COMMANDS

SPICE Analysis					
.0P	find the DC operating point				
.TRAN	perform nonlinear transient analysis				
.AC	perform small signal AC analysis				
.DC	perform DC source sweep analysis				
ЛF	find the DC small-signal transfer function				
.NOISE	perform noise analysis				

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.BACKANNO	annotate subcircuit pin names on port currents
.END	end of netlist
.ENDS	end of subcircuit definition
.FOUR	compute fourier component
.FUNC	user defined functions
.FERRET	download a file from URL
.GLOBAL	declare global nodes
.IC	set initial conditions
.INCLUDE	include file
.LIB	include library
.LOADBIAS	load a previously solved DC solution
.MACHINE	arbitrary state machine
.MEASURE	evaluate user-defined electrical quantities
.MODEL	define a SPICE model
.NET	compute network parameters in .AC analysis
.NODESET	supply hints for initial DC solution
.OPTIONS	set simulator options
.PARAM	user-defined parameters
.SAVE	limit the quantity of saved data
.SAVEBIAS	save operating point to disk
.STEP	parameter sweeps
.SUBCKT	define a subcircuit
.TEMP	temperature sweeps
.ТЕХТ	user-defined string

write selected nodes to a .WAV file





SHORTCUTS

Schematic and Symbol Editing Modes Choose Mode then select component Exit mode: Press Esc or right-click 1 or Delete cut/delete or Ctrl X copy/duplicate* or Ctrl C move* ୬ unselected wires remain drag* $^{\circ}$ connected wires adjust exit current mode or right-click

Zoom and Grid

-	Z	oom in and out with scroll wheel or track pad pinch	ú
Cirl Z	⊕(Schematic zoom area (drag over area) zoom in (click on scheme) Waveform zoom area is default mode FS for previous zoom zoom in	
CtrlB	Q	zoom out	
Space	R	zoom to fit (schematic viewer)	Space
Ctrl E	R	zoom extents (waveform viewer)	
Ctrl G		toggle grid	

TRICKS

	Va				

	when clicking waveform label	É
click	add cursor and see measure	click
Alt click	highlight corresponding net in schematic	ℋclick
Ctrl click	integrate waveform	Ctrl click

Schematics

Concination					
-		Ú			
Alt click	component: plot instantaneous power wire: plot current	₩click			
hold Ctrl	draw wires at an angle	hold Shift			
Ctrl Alt Shift H	show hidden component values/text, e.g. parallel or series resistance and capacitance				
any text preceded by an underscore, e.g. "_FAULT" is displayed with an					

overbar, active low, signal

Place Component Modes*

-	Press Esc or right-click to exit place component mode				
R	\	resistor	R		
C	+	capacitor	C		
L	3	inductor			
D	\Rightarrow	diode	D		
G	\rightarrow	ground	G		
V		voltage	V		
S	.opo	spice directive right-click text field to open "Help me Edit" dialog	S		
T	Aа	text/comment	T		
F2	:D-	component	F2		
F3	2	draw wire	F3		
F4	P	label net	F4		
		bus tap	В		
*Dotato and Mirror					

Rotate and Mirror

		*enabled in place modes	É
CtrlR	Ēm	rotate	#R
Ctrl E	Ε̈́З	mirror	ЖE

Undo/Redo

Shadi no ao					
#		### Levels of Undo	ú		
F9	9	undo	F9 or \(\mathbb{Z} \)		
⊕F9 or Ctrl⊕Z	C	redo	介F9 or無介Z		

NUMBERS

Prefixes (Case Insensitive)

LTspice	Means	Value
Tort	tera	10 ¹²
G or g	giga	10 ⁹
meg	mega	10 ⁶
K or k	kilo	10 ³
M or m	milli	10 ⁻³
U or u	micro	10 ⁻⁶
N or n	nano	10 ⁻⁹
Porp	pico	10 ⁻¹²
Forf	femto	10 ⁻¹⁵

Constants

LTspice	Means
е	Euler's number
pi	π
k	Boltzmann constant
q	charge constant
true	1
false	0
mil	25.4×10 ⁻⁶ m

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