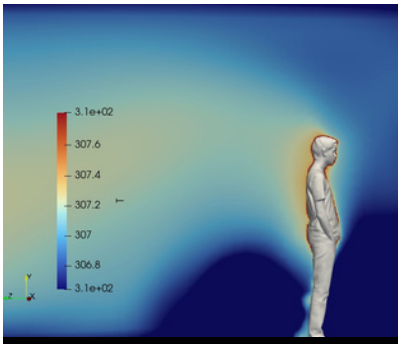
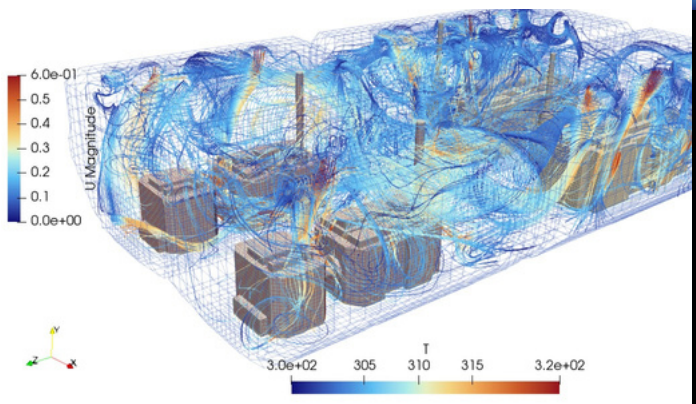
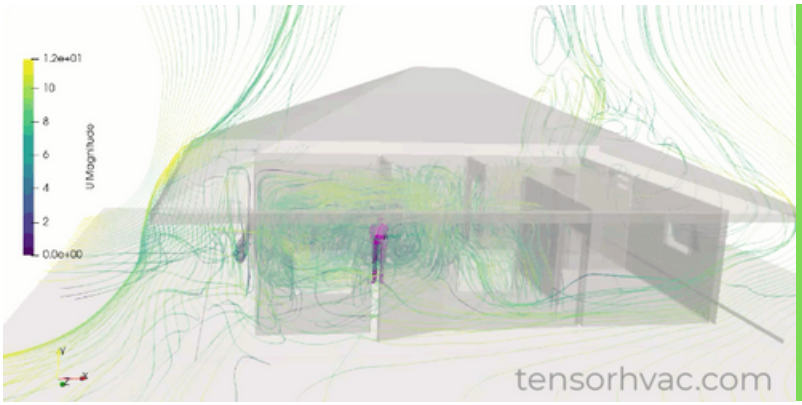
Date: 11/02/2025

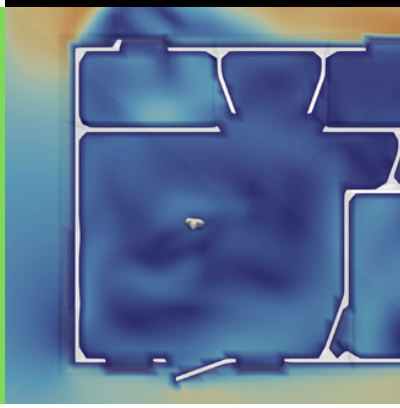
Dedicated **HVAC Flow and Thermal** Simulation Software

Don't compromise your project success with simplified building HVAC calculation, get detailed and comprehensive data with 3D HVAC simulation









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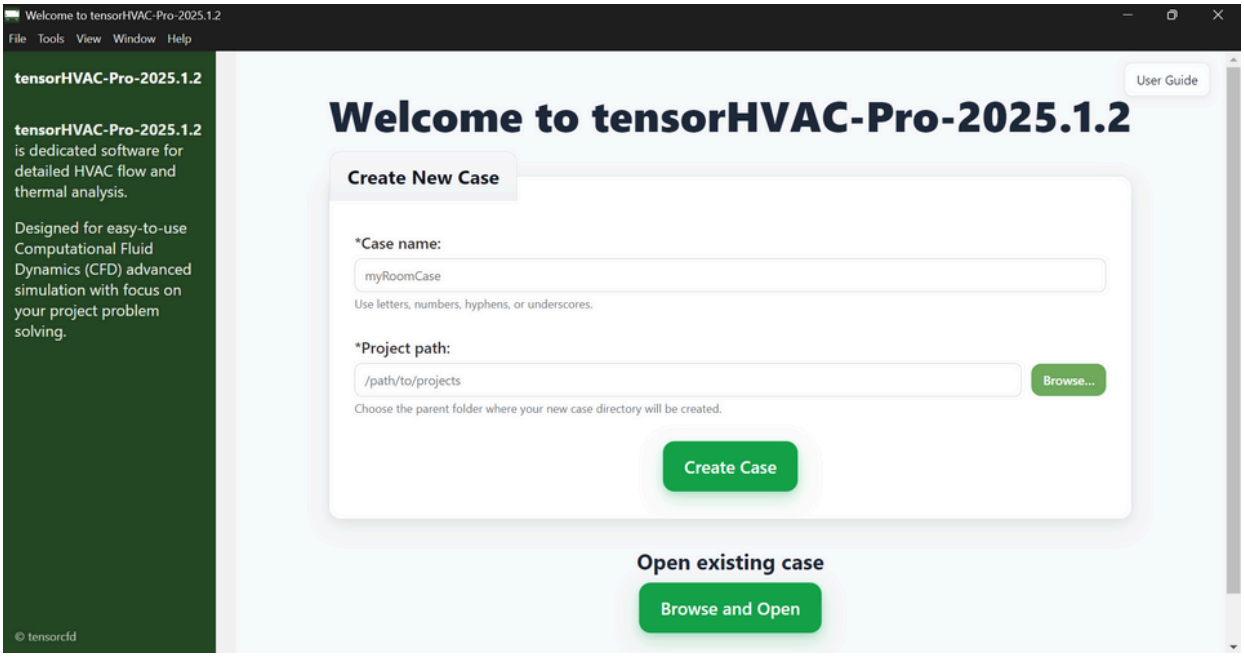
FEATURES

Open and Create New Project



A. Create New Case

This section allows the user to start a new simulation project.

