

GridPro v6.0

NEW IN GridPro v6.0:

GridPro v6.0 has an entirely new QT based GUI with an easier work flow and access to many new features. The command line features of GridPro v5.7 is embedded into the GUI as well.

List of new features:

1. Corner creation using button in addition to the short cut key.
2. Corner creation using the given coordinates.
3. Automatic Inserting of sheets by modifying the base density.
4. Multiple sheets can be inserted by specifying the number of inserts in a single operation.
5. Translation of given group of corners to a desired location using coordinates.
6. Multiple sheets un-insert in a single execution.
7. Remove corners/edges using the buttons in addition to the shortcut key.
8. Merging position of two group of corners can be set.
9. Surface groups are implemented for surface related operations.
10. Rotate surface and/or corner groups with respect to work plane position.
11. Mirror and/or copy the surface and/or corner groups with respect to work plane or user defined plane.
12. Scale a surface and/or corner group with different scaling ratios for each axis.
13. Translate the surface and/or corner group to a specified location.
14. All the corners and surface groups can be used as reference group.
15. Global toggling section for surface, topology, grid, CAD and work plane related objects.
16. Delete option for a corner or surface group.
17. All the undo operation is saved to a file which can be loaded after the session is closed to modify the topology.
18. Topology can be tagged and retrieved later. The tags will be saved in the fra file. The respective fra file should be opened in order to retrieve the older tags. An alternate way to save the files.

19. In addition to current surface - surface group, corner group and entire topology can be framed to the screen.
20. Snap to a user defined axis.
21. Pick the center of rotation with the user defined coordinates.
22. Information of an object can be seen using the probe button.
23. Circle macro is separated from the ellipse macro and can be created using the center, axis, radius of the circle.
24. Create internal surface for the given surfaces without creating the wireframe.
25. New nesting feature which can nest in two directions simultaneously.
26. New nesting feature which can nest on the corners assigned to the current surface.
27. Right click menu for corners, edges, surfaces, grid blocks and grid sheets.
28. Circle and cylinder built-in surface options.
29. Surfaces can be mirrored.
30. Set shortcut keys for the given functions.
31. Geometry formats such as STL, STEP and IGS can be directly imported to GUI without manual conversion.
32. Information related to grid such as block and cell count can be seen at the bottom bar of the UI.
33. Information on gridding process such as sweep and fold counts can be monitored in the UI.
34. Grid sheet generation is now possible for internal surface too.
35. The range for quality parameters can be set in the GUI.
36. Set properties to any grid sheet.
37. OpenFOAM and SU2 support for all the platforms.
38. Segn, extconn and grid2til commands are accessible from UI now.

List of functions whose capabilities are improved:

1. Function of 'E' key is integrated with the 'L' key as well as implemented as a button in the GUI.
2. Function of wrap is enhanced in terms of assignment carry forwarding.
3. Merging topology using any two groups instead of current and reference.
4. Nest utility is automated to work in an existing topology.
5. Toggling function for grid sheets has been improved.
6. Enhancement in setting properties to the grid sheets with respect to selection.

7. Displaying the bad blocks and cells in the UI has improved.

Bug fixes:

1. Bug in saving the topology to another directory is fixed.