



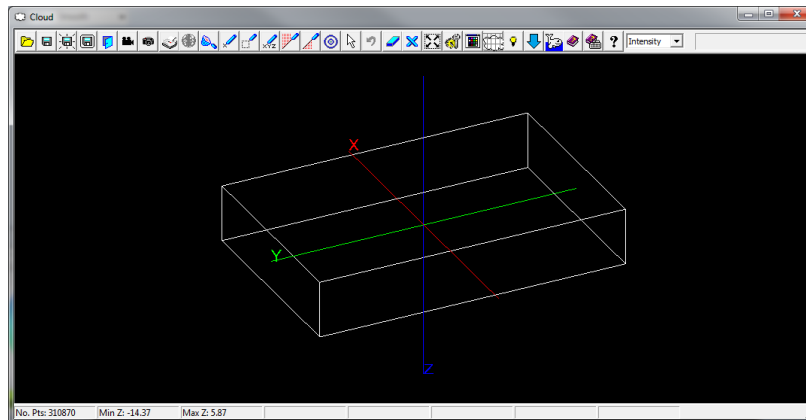
HYPACK® CLOUD Changes For 2012

By Ken Aiken

Recently, I've been working on a couple of changes to CLOUD for 2012, mostly meant for dealing with large files more efficiently.

Instead of redrawing the point cloud while rotating or moving it, I've added axes and an outline of the point cloud. This will make it much easier to work with and view large clouds.

FIGURE 1. CLOUD 2012 Display Shows Axes and Extents of Data



The other addition is the ability to display only a select portion of the points. This will speed up the draw time especially after operations which require the rebuilding of the cloud. This feature is controlled through the CLOUD Grid Control window and the display in the main CLOUD window updates accordingly.

- **To access the CLOUD Grid Control window**, click the Grid Control icon on the CLOUD tool bar.

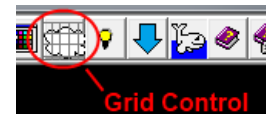
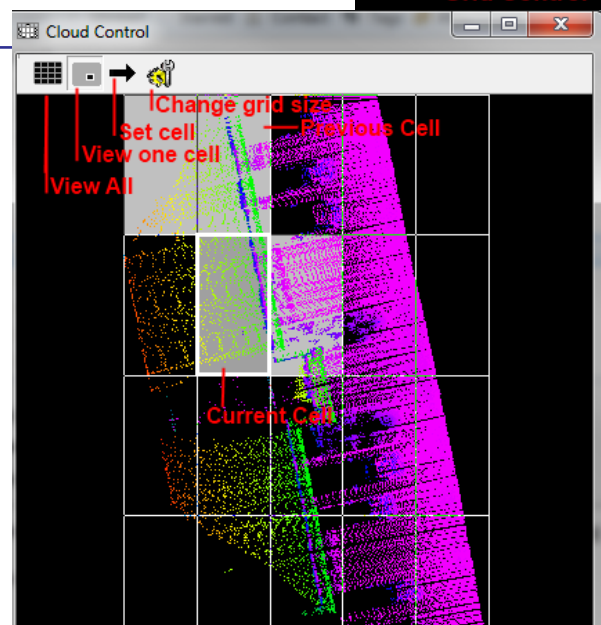


FIGURE 2. CLOUD Grid Control Window

- **To choose to view all the cells or just one cell at a time** click the corresponding icon in the Cloud Grid Control window.
- In "single-cell" mode:
 - **To choose the current cell in the Cloud Control**, click on it with the mouse or use the arrow keys then click the Set Cell icon (or the space bar or return/enter key). The cells that have already been selected are displayed with a gray background as to not have to work on the same cell twice. The current cell is surrounded by a thick border.



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- **To choose the current cell in the main CLOUD window** (with the Cloud Grid Control window closed) move from one cell to the next by holding the Ctrl key while using the arrows to shift your focus in any direction.

Tip: If you are loading a large file you can enable the single cell view before loading your data. The load time will be quicker since it doesn't do an initial build of all the points, only the ones selected.