cadence®

PSpice A/D Quick Reference

Product Version 23.1
September 2023

Document Last Updated: December 2020

© 2023 Cadence Design Systems, Inc. All rights reserved.
Portions © Apache Software Foundation, Sun Microsystems, Free Software Foundation, Inc., Regents of the University of California, Massachusetts Institute of Technology, University of Florida. Used by permission. Printed in the United States of America.

Cadence Design Systems, Inc. (Cadence), 2655 Seely Ave., San Jose, CA 95134, USA.

Product PSpice contains technology licensed from, and copyrighted by: Apache Software Foundation, 1901 Munsey Drive Forest Hill, MD 21050, USA © 2000-2005, Apache Software Foundation. Sun Microsystems, 4150 Network Circle, Santa Clara, CA 95054 USA © 1994-2007, Sun Microsystems, Inc. Free Software Foundation, 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA © 1989, 1991, Free Software Foundation, Inc. Regents of the University of California, Sun Microsystems, Inc., Scriptics Corporation, © 2001, Regents of the University of California. Daniel Stenberg, © 1996 - 2006, Daniel Stenberg. UMFPACK © 2005, Timothy A. Davis, University of Florida, (davis@cise.ulf.edu). Ken Martin, Will Schroeder, Bill Lorensen © 1993-2002, Ken Martin, Will Schroeder, Bill Lorensen. Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, Massachusetts, USA © 2003, the Board of Trustees of Massachusetts Institute of Technology. All rights reserved.

Trademarks: Trademarks and service marks of Cadence Design Systems, Inc. contained in this document are attributed to Cadence with the appropriate symbol. For queries regarding Cadence's trademarks, contact the corporate legal department at the address shown above or call 800.862.4522. Open SystemC, Open SystemC Initiative, OSCI, SystemC, and SystemC Initiative are trademarks or registered trademarks of Open SystemC Initiative, Inc. in the United States and other countries and are used with permission.

All other trademarks are the property of their respective holders.

Restricted Permission: This publication is protected by copyright law and international treaties and contains trade secrets and proprietary information owned by Cadence. Unauthorized reproduction or distribution of this publication, or any portion of it, may result in civil and criminal penalties. Except as specified in this permission statement, this publication may not be copied, reproduced, modified, published, uploaded, posted, transmitted, or distributed in any way, without prior written permission from Cadence. Unless otherwise agreed to by Cadence in writing, this statement grants Cadence customers permission to print one (1) hard copy of this publication subject to the following conditions:

1. The publication may be used only in accordance with a written agreement between Cadence and its customer.
2. The publication may not be modified in any way.
3. Any authorized copy of the publication or portion thereof must include all original copyright, trademark, and other proprietary notices and this permission statement.
4. The information contained in this document cannot be used in the development of like products or software, whether for internal or external use, and shall not be used for the benefit of any other party, whether or not for consideration.

Disclaimer: Information in this publication is subject to change without notice and does not represent a commitment on the part of Cadence. Except as may be explicitly set forth in such agreement, Cadence does not make, and expressly disclaims, any representations or warranties as to the completeness, accuracy or usefulness of the information contained in this document. Cadence does not warrant that use of such information will not infringe any third party rights, nor does Cadence assume any liability for damages or costs of any kind that may result from use of such information. Cadence is committed to using respectful language in our code and communications. We are also active in the removal and/or replacement of inappropriate language from existing content. This product documentation may however contain material that is no longer considered appropriate but still reflects long-standing industry terminology. Such content will be addressed at a time when the related software can be updated without end-user impact.

Restricted Rights: Use, duplication, or disclosure by the Government is subject to restrictions as set forth in FAR52.227-14 and DFAR252.227-7013 et seq. or its successor.

Contents

PSpice A/D Shortcut Keys 5

PSpice A/D Toolbars 7

PSpice Toolbar in Capture 7
File Toolbar in PSpice A/D 8
Edit Toolbar in PSpice A/D 9
Simulate Toolbar in PSpice A/D 10
Probe Toolbar in PSpice A/D 11
Cursor Toolbar in PSpice A/D 13

PSpice Model Editor Shortcut Keys and Toolbar 15

PSpice Model Editor Shortcut Keys 15
PSpice Model Editor Toolbar 16

PSpice Stimulus Editor Shortcut Keys and Toolbar 19

PSpice Stimulus Editor Shortcut Keys 19
PSpice Stimulus Editor Toolbar 20

© 2023 All Rights Reserved.

