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>_ LINUX ESSENTIALS

NAVIGATION

- `pwd` .... Current path
- `ls -lah` .... List all
- `cd <dir>` .... Enter dir
- `cd ..` .... Go up
- `cd -` .... Last dir
- `mkdir -p` .... Create folders

FILES

- `touch f` .... Create empty
- `cp a b` .... Copy file
- `cp -r` .... Copy dir
- `mv a b` .... Move/rename
- `rm f` .... Delete file
- `rm -r` .... Delete dir

VIEW / SEARCH

- `cat` .... Quick view
- `less` .... Scroll view
- `grep -R` .... Find text
- `find .` .... Find file

SYSTEM

- `htop` .... Processes
- `df -h` .... Disk space
- `du -sh` .... Folder size
- `chmod +x` .... Make exec

🔍 XSCHEM VIEW

ZOOM / NAV

- `f` .... Fit all
- `Shift` + `z` .... Zoom in
- `Ctrl` + `z` .... Zoom out
- `Arrows` .... Pan view

HIERARCHY

- `e` .... Descend sch
- `i` .... Descend sym
- `Ctrl` + `e` .... Return up

SIMULATION

- `s` .... Simulate
- `a` .... Cursor A
- `b` .... Cursor B
- `f` .... Graph fit

✏ XSCHEM EDIT

TOOLS

- `Ins` .... Insert part
- `w` .... Wire
- `Shift` + `w` .... Wire+snap
- `&` .... Join/break
- `t` .... Text
- `Alt` + `Shift` + `1` .... Wire label
- `Alt` + `1` .... Pin label

BASIC ACTIONS

- `m` .... Move
- `c` .... Copy
- `Del` .... Delete
- `Esc` .... Cancel
- `u` .... Undo
- `q` .... Properties

🪄 XSCHEM ADV

MANIPULATION

- `Shift` + `r` .... Rotate
- `Shift` + `f` .... Mirror
- `Shift` + `i` .... Ignore
- `Ctrl` + `4` .... Fix names

SYMBOLS

- `A` .... Make symbol
- `Alt` + `s` .... Reload sym

FILE

- `Ctrl` + `s` .... Save
- `Ctrl` + `o` .... Open

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✨ MAGIC VLSI

MOUSE ACTIONS

- ▸ Mid — Paint (on color)
- ▸ Mid — Erase (on void)

SELECTION

- `s` — Select net
- `S` — Select +
- `a` — Select box
- `A` — Select box +
- `C` — Clear

COMMANDS

- `t` — Move
- `c` — Copy
- `d` — Delete
- `u` — Undo
- `Ctrl` + `d` — Erase under

ZOOM / VIEW

- `z` — Zoom box
- `B` — Center box
- `v` — Fit all

👁 KLAYOUT NAV

ZOOM

- `F` — Fit all
- `Ctrl` + `F` — Fit select
- `Enter` — Zoom in
- `Shift` + `Enter` — Zoom out

HIERARCHY

- `Shift` + `F` — Full hier
- `E` — Descend
- `Ctrl` + `E` — Ascend
- `Shift` + `T` — New top

MOTION

- `Ctrl` + `R` — Redraw
- `Ctrl` + `G` — Goto pos

🛠 KLAYOUT TOOLS

TOOLBAR

- `Esc` — Cancel
- `M` — Move
- `R` — Ruler
- `B` — Box
- `X` — Text
- `I` — Instance
- `S` — Partial
- `P` — Path
- `Shift` + `P` — Polygon

LAYERS

- `1` — Show all
- `2` — Show sel
- `3` — Toggle
- `Shift` + `C` — Crosshair

📝 KLAYOUT EDIT

MANIPULATION

- `Q` — Properties
- `Del` — Delete
- `Ctrl` + `C` — Copy
- `Ctrl` + `X` — Cut
- `Ctrl` + `B` — Duplicate
- `Ctrl` + `Z` — Undo

FILE

- `Ctrl` + `N` — New
- `Ctrl` + `O` — Open
- `Ctrl` + `S` — Save
- `Ctrl` + `Shift` + `S` — Save as
- `Ctrl` + `Shift` + `R` — Reload
- `Ctrl` + `W` — Close