The LLDB Debugger

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GDB TO LLDB COMMAND MAP

Attach to a process named "a.out".

Wait for a process named "a.out" to launch and attach.

(gdb) attach a.out

w is a table of GDB commands with the LLDB counterparts. The built in GDB-compatibility anases in LLDB are also listed. The full Ildb command names are often long, but any unique short form can be used. Instead of "breakpoint set", "br se" is also acceptable.

	EXECUTION COMMANDS	7
	GDB	LLDB
	Launch a process no arguments.	
	(gdb) run (gdb) r	(IIdb) process launch (IIdb) run (IIdb) r
	Launch a process with arguments <args>.</args>	
	(gdb) run <args> (gdb) r <args></args></args>	(lldb) process launch <args> (lldb) r <args></args></args>
	Launch a process for with arguments a.out 1 2 3 with	nout having to supply the args every time.
	% gdbargs a.out 1 2 3 (gdb) run	% lldb a.out 1 2 3 (lldb) run
	(gdb) run	(lldb) run
	Or:	
	(gdb) set args 1 2 3 (gdb) run	(IIdb) settings set target.run-args 1 2 3 (IIdb) run
	(gdb) run	(lldb) run
	Launch a process with arguments in new terminal wind	ow (Mac OS X only).
		(IIdb) process launchtty <args> (IIdb) pro la -t <args></args></args>
	Launch a process with arguments in existing terminal /	dev/ttys006 (Mac OS X only).
		(IIdb) process launchtty=/dev/ttys006 <args> (IIdb) pro la -t/dev/ttys006 <args></args></args>
	Set environment variables for process before launching).
	(gdb) set env DEBUG 1	(IIdb) settings set target.env-vars DEBUG=1 (IIdb) set se target.env-vars DEBUG=1 (IIdb) env DEBUG=1
	Unset environment variables for process before launchi	ng.
	(gdb) unset env DEBUG	(Ildb) settings remove target.env-vars DEBUG (Ildb) set rem target.env-vars DEBUG
Show the arguments that will be or were passed to the program when run.		
	(gdb) show args Argument list to give program being debugged when it is started is "1 2 3".	(IIdb) settings show target.run-args target.run-args (array of strings) = [0]: "1" [1]: "2" [2]: "3"
	Set environment variables for process and launch process	ess in one command.
		(IIdb) process launch -v DEBUG=1
	Attach to a process with process ID 123.	
	(gdb) attach 123	(Ildb) process attachpid 123 (Ildb) attach -p 123
	Attach to a precess named "a cut"	

(IIdb) process attach --name a.out

(IIdb) pro at -n a.out

(gdb) attach -waitfor a.out	(Ildb) process attachname a.outwaitfor (Ildb) pro at -n a.out -w
Attach to a remote gdb protocol server running on system "eorgadd", port 8000.	
(gdb) target remote eorgadd:8000	(IIdb) gdb-remote eorgadd:8000
Attach to a remote gdb protocol server running of	on the local system, port 8000.
(gdb) target remote localhost:8000	(IIdb) gdb-remote 8000
Attach to a Darwin kernel in kdp mode on syster	m "eorgadd".
(gdb) kdp-reattach eorgadd	(IIdb) kdp-remote eorgadd
Do a source level single step in the currently sele	ected thread.
(gdb) step (gdb) s	(IIdb) thread step-in (IIdb) step (IIdb) s
Do a source level single step over in the currentle	y selected thread.
(gdb) next (gdb) n	(IIdb) thread step-over (IIdb) next (IIdb) n
Do an instruction level single step in the current	y selected thread.
(gdb) stepi (gdb) si	(IIdb) thread step-inst (IIdb) si
Do an instruction level single step over in the cu	rrently selected thread.
(gdb) nexti (gdb) ni	(Ildb) thread step-inst-over (Ildb) ni
Step out of the currently selected frame.	
(gdb) finish	(Ildb) thread step-out (Ildb) finish
Return immediately from the currently selected t	frame, with an optional return value.
(gdb) return <return expression=""></return>	(IIdb) thread return <return expression=""></return>
Backtrace and disassemble every time you stop.	
	(IIdb) target stop-hook add Enter your stop hook command(s). Type 'DONE' to end. > bt > disassemblepc > DONE Stop hook #1 added.
Run until we hit line 12 or control leaves the current function.	
(gdb) until 12	(Ildb) thread until 12

