Quick Reference

Command parameters are in italics. Optional parameters are in square brackets. All commands can be abbreviated until they become ambiguous.

This list is very very incomplete, and only shows things talked about in this tutorial!

Help Commands

Get help on a certain command help command apropos keyword Search help for a particular keyword

Starting and Quitting

(Unix Command) Start gdb on an executable or standalone; specify "-tui" to start the TUI GUI; specify gdb [-tui] [-c core] [exename]

-c" with a corefile name to see where a crash occurred

run [arg1] [arg2] [...] Run the currently loaded program with the given command line arguments

quit Exit the debugger

Load an executable file by name file exename

Breakpoints and Watchpoints

break location Set a breakpoint at a location, line number, or file (e.g. "main", "5", or "hello.c:23")

watch expression Break when a variable is written to Break when a variable is read from rwatch expression

awatch expression Break when a variable is written to or read from

info break Display breakpoint and watchpoint information and numbers

info watch Same as info break

Clear a breakpoint from a location clear location

delete num Delete a breakpoint or watchpoint by number

Stepping and Running

next Run to the next line of this function

step Step into the function on this line, if possible

stepi Step a single assembly instruction

continue Keep running from here CTRL-C Stop running, wherever you are finish Run until the end of the current function

advance location Advance to a location, line number, or file (e.g. "somefunction", "5", or "hello.c:23")

jump location Just like continue, except jump to a particular location first.

Examining and Modifying Variables

Display the value of a variable or expression every step of the program—the expression must make display expression

sense in the current scope

info display Show a list of expressions currently being displayed and their numbers Stop showing an expression identified by its number (see info display) undisplay num

print expression Print the value of a variable or expression

printf formatstr expressionlist Do some formatted output with printf() e.g. printf "i = %d, p = %sn", i, p

Set a variable to value, e.g. set variable x=20 set variable expression

set (expression) Works like set variable

Window Commands

info win Shows current window info

Set focus to a particular window bby name ("SRC", "CMD", "ASM", or "REG") or by position ("next" or focus winname

"prev")

fs Alias for focus

layout type Set the window layout ("src", "asm", "split", or "reg")

tui reg type Set the register window layout ("general", "float", "system", or "next")

winheight val Set the window height (either an absolute value, or a relative value prefaced with "+" or "-")

Alias for winheight

set disassembly-flavor flavor Set the look-and-feel of the disassembly. On Intel machines, valid flavors are intel and att

Misc Commands

RETURN Hit RETURN to repeat the last command

backtrace Show the current stack bt Alias for backtrace

attach pid Attach to an already-running process by its PID

info registers Dump integer registers to screen info all-registers Dump all registers to screen

1/1 https://beej.us/guide/bggdb/