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Software Development

Plug-In PCB-Investigator:

„Panel Builder“ This Plug-In multiplied a panel many times.

→ This is above all a great benefit in later production.

→ A panel is a step with several sub-steps.

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Panel Builder Plug-In

The screenshot shows the 'Control Panel' interface for the Panel Builder Plug-In. It includes a menu bar with 'File' and 'Info', and several control elements:

- 1** Select (New Step) / Bear step (step edit): Points to the 'Edit Step' and 'New Step' radio buttons.
- 2** Choose a subsequent step (proposed instructions): Points to the 'Step' dropdown menu in the table.
- 3** Entering values (NX / NY = repeats on the X or Y-axis; DX / DY distance in different directions): Points to the 'OrginX (mils)', 'OrginY (mils)', 'X_DATUM', and 'Y_DATUM' input fields.
- 4** Push the button „Add“: Points to the 'Add' button in the table.
- 5** Push the button „Build Panel“: Points to the 'Build Panel' button.

The interface contains two tables. The top table is a configuration row for the current step, and the bottom table is a list of steps.

Step	X (mils)	Y (mils)	NX-Count	NY-Count	DX (mils)	DY (mils)	ANGLE	MIRROR
fpga_asic_64	0	0	1	1	3.5433	2.1654	0	NO

Step	X	Y	NX	NY	DX	DY	ANGLE	MIRROR
fpga_asic_64	0	0	1	1	3.5433	2.1654	0	NO

Panel Builder Plug-In

1. Select (New Step) / Bear step (step edit)
2. Choose a subsequent step (proposed instructions)
3. Entering values (NX / NY = repeats on the X or Y-axis; DX / DY distance in different directions)
4. Push the button "Add"
5. Press the button "Build Panel"

Panel Builder Plug-In

The screenshot displays the PCB-Investigator software interface. On the left, a layer stackup is visible with layers such as comp_+_top, sst, spt, smt, top, int1 through int10, bottom, smb, spb, ssb, rout, and comp_+_bot. The main workspace shows a 2x2 grid of panel layouts. A 'Control Panel' dialog box is open, showing configuration options for a step named 'pcb'. The dialog includes fields for Edit Step, New Step, OriginX, OriginY, X_DATUM, Y_DATUM, and a table for step parameters.

Step	X (mils)	Y (mils)	NX-Count	NY-Count	DX (mils)	DY (mils)	ANGLE	MIRROR
pcb	2	3	2	3	10.5	4.876	0	NO

The table in the dialog box shows the following data:

Step	X	Y	NX	NY	DX	DY	ANGLE	MIRROR
pcb	2	3	2	3	10.8	4.976	0	NO