BREAKPOINT COMMANDS

(gdb) break -[NSString stringWithFormat:]

GDB	LLDB
Set a breakpoint at all functions named main .	
(gdb) break main	(IIdb) breakpoint setname main (IIdb) br s -n main (IIdb) b main
Set a breakpoint in file test.c at line 12 .	
(gdb) break test.c:12	(IIdb) breakpoint setfile test.cline 12 (IIdb) br s -f test.c -l 12 (IIdb) b test.c:12
Set a breakpoint at all C++ methods whose basename is main .	
(gdb) break main (Hope that there are no C functions named main).	(IIdb) breakpoint setmethod main (IIdb) br s -M main
Set a breakpoint at and object C function: -[NSStrin	g stringWithFormat:1.

(IIdb) breakpoint set --name "-[NSString

	stringWithFormat:]" (IIdb) b -[NSString stringWithFormat:]	
Set a breakpoint at all Objective C methods whose sele	et a breakpoint at all Objective C methods whose selector is count .	
(gdb) break count (Hope that there are no C or C++ functions named count).	(IIdb) breakpoint setselector count (IIdb) br s -S count	
Set a breakpoint by regular expression on function nar	ne.	
(gdb) rbreak regular-expression	(IIdb) breakpoint setfunc-regex regular-expression (IIdb) br s -r regular-expression	
Ensure that breakpoints by file and line work for #included .c/.cpp/.m files.		
(gdb) b foo.c:12	(IIdb) settings set target.inline-breakpoint-strategy always (IIdb) br s -f foo.c -l 12	
Set a breakpoint by regular expression on source file contents.		
(gdb) shell grep -e -n pattern source-file (gdb) break source-file:CopyLineNumbers	(IIdb) breakpoint setsource-pattern regular- expressionfile SourceFile (IIdb) br s -p regular-expression -f file	
Set a conditional breakpoint		
(gdb) break foo if strcmp(y,"hello") == 0	(IIdb) breakpoint setname foocondition '(int)strcmp(y,"hello") == 0' (IIdb) br s -n foo -c '(int)strcmp(y,"hello") == 0'	
List all breakpoints.		
(gdb) info break	(IIdb) breakpoint list (IIdb) br I	
Delete a breakpoint.		
(gdb) delete 1	(IIdb) breakpoint delete 1 (IIdb) br del 1	

WATCHPOINT COMMANDS

GDB	LLDB
Set a watchpoint on a variable when it is written to.	
(gdb) watch global_var	(IIdb) watchpoint set variable global_var (IIdb) wa s v global_var
Set a watchpoint on a memory location when it is writt the pointer size if no '-x byte_size' is specified. This co returning an unsigned integer pointing to the start of t	mmand takes raw input, evaluated as an expression
(gdb) watch -location g_char_ptr	(IIdb) watchpoint set expression my_ptr (IIdb) wa s e my_ptr
Set a condition on a watchpoint.	
	(IIdb) watch set var global (IIdb) watchpoint modify -c '(global==5)' (IIdb) c
	(IIdb) bt * thread #1: tid = 0x1c03, 0x0000000100000ef5 a.out`modify + 21 at main.cpp:16, stop reason = watchpoint 1 frame #0: 0x0000000100000ef5 a.out`modify + 21 at main.cpp:16 frame #1: 0x0000000100000eac a.out`main + 108 at main.cpp:25 frame #2: 0x00007fff8ac9c7e1 libdyld.dylib`start + 1 (IIdb) frame var global (int32_t) global = 5
List all watchpoints.	
(gdb) info break	(IIdb) watchpoint list (IIdb) watch I
Delete a watchpoint.	
(gdb) delete 1	(IIdb) watchpoint delete 1 (IIdb) watch del 1

