



UDB v6.1 command set  
Get more tips at [docs.undo.io](https://docs.undo.io)

## UDB Quick Reference

### Start Working

**\$> udb /path/to/program**

Start debugger, ready to record program

**\$> udb --args /path/to/program ARG1 ...**

Start debugger, ready to record program with arguments

**start**

(Re)start the program from the beginning and run until main()

**run** or shortcut **r**

(Re)start the program from the beginning and run until interrupted

**\$> udb /path/to/recording**

Start debugger and load a recording file for analysis

**\$> udb -p PID**

Start debugger and attach to existing process

### Deferred Recording

**\$> udb --undodb-defer-recording ...**

Use this flag to start without recording

**urecord**

Use this interactive command to begin recording when needed

### Navigation

**continue** or shortcut **c**

Forward to next break/watchpoint (if any)

**reverse-continue** or shortcut **rc**

Backward to next break/watchpoint (if any)

**next** or shortcut **n**

Forward one source line, stepping over functions

**reverse-next** or shortcut **rn**

Backward one source line, stepping over functions

**step** or shortcut **s**

Forward one source line, stepping into functions

**reverse-step** or shortcut **rs**

Backward one source line, stepping into functions

**stepi** or shortcut **si**

Forward one machine instruction

**reverse-stepi** or shortcut **rsi**

Backward one machine instruction

**finish** or shortcut **fin**

Forward until current function has returned

**reverse-finish** or shortcut **rf**

Backward until just before function was called

## Breakpoints

**break [LOC] [if COND]** or shortcut **b**

Stop each time LOC is reached [if COND true]

**watch VAR [if COND]**

Stop each time VAR changes [if COND true]

**delete N** or shortcut **d**

Delete break/watchpoint

**tbreak [LOC] [if COND]** or shortcut **tb**

Stop just next time LOC is reached [if COND true]

**disable N**

Temporarily disable break/watchpoint

**enable N** or shortcut **en**

Re-enable break/watchpoint

**dprintf [LOC,] FMT [,VALUES]**

Print FMT each time LOC is reached

## Inspecting State

**print EXPR** or shortcut **p**

Print the value of C expression EXPR

**display EXPR**

Print value of EXPR at each prompt

## Time Travel

**uinfo time**

Get the current debuggee time

**ugo time TIME**

Jump to specified time

**ugo start | end**

Jump to start / end of recorded history

**ubookmark NAME**

Create a bookmark at current debuggee time

**ugo bookmark NAME**

Jump to time corresponding to a named bookmark

**uinfo bookmarks [-a]**

List available bookmarks and their times

**uinfo execution-mode**

Query the current execution mode in an interactive session

## Recording Files

**uload RECORDING**

Load named recording for replay-mode debugging

**usave RECORDING**

Save recorded history to a file for later analysis