

GDB Reference Sheet

(Original source: <http://beej.us/guide/bggdb/#qref>)

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

Starting and Quitting	
gdb [-tui] [-c core] [exename]	(Unix Command) Start gdb on an executable or standalone; specify "-tui" to start the TUI GUI; specify "-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
file exename	Load an executable file by name

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
rwatch expression	Break when a variable is read from
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 location	Clear a breakpoint from a 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.

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Examining and Modifying Variables	
display <i>expression</i>	Display the value of a variable or expression every step of the program—the expression must make sense in the current scope
info display	Show a list of expressions currently being displayed and their numbers
undisplay <i>num</i>	Stop showing an expression identified by its number (see info display)
print <i>expression</i>	Print the value of a variable or expression
printf <i>formatstr expressionlist</i>	Do some formatted output with printf() e.g. <code>printf "i = %d, p = %s\n", i, p</code>
set variable <i>expression</i>	Set a variable to value, e.g. <code>set variable x=20</code>
set (<i>expression</i>)	Works like set variable

Window Commands	
info win	Shows current window info
focus <i>winname</i>	Set focus to a particular window by name ("SRC", "CMD", "ASM", or "REG") or by position ("next" or "prev")
fs	Alias for focus
layout <i>type</i>	Set the window layout ("src", "asm", "split", or "reg")
tui reg <i>type</i>	Set the register window layout ("general", "float", "system", or "next")
winheight <i>val</i>	Set the window height (either an absolute value, or a relative value prefaced with "+" or "-")
wh	Alias for winheight
set disassembly-flavor <i>flavor</i>	Set the look-and-feel of the disassembly. On Intel machines, valid flavors are intel and att

Miscellaneous Commands	
RETURN	Hit RETURN to repeat the last command
backtrace	Show the current stack
bt	Alias for backtrace
attach <i>pid</i>	Attach to an already-running process by its PID
info registers	Dump integer registers to screen
info all-registers	Dump all registers to screen