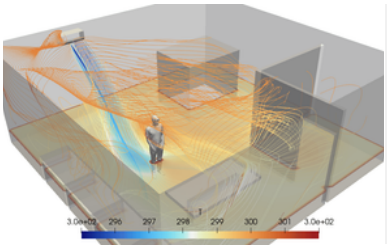
- Case name: A required field to enter the project name, which must use letters, hyphens, or underscores (example: myRoomCase).
- Project path: A required field to specify the parent folder location where the new case directory will be created (example: /path/to/projects). The Browse... button is provided to help navigate and select the folder.
- Create Case Button: The green button to execute the creation of the new project directory once all details are filled in.

B. Open existing case

- Browse and Open Button: This green button functions to open a file dialog, allowing the user to locate and load a previously created simulation project.

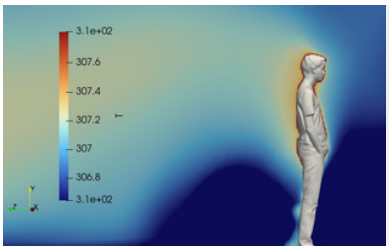
Various Scenario

From cooling or heating, indoor or outdoor, forced or natural convection HVAC Simulation, and combination.



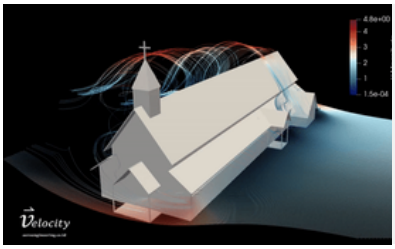
Indoor Air Comfort

Simulate various scenarios of Air Conditioner or heater for indoor building optimal energy and comfort



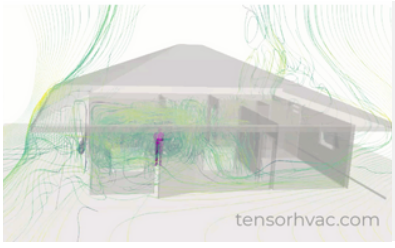
Natural Ventilation

Design a green building with minimum energy input with realistic physical buoyancy flow simulation



External Air Flow

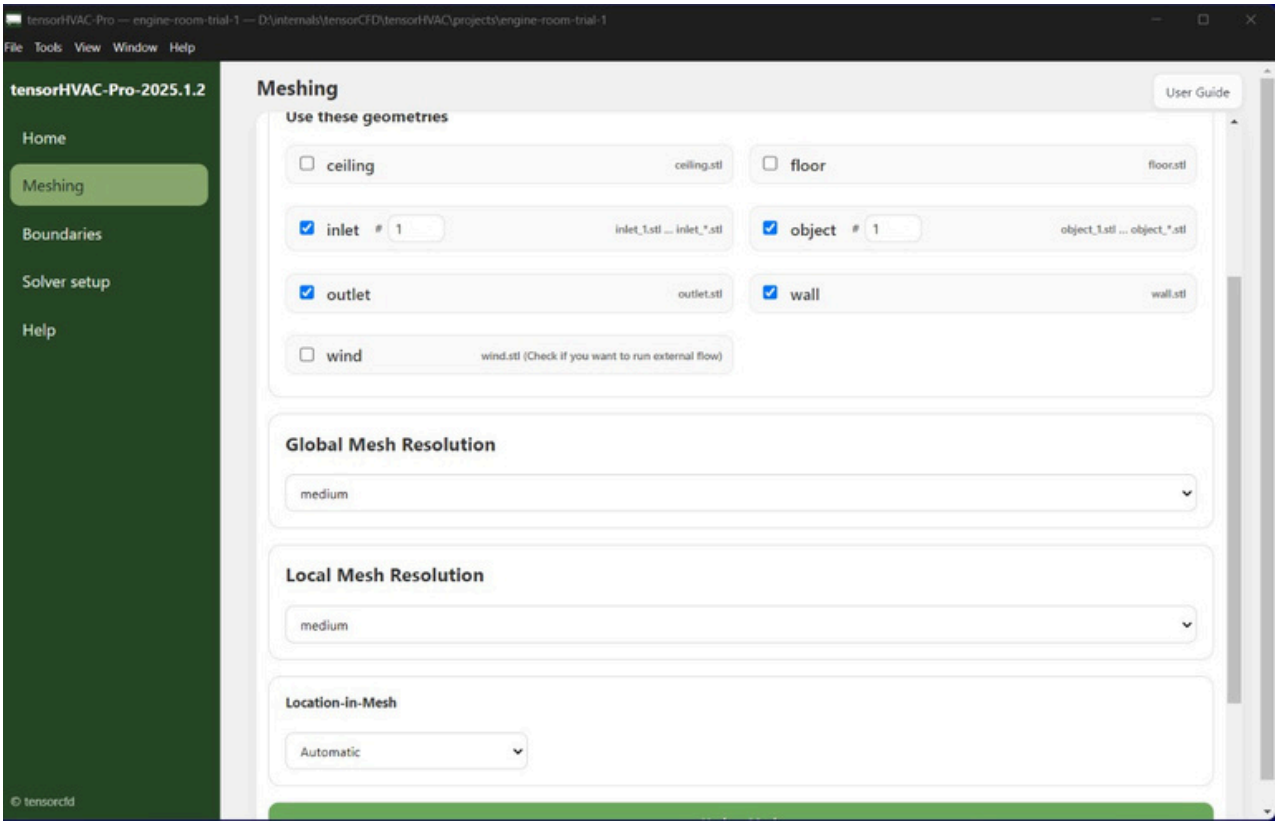
Simulate complex airflow between outside air flow with indoor cooling performance

