

AdivaView Main Functions (User Guide)

Notice

Representations in this User Guide are meant as an overview and quick reference. Full details can be found in the On-Line manuals located at the *ADIVA Corporation* website - www.adiva.com

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AdivaView Functional Highlights

NOTE: To receive the full features of AdivaView, it is best to have an Adiva database that has been completed and saved after the Netlist Compare process. Netlist Compare provides netname and component information useful in design review and debug. However, the Netlist Compare function is not required for Layer Compare routines.

AdivaView allows the display and query of PCB Design data using Manufacturing tools

- Useful for Engineer review – compare revisions to see actual design differences
- Useful for Engineer review – replaces pen plots, photoplots and unintelligent viewers
- Useful for Engineer review – review component placement, net routing, net lengths
- Useful for Technician review – Find a net, see where it is routed and understand its characteristics, length, layers, surroundings
- Useful for Technician review – Find a component, see what its tied to and how its routed to other components
- Generate Screen-shots of issues to communicate to others with an easy web-page creation function

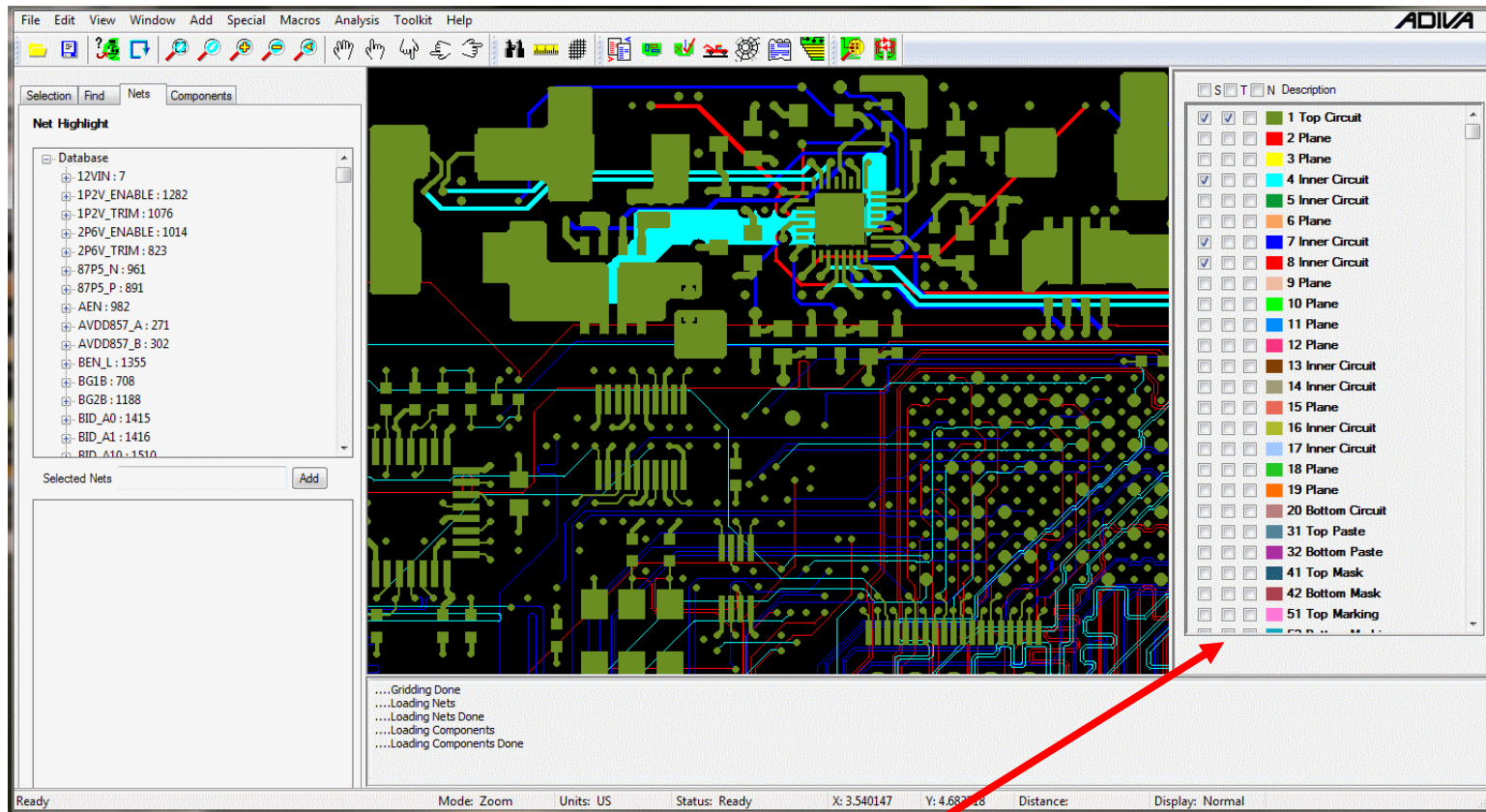
Starting the AdivaView Interface

On the **Windows Desktop**, double-click the **AdivaView** icon

-or-

on the command line, type `>AdivaView -V <jobname>` (jobname is optional)

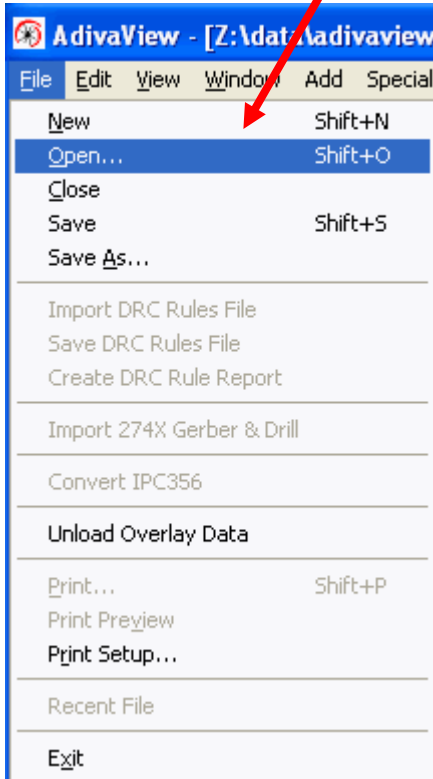
The graphical Interface will appear and if a jobname is supplied from the command line it will appear like below.



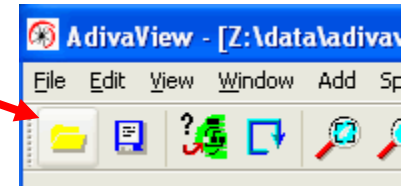
If a *<jobname>* is not supplied, the Layer Listing on the right will be empty and there will be no graphics to display. The next step will be...

Starting the AdivaView Interface

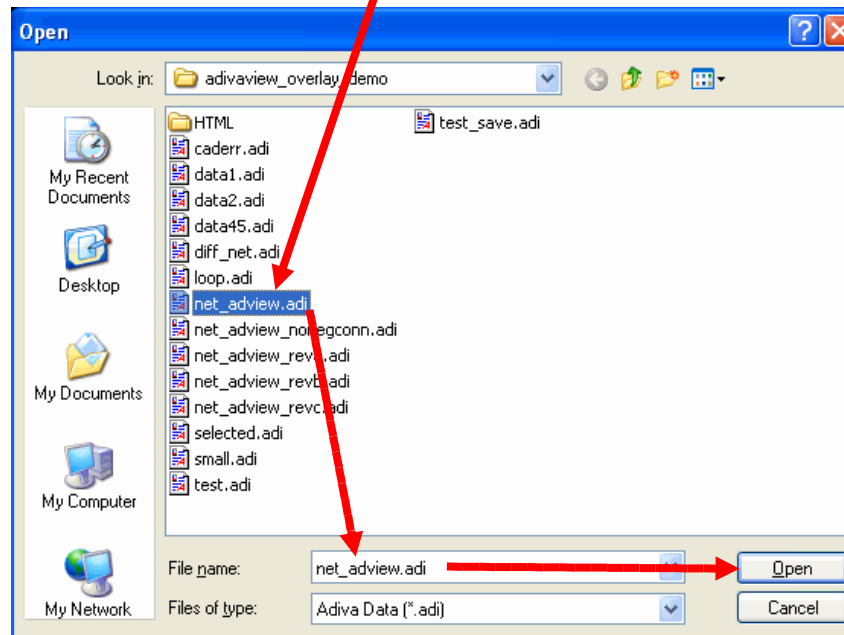
.....to access the **File** menu. Find and load a job using **File > Open**.



...or select the **File > Open Icon**

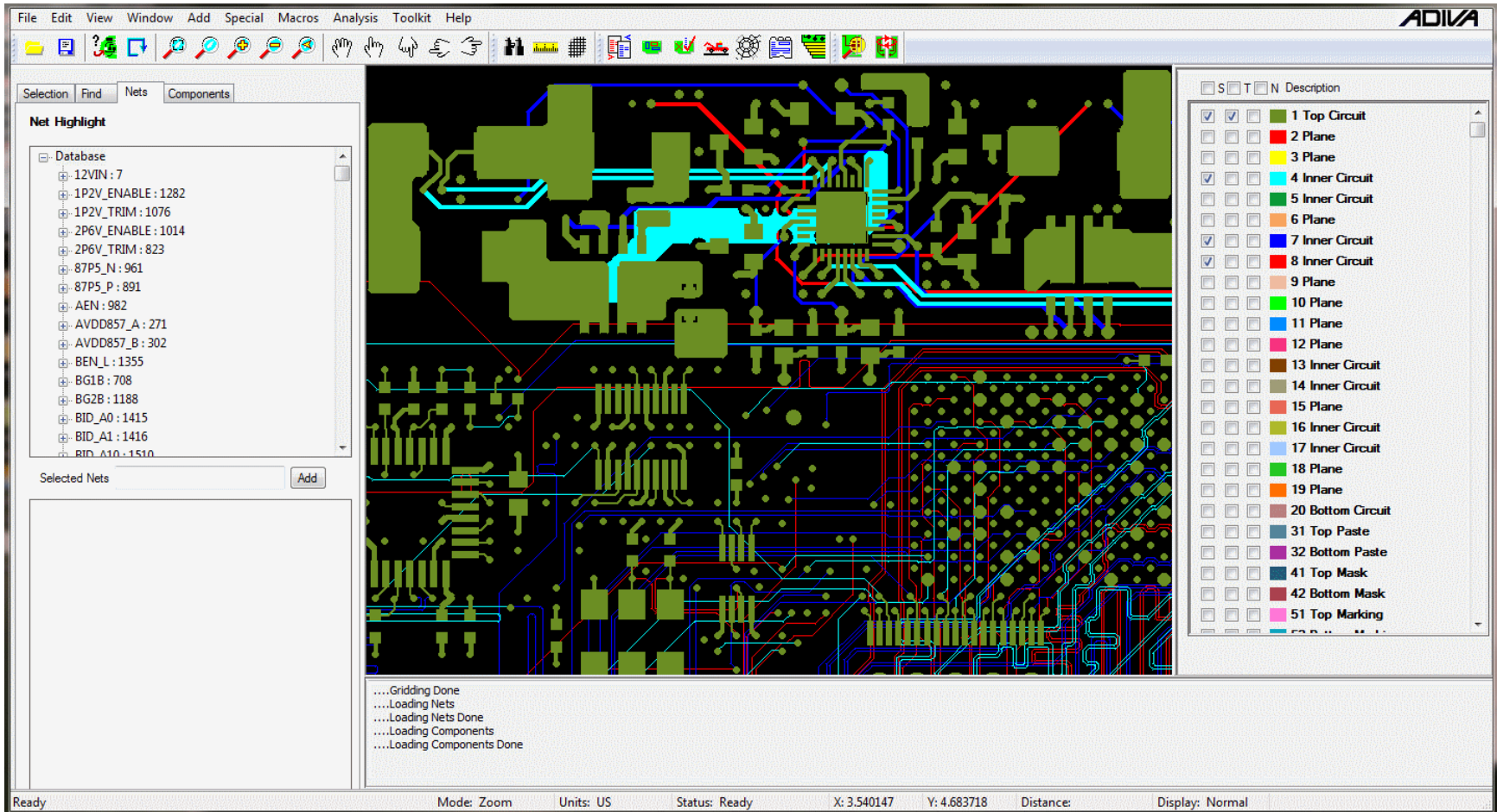


Then select an Adiva database to load and display



Starting the AdivaView Interface

The graphical Interface should now look similar to this with the Top Circuit layer on and displayed



Revision Compare

Highlights....