EXAMINING VARIABLES

GDB	LLDB	
Show the arguments and local variables for the current	t frame.	
(gdb) info args and (gdb) info locals	(IIdb) frame variable (IIdb) fr v	
Show the local variables for the current frame.		
(gdb) info locals	(IIdb) frame variableno-args (IIdb) fr v -a	
Show the contents of local variable "bar".		
(gdb) p bar	(IIdb) frame variable bar (IIdb) fr v bar (IIdb) p bar	
Show the contents of local variable "bar" formatted as	hex.	
(gdb) p/x bar	(IIdb) frame variableformat x bar (IIdb) fr v -f x bar	
Show the contents of global variable "baz".		
(gdb) p baz	(IIdb) target variable baz (IIdb) ta v baz	
Show the global/static variables defined in the current source file.		
n/a	(IIdb) target variable (IIdb) ta v	
Display the variables "argc" and "argv" every time you	stop.	
(gdb) display argc (gdb) display argv	(IIdb) target stop-hook addone-liner "frame variable argc argv" (IIdb) ta st a -o "fr v argc argv" (IIdb) display argc (IIdb) display argv	
Display the variables "argc" and "argv" only when you stop in the function named main .		
	(IIdb) target stop-hook addname mainone-liner "frame variable argc argv" (IIdb) ta st a -n main -o "fr v argc argv"	
Display the variable "*this" only when you stop in c class named MyClass .		
	(IIdb) target stop-hook addclassname MyClass one-liner "frame variable *this" (IIdb) ta st a -c MyClass -o "fr v *this"	
EVALUATING EVERECCIONS		

