# AdivaView Graphical User Interface (User Guide)

Adiva Version 9.5

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# AdivaView Graphical User Interface Highlights

- Layer display checkbox also makes the layer active for item selection (different from AdivaTools DRC).
- Layer Display and Action Display are both dockable panels. They can be moved to different locations to create a larger viewing area for a design.
- All data created automatically by Adiva is stored in the local directory for a particular job.

### Starting the AdivaView Interface

On the Windows Desktop, double-click the AdivaView icon On the command line, type >AdivaView -V <jobname> (jobname is optional)

The graphical Interface will appear and if a jobname is supplied it will appear like below.



If a job name is not supplied, the Layer Listing on the right will be empty and the next step will be to access the File menu to find and load a job.

### Menus

Across the top of the AdivaView Graphical Interface are a series of menus. Several of the menu items are inactive for AdivaView therefore not listed in this guide



The File Menu performs the following....



The View Menu controls various graphical related functions. Take close note of the keyboard shortcuts that are also available for each function



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Zoom Functions:

Zoom allows a user to draw an area to zoom click left-mouse down-drag-let go - defined area zooms in

Zoom-In allows a user to zoom in 1 level on the current screen Mouse Scroll-Up performs the same function

Zoom-Out allows the user to zoom out 1 level on the current screen

Mouse Scroll-Down performs the same function

Center Zoom-In allows the user to zoom in 1 level centering on the mouse location

Center Zoom-Max allows the user to zoom in 8 levels centering on the mouse location

Back returns the user to the previous displayed screen

Keyboard Shortcuts

The View Menu controls various graphical related functions. Take close note of the keyboard shortcuts that are also available for each function



Pan Functions:

Pan allows a user to click left-mouse down on a location and drag a line to a new location (let go) then redraws the screen with the original location now in the new location.

In short: drag this point from here to here

Mouse scroll click-down-drag-release performs same function without placing user in "Pan-State"

Pan Up moves the current window-of-view 90% up

Pan Down moves the current window-of-view 90% down

Pan Left moves the current window-of-view 90% to the left

Pan Right moves the current window-of-view 90% to the right

Back returns the user to the previous displayed screen

The Add Menu performs the following....



Select **Add – Database** to load a second or more databases on top of an already loaded database.

This is useful for revision review between two or more versions of the same design.

When selected, a Windows navigation dialog will appear allowing the selection of a second (or more) databases to be loaded for review.

See the **AdivaView Function User Guide** for application details.

### The Special Menu performs the following....



Measure provides a tool allowing the user to drag a line anywhere on the screen and a total distance from start to end is displayed in the status bar at the bottom of the Adiva Graphical Interface.

Select Measure > Left-Mouse down-drag-let go on the graphics screen

"Snap" option on the Selection Tab is helpful with this function

Layer Description displays the layer stackup as defined for this design. Select this and a dialog will appear showing a description of each layer and its Z-Position (distance from top) of each layer.

Layer Description					
Layer	Layer Туре	Polarity	Z-Position	Copper Thickness	
1	Top Circuit 💊	Positive 🔽	0.500000	1.500000	
2	Plane 💊	Negative 🗸	5.800000	1.500000	
3	Plane	Negative 🔽	11.400000	1.500000	
4	Inner Circuit	Positive 💌	16.800000	1.500000	
5	Inner Circuit	Positive 💌	21.300000	1.500000	
6	Plane	Negative 🗸	26.000000	1.500000	
7	Inner Circuit	Positive 💌	31.200000	1.500000	
8	Inner Circuit	Positive 💌	35.000000	1.500000	
9	Plane	Negative 💌	39.500000	1.500000	
10	Plane	Negative 🗸	44.600000	1.500000	
11	Plane	Negative V	49.600000	1.500000	
Update	Cancel				

### The Toolkit Menu performs the following....

AdivaView		
le Edit View Window Add Special Macros Analysis           Image: Selection Find Nets         Image: Selection Find Nets         Components           Net Highlight         Image: Selection Find Nets         Image: Selection Find Nets         Image: Selection Find Nets	Toolkit       Help         Netlist Generator       Image: Second Se	Archive generates a series of web based images that communicate graphical images of questionable or notable material.
Net Length databy net sheet progr	<b>n Report</b> creates a comma name. This file can be loac ram for review.	User Guide for application details.

