htop Interactive process viewer

Header CPU, memory, load meters → watch → **Process list** sort, filter, tag → act → **Action** kill, renice, strace →

CONCEPTS

Every F-key has a letter twin shown here as F5 / t. Use the letter when the terminal or multiplexer eats F-keys.

Search (F3) only moves the highlight; filter (F4) hides everything that does not match. To clear a filter, press F4 again, then Esc.

Changes made in the setup screen are saved to ~/.config/htop/htoprc when htop exits cleanly (override the path with $HTOPRC).

On macOS the F-keys usually need Fn; the letter keys avoid that.

NAVIGATE

Up / **Down**
Move the selection

PgUp / **PgDn**
Scroll one page

Home / **End**
Jump to first / last process

Left / **Right**
Scroll the list sideways

NAVIGATE (cont.)

Alt + **k** / **Alt** + **j**
Up / down, vim style

Tab / **Shift** + **Tab**
Next / previous screen tab

0-9
Jump to a PID by typing it

F1 / **h** / **?** Help screen

SEARCH AND FILTER

F3 / **/**
Incremental search in commands

F3
Next match while searching

Shift + **F3**
Previous match

F4 / ****
Filter processes by command

F4, › **Esc**
Clear the filter (after F4)

u
Show only one user's processes

K Hide kernel threads

H Hide user threads

SORT AND VIEW

F6 / **<** › **>**
Choose the sort column

I Invert the sort order

P Sort by CPU%

M Sort by memory

T Sort by time

N Sort by PID

F5 / **t** Toggle tree view

Plus / **Minus**
Expand / collapse a subtree

F
Follow the selected process

p
Toggle full program paths

Z Pause / resume updates

Ctrl + **L**
Redraw and recalculate

ACT ON PROCESSES

Space
Tag / untag a process

c
Tag a process and its children

U Untag everything

ACT ON PROCESSES (cont.)

F9 / **k**
Send a signal (menu)

F8 / **[**
Raise nice value (lower priority)

F7 / **]**
Lower nice value (higher priority)

a Set CPU affinity

s
Trace syscalls with strace

l List open files with lsof

w
Show wrapped command line

F10 / **q** Quit

SETUP

F2 / **S**
Open the setup screen

Keep the Command column last in the column list; it grows to fill the width.

COMMAND LINE

`htop -u <user>`
Only that user's processes

COMMAND LINE (cont.)

`htop -p <pid>,<pid>`
Only the given PIDs

`htop -t`
Start in tree view

`htop -s <column>`
Start sorted by a column

`htop -d <tenths>`
Update delay in tenths of a second

`htop -F <text>`
Start with a command filter

`htop --readonly`
Disable kill and renice

RECIPES

Find and kill a runaway process

```
htop
# P to sort by CPU, / to
search the command
# F9 (or k), pick SIGTERM;
use SIGKILL only if it
ignores that
```

Watch one service's process tree

```
htop -t -F nginx
# + / - fold subtrees, F
follows the selection
```

Inspect a hung process

```
htop -p <pid>
# s: live strace, l: open
files, x: file locks
```