EVALUATING EXPRESSIONS

Evaluating a generalized expression in the current frame. (gdb) print (int) printf ("Print nine: %d.", 4 + 5) or if you don't want to see void returns: (gdb) call (int) printf ("Print nine: %d.", 4 + 5) or using the print alias: (Ildb) print (int) printf ("Print nine: %d.", 4 + 5) or using the print alias: (Ildb) print (int) printf ("Print nine: %d.", 4 + 5) Creating and assigning a value to a convenience variable. (gdb) set \$foo = 5 (gdb) set variable \$foo = 5 or using the print command (gdb) print \$foo = 5 or using the call command (gdb) print \$foo = 5 or using the call command (gdb) set \$foo = (unsigned int) 5 Printing the ObjC "description" of an object. (gdb) po [SomeClass returnAnObject] (Ildb) expr -o [SomeClass returnAnObject] or using the po alias: (Ildb) po [SomeClass returnAnObject] (gdb) set print object 1 (gdb) ps someCPPObjectPtrOrReference only works for C++ objects. (gdb) set unwindonsignal 0 (Ildb) expr -i 0 function_with_a_breakpoint() (Ildb) expr -i 0 function_with_a_breakpoint()			
(gdb) print (int) printf ("Print nine: %d.", 4 + 5) or if you don't want to see void returns: (gdb) call (int) printf ("Print nine: %d.", 4 + 5) or using the print alias: (Ildb) print (int) printf ("Print nine: %d.", 4 + 5) or using the print alias: (Ildb) print (int) printf ("Print nine: %d.", 4 + 5) Creating and assigning a value to a convenience variable. (gdb) set \$foo = 5 (gdb) set variable \$foo = 5 or using the print command (gdb) print \$foo = 5 or using the print command (gdb) call \$foo = 5 and if you want to specify the type of the variable: (gdb) set \$foo = (unsigned int) 5 Printing the ObjC "description" of an object. (gdb) po [SomeClass returnAnObject] (Ildb) expr -0 [SomeClass returnAnObject] or using the po alias: (Ildb) po [SomeClass returnAnObject] Print the dynamic type of the result of an expression. (gdb) set print object 1 (Ildb) expr -d 1 [SomeClass returnAnObject] (Ildb) expr -d 1 someCPPObjectPtrOrReference or set dynamic type printing to be the default: (Ildb) settings set target.prefer-dynamic run-target Calling a function so you can stop at a breakpoint in the function. (gdb) set unwindonsignal 0 (Ildb) expr -i 0 function_with_a_breakpoint()	GDB	LLDB	
or if you don't want to see void returns: (gdb) call (int) printf ("Print nine: %d.", 4 + 5) Creating and assigning a value to a convenience variable. (gdb) set \$foo = 5 (gdb) set variable \$foo = 5 or using the print command (gdb) print \$foo = 5 or using the print command (gdb) print \$foo = 5 or using the print command (gdb) call \$foo = 5 or using the call command (gdb) set \$foo = 5 or using the call command (gdb) set \$foo = 5 or using the call command (gdb) set \$foo = 5 or using the call command (gdb) set \$foo = 5 or using the Coll command (gdb) po [SomeClass returnAnObject] (gdb) po [SomeClass returnAnObject] (Ildb) expr -0 [SomeClass returnAnObject] (gdb) po [SomeClass returnAnObject] (gdb) po [SomeClass returnAnObject] (gdb) set print object 1 (gdb) po someCpPObjectPtrOrReference only works for C++ objects. (Ildb) expr -d 1 [SomeClass returnAnObject] (Ildb) expr -d 1 someCpPObjectPtrOrReference or set dynamic type printing to be the default: (Ildb) settings set target. prefer-dynamic run-target Calling a function so you can stop at a breakpoint in the function. (gdb) set unwindonsignal 0 (Ildb) expr -i 0 function_with_a_breakpoint()	Evaluating a generalized expression in the current frame.		
(gdb) set \$foo = 5 (gdb) set variable \$foo = 5 or using the print command (gdb) print \$foo = 5 or using the call command (gdb) call \$foo = 5 and if you want to specify the type of the variable: (gdb) set \$foo = (unsigned int) 5 Printing the ObjC "description" of an object. (gdb) po [SomeClass returnAnObject] Print the dynamic type of the result of an expression. (gdb) set print object 1 (gdb) po someCPPObjectPtrOrReference only works for C++ objects. (gdb) set unwindonsignal 0 In Ildb you evaluate a variable declaration expression as you would write it in C: (Ildb) expr unsigned int \$foo = 5 (Ildb) expr -o [SomeClass returnAnObject] or using the po alias: (Ildb) expr -o [SomeClass returnAnObject] (Ildb) expr -d 1 [SomeClass returnAnObject] (Ildb) expr -d 1 someCPPObjectPtrOrReference or set dynamic type printing to be the default: (Ildb) settings set target.prefer-dynamic run-target Calling a function so you can stop at a breakpoint in the function. (gdb) set unwindonsignal 0 (Ildb) expr -i 0 function_with_a_breakpoint()	or if you don't want to see void returns:	or using the print alias:	
as you would write it in C: or using the print command (gdb) print \$foo = 5 or using the call command (gdb) call \$foo = 5 and if you want to specify the type of the variable: (gdb) set \$foo = (unsigned int) 5 Printing the ObjC "description" of an object. (gdb) po [SomeClass returnAnObject] Print the dynamic type of the result of an expression. (gdb) set print object 1 (gdb) po someCPPObjectPtrOrReference only works for C++ objects. (gdb) set unwindonsignal 0 as you would write it in C: (Ildb) expr unsigned int \$foo = 5 (Ildb) expr unsigned int \$foo = 5 (Ildb) expr -o [SomeClass returnAnObject] (Ildb) expr -o [SomeClass returnAnObject] (Ildb) expr -o [SomeClass returnAnObject] (Ildb) expr -d 1 [SomeClass returnAnObject] (Ildb) expr -d 1 [SomeClass returnAnObject] (Ildb) expr -d 1 someCPPObjectPtrOrReference or set dynamic type printing to be the default: (Ildb) settings set target.prefer-dynamic run-target (Ildb) expr -i 0 function_with_a_breakpoint()	Creating and assigning a value to a convenience variable.		
(gdb) po [SomeClass returnAnObject] (lldb) expr -o [SomeClass returnAnObject] or using the po alias: (lldb) po [SomeClass returnAnObject] Print the dynamic type of the result of an expression. (gdb) set print object 1 (gdb) p someCPPObjectPtrOrReference only works for C++ objects. (lldb) expr -d 1 [SomeClass returnAnObject] (lldb) expr -d 1 someCPPObjectPtrOrReference or set dynamic type printing to be the default: (lldb) settings set target.prefer-dynamic run-target Calling a function so you can stop at a breakpoint in the function. (gdb) set unwindonsignal 0 (lldb) expr -i 0 function_with_a_breakpoint()	(gdb) set variable \$foo = 5 or using the print command (gdb) print \$foo = 5 or using the call command (gdb) call \$foo = 5 and if you want to specify the type of the variable:	as you would write it in C:	
or using the po alias: (IIdb) po [SomeClass returnAnObject] Print the dynamic type of the result of an expression. (gdb) set print object 1 (gdb) p someCPPObjectPtrOrReference only works for C++ objects. (IIdb) expr -d 1 [SomeClass returnAnObject] (IIdb) expr -d 1 someCPPObjectPtrOrReference or set dynamic type printing to be the default: (IIdb) settings set target.prefer-dynamic run-target Calling a function so you can stop at a breakpoint in the function. (gdb) set unwindonsignal 0 (IIdb) expr -i 0 function_with_a_breakpoint()	Printing the ObjC "description" of an object.		
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(gdb) p someCPPObjectPtrOrReference only works for C++ objects. (lldb) expr -d 1 someCPPObjectPtrOrReference or set dynamic type printing to be the default: (lldb) settings set target.prefer-dynamic run-target Calling a function so you can stop at a breakpoint in the function. (gdb) set unwindonsignal 0 (lldb) expr -i 0 function_with_a_breakpoint()	Print the dynamic type of the result of an expression.		
(gdb) set unwindonsignal 0 (lldb) expr -i 0 function_with_a_breakpoint()	(gdb) p someCPPObjectPtrOrReference	(IIdb) expr -d 1 someCPPObjectPtrOrReference or set dynamic type printing to be the default: (IIdb)	
	Calling a function so you can stop at a breakpoint in the function.		
		(IIdb) expr -i 0 function_with_a_breakpoint()	

