

Handy GDB Commands! (by Rose Cao)

To begin, type one of the following into the command line:

`gdb <executable>` - where <executable> is the program

`gdb <executable> core` - to see a snapshot of the program when it segfaulted

`gdbtui <executable>` - to see the source code too

Nifty gdb commands:

`break main` - sets a breakpoint at `main()`, right before entering the program

`break <function_name>` - sets a breakpoint right before executing the function

`break <line#>` - sets a break right before line# gets executed

`info break` - lists all the breakpoints

`delete <#>` - deletes breakpoint numbered <#>

`clear <function_name>` - deletes breakpoint at <function_name>

`run` - runs the program, stopping when it hits a breakpoint

`run <argv[1]>` - runs the program with a command line argument, can have more than one

`next` - goes to next line, skipping functions it might encounter

`next <#>` - goes down <#> lines, skipping encountered functions

`step` - goes to the next line, steps "into" a function

`step <#>` - goes down <#> steps

`continue` - continues executing code until it hits a breakpoint or exits

`continue <#>` - continues past current breakpoint <#> times

`list` - spits out lines of code above and below where the program is currently (stopped) at

`print <var_name>` - prints the value of a variable

`print/x <var_name>` - prints the value of a variable, but in hex

`x <var_name>` - examines <var_name>, like the print command

`x/s <var_name>` - examines <var_name> displayed as a string

`backtrace` - shows a list of running functions

`help` - for help on gdb commands

`kill` - stops the program being executed

`quit` - quit/exit gdb

Typing Shortcuts:

`b` = break

`i` = info

`d` = delete

`r` = run

`s` = step

`n` = next

`c` = continue

`l` = list

`p` = print

`bt` = backtrace

`k` = kill

`q` = quit

(Blue font means it's important and you'll probably use it often. ☺)