© 2023 All Rights Reserved.

PSpice A/D Shortcut Keys

Key	Mode or user interface item	Function or menu command
CTRL+A	Edit menu	Select All
CTRL+A	Zoom menu (on the View menu)	Area
CTRL+C	Edit menu	Copy
CTRL+SHIFT+C	Cursor menu (on the Trace menu)	Display
CTRL+F	Edit menu	Find
CTRL+SHIFT+F	Cursor menu (on the Trace menu)	Freeze
CTRL+G	Edit menu	Goto Line
CTRL+H	Edit menu	Replace
CTRL+I	Zoom menu (on the View menu)	In
CTRL+SHIFT+I	Cursor menu (on the Trace menu)	Point
CTRL+L	Zoom menu (on the View menu)	Redraw
CTRL+SHIFT+L	Cursor menu (on the Trace menu)	Slope
CTRL+SHIFT+M	Cursor menu (on the Trace menu)	Min
CTRL+N	With a PSpice A/D window active	Creates a new text file
CTRL+SHIFT+N	Cursor menu (on the Trace menu)	Next Transition
CTRL+O	File menu	Open
CTRL+P	File menu	Print
CTRL+SHIFT+P	Cursor menu (on the Trace menu)	Peak
CTRL+SHIFT+R	Cursor menu (on the Trace menu)	Previous Transition
CTRL+SHIFT+S	Cursor menu (on the Trace menu)	Search Commands
CTRL+SHIFT+T	Cursor menu (on the Trace menu)	Trough

© 2023 All Rights Reserved.

Key	Mode or user interface item	Function or menu command
CTRL+U	With a waveform window active	Restores the last deleted traces
CTRL+V	Edit menu	Paste
CTRL+X	Edit menu	Cut
CTRL+SHIFT+X	Cursor menu (on the Trace menu)	Max
CTRL+Y	With a waveform window active	Add a Y axis
CTRL+SHIFT+Y	With a waveform window active	Delete a Y axis
F1	Help menu	Help Topics
F3	Edit menu	Find Next
ALT+F4	File menu	Exit
F12	With a waveform window active	Restores the last waveform window
INSERT	With a waveform window active	Opens the Add Traces dialog box
DELETE	Edit menu	Delete
CTRL+DELETE	With a waveform window active	Deletes all traces in the waveform window

© 2023 All Rights Reserved.

PSpice A/D Toolbars

PSpice Toolbar in Capture

Tool	Name	Description
	New simulation profile	Opens the New Simulation dialog box. Equivalent to the New Simulation Profile command on the PSpice menu.
	Edit simulation settings	Opens the Simulation Settings dialog box. Equivalent to the Edit Simulation Settings command on the PSpice menu.
	Run	Runs the simulation. Equivalent to the Run command on the PSpice menu.
	View simulation results	Opens the simulation window. Equivalent to the View Simulation Results command on the PSpice menu.
	Voltage level marker	Places a voltage level marker on the schematic page. Equivalent to the Voltage Level command on the Markers menu (on the PSpice menu).
	Current into pin marker	Places a current into pin marker on the schematic page. Equivalent to the Current Into Pin command on the Markers menu (on the PSpice menu).
	Voltage differential marker	Places a voltage differential marker on the schematic page. Equivalent to the Voltage Differential command on the Markers menu (on the PSpice menu).

© 2023 All Rights Reserved.