Calling a function that crashes, and stopping when the function crashes.

(gdb) set unwindonsignal 0
(gdb) p function_which_crashes()

(Ildb) expr -u 0 -- function_which_crashes()

EXAMINING THREAD STATE

GDB	LLDB
Show the stack backtrace for the current thread.	
(gdb) bt	(Ildb) thread backtrace (Ildb) bt
Show the stack backtraces for all threads.	
(gdb) thread apply all bt	(IIdb) thread backtrace all (IIdb) bt all
Backtrace the first five frames of the current thread.	
(gdb) bt 5	(IIdb) thread backtrace -c 5 (IIdb) bt 5 (IIdb-169 and later) (IIdb) bt -c 5 (IIdb-168 and earlier)
Select a different stack frame by index for the current	thread.
(gdb) frame 12	(IIdb) frame select 12 (IIdb) fr s 12 (IIdb) f 12
List information about the currently selected frame in t	he current thread.
	(IIdb) frame info
Select the stack frame that called the current stack fra	me.
(gdb) up	(IIdb) up (IIdb) frame selectrelative=1
Select the stack frame that is called by the current stack	ck frame.
(gdb) down	(IIdb) down (IIdb) frame selectrelative=-1 (IIdb) fr s -r-1
Select a different stack frame using a relative offset.	
(gdb) up 2 (gdb) down 3	(IIdb) frame selectrelative 2 (IIdb) fr s -r2
	(IIdb) frame selectrelative -3 (IIdb) fr s -r-3
Show the general purpose registers for the current three	ead.
(gdb) info registers	(Ildb) register read
Write a new decimal value '123' to the current thread r	egister 'rax'.
(gdb) p \$rax = 123	(IIdb) register write rax 123
Skip 8 bytes ahead of the current program counter (insevaluate an expression and insert the scalar result in L	struction pointer). Note that we use backticks to LDB.
(gdb) jump *\$pc+8	(IIdb) register write pc `\$pc+8`
Show the general purpose registers for the current three the same format characters as printf(3) when possible specifiers.	
	(Ildb) register readformat i (Ildb) re r -f i
	LLDB now supports the GDB shorthand format syntax but there can't be space after the command: (IIdb) register read/d
Show all registers in all register sets for the current thread.	
(gdb) info all-registers	(IIdb) register readall (IIdb) re r -a

Show the values for the registers named "rax", "rsp" and "rbp" in the current thread.

