Cheatography

GDB Cheat Sheet

by deoxys314 via cheatography.com/27911/cs/36597/

Command line

gdb [executable]	begin debugging of [executable]
gdb -p [PID]	attach to and debug [PID]
gdb -ex [commands...]	execute [commands] on startup
gdb --args [executable] [arguments...]	begin debugging of [executable] with [arguments]

Breakpoints

break, b [linenum]	set a breakpoint at [linenum]
break if [condition]	set breakpoint here if [condition] is met
break [code location] if [condition]	set breakpoint at [code location] if [condition] is met
info breakpoints	list all breakpoints and their numbers and location
clear	delete all breakpoints
delete [breakpoint num]	delete [breakpoint num]
enable [breakpoint num]	enable [breakpoint num]
disable [breakpoint num]	disable [breakpoint num]

[code location] can be a number, for a line in the main file being debugged, or *filename:linenum*, *function*, or *filename:function*.

Executing

run	run the loaded program
run [args...]	run the loaded program with [args]
next	next line of source code
step	same a next but will dive into function calls
finish	continue until return instruction
continue	continue until next breakpoint

Examining Code

backtrace	show a backtrace
where	show the current call stack
print [variable]	print a representation of variable
display [variable]	same as print but will execute after each step instruction
print/[format] [variable]	print [variable] as [format]
display/[format] [variable]	display [variable] as [format]

Print and display can also show almost any C style expression.

Format

a	pointer
c	character
d	signed int
u	unsigned int
f	floating point number
o	octal
x	hexadecimal

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