

Helpful Hot Keys

Important MAGIC VLSI hotkeys

Command	Key	Function
:extract		Extracts layout
:ext2sim		Converts extract to .sim
:ext2spice		Converts extract to .spice
:edit	e	Allows you edit cell
:label <i>name</i>		Labels node
:erase label		Erase label in selection
:getcell <i>name</i>		Inserts cells (must be same directory)
:drc why/check		Explains/checks DRC error

MAGIC Useful VLSI hotkeys

Command	Key	Function
delete	d	Erases all layers under
:box		Returns size
grid	g	Gives grid
move	m	Moves selection
clockwise	r	Rotates clockwise selection
select	s	Press multiple times to see connections over cursor.
copy	c	copy

Important IRSIM hotkeys

Command	Usage Example	Function
h	h <i>nodename</i>	Forces node high
l	l <i>nodename</i>	Forces node low
stepsize	stepsize <i>size</i>	Sets step size
w	w <i>nodename</i>	Makes node value be on watchlist
d	d	Displays all nodes on watchlist
s	s, s <i>number</i>	Runs simulation for 1 or more steps
vector	vector <i>name node1 node2 ...</i>	Creates vector with nodes
setvector	setvector <i>name XXX...</i>	Forces nodes in vector format (easier than setting each node individually)
clock	clock <i>vector 10 01</i>	Defines a vector as clock with given transition sequence. (e.g. 10 then 01, repeat)
c	c, c <i>number</i>	Runs simulation for 1 or more clock transitions
p	p, p <i>number</i>	Runs simulation for 1 or more clock cycles

This list of hotkeys is not exhaustive.
 We encourage you familiarize yourself with MAGIC/IRSIM documentation/commands.

Uses these websites for reference:

<http://opencircuitdesign.com/magic/userguide.html>

<http://opencircuitdesign.com/irsim/tutorial/tutorial.html>