



Quickstart guide for LINK3D Beta V.0.9.x

- 1) Navigate to the GHI fileshare site: <https://www.gohypersonic.com/fileshare>
- 2) Login using your username and password and select LINK3D from the workspace menu.
- 3) Navigate to the 'EXAMPLES' folder and select a test case to download:

link3d-conic-example.tar.gz

- 4) Unpack the file using the following command:

```
>> tar -zxf link3d-conic-example.tar.gz
```

- 5) Load the compiler, OpenMPI, and link3d module:

```
>> module load compilers/gnu/4.8.5 openmpi/1.8.8/gnu/4.8.5  
>> module load link3d/0.9.1/gnu/4.8.5
```

- 6) Enter the test case directory:

```
>> cd link3d-conic-example
```

- 7) **Test 1:** Launch the GUI and load the topology. The geometry and topology should load into the viewer. To test basic functionality perform the following tasks:

- ▶ Translate view (hold mouse middle button + move)
- ▶ Rotate view (hold mouse right button + move)
- ▶ Coarse zoom (mouse wheel), fine zoom (shift + mouse wheel)
- ▶ Select entities (hover over + mouse left click)
- ▶ With entities selected, bring up context menu (mouse right click)
- ▶ Switch between workspaces using the bold toolbar button that says 'TOPOLOGY'

- 8) **Test 2:** Run LINK-GRID and generate a test grid via the command line. LINK-GRID loads the topology (.l3d) and geometry (.nrb) files, smooths the grid in three phases (edge, face, and block), performs grid clustering, and exports the grid file. To perform this test, run the following command:

```
>> mpirun -np 8 --bind-to core link-grid --input=conic.l3d
```

Note: '--bind-to core' is a recommended runtime option for LNK3D