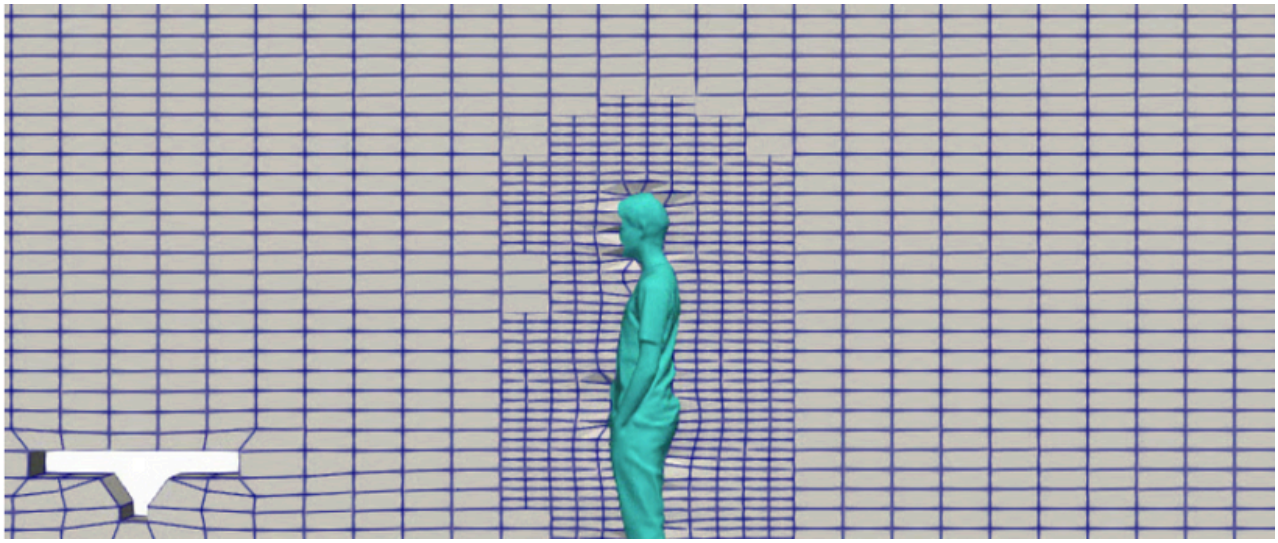


Combination

Automated Meshing Setup

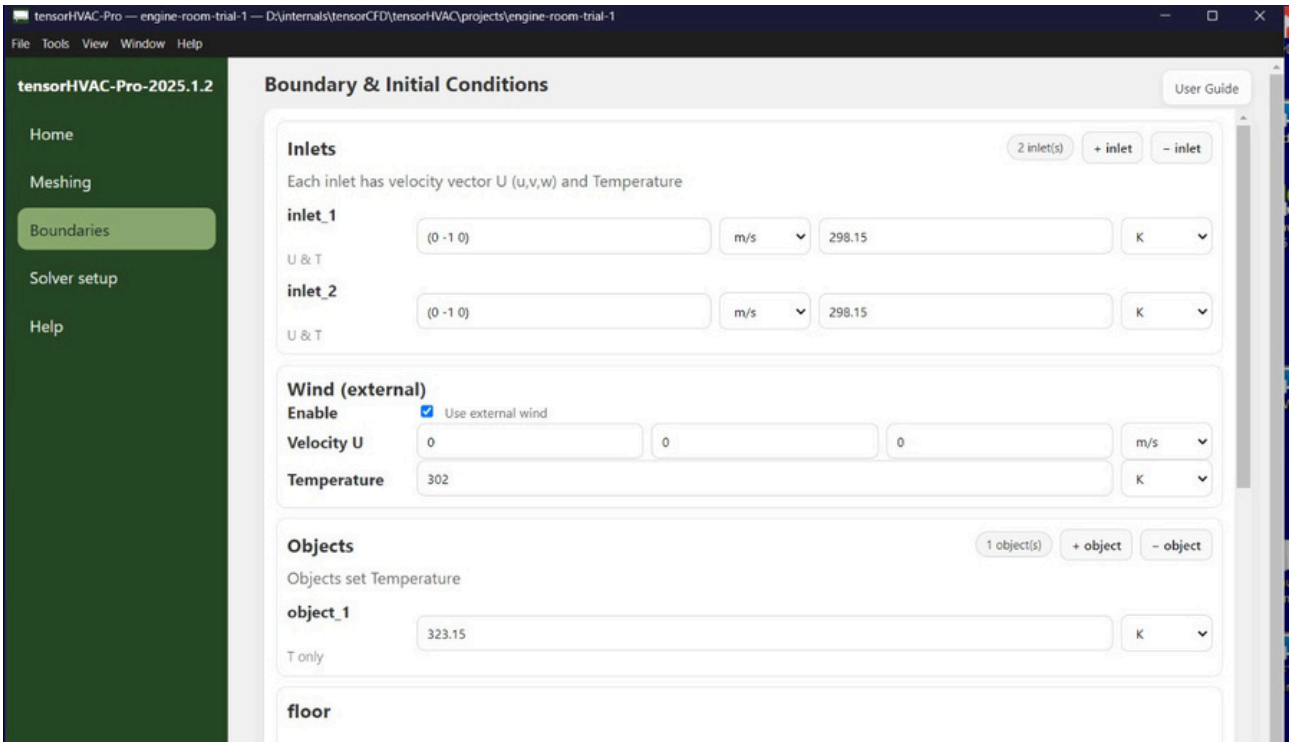
Users don’t need to be simulation and computation experts to set up the best meshing. The software is based on the best practices in HVAC CFD Simulation.





