

## New software version release announcement Additional information for the CFD community

December 18, 2009

The new ANSA v13.0.3 has been released, encapsulating many features useful to the CFD community users

**Important notice:** For optimum functionality, ensure to start ANSA with the default CFD layout using the respective gui option, e.g. `ansa64.sh -gui cfd` .

### ANSA v13.0.3 - What's new for CFD

#### TOPO

- FACES>NEW default option (Existing Surface, Planar or Fitted) now saved in defaults

#### MESH

##### Surface Mesh

- Improved quality of the automatic mesh refinement of function PENETRATION [Element Length] that is performed in order to fix proximity issues

##### Volume Mesh

- MESHV [Delaunay] now considers Size Boxes

#### MORPH

- New function BOXES>CONV2SIZEBOX that converts Morphing Boxes into Size Boxes. The user can use all the functionality of the MORPH menu to create Morph Boxes and then convert them to Size Boxes for meshing.

#### CFD\_DECKS

- Fluent Input changed the input parameters name conventions and behavior Skip Inner Faces → Skip Interior Type Faces (will now skip ALL Interior Type Zones) Skip Cells → Skip Volume Mesh.
- New function SIZE BOXES>CONV2MORPH that converts Size Boxes into Morphing Boxes.

#### ADDITIONAL

- Enhanced tool tips in several functions
- New User Defined Function to read a Property List from a \*.csv file

### Known issues resolved

#### MESH

##### Surface Mesh

- Fixed problematic over-refinements caused by PERIMETERS>A.SPACING [CFD] in combination with Frozen Macros
- Fixed bug of not saving changes quality criteria threshold values in `cf.defaults`
- Fixed wrong display of Mesh Distortion in QGRAPH mode in certain cases
- Fixed EXTREME with Zoom in to worst element for Distortion violation in F11
- Fixed bad mesh created in certain cases of CFD meshing in Batch Mesh
- Fixed crash of SHELL MESH>FILL HOLE in a certain specific case

##### Volume Mesh

- Fixed problems in Layers generation (invalid warnings and delays).
- Fixed the behavior of the User Defined Function `ReconstructViolatingTetras` to work faster.

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**MORPH**

- Fixed problem when creating User Defined Tangency on multiple edges

**CFD DECKS**

- Fixed Fluent output of unwanted duplicate shell elements from large models.
- Fixed problem of not being able to apply fast modification of BC\_TYPE between StarCD and StarCCM+ decks on multiple selected PIDs, through right mouse button on the ZoneType column of the property list.

**For more details...**

For details about the new software features, enhancements and resolved issues, please, refer to the "**ANSA v13.0.3 Release Notes**" pdf document, that can be downloaded separately and that is also accessible through the *Help>ANSA documentation index* menu bar option within ANSA.

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