Tool	Name	Description
	Power dissipation marker	Places a power dissipation marker on the schematic page. Equivalent to the Power Dissipation command on the Markers menu (on the PSpice menu).
	Enable bias voltage display	Enables display of bias voltage on schematic. Equivalent to the Enable Bias Voltage Display command on the Bias Points menu (on the PSpice menu)
	Toggle selected bias voltage	Toggles voltages on selected nets. Equivalent to the Toggle Selected Bias Voltage command on the Bias Points menu (on the PSpice menu)
	Enable bias current display	Enables display of bias current on schematic. Equivalent to the Enable Bias Current Display command on the Bias Points menu (on the PSpice menu)
	Toggle selected bias current	Toggles currents on selected pins or parts. Equivalent to the Toggle Selected Bias Current command on the Bias Points menu (on the PSpice menu)
	Enable bias power display	Enables display of bias power on schematic. Equivalent to the Enable Bias Power Display command on the Bias Points menu (on the PSpice menu)
	Toggle selected bias power	Toggles power on selected parts. Equivalent to the Toggle Selected Bias Power command on the Bias Points menu (on the PSpice menu)

File Toolbar in PSpice A/D

Tool	Name	Description
	New	Opens a new simulation file or a new text file. Equivalent to the Simulation Profile command or Text File command on the New menu (on the File menu).

© 2023 All Rights Reserved.

Tool	Name	Description
	Open	Opens a data file. Equivalent to the Open command on the File menu.
	Append file	Opens the Append dialog box, which you use to append a data file to the current waveform data. Equivalent to the Append Waveform (.DAT) command on the File menu.
	Save	Saves the active file. Equivalent to the Save command on the File menu.
	Print	Prints the active file. Similar to the Print command on the File menu.

Edit Toolbar in PSpice A/D

Tool	Name	Description
	Cut	Removes the selected object and places it on the Clipboard. Equivalent to the Cut command on the Edit menu.
	Copy	Copies the selected object to the Clipboard. Equivalent to the Copy command on the Edit menu.
	Paste	Pastes the contents of the Clipboard at the cursor. Equivalent to the Paste command on the Edit menu.
	Undo	Undoes the last command performed. Equivalent to the Undo command on the Edit menu.

© 2023 All Rights Reserved.

Tool	Name	Description
	Redo	Redoes the last command performed. Equivalent to the Redo command on the Edit menu.
	Toggle bookmark	Toggles a bookmark at the current line. Equivalent to the Toggle Bookmark command on the Edit menu.
	Next bookmark	Moves to the next bookmark. Equivalent to the Next Bookmark command on the Edit menu.
	Previous bookmark	Moves to the previous bookmark. Equivalent to the Previous Bookmark command on the Edit menu.
	Clear all bookmarks	Clears all bookmarks in the active window. Equivalent to the Clear Bookmarks command on the Edit menu.

Simulate Toolbar in PSpice A/D

Tool	Name	Description
	Run	Runs the current simulation. Equivalent to the Run command on the Simulation menu.
	Save Simulation State	Saves the state of the simulation. Equivalent to the Save Simulation State command on the Simulation menu.
	Pause	Pauses the simulation run. Equivalent to the Pause command on the Simulation menu.

© 2023
All Rights Reserved.

Tool	Name	Description
	Stop	Stops the simulation run. Equivalent to the Stop command on the Simulation menu.

Probe Toolbar in PSpice A/D

Tool	Name	Description
	Zoom in	Zooms in on a specified point. Equivalent to the In command on the Zoom menu (on the View menu).
	Zoom out	Zooms out from a specified point. Equivalent to the Out command on the Zoom menu (on the View menu).
	Zoom area	Zooms in on a selected area of a graph. Equivalent to the Area command on the Zoom menu (on the View menu).
	Zoom fit	Zooms to show all traces and labels. Equivalent to the Fit command on the Zoom menu (on the View menu).
	Load Next Part	Loads the next part of a large data file. Equivalent to the Load Next Part command on the View menu.
	Toggle Large Data File Mode	Toggles between displaying fewer points and displaying parts. Equivalent to the options in the Large Data File Mode menu on the View menu.
	Log X axis	Toggles the X axis between log and linear scaling. Equivalent to selecting the Log option or Linear option in the X Axis tab in the Axis Settings dialog box (accessed by choosing the Axis Settings command on the Plot menu).

© 2023
All Rights Reserved.