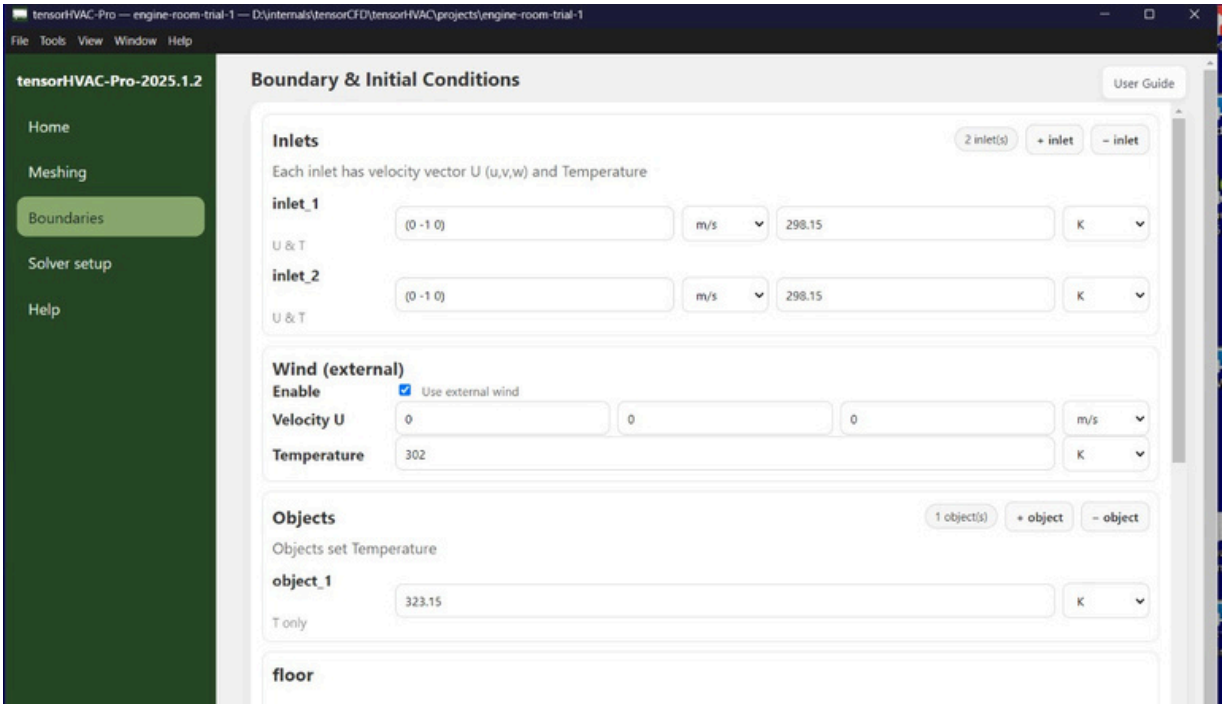
Automated Computational Setup

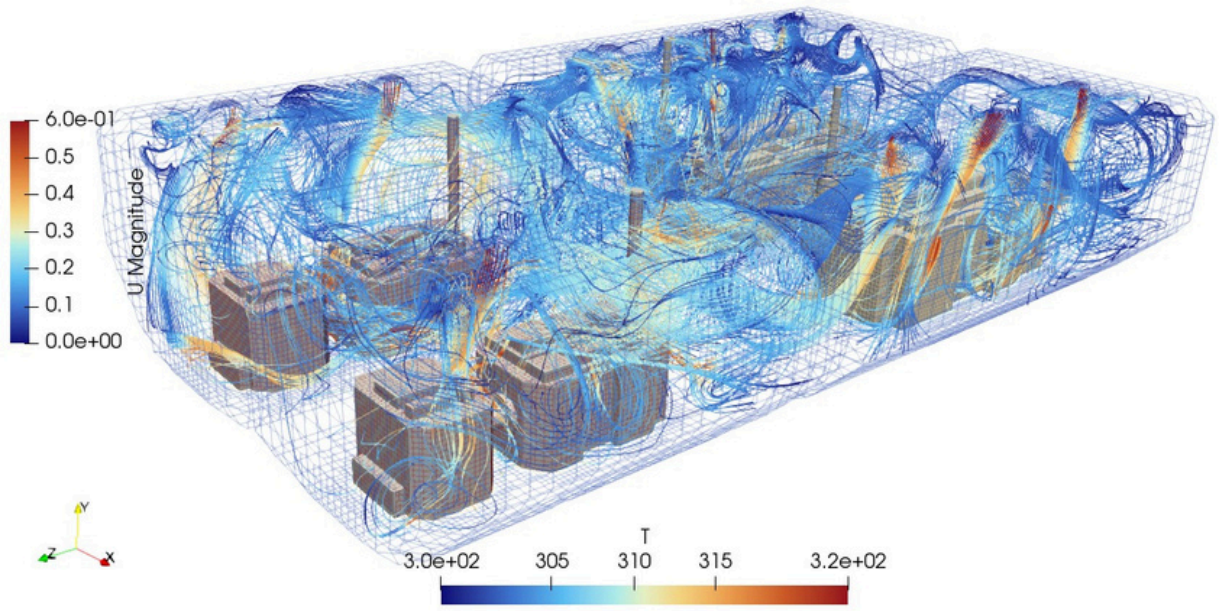
Designed specifically to make building HVAC airflow and comfort simulation easier and more accurate. It allows users to define boundary conditions, diffuser settings, and occupant zones quickly using templates based on industry best practices, eliminating the complexity of general-purpose CFD tools. This streamlined approach ensures reliable results for air distribution, temperature uniformity, and thermal comfort analysis with minimal setup time and ensure robustness.