Show the values for the register named "rax" in t	the current thread formatted as binary .
(gdb) p/t \$rax	(IIdb) register readformat binary rax (IIdb) re r -f b rax
	LLDB now supports the GDB shorthand format synt but there can't be space after the command: (Ildb) register read/t rax (Ildb) p/t \$rax
Read memory from address 0xbffff3c0 and show	4 hex uint32_t values.
(gdb) x/4xw 0xbffff3c0	(IIdb) memory readsize 4format xcount 4 0xbffff3c0 (IIdb) me r -s4 -fx -c4 0xbffff3c0 (IIdb) x -s4 -fx -c4 0xbffff3c0
	LLDB now supports the GDB shorthand format syntabut there can't be space after the command: (Ildb) memory read/4xw 0xbffff3c0 (Ildb) x/4xw 0xbffff3c0 (Ildb) memory readgdb-format 4xw 0xbffff3c0
Read memory starting at the expression "argv[0]]".
(gdb) x argv[0]	(IIdb) memory read `argv[0]` NOTE: any command can inline a scalar expression result (as long as the target is stopped) using backticks around any expression: (IIdb) memory readsize `sizeof(int)` `argv[0]`
Read 512 bytes of memory from address 0xbffff3	3c0 and save results to a local file as text .
(gdb) set logging on (gdb) set logging file /tmp/mem.txt (gdb) x/512bx 0xbffff3c0 (gdb) set logging off	(IIdb) memory readoutfile /tmp/mem.txtcount 512 0xbffff3c0 (IIdb) me r -o/tmp/mem.txt -c512 0xbffff3c0 (IIdb) x/512bx -o/tmp/mem.txt 0xbffff3c0
Save binary memory data starting at 0x1000 and	d ending at 0x2000 to a file.
(gdb) dump memory /tmp/mem.bin 0x1000 0x2	(IIdb) memory readoutfile /tmp/mem.binbinar 0x1000 0x2000 (IIdb) me r -o /tmp/mem.bin -b 0x1000 0x2000
Get information about a specific heap allocation ((available on Mac OS X only).
(gdb) info malloc 0x10010d680	(IIdb) command script import IIdb.macosx.heap (IIdb) process launchenvironment MallocStackLogging=1 [ARGS] (IIdb) malloc_infostack-history 0x10010d680
Get information about a specific heap allocation a (available on Mac OS X only)	and cast the result to any dynamic type that can be deduce
(available on Plac OS X only)	(IIdb) command script import IIdb.macosx.heap (IIdb) malloc_infotype 0x10010d680
Find all heap blocks that contain a pointer specifi	ed by an expression EXPR (available on Mac OS X only).
Find all heap blocks that contain a pointer specifi	(IIdb) command script import IIdb.macosx.heap (IIdb) ptr_refs EXPR
Find all heap blocks that contain a pointer specifi Find all heap blocks that contain a C string anywl	(IIdb) command script import IIdb.macosx.heap (IIdb) ptr_refs EXPR
	(IIdb) command script import IIdb.macosx.heap (IIdb) ptr_refs EXPR
	(IIdb) command script import IIdb.macosx.heap (IIdb) ptr_refs EXPR here in the block (available on Mac OS X only). (IIdb) command script import IIdb.macosx.heap (IIdb) cstr_refs CSTRING
Find all heap blocks that contain a C string anywl	(IIdb) command script import IIdb.macosx.heap (IIdb) ptr_refs EXPR here in the block (available on Mac OS X only). (IIdb) command script import IIdb.macosx.heap (IIdb) cstr_refs CSTRING
Find all heap blocks that contain a C string anywl Disassemble the current function for the current	(IIdb) command script import IIdb.macosx.heap (IIdb) ptr_refs EXPR here in the block (available on Mac OS X only). (IIdb) command script import IIdb.macosx.heap (IIdb) cstr_refs CSTRING frame. (IIdb) disassembleframe
Find all heap blocks that contain a C string anywl Disassemble the current function for the current (gdb) disassemble	(IIdb) command script import IIdb.macosx.heap (IIdb) ptr_refs EXPR here in the block (available on Mac OS X only). (IIdb) command script import IIdb.macosx.heap (IIdb) cstr_refs CSTRING frame. (IIdb) disassembleframe
Find all heap blocks that contain a C string anywled Disassemble the current function for the current (gdb) disassemble Disassemble any functions named main. (gdb) disassemble main	(IIdb) command script import IIdb.macosx.heap (IIdb) ptr_refs EXPR here in the block (available on Mac OS X only). (IIdb) command script import IIdb.macosx.heap (IIdb) cstr_refs CSTRING frame. (IIdb) disassembleframe (IIdb) di -f
Find all heap blocks that contain a C string anywled Disassemble the current function for the current (gdb) disassemble Disassemble any functions named main.	(IIdb) command script import IIdb.macosx.heap (IIdb) ptr_refs EXPR here in the block (available on Mac OS X only). (IIdb) command script import IIdb.macosx.heap (IIdb) cstr_refs CSTRING frame. (IIdb) disassembleframe (IIdb) di -f
Find all heap blocks that contain a C string anywled Disassemble the current function for the current (gdb) disassemble Disassemble any functions named main. (gdb) disassemble main Disassemble an address range.	(IIdb) command script import IIdb.macosx.heap (IIdb) ptr_refs EXPR here in the block (available on Mac OS X only). (IIdb) command script import IIdb.macosx.heap (IIdb) cstr_refs CSTRING frame. (IIdb) disassembleframe (IIdb) di -f (IIdb) disassemblename main (IIdb) di -n main (IIdb) disassemblestart-address 0x1eb8end-address 0x1ec3 (IIdb) di -s 0x1eb8 -e 0x1ec3
Find all heap blocks that contain a C string anywled Disassemble the current function for the current (gdb) disassemble Disassemble any functions named main. (gdb) disassemble main Disassemble an address range. (gdb) disassemble 0x1eb8 0x1ec3	(IIdb) command script import IIdb.macosx.heap (IIdb) ptr_refs EXPR here in the block (available on Mac OS X only). (IIdb) command script import IIdb.macosx.heap (IIdb) cstr_refs CSTRING frame. (IIdb) disassembleframe (IIdb) di -f (IIdb) disassemblename main (IIdb) di -n main (IIdb) disassemblestart-address 0x1eb8end-address 0x1ec3 (IIdb) di -s 0x1eb8 -e 0x1ec3
Find all heap blocks that contain a C string anywled Disassemble the current function for the current (gdb) disassemble Disassemble any functions named main. (gdb) disassemble main Disassemble an address range. (gdb) disassemble 0x1eb8 0x1ec3 Disassemble 20 instructions from a given address	(IIdb) command script import IIdb.macosx.heap (IIdb) ptr_refs EXPR here in the block (available on Mac OS X only). (IIdb) command script import IIdb.macosx.heap (IIdb) cstr_refs CSTRING frame. (IIdb) disassembleframe (IIdb) di -f (IIdb) disassemblename main (IIdb) di -n main (IIdb) disassemblestart-address 0x1eb8end-address 0x1ec3 (IIdb) di -s 0x1eb8 -e 0x1ec3 s. (IIdb) disassemblestart-address 0x1eb8count 20 (IIdb) di -s 0x1eb8 -c 20

