Building and Debugging

10   Basic Debugging

The Project Builder Launch panel provides an interface to the Free Software Foundation's **gdb** *debugger. You can set breakpoints, step through source code a line at a time, and examine the values of variables. The panel also allows you to perform any and all* **gdb** *commands and to run programs outside of the debugger.*

;StartingADebuggingSession.rtfd;Startingadebuggingsession;,   Starting a debugging session
;ExecutingSeveralLinesOfCode.rtfd;;¬   Executing several lines of code

;RunningTheProgramInTheDebugger.rtfd;Runningtheprograminthedebugger;,   Running the program in the debugger
;ExaminingTheValueOfAVariableOrAnObject.rtfd;Examiningthevalueofavariableoranobject;,   Examining the value of a variable or an object

;InterruptingTheProgram.rtfd;Interruptingtheprogram;,   Interrupting the program
;NavigatingUsingTheStack.rtfd;Navigatingusingthestack;,   Navigating using the stack

;ExecutingASingleLineOfCode.rtfd;Executingasinglelineofcode;,   Executing a single line of code
;DebuggingObjectAllocationAndDeallocation.rtfd;Debuggingobjectallocationanddeallocation;,   Debugging object allocation and deallocation

;SteppingIntoAMethodOrFunction.rtfd;Steppingintoamethodorfunction;,   Stepping into a method or function
;DebuggingAMultithreadedProgram.rtfd;Debuggingamultithreadedprogram;,   Debugging a multithreaded program

;SettingBreakpoints.rtfd;Settingbreakpoints;,   Setting breakpoints

A fly, Sir, may sting a stately horse and make him wince; but
one is but an insect, and the other is a horse still.
    Samuel Johnson

Errors, like straws, upon the surface flow;
He who would search for pearls must dive below.
    John Dryden