Two designs can be imported and compared to display any differences between them
For instance – Revision A of a design against the Original

Multiple layers of a single design can be compared to determine differences
For instance – plane layers that have been copied within a design – are they the same?

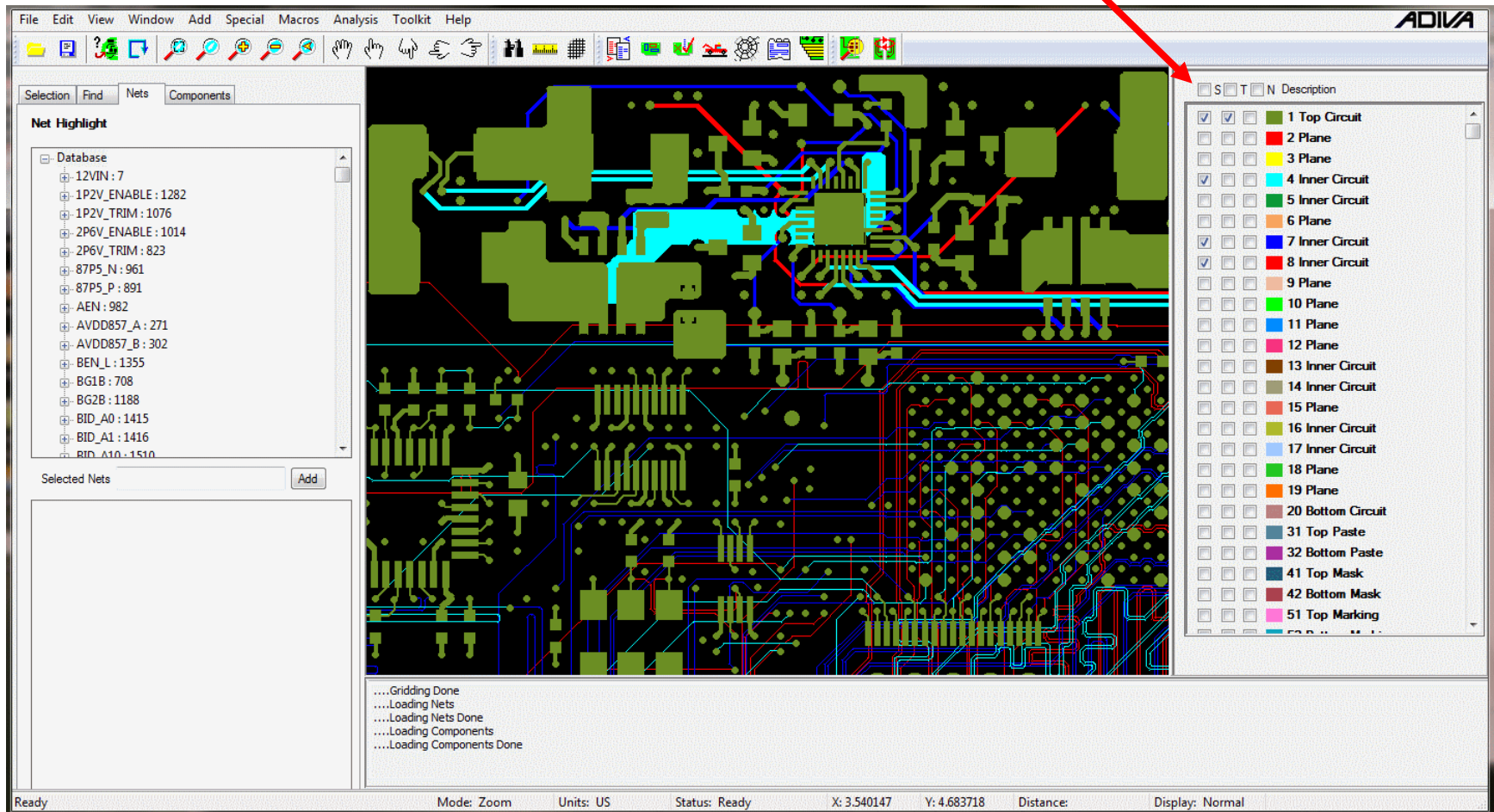
Differences are displayed graphically using a simple “Seek” routine that takes the user from location to location easily showing the differences

Comparison function is a graphical process not relying on CAD data attributes

Revision Compare – Original to Rev A

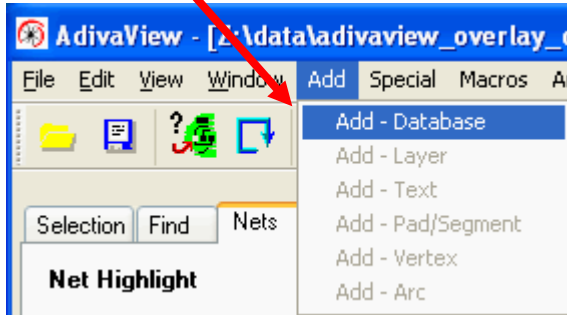
Start Revision Compare by having a single database loaded

Notice layers listed for this original design

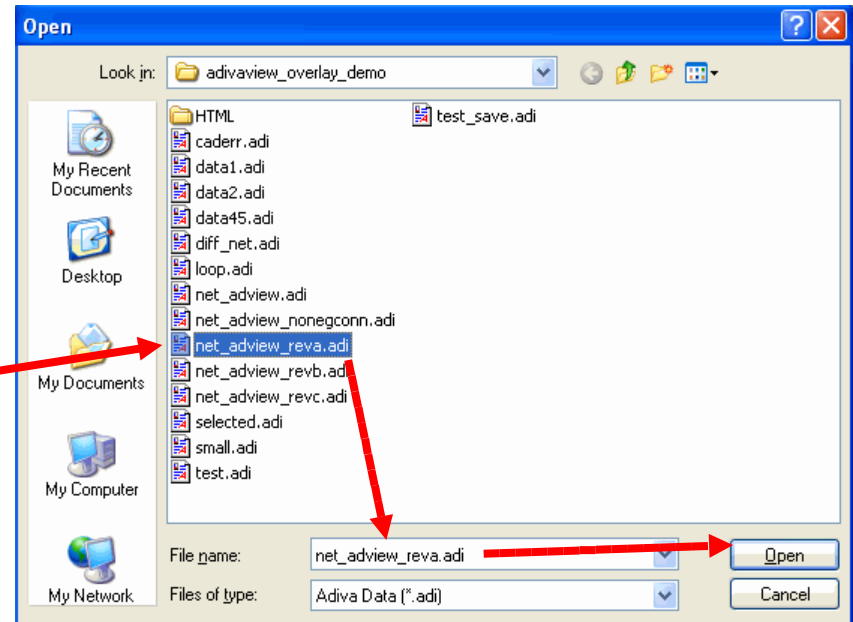


Revision Compare – Original to Rev A

Select **Add Database** to import a second database for comparison



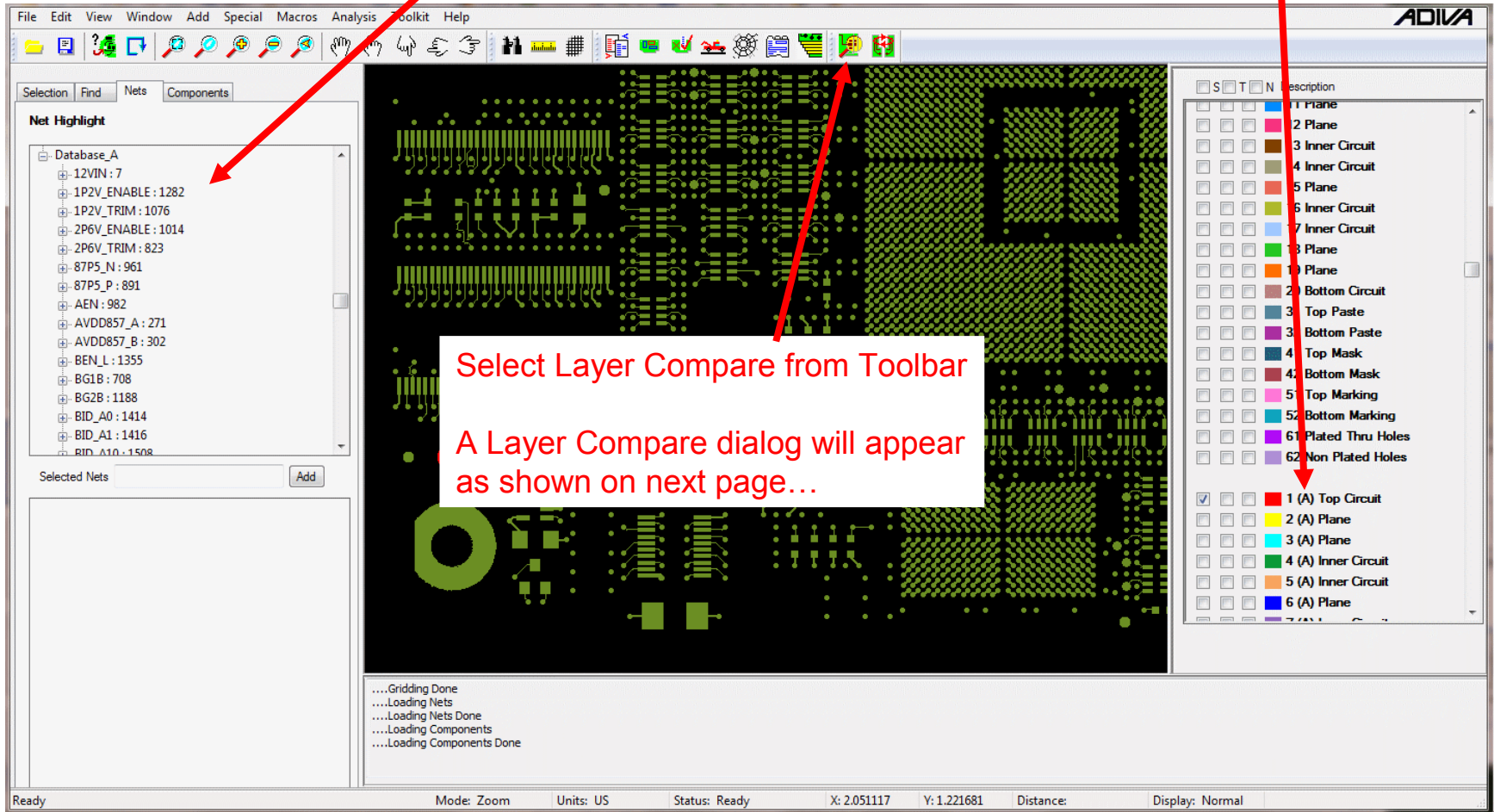
In this case, choose Revision A of the same design



