htop Interactive process viewer

CONCEPTS

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

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

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

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

Alt + **h** / **Alt** + **l**
Scroll left / right, vim style

Ctrl + **A** / **Ctrl** + **E**
Scroll to line start / end

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

ACT ON PROCESSES

Space Tag / untag a process

c Tag a process and its children

U Untag everything

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

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

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

ACT ON PROCESSES (cont.)

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

`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
```