

New Features

IGI ParCAM Product Family™

Revision 8.45.1
November, 2010

Infinite Graphics Incorporated has improved the consistency and quality of its Product Family with this release of Revision 8.45.1.

Revision 8.45.1 offers enhancements in speed as well as offering new features. Learn more about these features in the following pages.

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Windows® 7 Support

Windows XP and Windows 7 operating systems are now supported.

General Speed Enhancements

Many improvements have been made to the speed for the input and display of complex jobs.

AOI Yachiyō RIP Speed Significantly Improved.

General enhancements to RIP speeds were implemented. In addition, support for 64-bit, multi-thread processing offers further improvements in RIP times. The amount of improvement in speed is determined by the data processed, as well as system hardware. Test data was up to 2 times faster on 32-bit systems with 2 Gb of RAM.

Other Yachiyō enhancements:

- Non die-to-die scan areas no longer require a standard position, speeding up the process for DRC and CAD reference applications.
- Can select zooming to extents or not after running Setup.

Circuit Resistance Merged with Buried Resistor Values for Output

A licensed option for IPC-D-356 A and MicroCraft II output, this feature merges circuit resistance with buried resistor values. This feature is ideal when test points do not lie near buried resistors. In such cases, the circuit geometry's resistance may be great enough to impact the overall resistance measurement of the buried resistor. Merging both measurements gives a more complete resistance value.

Resistive materials and thicknesses as well as line width tolerances are settable. Specifying material thickness by ounce weights is supported.

New TPE Option for Calculating Layer to Layer Adjacency

A new option for calculating adjacency on all possible layer combinations has been added to the Layer to Layer feature. Layer to Layer adjacency licensing includes this new option.

Progress Bars Added for TPE Processing

Since Test Point Elimination processing can be lengthy for some large and complex data, progress bars were added to indicate which TPE process is running and how much of that process is complete.

DXF Input/Output Enhancements

- AutoCAD text can now be input as an IGI text entity (using IGI fonts), making the text string and other characteristics editable. This option may be turned off to convert text into geometry that matches the appearance of the AutoCAD font.
- DXF Output layer names now editable from the output dialog.

ODB ++, LDI Input/Output Enhancements

- ODB++ profiles (outlines), for each step are now supported. ODB++ data which specifies hole or island status for contours is now supported.
- Improved handling of LDI output polygon data and increased precision for panel output.

RapiTrim Output for Laser Trimming

RapiTrim Output is a licensed netlist output for the trimming of Networked Resistor Material. Output features include selectable alignment layers, trimming tools, and graphical step and repeat. You can learn more about the RapiTrim Trim and Test System at the Process Photonics web site:

www.processphotonics.com.

Step and Repeat of ATF Output

Both graphical and form-based methods of creating step and repeat netlist output were added to the ATF output format.

Area Calculation in View/Edit

Now you can run area calculations during editing sessions. With this new tool, you can add, subtract, and overlap layers in groups, to determine the areas in a variety of ways. Area Calculation is a licensed feature.

Enhanced Editing Features:

- Isolate layer.
- Mouse-click interrupt.
- Redraw speeds improved.
- Ability to disable commands for a given installation.
- Make multiple changes for same type of geometry with a single command.
- Orthogonal location tools enabled for more commands:
Add > Polygon **Add > Negative > Polygon**
Edit > Polygon **Add > Positive > Polygon**
ICE > Add > Negative Polygon **ICE > Add > Positive Polygon**
Utilities > Substitute Geometry – using Polygons for substitution.

Log Files

Nesting of log files supported so that one log file may call another, resuming when the called log is finished. C_CHANGE command was upgraded to edit text strings

MicroJet

Origin Point, Rotate, and Count commands were added. Comments for printing now supported.

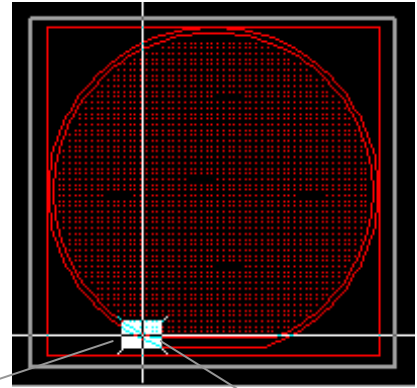
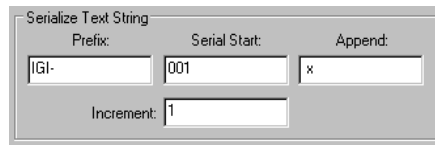
Coupon Enhancements

- A Re-Analyze button was added for cases where edits have been made to the job, after a coupon has been built. This catches the cases where changes to the data require changes to the coupon. Previously, the local coupon support files had to be deleted and the coupon rebuilt.
- Specimen T (Solder Resist Tenting) is now supported
- Specimen X (Bending Flexibility) is now supported
- New text line width and Serialization line width settings
- New options for handling pads on internal plane layers for A and B sections.
- IPC-2221 coupons updated to conform to newer specs.
- A section drill size now defaults to largest drill below .075 inches.

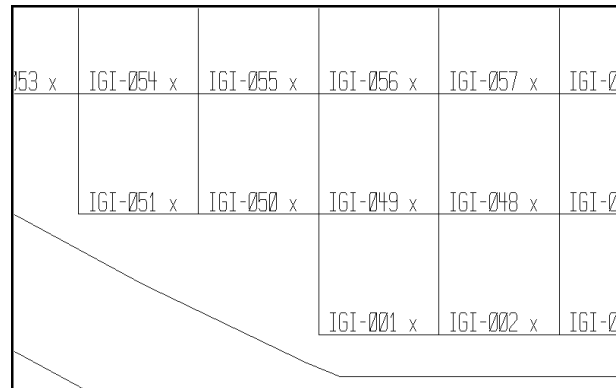
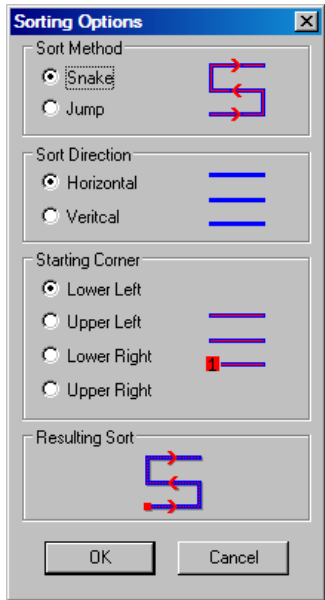
Text Serialization

Serialize dies or other parts of a job with text strings set to your specifications.

Simple string settings.



Easy to select numbering order.



Quick results.

- Pick one object, the rest are automatically serialized according to the sorting options you select.
- Replace existing text or other feature with new serialized text.

MNF1 and MNF2 Netlist Outputs

MNF1 generates netlist output for a single board. MNF2 generates step and repeat netlist data of one or more boards. You can graphically place multiple boards in a pattern in the panel with the fully featured Net Panel editor.