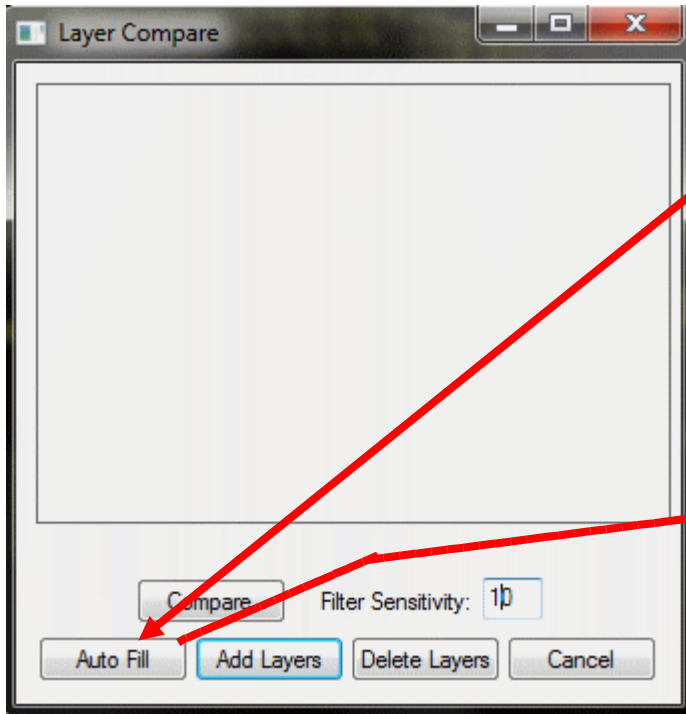
Revision Compare – Original to Rev A

Once second database loads, notice Rev A layers are now displayed in the Layer List

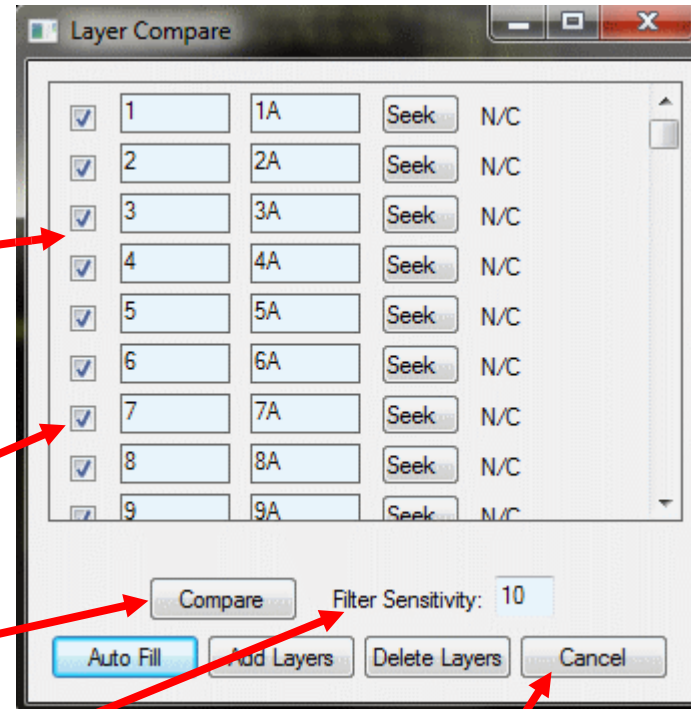
Nets and Components for Rev A are also added to the Highlight lists



Revision Compare – Original to Rev A



An empty Layer Compare dialog will appear in the lower left corner of AdivaView – select the **Auto-Fill** function which matches original design layers to Rev A in preparation for comparison



Check boxes next to layer list control which layers will be compared

Select **Compare** to perform the Layer Compare function

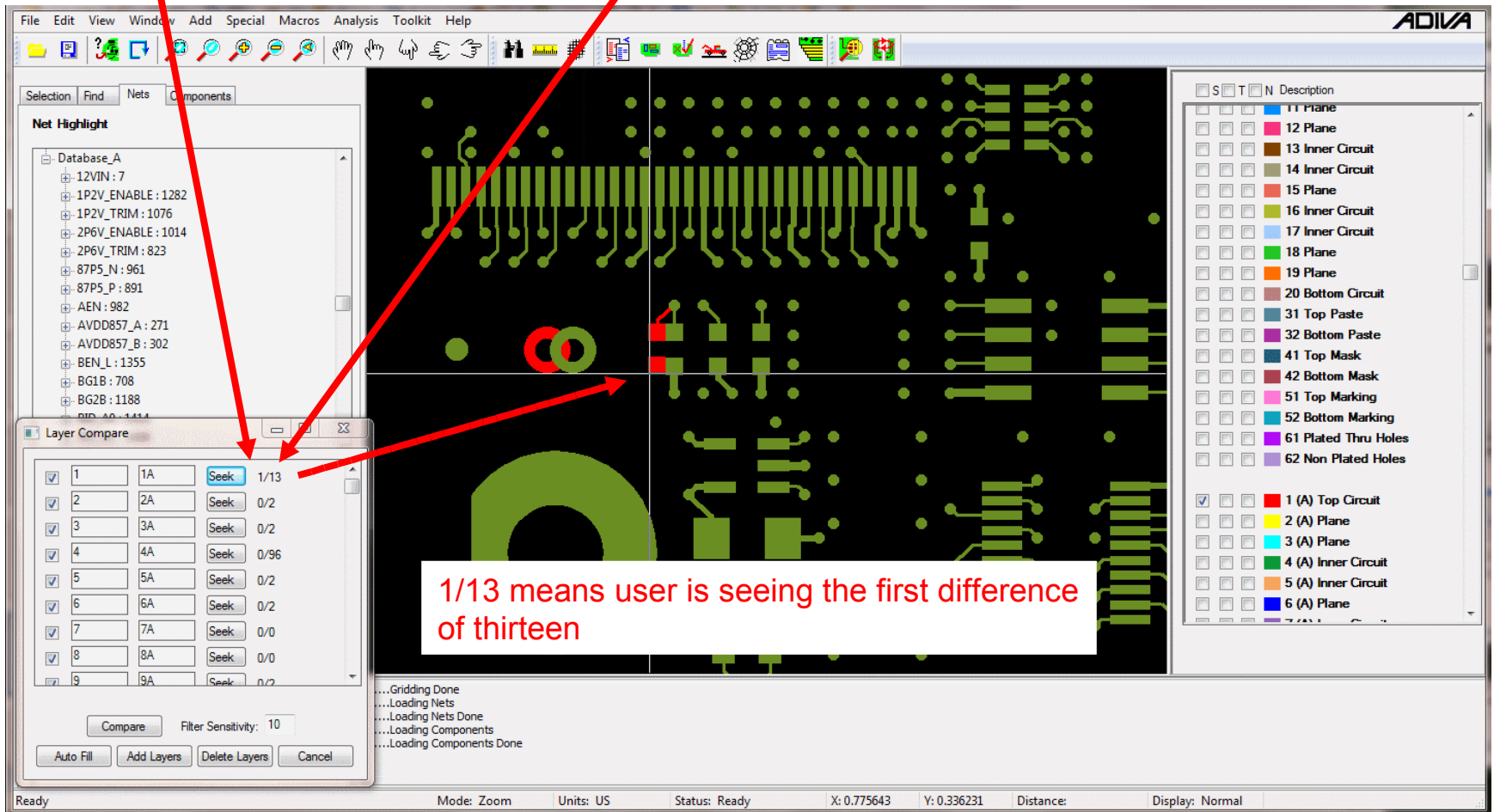
Filter Sensitivity value can be adjusted to remove unwanted minor differences. The larger the number the greater the filter power (10 pixels is default).

Cancel closes the Layer Compare function. Any results will be lost but can easily be recreated by running Layer Compare again

Revision Compare – Original to Rev A

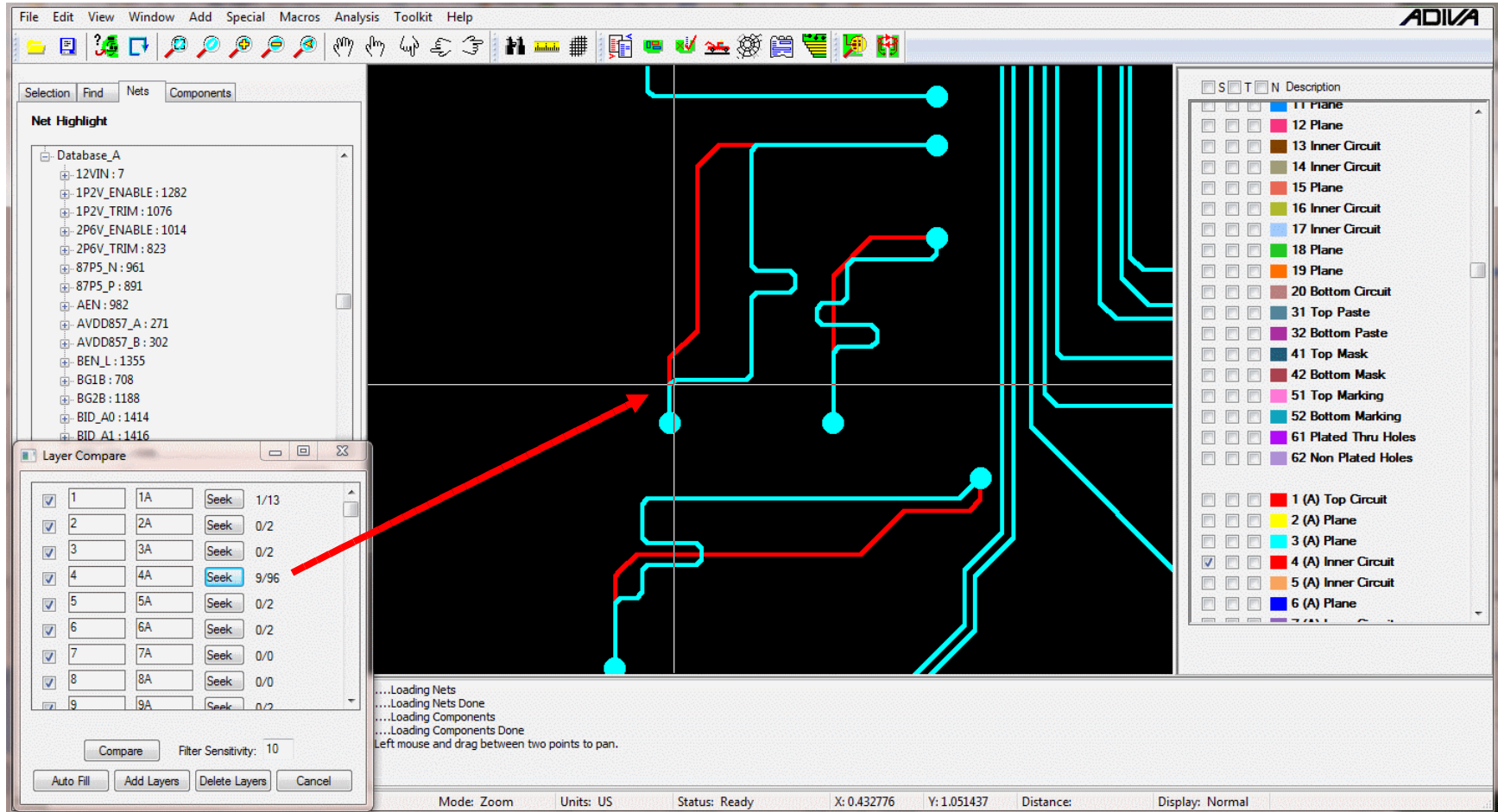
When Layer Compare completes, a summary of results will be shown next to each layer pair

