CodeQuestHub.io - GDB Cheat Sheet

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Starting / Stopping / Attaching	Printing / Inspecting State			Stack Traces and Info		
gdb <pre>program> - Start GDB with a program</pre>	print <expr> - Evaluate and print expression</expr>			backtrace - Show call stack		
gdb -p <pid>- Attach to a running process</pid>	displa	y <expr> - Display expre</expr>	ession on every loop	where - Alias for backtrace		
gdb <pre>core> - Load a core dump</pre>	info locals - Show local variables			frame <n> - Select stack frame</n>		
attach <pid> - Attach to a PID</pid>	info args - Show function arguments			up / down - Move up/down one frame		
set args <args>-Set program arguments</args>	info registers - Show CPU registers			info threads - Show threads		
run - Run the program	x/ <format> <address>-Examine memory</address></format>			info breakpoints - Show breakpoints		
start - Run until main()	set var <var>=<value> - Set a variable value</value></var>			info files - Show loaded files		
kill - Send the kill signal	disassemble - Disassemble a function			info sharedlibrary-List loaded shared libraries		
detach - Detach from the process	info variables - Show global and static variables			whatis <var> - Show type of variable</var>		
Breakpoints / Navigation	Reverse Debugging			Signals		
break <function> - Set breakpoint at function</function>	record - Start recording execution			info signals - List all signals and handling		
break <file>:<line> - Set breakpoint at file:line</line></file>	record stop-Stop recording			handle <signal> <actions> - Set signal handling</actions></signal>		
tbreak <function>-Temporary breakpoint</function>	reverse-stepi - Step backward one instruction			signal <signal> - Deliver signal manually</signal>		
delete <n> - Delete breakpoint number n</n>	revers	e-continue - Continue k	packward to breakpoint	catch <signal>-Break when a signal is rais</signal>	sed	
disable <n> - Disable breakpoint number n</n>		Mer	nory Display (x Comm	and) Format and Examples		
enable <n> - Enable breakpoint number n</n>	b	Byte (1 byte)	x/4xb \$esp	4 bytes at stack pointer, hex		
continue - Continue running after breakpoint	h	Half word (2 bytes)	x/8xh \$esp	8 half words at stack pointer, hex		
step - Step into function call	W	Word (4 bytes)	x/2xw 0x61050	2 words at address 0x61050, hex		
next - Step over function call	g	Giant word (8 bytes)	x/1xg \$rbp	1 giant word at frame pointer, hex		
finish - Run until current function returns	С	Char	x/10cb \$esp	10 bytes at stack pointer, as chars		
watch <expr> - Break when expression written</expr>	d	Signed decimal	x/6dw 0x400600	6 words as signed decimals		
rwatch <expr> - Break when expression read</expr>	u	Unsigned decimal	x/4uw \$esp	4 words as unsigned decimals		
awatch <expr> - Break when expression accessed</expr>	X	Hexadecimal	x/4xw \$esp	4 words as hex		
break <loc> if <cond> - Conditional breakpoint</cond></loc>	0	Octal	x/4ow \$esp	4 words as octal		
condition <n> <expr> - Set condition on breakpoint</expr></n>	t	Binary	x/5tb \$esp	5 bytes as binary	1	
commands <n> - Set commands to run at breakpoint n</n>	S	C String	x/s 0x601000	View memory as C string		
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