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UDB 7.2 Quick Reference

Interactive Debugging

\$ udb /path/to/program

Start UDB, ready to time-travel debug program

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

Start UDB, ready to time-travel debug program with arguments

\$ udb -p PID

Start UDB and attach to existing process with identifier PID

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

Working with LiveRecorder recordings

\$ udb /path/to/recording.undo

Start UDB and load a recording file for analysis

usave /path/to/recording.undo

Save recorded history to a recording file for later analysis

upload /path/to/recording.undo

Load a recording file for analysis

Breakpoints

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

Stop each time LOC is reached [if expression COND is true]

last [-f|-forward] [EXPR]

Jump to the last time when the value of EXPR was modified.

watch VAR [if COND]

Stop each time VAR changes [if expression COND is true]

delete N or shortcut **d**

Delete break/watchpoint

rbreak [REGEXP]

Stop each time a function matching REGEXP is reached

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

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

disable N or **enable N**

Disable or re-enable break/watchpoint

Inspecting State

print EXPR or shortcut **p**

Print the value of C expression EXPR

display EXPR

Print value of EXPR at each prompt

info locals [NAMEREGEXP]

Print all local variables, or those matching NAMEREGEXP

Interactive Debugging

continue or shortcut **c**

Continue the execution of the program

reverse-continue or shortcut **rc**

Execute program backward

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

Time Travel Navigation

info time

Get the current debuggee time

ugo time TIME

Jump to specified time

ugo start or **ugo end**

Jump to start or end of recorded history

ubookmark NAME

Create a bookmark at current debuggee time

ugo bookmark NAME

Jump to time corresponding to a named bookmark

info bookmarks

List available bookmarks and their times

ugo wallclock TIMESTAMP

Jump to time corresponding to a wall-clock time

Undo / Redo Navigation

ugo undo or shortcut **uu**

Undo the last navigation operation

ugo redo or shortcut **ur**

Reverse the effect of the ugo undo command