Zoom in for greater detail of the design and then select the “Seek” button – a cross-hair will be displayed at the location of difference – both layers involved will also be on for easy display of the issue



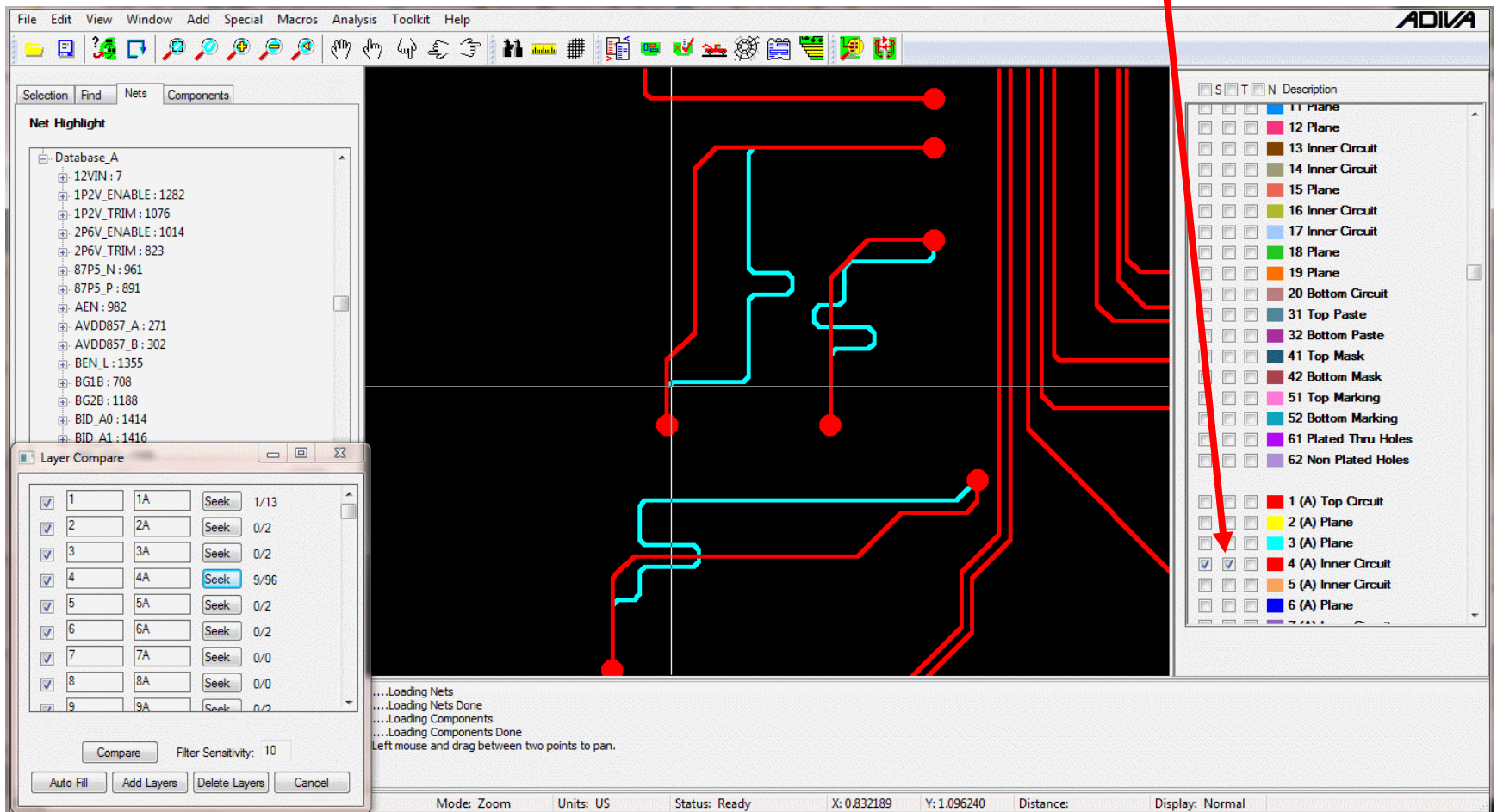
Revision Compare – Original to Rev A

Another view of layer differences – in this case layer 4 of each revision is displayed
This is number nine of ninety-six differences with layer 4



Revision Compare – Original to Rev A

This is the same image as the previous page, except layer 4 of Rev A has been placed on top by checking the second box for better viewing of Rev A – original layer 4 is in blue



Revision Compare – Layer to Layer

Layers from the same design can also be compared meaning a second design does not have to be used to perform the compare function.

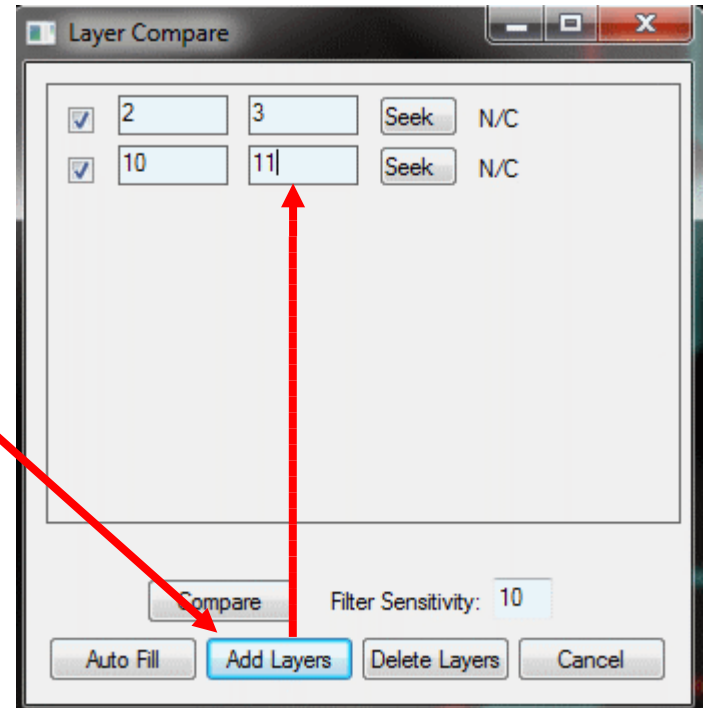
This is handy if a design has copied layers and the user wants to verify that copied layers are exactly the same.

Simply select the **Add Layer** button and fill in layer numbers to be compared. Any combination can be created and compared.

The **Delete Layers** button keys off of the check box. If a layer pair is checked on and the **Delete Layers** button is selected, all layer pairs checked on will be deleted from the list.

When all layers are defined for comparison, simply choose the **Compare** button and review the results as described earlier in this guide.

All layer pairs with check boxes on will be compared.



Net Highlight

Highlights....

Select a netname from a Highlight Nets list and it highlights in graphics

Select a net in graphics and it highlights its name in the Highlight Nets list

Highlight a net or a group of nets in layer color to see what layers it routes on and its proximity to other nets of the same group

Highlight components that tie to a net

See ACTUAL net length for a selected net – unseen trace data is not counted in net length providing an actual functional net length, not a routed net length

Type in a net name(s) and they highlight in graphics and report net length(s)

Produce a list of nets and their lengths into a printed report for review

With the **Nets** tab forward....

Net Highlight

Select a net from the Net Highlight list and see it highlight in graphics

The screenshot shows the AdivaView software interface. The 'Nets' tab is selected in the left-hand pane. The 'Net Highlight' list contains various net names, with 'CLK_DDR1_N : 130' selected. A red dashed arrow points from this selected net to a corresponding net on the PCB graphic in the center. Another red dashed arrow points from the 'Nets' tab to the list. A white text box at the bottom right of the graphic area contains the instruction: 'Select the net a second time or select another net in the list to un-highlight this net in graphics'. The right-hand pane shows a legend with 41 items, each with a checkbox and a color swatch. The status bar at the bottom indicates 'Mode: Select', 'Units: US', 'Status: Ready', and coordinates.

S	T	N	Description
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 Top Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20 Bottom Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	31 Top Paste
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32 Bottom Paste
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	41 Top Mask

Net Highlight

Select a net directly on the graphics screen (left mouse click) and the Net Highlight screen will scroll to display this net name at the top of the list

Selection Find Nets Components

Net Highlight

- ☑ CLK_DDR1_P : 133
- ☐ CLK_DDR2_N : 141
- ☐ CLK_DDR2_P : 143
- ☐ CLK_DDR3_N : 149
- ☐ CLK_DDR3_P : 148
- ☐ CLK_DDR4_N : 138
- ☐ CLK_DDR4_P : 140
- ☐ CLK_DDR5_N : 145
- ☐ CLK_DDR5_P : 146
- ☐ CLK_DEQ : 440
- ☐ CLK_ENQ : 439
- ☐ CLK_FPGA_TBUS : 545
- ☐ CLK_LUT : 373
- ☐ CLK_OC48_N : 442
- ☐ CLK_OC48_P : 464
- ☐ CLK_SAR : 436
- ☐ CLK_SLT : 438
- ☐ CLK_TST1 : 502
- ☐ CLK100M_B : 326

Selected Nets Add

....Loading Nets Done
....Loading Components
....Loading Components Done
Left mouse, <shift> adds multiple selects, draw box: selects
groups - left mouse inside - middle mouse outside

ADIVA

S T N Description

- 1 Top Circuit
- 2 Plane
- 3 Plane
- 4 Inner Circuit
- 5 Inner Circuit
- 6 Plane
- 7 Inner Circuit
- 8 Inner Circuit
- 9 Plane
- 10 Plane
- 11 Plane
- 12 Plane
- 13 Inner Circuit
- 14 Inner Circuit
- 15 Plane
- 16 Inner Circuit
- 17 Inner Circuit

51 Top Marking
52 Bottom Marking
61 Plated Thru Holes
62 Non Plated Holes

Ready Mode: Select Units: US Status: Ready X: 0.836049 Y: 3.992453 Distance: Display: Normal

Net Highlight

Expand the net name to reveal a list of Reference Designators and pin numbers this net connects

The screenshot shows the AdivaView software interface. On the left, the 'Net Highlight' panel is expanded to show a list of components connected to the selected net 'CLK_DDR1_P : 133'. The components include R123.1, U19.3, and U6.45. A red arrow points from the net name to a crosshair on the PCB layout. A white text box contains the following instructions:

Click on a Reference Designator with pin number
and a crosshair will mark the location

Click again and the crosshair will disappear

On the right side of the interface, there is a legend with a list of items and their corresponding colors:

S	T	N	Description
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 Top Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20 Bottom Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	31 Top Paste
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32 Bottom Paste
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	41 Top Mask
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	42 Bottom Mask
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	51 Top Marking
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	52 Bottom Marking
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	61 Plated Thru Holes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	62 Non Plated Holes

Net Highlight

Select and drag a net from the Net Highlight window to the Selected Nets window

Nets highlight with layer color in graphics

The screenshot shows the AdivaView software interface. The main window displays a PCB layout with several nets highlighted in red and blue. On the left, there are two windows: 'Net Highlight' and 'Selected Nets'. The 'Net Highlight' window lists various nets, with 'CLK_DDR2_N : 141' selected. The 'Selected Nets' window shows a list of nets with their actual lengths. A legend on the right side of the interface lists various layers and their colors. Red arrows point from the text instructions to the corresponding windows and the highlighted nets in the PCB layout.