Multiple Inlets and Objects

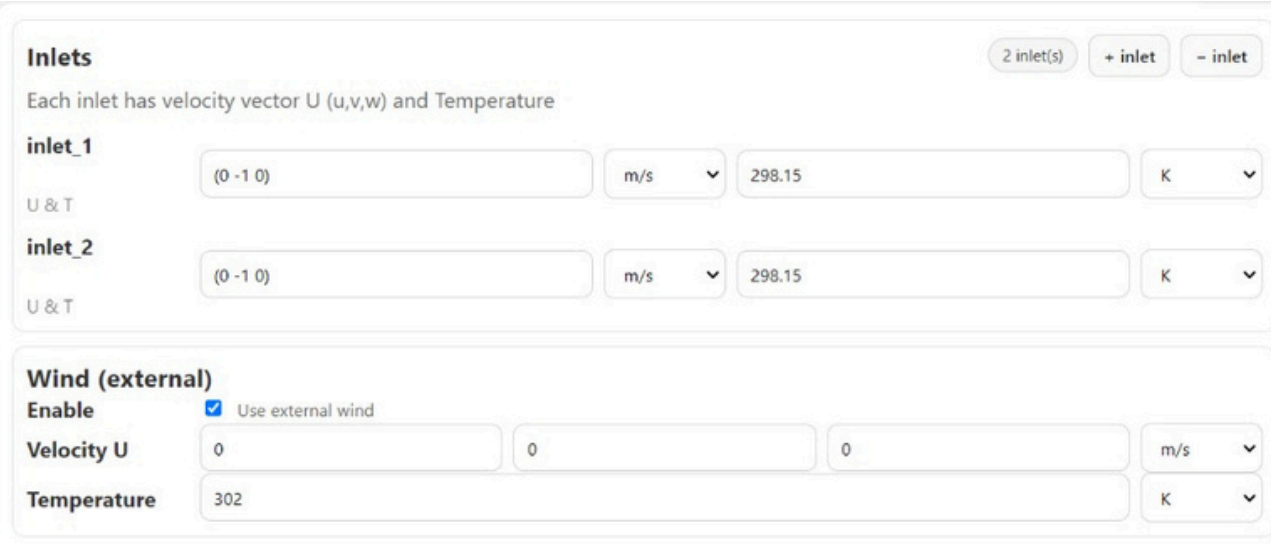
Users can easily manage multiple inlets and objects, and define their boundary conditions.

