MAGIC Tool Shortcut Keys

Short keys (Layout window)

G: To invoke grid in layout widow

Left mouse click To change the location of layout design box/pointer

Right mouse click To draw the rectangular structure for various requirements in layout Centre mouse click To fill up the rectangle with required material such as – poly, metal

U: undo Shift + U: redo

I: To select top most cell in window

F: For mirroring
Z: Zoom in
Shift + Z: Zoom out

A: To Select everything under the rectangular

Shift + A To add in already selected area
C: Copy after selection (using A)

E: Edit O: Open

4,8,6,2 To move the selected are in either direction

Important Commands (command window)

%drc find To find out DRC info %label <name> To label the terminals

%extract all To extract netlist in .exe format %ext2spice Conversion from .ext to .spice

%getcell <file.mag> To call a cell/design in another layout design

%load <file.mag> To open layout

x To see inside the called cell/design box

Frequently used DRC Rule (in Lambda):

Minimum size of contact:	4x4
Metal M1 and M2 minimum width:	3
Metal M3 minimum width	6
n-well/p-well minimum design	10
polysilicon minimum width	2
p-diffusion/n-diffusion minimum length	3
Minimum Separation between n-diff and p-diff	10
Minimum Separation between n-diff and n-well	5

VLSI Vocab:

DRC: Design Rule Check
PDK: Process Design Kit

Tapeout: Layout design is sent to foundry for fabrication Foundry: Fab labs, where fabrication is done at broad level

Technology: Generally Channel length of MOS (not always)/ Tech node/ feature size

GDS II: Graphic Data System II