Net Highlight

- CLK_DDR_TEST0 : 630
- CLK_DDR1_N : 130
- CLK_DDR1_P : 133
- CLK_DDR2_N : 141
- CLK_DDR2_P : 143
- CLK_DDR3_N : 149
- CLK_DDR3_P : 148
- CLK_DDR4_N : 138
- CLK_DDR4_P : 140
- CLK_DDR5_N : 145
- CLK_DDR5_P : 146
- CLK_DEQ : 440
- CLK_ENQ : 439
- CLK_FPGA_TBUS : 545
- CLK_LUT : 373
- CLK_OC48_N : 442
- CLK_OC48_P : 464
- CLK_SAR : 436
- CLK_SLT : 438

Selected Nets

- Database
- CLK_DDR1_N : 130 : Length = 4.766
- CLK_DDR1_P : 133 : Length = 4.812
- CLK_DDR2_N : 141 : Length = 4.680
- CLK_DDR2_P : 143 : Length = 4.523

Legend

S	T	N	Description
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 Top Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20 Bottom Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	31 Top Paste
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32 Bottom Paste
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	41 Top Mask
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	42 Bottom Mask
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	51 Top Marking
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	52 Bottom Marking
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	61 Plated Thru Holes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	62 Non Plated Holes

Nets in Selected Nets Window show ACTUAL net length

Select a net and drag it outside the Selected Nets window to remove it from display

Net Highlight

Expand the Selected Net to show reference designators and pin numbers that connect to the net

The screenshot shows the AdivaView software interface. On the left, the 'Net Highlight' panel lists various nets. Below it, the 'Selected Nets' panel shows a tree view for 'Database' with 'CLK_DDR1_N : 130' selected, and its components 'R123,2', 'U19,2', and 'U6,4' listed. A red dashed arrow points from 'U19,2' to a crosshair on the PCB layout. Another red arrow points from 'U19,2' to the 'Net Highlight' list. On the right, a legend lists various circuit and plane types with checkboxes. The status bar at the bottom shows 'Ready', 'Mode: Zoom', 'Units: US', 'Status: Ready', 'X: -1.544781', 'Y: 2.114451', 'Distance:', and 'Display: Normal'.

Click on Reference Designator and a Crosshair appears at location

Click again and the crosshair disappears

Net Highlight

Click on Selected Net name and components highlight that connect to selected net
Click again and the component highlights disappear

The screenshot displays the ADIVA software interface with the following components:

- Net Highlight Panel:**
 - Net List:
 - CLK_DDR_TEST0 : 630
 - CLK_DDR1_N : 130
 - CLK_DDR1_P : 133
 - CLK_DDR2_N : 141
 - CLK_DDR2_P : 143
 - CLK_DDR3_N : 149
 - CLK_DDR3_P : 148
 - CLK_DDR4_N : 138
 - CLK_DDR4_P : 140
 - CLK_DDR5_N : 145
 - CLK_DDR5_P : 146
 - CLK_DEQ : 440
 - CLK_ENQ : 439
 - CLK_FPGA_TBUS : 545
 - CLK_LUT : 373
 - CLK_OC48_N : 442
 - CLK_OC48_P : 464
 - CLK_SAR : 436
 - CLK_SIT : 438
 - Selected Nets: [Empty]
 - Database:
 - CLK_DDR1_N : 130 : Length = 4,766
 - CLK_DDR1_P : 133 : Length = 4,812
 - CLK_DDR2_N : 141 : Length = 4,680
 - CLK_DDR2_P : 143 : Length = 4,523
- Main PCB View:** Shows components U13 and U19. A red net connects U13 to U19. A red dashed arrow points from the selected net name in the panel to the net on the PCB.
- Legend:** Lists various circuit and plane types with checkboxes and color swatches.
 - 1 Top Circuit
 - 2 Plane
 - 3 Plane
 - 4 Inner Circuit
 - 5 Inner Circuit
 - 6 Plane
 - 7 Inner Circuit
 - 8 Inner Circuit
 - 9 Plane
 - 10 Plane
 - 11 Plane
 - 12 Plane
 - 13 Inner Circuit
 - 14 Inner Circuit
 - 15 Plane
 - 16 Inner Circuit
 - 17 Inner Circuit
 - 18 Plane
 - 19 Plane
 - 20 Bottom Circuit
 - 31 Top Paste
 - 32 Bottom Paste
 - 41 Top Mask
 - 42 Bottom Mask
 - 51 Top Marking
 - 52 Bottom Marking
 - 61 Plated Thru Holes
 - 62 Non Plated Holes

Net Highlight

Enter a net name (wildcards work *) or enter a set of net names (ie: CLK* ADDR* *bus*) then...

...select ADD and nets are added to Selected Nets list and are highlighted in layer color in graphics

Select a net and drag it outside the Selected Nets window to remove it from display

Net Highlight

- ⊕ CLK_DDR_TEST0 : 630
- ⊕ CLK_DDR1_N : 130
- ⊕ CLK_DDR1_P : 133
- ⊕ CLK_DDR2_N : 141
- ⊕ CLK_DDR2_P : 143
- ⊕ CLK_DDR3_N : 149
- ⊕ CLK_DDR3_P : 148
- ⊕ CLK_DDR4_N : 138
- ⊕ CLK_DDR4_P : 140
- ⊕ CLK_DDR5_N : 145
- ⊕ CLK_DDR5_P : 146
- ⊕ CLK_DEQ : 440
- ⊕ CLK_ENQ : 439
- ⊕ CLK_FPGA_TBUS : 545
- ⊕ CLK_LUT : 373
- ⊕ CLK_OC48_N : 442
- ⊕ CLK_OC48_P : 464
- ⊕ CLK_SAR : 436
- ⊕ CLK_SLT : 438

Selected Nets CLK_DDR*

Add

Database

- ⊕ CLK_DDR : 616 : Length = 0.167
- ⊕ CLK_DDR_A : 615 : Length = 0.270
- ⊕ CLK_DDR_SAR_N : 303 : Length = 4.723
- ⊕ CLK_DDR_SAR_P : 304 : Length = 4.656
- ⊕ CLK_DDR_SAR1_N : 588 : Length = 0.985
- ⊕ CLK_DDR_SAR1_P : 552 : Length = 0.973
- ⊕ CLK_DDR_TEST0 : 630 : Length = 3.205
- ⊕ CLK_DDR1_N : 130 : Length = 4.766
- ⊕ CLK_DDR1_P : 133 : Length = 4.812
- ⊕ CLK_DDR2_N : 141 : Length = 4.680
- ⊕ CLK_DDR2_P : 143 : Length = 4.523
- ⊕ CLK_DDR3_N : 149 : Length = 4.746
- ⊕ CLK_DDR3_P : 148 : Length = 4.555
- ⊕ CLK_DDR4_N : 138 : Length = 4.659
- ⊕ CLK_DDR4_P : 140 : Length = 4.677
- ⊕ CLK_DDR5_N : 145 : Length = 4.696
- ⊕ CLK_DDR5_P : 146 : Length = 4.515

Legend:

S	T	N	Description
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 Top Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20 Bottom Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	31 Top Paste
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32 Bottom Paste
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	41 Top Mask
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	42 Bottom Mask
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	51 Top Marking
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	52 Bottom Marking
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	61 Plated Thru Holes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	62 Non Plated Holes

Net Length Report

Generate a Net Length report by selecting nets of interest

Then select **Toolkit>Net Length Report**

Save the file as a simple text file then open it in an editor or in a spreadsheet program then print it.

NetName	Length
CLK100M_FRMR_RX	1.897
CLK100M_FRMR_TX	1.883
CLK100M_SAR_RX	3.52
CLK100M_SAR_TX	3.473

....Gridding Done
....Loading Nets
....Loading Nets Done
....Loading Components
....Loading Components Done

Mode: Zoom Units: US Status: Ready X: 1.328589 Y: 3.933963 Distance: Display: Normal

Component Highlight

Highlights....

Select a component from the Component Highlight list and it highlights in graphics

Select a component in graphics and it highlights its name in the Component Highlight list

Find components in graphics by typing in their name (re: U6, R*, etc)

Highlight groups of components

Highlight components by side of board, top or bottom

List component pin numbers and the net names they tie to and mark their location graphically

Flip board to see components from back-side

Enter a file of component names to highlight components (useful from manufacturing repair type systems)

Component Highlight

Select a Component in the Component Highlight list and the component highlights in graphics

The screenshot shows the AdivaView software interface. On the left, the 'Component Highlight' list contains components RN6 through RN73. RN64 is selected. A red arrow points from RN64 in the list to a small box labeled 'RN64' on the PCB graphic. A text box at the bottom of the graphic contains the instruction: 'Select Component name again or select another component and highlight disappears'. On the right, a legend lists 62 items, including '1 Top Circuit', '2 Plane', '3 Plane', '4 Inner Circuit', '5 Inner Circuit', '6 Plane', '7 Inner Circuit', '8 Inner Circuit', '9 Plane', '10 Plane', '11 Plane', '12 Plane', '13 Inner Circuit', '14 Inner Circuit', '15 Plane', '16 Inner Circuit', '17 Inner Circuit', '18 Plane', '19 Plane', '20 Bottom Circuit', '31 Top Paste', '32 Bottom Paste', '41 Top Mask', '42 Bottom Mask', '51 Top Marking', '52 Bottom Marking', '61 Plated Thru Holes', and '62 Non Plated Holes'. The status bar at the bottom shows 'Ready', 'Mode: Zoom', 'Units: US', 'Status: Ready', 'X: 3.211540', 'Y: 3.433933', 'Distance:', and 'Display: Normal'.