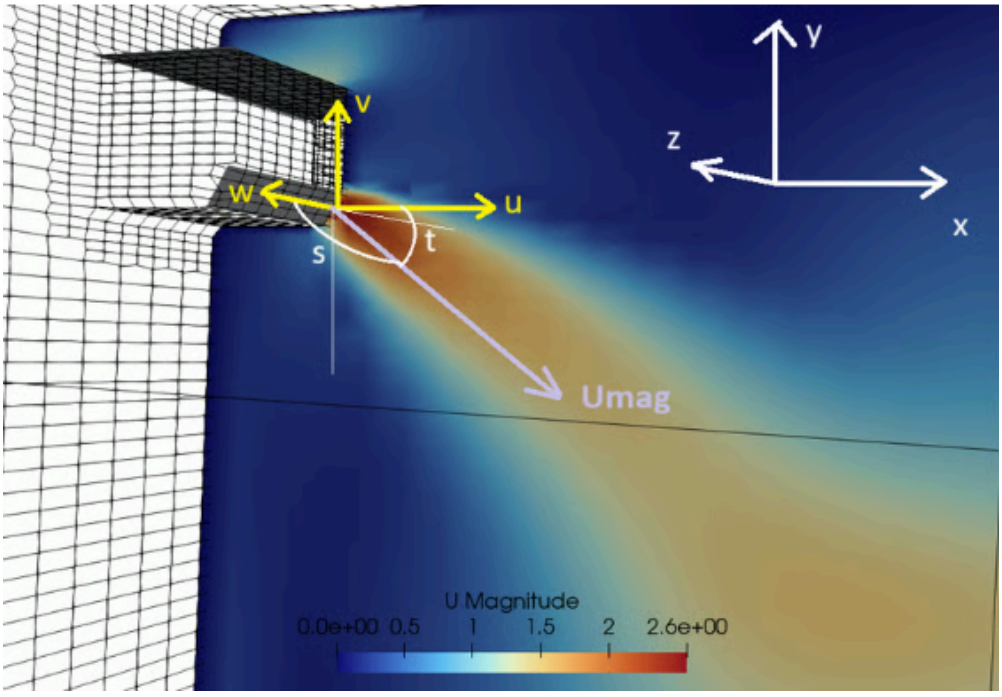




Straightforward Velocity and Temperature Inputs with Unit Converter

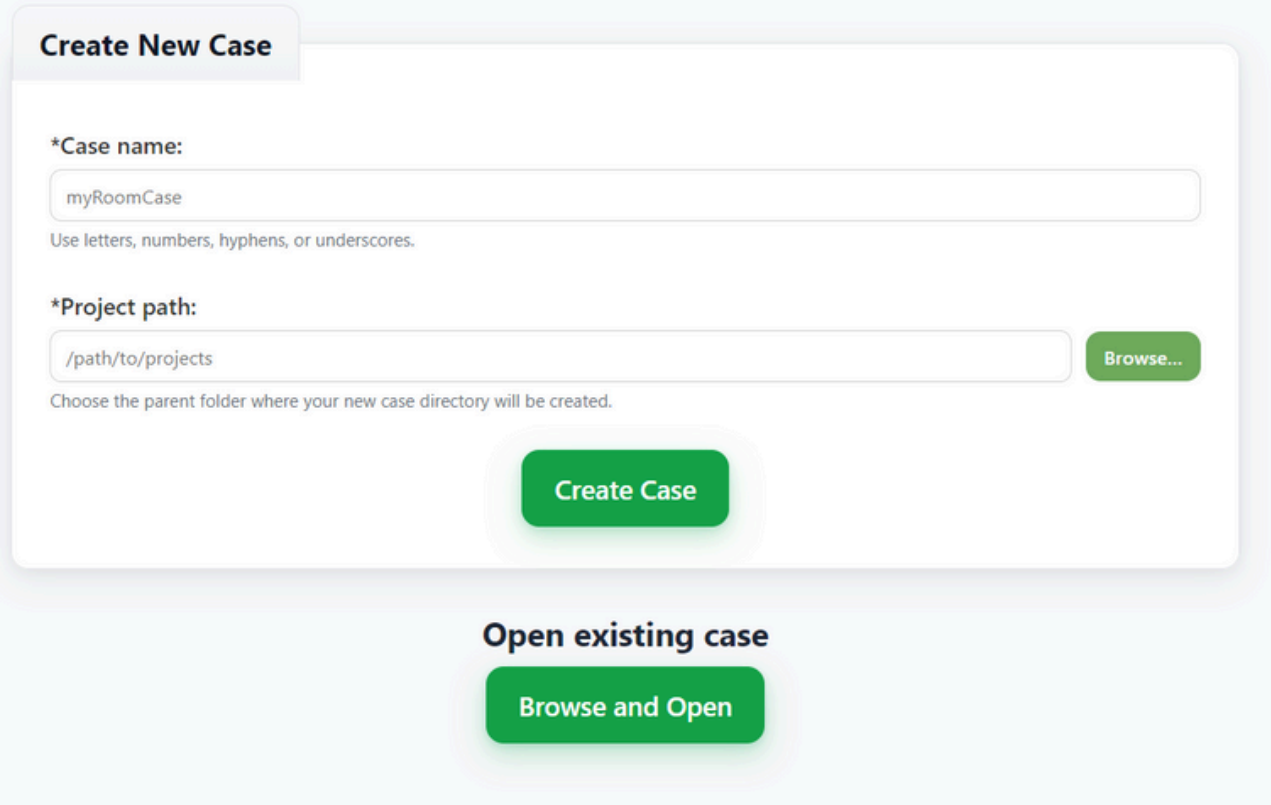
Users can easily manage multiple inlets and objects, and define their boundary conditions.

