

Quick Reference Guide to gdb

Common gdb commands:

run	-- run the program
run args	-- run program with command line args.
break function	-- set breakpoint at function entry
break linenum	-- set breakpoint at line
break *addr	-- set breakpoint at address
break ... if cond	-- set breakpoint; break if condition
clear funct	-- remove breakpoint at function entry
delete bnum	-- delete breakpoint bnum
disable bnum	-- disable breakpoint bnum
enable bnum	-- enable breakpoint bnum
condition bnum	-- set conditions for breakpoint bnum
commands bnum	-- set commands for breakpoint bnum
cont	-- continue execution to next break point
next	-- step next source level statement or function
nexti	-- step next machine instruction or function
step	-- step next source level statement
stepi	-- step next machine instruction
print expr	-- print value of expression including \$n for machine registers
print/f expr	-- print value of expression according to format specified by f: x hexadecimal, d decimal, u unsigned decimal, o octal, a address, c character, f single precision floating point.
x/sf addr	-- Examine memory of size s bytes in format f: s = b one byte, s = h halfword, s = w word, s = g double word; x hexadecimal, d decimal, u unsigned decimal, o octal, a address, c character, f single precision floating point, s ascii string, I machine instruction
display/f expr	-- p/sf, print every gdb command
display/sf expr	-- x/sf, examine every gdb command
undisplay n	-- remove item n from display list.
jump *addr	-- execute next instruction at address addr.
printf string, expr	-- formatted output, similar to printf in C but without the parentheses surrounding the arguments.
info data	-- information about break, display, registers, functions, variables
list	-- list ten source lines
where	-- show call stack
q	-- exit gdb

Note: pressing return repeats the last command.