Component Highlight

Selection Find Nets Components

Component Highlight

- RN64**
- RN65
- RN66
- RN67
- RN68
- RN69
- RN7
- RN71
- RN72
- RN73
- RN74
- RN75
- RN76
- RN77
- RN78
- RN79

Top Components Bottom Components

Selected Components:

Component Filename:

..... Loading Nets Done
..... Loading Components
..... Loading Components Done
Left mouse, <shift> adds multiple selects, draw box selects
groups - left mouse inside - middle mouse outside

Ready Mode: Zoom Units: US Status: Ready X: 3.182845 Y: 3.343063 Distance: Display: Normal

Select a component in graphics and the Component Highlight window scrolls to show component name at the top of the list

(Hint: Make sure top or bottom layer is displayed and click on a component pin to highlight component)

<input type="checkbox"/>	S	T	N	Description
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1 Top Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20 Bottom Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	31 Top Paste
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32 Bottom Paste
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	41 Top Mask
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	42 Bottom Mask

Component Highlight

Expand component name and see pin numbers with net names

Click on pin number and crosshair appears
Click again and crosshair disappears

Component Highlight

- RN62
- RN63
- RN64
 - 1 [SRT_LADD6]
 - 2 [SRT_LADD5]
 - 3 [SRT_LADD4]
 - 4 [Unused_3]
 - 5 [Unused_4]
 - 6 [LADD4]
 - 7 [LADD5]
 - 8 [LADD6]
- RN65
- RN66
- RN67
- RN68
- RN69

Top Components Bottom Components

Selected Components:

Component Filename:

.....Loading Nets Done
.....Loading Components
.....Loading Components Done
Left mouse - <shift> adds multiple selects, draw box selects
groups - left mouse inside - middle mouse outside

S	T	N	Description
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1 Top Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20 Bottom Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	31 Top Paste
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32 Bottom Paste
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	41 Top Mask
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	42 Bottom Mask
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	51 Top Marking
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	52 Bottom Marking
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	61 Plated Thru Holes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	62 Non Plated Holes

Component Highlight

Drag and Drop components from the Highlight list to the Selected Components list

The screenshot shows the ADIVA software interface with a PCB layout. The 'Component Highlight' panel on the left contains a list of components: RN87, RN88, RN89, RN9, RN90, RN91, RN93, RN94, RN95, RN96, RN97, RN98, TP14, TP18, TP31, and TP32. Below this list are checkboxes for 'Top Components' and 'Bottom Components', both of which are checked. There are also input fields for 'Selected Components' and 'Component Filename', along with 'Add' and 'Browse' buttons. At the bottom of the panel is a 'Database' section with a list of components: RN64, RN65, and RN87. A red arrow points from the 'Component Highlight' list to the PCB layout, and another red arrow points from the 'Database' list to the PCB layout. A white text box with a red arrow pointing to the PCB layout contains the text: 'Components in Selected Components list will highlight in graphics'. The PCB layout itself shows a grid of components, with some highlighted in green. A red arrow points from the 'Component Highlight' list to the PCB layout, and another red arrow points from the 'Database' list to the PCB layout. The status bar at the bottom shows 'Ready', 'Mode: Select', 'Units: US', 'Status: Ready', 'X: 3.108714', 'Y: 3.245019', 'Distance:', and 'Display: Normal'.

Components in Selected Components list will highlight in graphics

Select a component and drag it outside the Selected Nets window to remove it from display

Component Highlight

Expand components to see pin numbers and net names

The screenshot shows the AdivaView software interface. The main window displays a PCB layout with several components highlighted in green. A text box in the center of the layout reads: "Click a pin number and a crosshair appears. Click again and the crosshair disappears".

On the left side, there is a "Component Highlight" panel with a list of components: RN87, RN88, RN89, RN9, RN90, RN91, RN93, RN94, RN95, RN96, RN97, RN98, TP14, TP18, TP31, and TP32. Below this list are checkboxes for "Top Components" and "Bottom Components", both of which are checked. There are also fields for "Selected Components:" and "Component File name:" with an "Add" button. At the bottom of this panel are buttons for "Add All Top Components" and "Add All Bottom Components".

Below the "Component Highlight" panel is a hierarchical tree view showing the structure of the components. The tree starts with "base" and "RN64". Under "RN64", there is a list of pins: 1 [SRT_LADD6], 2 [SRT_LADD5], 3 [SRT_LADD4], 4 [Unused_3], 5 [Unused_4], 6 [LADD4], 7 [LADD5], and 8 [LADD6]. The pin 8 [LADD6] is highlighted with a blue selection box. Below this list are other components: RN65 and RN87.

On the right side, there is a legend panel with a table of checkboxes and descriptions. The table has columns for "S", "T", and "N" (representing different types of components or layers) and a "Description" column. The descriptions include: 1 Top Circuit, 2 Plane, 3 Plane, 4 Inner Circuit, 5 Inner Circuit, 6 Plane, 7 Inner Circuit, 8 Inner Circuit, 9 Plane, 10 Plane, 11 Plane, 12 Plane, 13 Inner Circuit, 14 Inner Circuit, 15 Plane, 16 Inner Circuit, 17 Inner Circuit, 18 Plane, 19 Plane, 20 Bottom Circuit, 31 Top Paste, 32 Bottom Paste, 41 Top Mask, 42 Bottom Mask, 51 Top Marking, 52 Bottom Marking, 61 Plated Thru Holes, and 62 Non Plated Holes.

At the bottom of the window, there is a status bar with the following information: "Ready", "Mode: Select", "Units: US", "Status: Ready", "X: 3.101540", "Y: 2.704581", "Distance:", and "Display: Normal".

Component Highlight

Choose a particular Reference Designator (wildcards work *), choose side of board...

The screenshot shows the AdivaView software interface. The main window displays a PCB layout with various components highlighted in green. A dialog box titled "Component Highlight" is open on the left side. The "Component Highlight" dialog has a list of reference designators (RN87 to TP32) and a "Selected Components" field containing "U*". Below this, there are checkboxes for "Top Component" (checked) and "Bottom Components" (unchecked). There is also a "Component Filename" field and a "Browse" button. At the bottom of the dialog are "Add" and "Add All" buttons. A text box in the center of the PCB layout reads: "...select ADD and components are added to Selected Components list and highlighted in graphics". A legend on the right side of the interface lists various layers and components, such as "1 Top Circuit", "2 Plane", "3 Plane", etc., with corresponding color swatches. The status bar at the bottom shows "Ready", "Mode: Zoom", "Units: US", "Status: Ready", "X: -0.421430", "Y: 3.557971", "Distance:", and "Display: Normal".

...select ADD and components are added to Selected Components list and highlighted in graphics

...Loading Components Done
Left mouse, <shift> adds multiple selects, draw box selects groups - left mouse inside - middle mouse outside
Left mouse, <shift> adds multiple selects, draw box selects groups - left mouse inside - middle mouse outside

Component Highlight

Select particular component types for bottom side

The screenshot shows the AdivaView software interface. The left sidebar has a 'Component Highlight' section with a list of components (RN87 to TP33) and checkboxes for 'Top Components' and 'Bottom Components'. Below this is a 'Selected Components' field containing 'U* C*' and a 'Database' list with components C1 to C114. The central area displays a PCB layout with various components highlighted in green. The right sidebar contains a legend with 62 items, including '1 Top Circuit', '2 Plane', '3 Plane', '4 Inner Circuit', '5 Inner Circuit', '6 Plane', '7 Inner Circuit', '8 Inner Circuit', '9 Plane', '10 Plane', '11 Plane', '12 Plane', '13 Inner Circuit', '14 Inner Circuit', '15 Plane', '16 Inner Circuit', '17 Inner Circuit', '18 Plane', '19 Plane', '20 Bottom Circuit', '31 Top Paste', '32 Bottom Paste', '41 Top Mask', '42 Bottom Mask', '51 Top Marking', '52 Bottom Marking', '61 Plated Thru Holes', and '62 Non Plated Holes'. The status bar at the bottom shows 'Mode: Zoom', 'Units: US', 'Status: Ready', 'X: 1.060119', 'Y: 4.729534', 'Distance:', and 'Display: Flipped'. A text box in the center says 'Flip board for reverse side viewing'.

Component Highlight

Choose side of board to highlight components

The screenshot shows the AdivaView software interface. The main window displays a PCB layout with components highlighted in green. A dialog box titled "Component Highlight" is open on the left. It has a "Component Highlight" list containing various components like RN87, RN88, RN89, RN9, RN90, RN91, RN93, RN94, RN95, RN96, RN97, RN98, TP14, TP18, TP31, and TP32. Below this list are checkboxes for "Top Components" and "Bottom Components", both of which are checked. A "Selected Components:" field is empty. The "Component Filename:" field contains "verlay_demo\comp_repair.txt" with a "Browse" button. There are "Add", "Add All Top Components", and "Add All Bottom Components" buttons. Below the dialog is a "Database" tree view showing a hierarchy: Q19 (containing 1 [XTR_G7], 2 [GND], 3 [XTR_G8]), R47, and U5. A legend on the right side of the window lists various options with checkboxes and color swatches, including 1 Top Circuit (green), 2 Plane (red), 3 Plane (yellow), 4 Inner Circuit (cyan), 5 Inner Circuit (dark green), 6 Plane (orange), 7 Inner Circuit (blue), 8 Inner Circuit (red), 9 Plane (light blue), 10 Plane (light green), 11 Plane (blue), 12 Plane (pink), 13 Inner Circuit (brown), 14 Inner Circuit (grey), 15 Plane (red), 16 Inner Circuit (olive), 17 Inner Circuit (light blue), 18 Plane (green), 19 Plane (orange), 20 Bottom Circuit (dark green), 31 Top Paste (blue), 32 Bottom Paste (orange), 41 Top Mask (dark blue), 42 Bottom Mask (dark blue), 51 Top Marking (pink), 52 Bottom Marking (pink), 61 Plated Thru Holes (cyan), and 62 Non Plated Holes (purple).

Choose a file that contains a list of reference designators to highlight – format is 1 reference designator per line (but wildcards work *)

Select ADD and components are placed in Selected Components list and highlighted on screen

Select a component and drag it outside the Selected Nets window to remove it from display

Component Highlight

Select to turn on for display all Top (or Bottom) components

The screenshot shows the AdivaView software interface. The main window displays a PCB layout with various components highlighted in green. On the left, there are two 'Component Highlight' panels. The top panel has 'Top Components' and 'Bottom Components' checked. Below it, there are buttons for 'Add All Top Components' and 'Add All Bottom Components'. The bottom panel shows a list of components from C10 to C188. A red arrow points from the text 'Select to turn on for display all Top (or Bottom) components' to the 'Top Components' checkbox. Another red arrow points from the text 'Select a component and drag it outside the Selected Nets window to remove it from display' to the component list in the bottom panel. On the right, there is a legend with a table of checkboxes and descriptions for various components and planes.

<input type="checkbox"/>	S	T	N	Description
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1 Top Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	12 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	13 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17 Inner Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19 Plane
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20 Bottom Circuit
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	31 Top Paste
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	32 Bottom Paste
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	41 Top Mask
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	42 Bottom Mask
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	51 Top Marking
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	52 Bottom Marking
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	61 Plated Thru Holes
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	62 Non Plated Holes

Select a component and drag it outside the Selected Nets window to remove it from display

Measure Objects

Highlights...