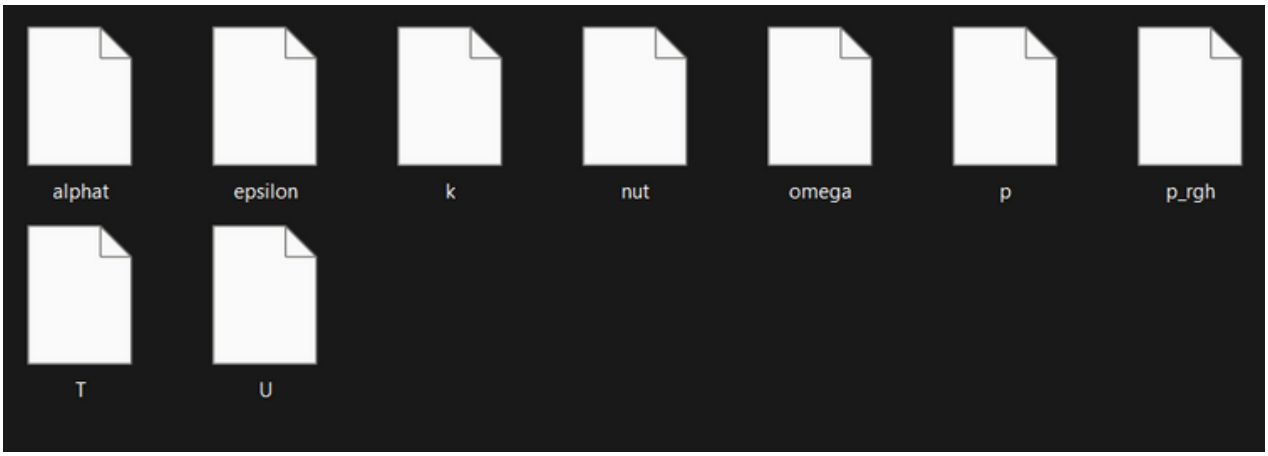




Manageable Outputs Data

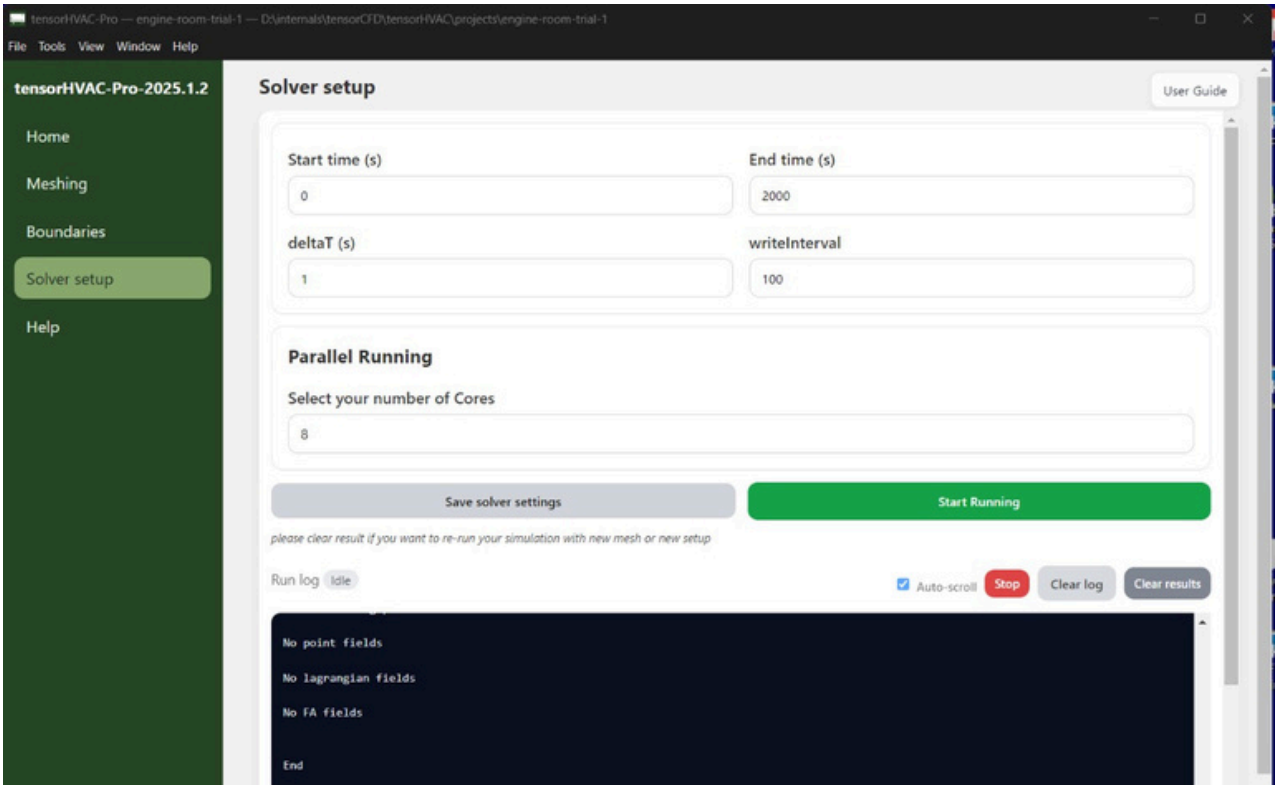
Easily manage relevant outputs to optimize memory usage and analysis requirements with efficient workflow to create or edit existing projects.





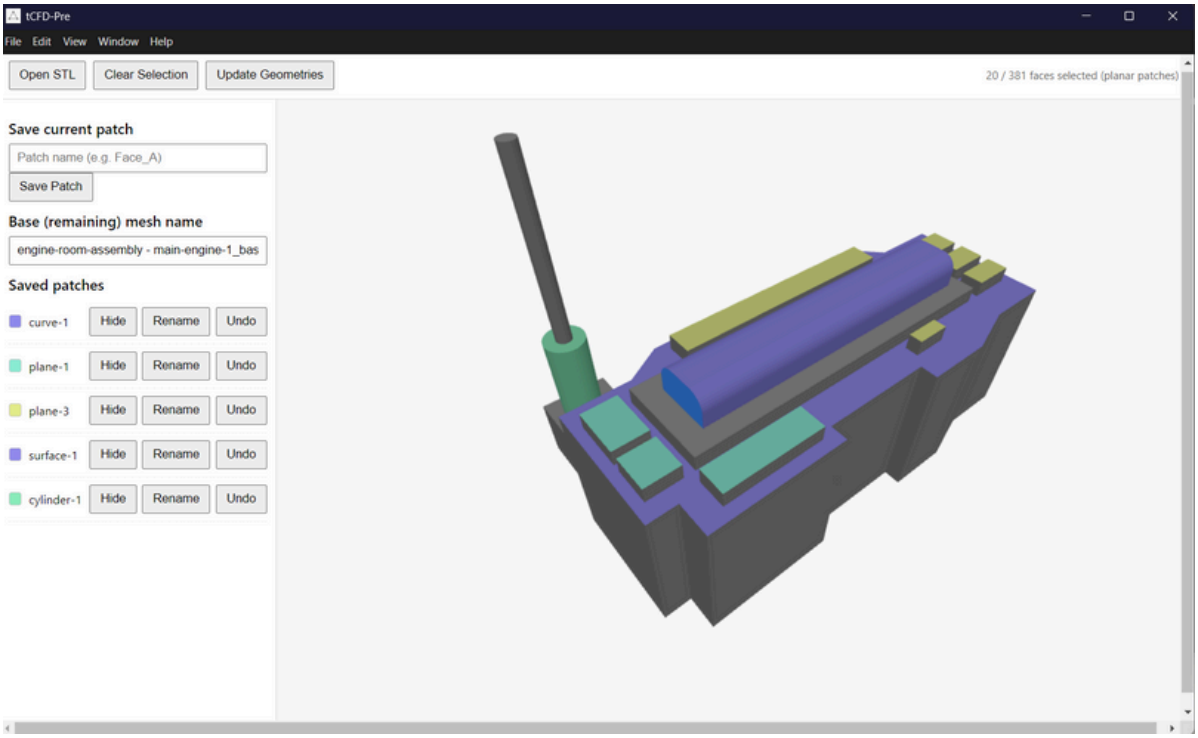
Parallel Processing for Calculation Speed Up

Instead of one core performing tasks one after another, multiple cores work on different parts of the problem at the same time. It works by breaking a large task into smaller, independent sub-tasks that can be processed at the same time. While this can lead to significant speedups, the actual improvement is limited by factors like communication overhead, the number of parallelizable operations, and the specific hardware used.

