

# 1 gdbnotes.txt Sun Aug 26 16:15:56 2001

## gdbnotes.txt

Starting:  
gdb  
gdb <file>  
gdb -n  
(lists command line options)

Exiting:  
quit  
Ctrl-d  
Note: Ctrl-C does not exit from gdb, but halts the current  
gdb command

General commands  
run  
kill  
(start your program)  
(stop the program)

Breakpoints  
break FUNCTION  
break \*ADDRESS  
(set a breakpoint at the entry to the function)  
(set a breakpoint at the specified address)  
disable <NUM>  
enable <NUM>  
(disable the breakpoint with that number)  
(enable the breakpoint with that number)  
clear FUNCTION  
(clear any breakpoints at the entry to the function)  
delete <NUM>  
delete e  
(deletes the breakpoint with that number)  
(deletes all breakpoints)

Working at breakpoints  
stepi  
stepi <NUM>  
step  
(execute one machine code instruction)  
(execute NUM instructions)  
(execute one C statement)

nexti  
nexti <NUM>  
next  
(like stepi, but proceed through subroutine calls)

until LOCATION  
(continue running until LOCATION is reached)

continue <NUM>  
(resume execution)  
(continue, ignoring this breakpoint NUM times)

finish  
(run until the current function returns)

backtrace  
where  
(print the current address and stack backtrace)  
(print the current address and stack backtrace)

Examining code  
print \$pc  
print \$sp  
disas ADDR  
disas ADDR1 ADDR2  
(print the program counter)  
(print the stack pointer)  
(display the function around the current line)  
(display the function around the addresses between the addresses)

Examining data  
print \$eax  
print/x \$eax  
print/a \$eax  
print/d \$eax  
print/t \$eax  
(print the contents of %eax)  
(print the contents of %eax as hex)  
(print the contents of %eax as an address)  
(print the contents of %eax as decimal)  
(print the contents of %eax as binary)