UcamX Fixes - v2019.08

Netlist Output
IPC-ATG
148

2nd (and beyond) image has all drill information written correctly in the creation of the IPCATG output.

1423

IPC-ATG output on some jobs could cause crash. Issue has been noticed on jobs containing some fiducial attributes. IPC-ATG output is no longer suffering with these attributes.

Verification
Secure Etch Compensation
1443

Reverse data reduced to necessary objects and size of objects.

1819

Secure Etch Compensation uses an internal reference instead of reference job.

Electrical Test
Testpoint Generation
1737

Overlapping pads in outer and mask layer could cause overlapping test points. Overlapping test points are prevented.

Utest
1793

Testpoint generation, with option Filter Copper Area's activated, could fail with message Failed. TP Error 15: 'Too many testpoints where filtered away. Please switch off filtering!'. Calculating testpoints can be completed successfully on these jobs and configuration.

View
Query Object
1789

The presence of the netref layer(s) in a job was delaying the opening and usage of the Query functions (Query Object, Net and Component). Performance of these Query functions has been restored.

Query Net
1833

Query Net was not always highlighting the queried net(s) when switching between layers. Switching between layer, with Query Net as active function, is again highlighting the involved objects.

1935

Query Net displays the Net colour correctly when only a Smart product exists in the license.

General
Colors
1791

After doing a unit change, displaying all layer in color is working.

1786

In some situation the usage of the extended colors (color planes 6 to 11) was not working. The layers can be displayed by using the extended colors again.

Shortcuts
1841

Shortcut "B" for querying objects in blocks can be used again.

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CAD Output
Gerber
1783
Step & Repeat (%SR command) in Gerber 274X output is using the lower left occurrence of the set of objects as the basic set (set that will be replicated), since the values of the offset for the step and repeat should be positive. Previously the basic step could be another occurrence which could cause modified image.

1801
Gerber 274X output could be grouping slightly different THErmal apertures to the same D-code definition. Each different aperture is getting its dedicated D-code definition.

ODB++
1790
ODB++ output, generating compressed TGZ file, in multi-processor mode and running in background, could be creating incomplete .tgz file. The completion of the .tgz file is now delayed till the ODB++ output is finalized, this to provide all required data in the compressed file.

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Editing Tools
Rout
811
Rout Compensate, of a chain containing an arc between 2 tracks, could be losing the arc (a breaking rout chain). Rout Compensate is behaving expectedly on this construction.

1862
2 Generate arcs, from Tools section of Rout Manager, could allocate incorrect orientation to (some of) the created arcs. The expected orientation has been allocated to these arcs.

Clipping
1884
The VHS clipping function is considering the specified value for parameter
'outside clipping'.

FlashMaker
1943
Flashmaker 'Regions and Complexes' finds correct aperture description and respects rotated version of the aperture too.

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Input
DPF
1881
Re-usage of a previous defined aperture definition, and some of the apertures have different polarity level, in combination with an un-used aperture definition, using the same aperture number, could confuse the loading of the DPF file (incorrect polarity used for some objects). Loading these DPF files is giving the expected image.

DXF
1843
DXF input is using the configuration of dxf.k_polyh for converting the POLYLINE entities. Previously the configured value of dxf.k_polyh was only applied on POLYLINE entities on which the width codes of the POLYLINE were specified with value 0.

Gerber
1968
Gerber input is allocating the object attributes to the related objects. Previously the object attributes on flashes with macro definitions could be lost.

Import ODB++
1922
The conversion of ODB++ surface features is allocating the uLocalPlotScale attribute to the contour apertures that are the result of surface features with .out_sacle attribute

allocated. Similar as for other kind of apertures resulting of other kind of ODB++ features on which the .out_scale attribute is allocated.

SmartStart
1849
In some license configurations, opening SmartStart and analyzing the files could cause Java NullPointerException. Analyzing the files is completed successfully, also in these involved license conditions.

Job Editor
Layers
211
Changing the layer activity toggle, in the Split Config menu, while pressing the Ctrl key and the right mouse button, is only influencing the value of the highlighted layers. Previously also active toggle of other layers could be involved.

YELO
Copper Adjuster
1929
Same-Net-Spacing corrections via shave regions respecting traces in planes.

Panelization
StepRepeatReconstructor
190
Improved algorithm to reconstruct blocks from regularly stepped (flat) data. The composition of the applied outline layer (grouping different single images) better respected in finding the flashed with the constructed block apertures.