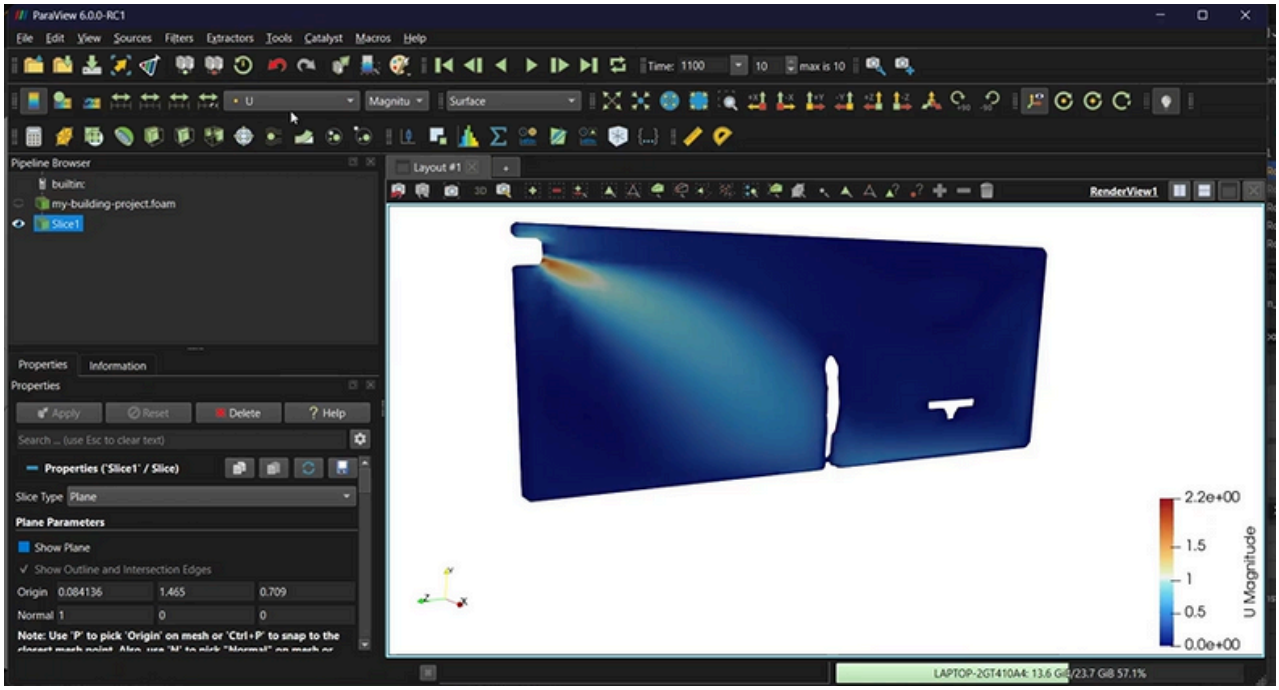


Integrated pre and post processing

Dedicated tCFD-Pre pre-processing



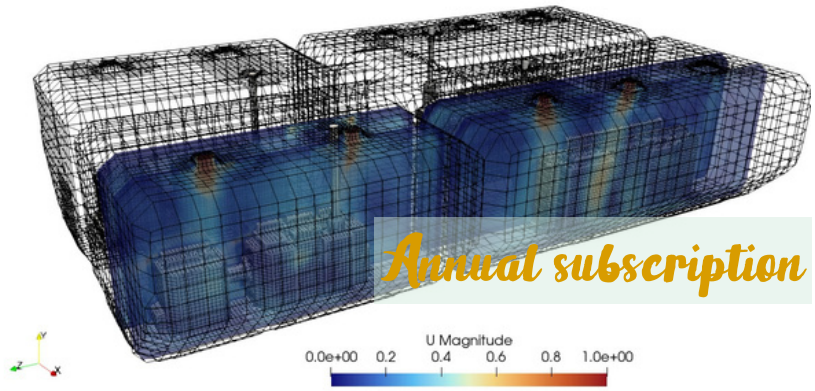
Post-processing via paraView



SUBSCRIPTION

Annual subscription

Dedicated HVAC flow and thermal simulation easy to use software. This is an annual subscribtion. We will send you a separate email for the installation

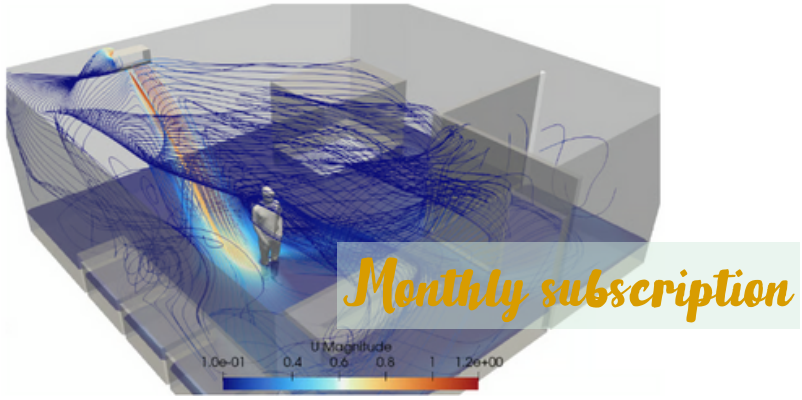


TOP SELLER

Special Price:
$800.00

Monthly subscription

Dedicated HVAC flow and thermal simulation easy to use software. This is a monthly subscription option. We will send you a separate email for the installation



Price:
$80.00

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