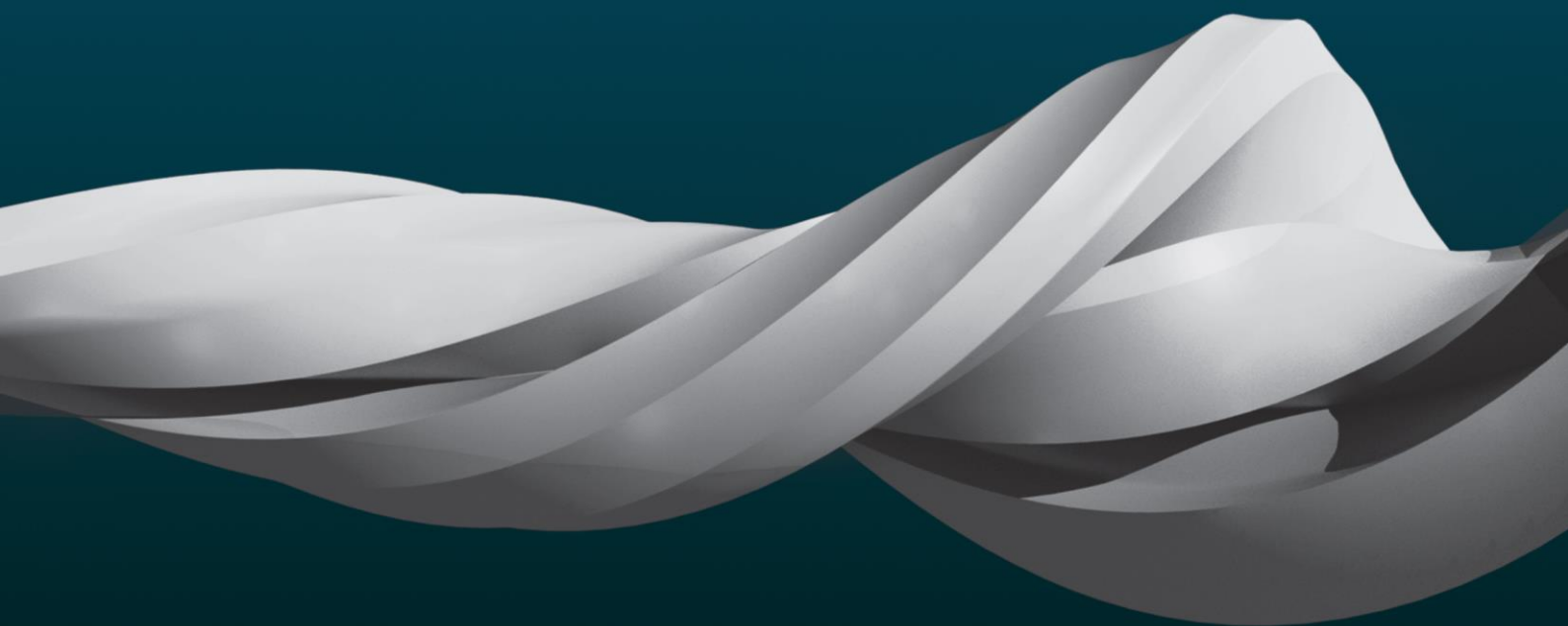




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XFlow 2022 CHANGE LOG



XFlow 2022 Golden (Build 116.00), May 21st, 2021

New Features

- New GPU features:
 - Probes are now available.
 - Solver Surface Integrals are available with “Sum” and “Average” type, and for Velocity and VOF fields only.
 - Contact angle hysteresis is now available in Phase Field.
 - Isotropic and anisotropic porous media is available for fixed geometries.
 - Turbulence model selection is now available in GPU with Smagorinsky and WALE turbulence models.
 - Support for new boundary conditions: convective outlet, mass flow inlet and outlet, and porous wall inlet (phase field only).
- Linux version support is now upgraded to CentOS 7. This means the minimum required CentOS/RHEL version is 7 or greater, and upgrade of your Linux distribution may be required.
- CATpart and CATproduct importation now allows to import visualization geometries.

Improvements

- The Solver Surface/Volume Integrals now support immersed-boundary geometries and geometries with disabled boundary conditions.
- Solid geometries in Conjugate heat transfer can now be used as the internal domain bounding geometry.
- Keyframes are saved when using the “Save as” function.
- Animated geometries are now supported as Post-Processing shapes even with loaded data.
- Moving porous media pressure drop has been improved now following correctly the Darcy-Ergun law.

Bug fixes

- Issues with some permanent licenses have been fixed.
- Post-processing items (cutting planes, etc.) are now displayed correctly after importing a Post-Processing setup.
- Issues with keyframes using post-processing geometries have been fixed.
- Co-simulation pressure limit is now correctly applied in multiphase simulations.
- Ball joints have been fixed.
- Surface fields are now correctly rendered with moving geometries and multi-resolution even in the finest refinement region.
- Streamlines and vectors are now correctly export with the Enight format export.
- HDF5 errors have been fixed when saving Q-criterion with averaged data.
- Path line GUI instabilities have been fixed.
- xflow_numericaldata_export executable does not require to manually include the XFlow libraries in the LD_LIBRARY_PATH environment variable in Linux OS anymore.
- Local axis rendering has been fixed when using scaling factor.

- GUI instabilities when loading projects with Custom Fields selected in post-processing items have been fixed.

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