Tool	Name	Description
	Fourier	Toggles between displaying the Fourier transform of all analog traces in the selected plot. Equivalent to the Fourier (or End Fourier) command on the Trace menu.
	Performance analysis	Toggles the performance analysis on and off. Equivalent to the Performance Analysis command on the Trace menu.
	Log Y axis	Toggles the Y axis between log and linear scaling. Equivalent to selecting the Log option or Linear option in the Y Axis tab in the Axis Settings dialog box (accessed by choosing the Axis Settings command on the Plot menu).
	Add trace	Opens the Add Traces dialog box, which you use to add a trace (or traces) to a selected plot. Equivalent to the Add Trace command on the Trace menu.
	Evaluate measurement	Opens the Evaluate Measurement dialog box, which you use to evaluate a measurement expression's value. Equivalent to the Evaluate measurement command on the Trace menu.
	Text label	Opens the Text Label dialog box, which you use to add a text label to a graph. Equivalent to the Text command on the Label menu (on the Plot menu).
	Mark data points	Marks data points on analog traces. Equivalent to selecting the Mark Data Points option in the Probe Options dialog box (accessed by choosing the Options command on the Tools menu).

© 2023 All Rights Reserved.

Tool	Name	Description
	Toggle cursor	Toggles the display of the Probe cursor on and off. Equivalent to the Display command on the Cursor menu (on the Trace menu).

Cursor Toolbar in PSpice A/D

Tool	Name	Description
	Cursor peak	Positions the cursor at the next peak value. Equivalent to the Peak command on the Cursor menu (on the Trace menu).
	Cursor trough	Positions the cursor at the next trough. Equivalent to the Trough command on the Cursor menu (on the Trace menu).
	Cursor slope	Positions the cursor at the next slope. Equivalent to the Slope command on the Cursor menu (on the Trace menu).
	Cursor min	Positions the cursor at the next minimum value. Equivalent to the Min command on the Cursor menu (on the Trace menu).
	Cursor max	Positions the cursor at the next maximum value. Equivalent to the Max command on the Cursor menu (on the Trace menu).
	Cursor point	Positions the cursor at the next data point. Equivalent to the Point command on the Cursor menu (on the Trace menu).
	Cursor search	Opens the Search Command dialog box, which you use to position the cursor at a specific place along a trace. Equivalent to the Search Commands command on the Cursor menu (on the Trace menu).

© 2023 All Rights Reserved.

Tool	Name	Description
	Cursor next tran	Positions the cursor at the next digital transition. Equivalent to the Next Transition command on the Cursor menu (on the Trace menu).
	Cursor prev tran	Positions the cursor at the previous digital transition. Equivalent to the Previous Transition command on the Cursor menu (on the Trace menu).
	Mark label	Marks the current cursor location with a value. Equivalent to the Mark command on the Label menu (on the Plot menu).

© 2023 All Rights Reserved.

PSpice Model Editor Shortcut Keys and Toolbar

PSpice Model Editor Shortcut Keys

Key	Mode or user interface item	Function or menu command
CTRL+C	Edit menu	Copy
CTRL+N	File menu	New
CTRL+O	File menu	Open
CTRL+P	File menu	Print
CTRL+S	File menu	Save
CTRL+V	Edit menu	Paste
CTRL+X	Edit menu	Cut
F1	Help menu	Help Topics
ALT+F4	File menu	Exit
DELETE	Edit menu	Delete

© 2023 All Rights Reserved.

PSpice Model Editor Toolbar

Tool	Name	Description
	New library	Creates a new library. Equivalent to the New command on the File menu.
	Open library	Opens an existing library. Equivalent to the Open command on the File menu.
	Save library	Saves the active library. Equivalent to the Save command on the File menu.
	Print model directly	Prints the active model. Similar to the Print command on the File menu.
	Print preview	Displays print preview pages of the model data. Equivalent to the Print Preview command on the File menu.
	Cut	Removes the selected object and places it on the Clipboard. Equivalent to the Cut command on the Edit menu.
	Copy	Copies the selected object to the Clipboard. Equivalent to the Copy command on the Edit menu.
	Paste	Pastes the contents of the Clipboard at the cursor. Equivalent to the Paste command on the Edit menu.
	Zoom in	Zooms in about the center of the plot. Equivalent to the In command on the View menu.

