

## Commonly used gdb commands

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gdb also understands abbreviations of commands, so you can just type up to the unique part of a command name ("cont" for "continue", or "p" for "print")

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help                # List classes of all gdb commands
help <topic>        # Shows help available for topic or command

where (or bt)       # Shows stack: sequence of function calls executed so far
                    # (good for pinpointing location of a program crash)

frame               # Shows all stack frames
frame <frame-num>   # Sets current stack frame to <frame-num>
                    # (useful for checking parameter and argument values)

run                 # Starts program execution from the beginning

break <line>         # Sets breakpoint at line number <line>
break <func-name>    # Sets breakpoint at beginning of named function
continue            # Continues execution from breakpoint

condition <bp-num> <exp> # Set breakpoint <bp-num> to
                        # break only when <exp> is true

info break           # Shows current breakpoints
disable [breakpoints] # [bnums ...] Disable one or more breakpoints
enable [breakpoints] # [bnums ...] Enable one or more breakpoints
clear <line>         # Clears breakpoint at line number <line>
delete <bp-num>      # Deletes breakpoint number <bp-num>
delete               # Deletes all breakpoints

step (or s)         # Executes next line of program (stepping into functions)
step <count>         # Executes next <count> lines of program
next (or n)         # Like step, but treats a function call as a single instr
until <line>         # Executes program until line number <line>

print <exp> (or inspect <exp> # Displays the value of expression <exp>
display <exp>              # Automatic display of <exp> each time a breakpt hit
whatis <exp>                # Shows data type of expression <exp>
info locals                 # Shows local variables in current stack frame
set variable <variable> = <exp> # Sets variable <variable> to expression <exp>

list                # Lists next few lines of program
list <line>          # Lists lines around line number <line> of program
list <start> <end>    # Lists line numbers <start> through <end>
list <func-name>      # Lists lines at beginning of function <func-name>

help status          # lists a bunch of info X commands, including:
info frame           # list information about the current stack frame
info locals          # list local variable values of current stack frame
info args            # list argument values of current stack frame
info registers        # list register values

quit                 # quits gdb

```