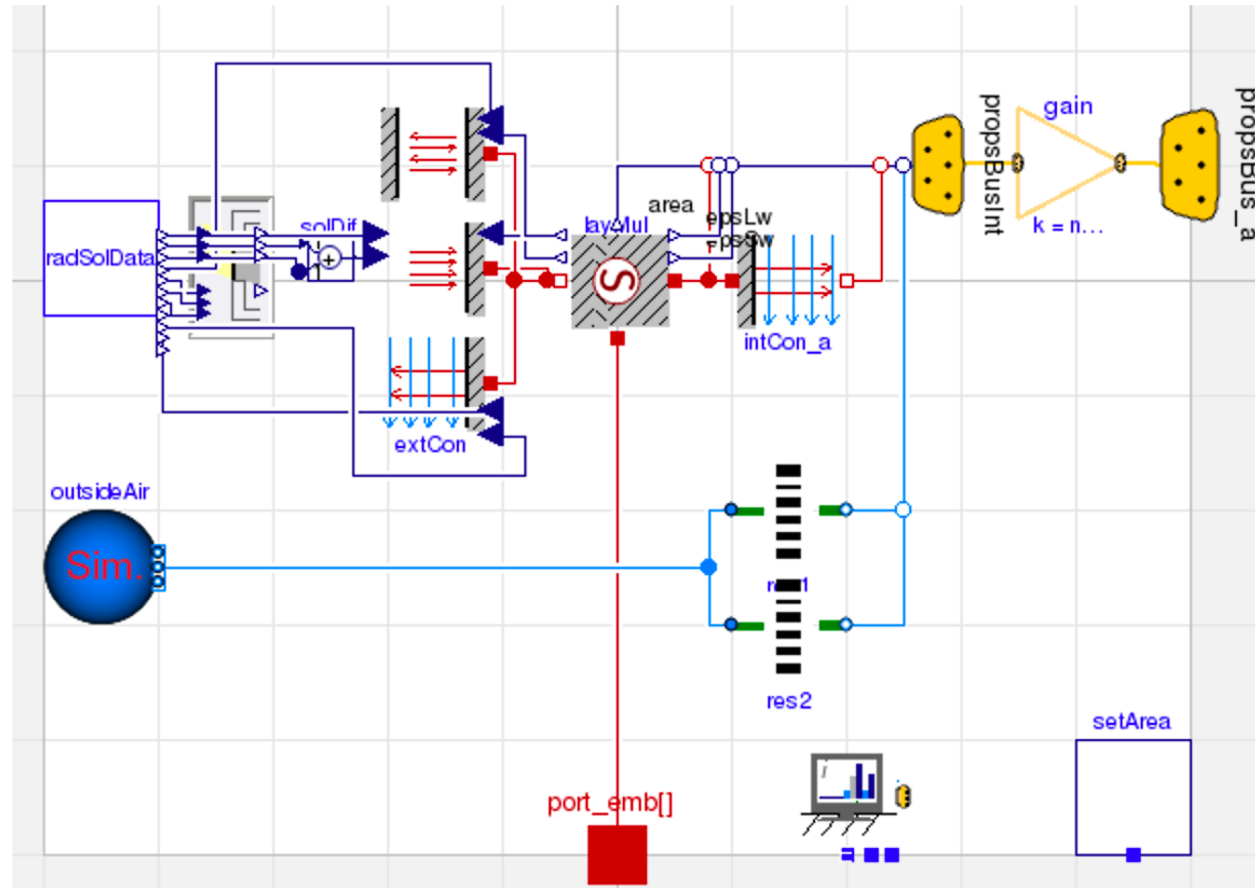
OpenIDEAS

An open framework for integrated building and district energy simulations

- Pressure-driven interzonal airflow (collaboration UGent)
- Features:
  - Integration into IDEAS.Buildings.Components (done)
  - Cracks, leakage coefficients automatically computed from n50 (done)
  - External wind pressure (done)
  - Coupled to HVAC (done)
  - Stack effect (todo)

# IDEAS: interzonal airflow implementation

- Implementation



# IDEAS: interzonal airflow implementation

- Preliminary results comparison CONTAM (by Klaas De Jonge)