© 2023
All Rights Reserved.

Tool	Name	Description
	Zoom out	Zooms out about the center of the plot. Equivalent to the Out command on the View menu.
	Zoom area	Zooms to fit a selected area. Equivalent to the Area command on the View menu.
	Zoom to fit data	Zooms to show all data in the plot. Equivalent to the Fit command on the View menu.
	New model	Inserts a new model into the library. Equivalent to the New command on the Model menu.
	Toggle X	Toggles the X axis between log and linear scaling. Equivalent to selecting the Log option or Linear option in the Axis Settings dialog box (accessed by choosing the Axis Settings command on the Plot menu).
	Toggle Y	Toggles the Y axis between log and linear scaling. Equivalent to selecting the Log option or Linear option in the Axis Settings dialog box (accessed by choosing the Axis Settings command on the Plot menu).
	Extract	Extracts new parameters from your specifications. Equivalent to the Extract Parameters command on the Tool menu.
	Sync splitters	Synchronizes the splitter bars in the model data windows within the Spec Entry document window. Equivalent to selecting the Synchronize Graph Splitter Window option in the Options dialog box (accessed by choosing the Options command on the Tools menu).
	Update graph	Redraws the graph after you add or edit values. Equivalent to the Redraw command on the View menu.

© 2023
All Rights Reserved.

Tool	Name	Description
	Auto refresh	Refreshes a graph automatically after a change is made. Equivalent to selecting the Automatically Update Graph option in the Options dialog box (accessed by choosing the Options command on the Tools menu).

© 2023 All Rights Reserved.

PSpice Stimulus Editor Shortcut Keys and Toolbar

PSpice Stimulus Editor Shortcut Keys

Key	Mode or user interface item	Function or menu command
ALT+A	Edit menu	Add
CTRL+A	View menu	Area
CTRL+D	With a plot window active	Delete
CTRL+I	View menu	In
CTRL+L	View menu	Redraw
ALT+N	Stimulus menu	New
CTRL+N	View menu	Fit
CTRL+O	View menu	Out
CTRL+P	View menu	Previous
CTRL+T	Edit menu	Attributes
F1	Help menu	Help Topics
ALT+F4	File menu	Exit
F12	File menu	Save As
CTRL+F12	File menu	Open
SHIFT+F12	File menu	Save
CTRL+SHIFT+F12	File menu	Print
DELETE	Edit menu	Delete
ALT+DELETE	Stimulus menu	Remove
INSERT	Stimulus menu	Get

© 2023 All Rights Reserved.

PSpice Stimulus Editor Toolbar

Tool	Name	Description
	New	Opens a new plot window. Equivalent to the New command on the File menu.
	Open	Opens an existing stimulus library. Equivalent to the Open command on the File menu.
	Save	Saves the current stimulus library. Equivalent to the Save command on the File menu.
	Print	Prints the active plot window. Similar to the Print command on the File menu.
	Zoom in	Zooms in and centers plot at cursor location. Equivalent to the In command on the View menu.
	Zoom out	Zooms out and centers plot at cursor location. Equivalent to the Out command on the View menu.
	View area	Zooms in on an area you define. Equivalent to the Area command on the View menu.
	View fit	Zooms to the default view level. Equivalent to the Fit command on the View menu.
	Axis settings	Opens the Axis Settings dialog box, which you use to specify the axis settings. Equivalent to the Axis Settings command on the Plot menu.

© 2023 All Rights Reserved.

Tool	Name	Description
	New stimulus	Opens the New Stimulus dialog box, which you use to create a new stimulus. Equivalent to the New command on the Stimulus menu.
	Get stimulus	Opens the Get Stimulus dialog box, which you use to add stimuli to the plot. Equivalent to the Get command on the Stimulus menu.
	Edit attributes	Opens the Edit Digital Transition dialog box, which you use to modify the values and settings of the selected stimuli. Equivalent to the Attributes command on the Edit menu.
	Add	Adds a new point or transition to the stimuli at the cursor location. Equivalent to the Add command on the Edit menu.

© 2023 All Rights Reserved.