	(IIdb) di -f -m
Disassemble the current function for the current frame and show the opcode bytes.	
n/a	(IIdb) disassembleframebytes (IIdb) di -f -b
Disassemble the current source line for the current fra	me.
n/a	(IIdb) disassembleline (IIdb) di -l

EXECUTABLE AND SHARED LIBRARY QUERY COMMANDS

GDB	LLDB	
List the main executable and all dependent shared libra	aries.	
(gdb) info shared	(IIdb) image list	
Look up information for a raw address in the executable	e or any shared libraries.	
(gdb) info symbol 0x1ec4	(IIdb) image lookupaddress 0x1ec4 (IIdb) im loo -a 0x1ec4	
Look up functions matching a regular expression in a b	inary.	
(gdb) info function <func_regex></func_regex>	This one finds debug symbols: (IIdb) image lookup -r -n <func_regex></func_regex>	
	This one finds non-debug symbols: (IIdb) image lookup -r -s <func_regex></func_regex>	
	Provide a list of binaries as arguments to limit the search.	
Find full source line information.		
(gdb) info line 0x1ec4	This one is a bit messy at present. Do:	
	(IIdb) image lookup -vaddress 0x1ec4	
	and look for the LineEntry line, which will have the full source path and line range information.	
Look up information for an address in a.out only.		
	(IIdb) image lookupaddress 0x1ec4 a.out (IIdb) im loo -a 0x1ec4 a.out	
Look up information for for a type Point by name.		
(gdb) ptype Point	(IIdb) image lookuptype Point (IIdb) im loo -t Point	
Dump all sections from the main executable and any s	hared libraries.	
(gdb) maintenance info sections	(IIdb) image dump sections	
Dump all sections in the a.out module.		
	(IIdb) image dump sections a.out	
Dump all symbols from the main executable and any shared libraries.		
	(IIdb) image dump symtab	
Dump all symbols in a.out and liba.so .		
	(IIdb) image dump symtab a.out liba.so	

MISCELLANEOUS

GDB	LLDB
Echo text to the screen.	
(gdb) echo Here is some text\n	(IIdb) script print "Here is some text"

Remap source file pathnames for the debug session. If your source files are no longer located in the same location as when the program was built maybe the program was built on a different computer you need to tell the debugger how to find the sources at their local file path instead of the build system's file path.	
(gdb) set pathname-substitutions /buildbot/path /my/path	(IIdb) settings set target.source-map /buildbot/path /my/path
supply a catchall directory to search for source files in.	
(gdb) directory /my/path	(No equivalent command - use the source-map instead.)