**Layer Compare** performs a function comparing any two layers of a design. This is a graphical Comparison allowing the user to "seek" to any differences between the two layers.

Multiple layers can be batched at one time for a complete design comparison. For instance, revision A of a design can be compared back to the original design determining any and all differences between the revisions. See the AdivaView Function User Guide for application details.

### ToolBar

File Open – select and load an existing database

Select Item – allows user to select or un-select items on the screen See the **Item Select Function** described at the end of this User Guide.

CadLink produces a file that can be used by certain CAD systems to center the CAD screen to the Adiva screen

Find Function brings the Find Tab forward in the action tabs to provide searching for XY locations

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Distance: 0.098523

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See the AdivaView Function User Guide for application details.

Flip – turns the design over for easy viewing from the backside. Selecting Flip again flips the design back over.

The message bar at the bottom of the screen reports the current state of viewing for the design – Normal - Flipped







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### Layer Display

#### Layer Display List controls access to visual and physical selections of each graphical layer of a design



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### **Action Display Tabs**

#### Selection Tab controls the function and reports the results of a "select" action

See the Item Selection slides at the end of this guide for "How to Select" information....



Selected Item information:

Separation option controls the report of any two items selected...

Edge - reports the spacing edge-to-edge between two selected items

Center - reports the spacing center-to-center between two selected items

### Find Tab provides search functions

	Selection Find Nets Components
	Find X_Y         X: 3.2         Y: 1.68         Search       Clear
Type in an XY location e select Search and a crost the requested location o	either in inches or mm, sshair will appear at f the design.

Selecting Clear removes the crosshair from display.

### Nets Tab Locates and Highlights Selected Nets in Graphics



### Components Tab Locates and Highlights Selected Components in Graphics

Select a component in the Component Highlight box and the component is centered and highlighted in white at current zoom level in the Graphics screen

Select another component and the first is un-highlighted and the next selection is highlighted

> Enter a component name (wildcards work \*) and select "Add" and the component(s) drop into the Selected Components list

Text entry selection is filtered by Top or Bottom Components check boxes

Add All Top or Bottom Components acts as a wildcard selection of all Top or Bottom components to the Selected Components box

Components in Selected Components box are highlighted in white

Click on RefDes-pin# and a crosshair appears at component pin location – click again and the crosshair disappears



# Message Display & Information Bar

#### Message and Information Bar reports process status



#### Scrollable window reporting status of all processes including data load

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### **Item Selection**

### **Item Selection**

- An important function to understand is the "Select Item" function
- Items on a layer (or multiple layers) can be selected for detailed item information
- Net Tab and Component Tab automatically allow the selection of single Nets or Components.
- To select a specific item, be sure the Selection Tab is forward and you are in the "Select" mode by choosing the "Select Item" icon in Adiva's toolbar...

  Image: I

### **Item Selection**

Once in "select" mode, be sure a layer(s) is ON

Then, with the left mouse button, click on any object on that particular layer. It will highlight in white. On the left side of the Adiva screen in the Selection Tab, attributes of the selected item will be reported.

To select more than one item, hold down the <shift>key while selecting. Items will be added to a "select" list – a collection of selected items.

Another way to select a group of items is to hold down the left mouse key and drag a box over a group of items to be selected. Everything inside or touching the drawn box will be highlighted in white meaning they are selected.

Another way to select a group of items is to hold down the right mouse key and drag a box (typically a small box) outside of a group of items. Everything outside the drawn box will be highlighted in white meaning they are selected.

Choose the "Select" button again in the toolbar, and everything selected will become un-selected (white highlight goes away).



## END AdivaView Graphical User Interface (User Guide)

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