Pairs of items can be selected in graphics and the edge to edge or center to center distance is calculated between them

A line can be drawn between two items or from one place to another and the length of the drawn line is displayed

The above drawn line can have a snap function applied to it so that the drawn lines snaps between object centers, edges, etc

Distance Between Two Objects – Using Select Item

1 Choose Select and bring Select Tab forward

The screenshot shows the Adiva View software interface with a PCB layout. The 'Selection' tab is active in the left sidebar. The main workspace displays a PCB layout with green components and red traces. A white selection box is drawn around a component, and a red arrow points to it from callout 3. The 'Object Information' panel on the left shows 'Separation: 0.024500'. A red arrow points to this value from callout 4. The 'Separation' dropdown in the 'Snap' section is set to 'Edge', with a red arrow pointing to it from callout 2. The 'Layers' panel on the right shows a list of layers with checkboxes. The status bar at the bottom indicates 'Mode: Select', 'Units: US', 'Status: Ready', 'X: 5.116050', 'Y: 3.263426', 'Distance:', and 'Display: Normal'.

2 Choose Separation type
Edge to Edge or Center to Center

3 Select 1 item then
<shift>select a 2nd item

4 Read Separation Value
in inches or mm

Distance Between Two Objects – Using Drag Line

Choose Measure icon



1 Drag a line between two items
Left mouse down – drag – up

2 Choose Snap Option if desired
Snap to Pad
Snap to Segment
Snap to Item

3 Drag a line between two items
Left mouse down – drag – up

4 Read distance value
between two items

groups - left mouse inside - middle mouse outside
Left mouse, <shift> adds multiple selects, draw box selects
groups - left mouse inside - middle mouse outside
Left mouse and drag between two points to measure real distance.
Left mouse and drag between two points to measure real distance.

Ready Mode: Measure Units: US Status: Ready X: 4.742081 Y: 3.218853 Distance: 0.031400 Display: Normal

Web Page Creation

Highlights...

Web Pages can be created showing AdivaView graphics for reference

Images contain exactly what is displayed on the current AdivaView screen

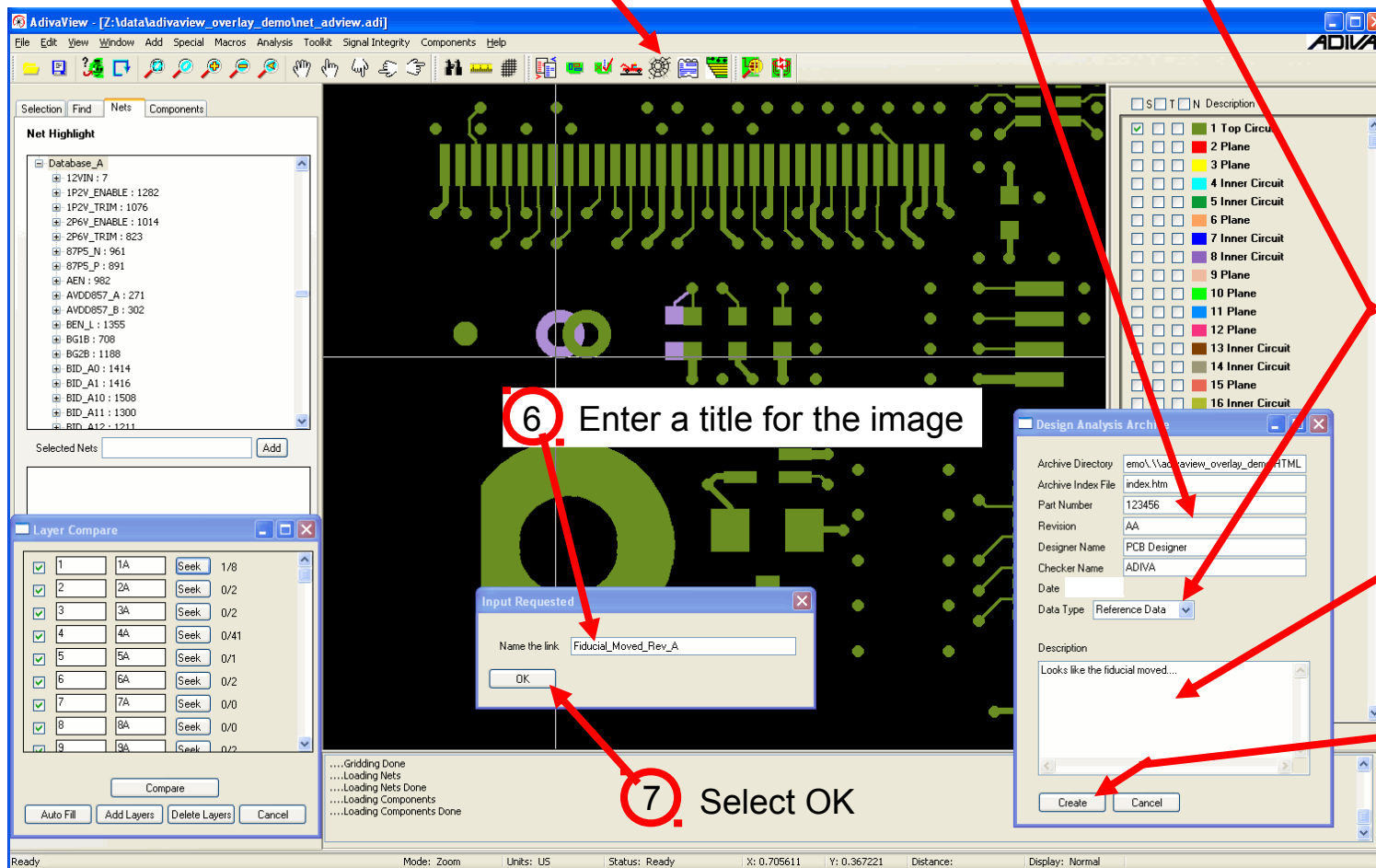
Final product is completely independent of AdivaView toolset allowing easy sharing and archiving of AdivaView images and information

Simply set the graphics screen to an image of interest and click the archive button to generate HTML based web pages for visual reference

Web Page Creation

This is a case where the Layer Compare function results are being viewed. To create a web page showing the issue displayed, follow these steps....

- 1 Choose the Web Page toolbar Icon
- 2 Fill in any Board specific data if desired
- 3 Make sure "Data Type" is set to "Reference Data"



6 Enter a title for the image

7 Select OK

4 Enter any descriptive data desired

5 Select Create

Web Page Creation

This is the same process of creation for a set of highlighted nets. The HTML Archive window can remain open and each “Create” selection will create a new image to add to the archive matrix....

1 Enter some descriptive data if desired

The screenshot displays the AdivaView software interface. The main window shows a PCB layout with various components and traces. On the left, there are two panels: 'Net Highlight' and 'Database'. The 'Net Highlight' panel lists several nets, including CBQ_BWB2, CBQ_BWB3, CBQ_CS2, CBQ_CS80_L, CBQ_PD1, CBQ_RW_L, CLK_87PS_BUF_N, CLK_87PS_BUF_P, CLK_87PS_FPGA_N, CLK_87PS_FPGA_P, CLK_B_CTRL, CLK_B_FB_N, CLK_B_FB_P, CLK_BID, CLK_BUF857_N, CLK_BUF857_P, CLK_CBQ, CLK_DDR, and CLK_DDR_A. The 'Database' panel lists various nets with their lengths, such as CLK_DDR_616, CLK_DDR_A_615, CLK_DDR_SAR_N_303, CLK_DDR_SAR_P_304, CLK_DDR_SAR1_N_588, CLK_DDR_SAR1_P_552, CLK_DDR_TEST0_630, CLK_DDR1_N_130, CLK_DDR1_P_133, CLK_DDR2_N_141, CLK_DDR2_P_143, CLK_DDR3_N_149, CLK_DDR3_P_148, CLK_DDR4_N_138, CLK_DDR4_P_140, CLK_DDR5_N_145, and CLK_DDR5_P_146. A 'Design Analysis Archive' window is open on the right, showing fields for Archive Directory, Archive Index File, Part Number, Revision, Designer Name, Checker Name, Date, Data Type, and Description. The Description field contains 'CLK_DDR Routing...'. An 'Input Requested' dialog box is also open, asking for the name of the link, with 'CLK_DDR_Routing' entered. A 'Create' button is visible in the Design Analysis Archive window.

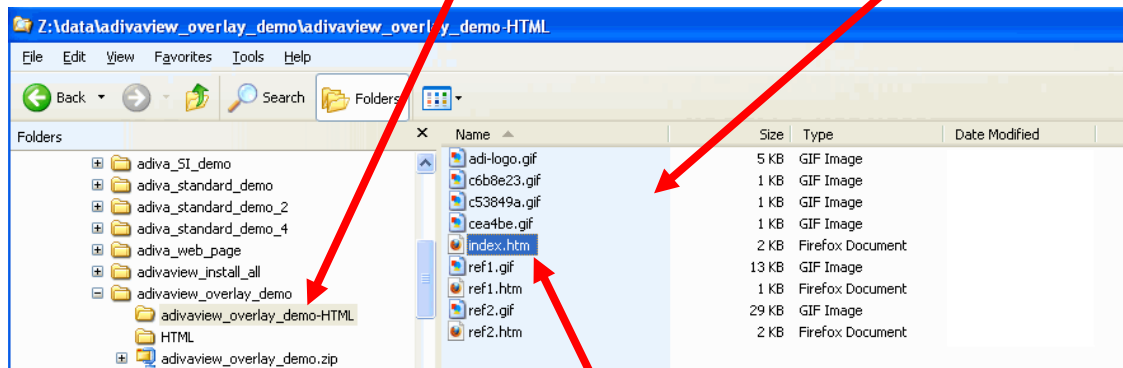
2 Select Create

3 Enter a title

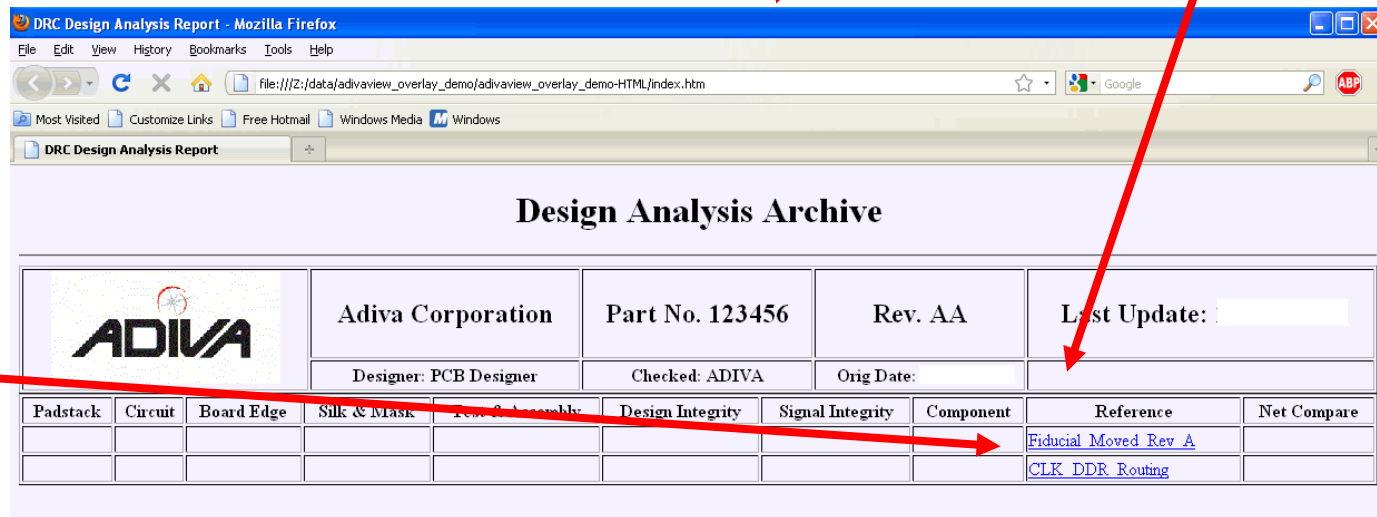
4 Select OK

Web Page Creation

As web pages are created, they are placed in a project directory and a series of files are created under that directory

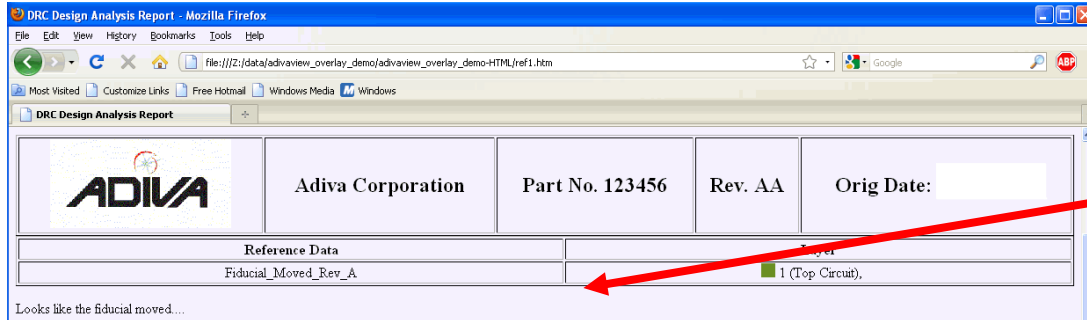


The most important file is the “index.htm” file. Open this file in a web browser to see the archive matrix.

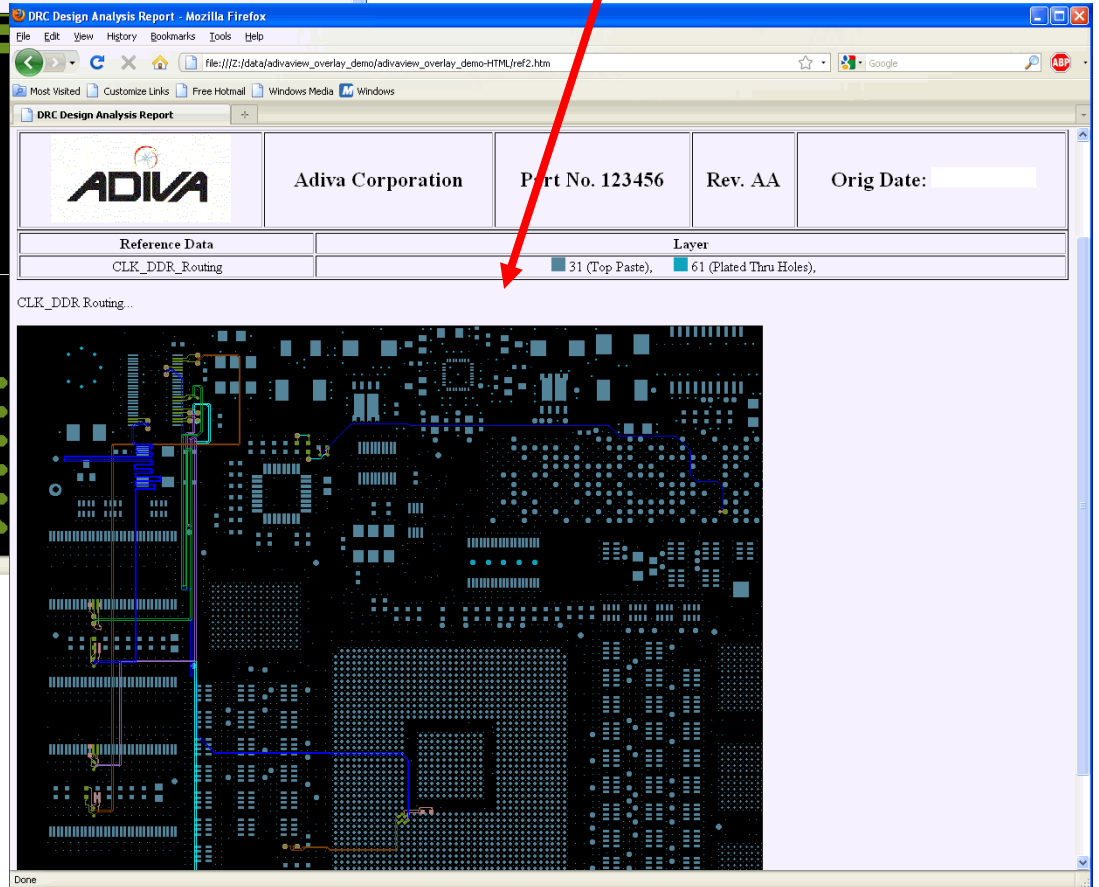
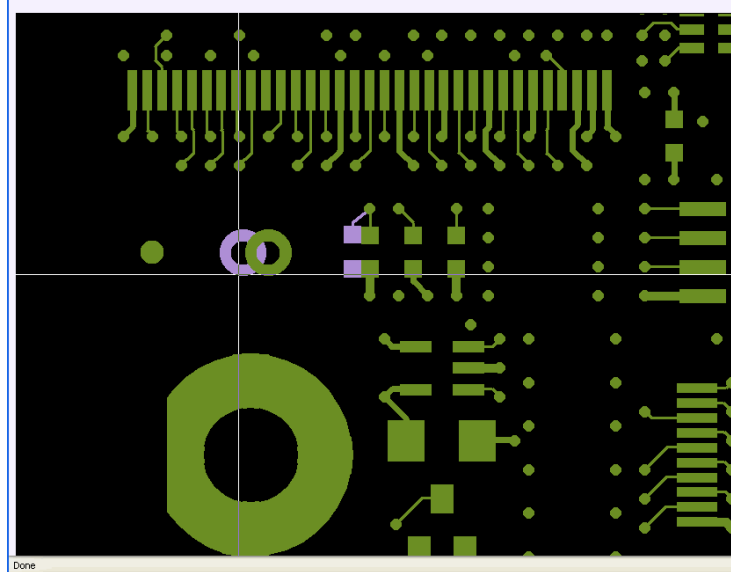


Select one of the links to view the archived web image

Web Page Creation



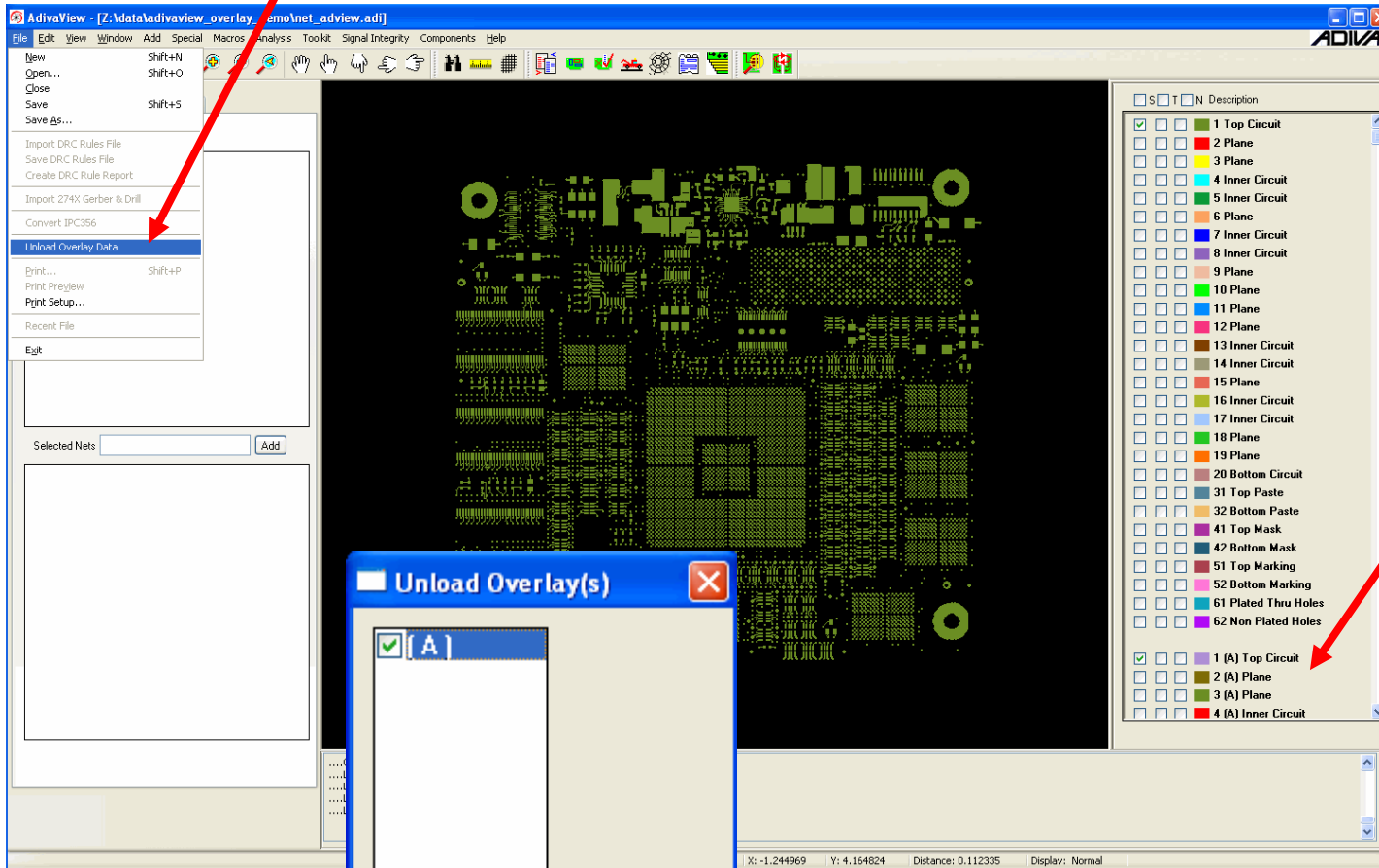
By selecting links on the archive matrix shown in the previous slide, an exact image of the archived screen is shown with information about the data provided...



Unload an Added Database

Remove (unload) an Added Database

Choose File > Unload Overlay Data...



Notice a second database is loaded

...an Unload Overlay dialog will appear

Choose the database to remove and select Unload – the second database will be removed

END

AdivaView Main Functions (User Guide)