If you're new to Linux and/or just don't like command line type development, here's some recommendations for the course:

1. On VB-Linux – try the Eclipse C development environment for a full IDE and/or use ***nano***, ***make***, and ***ddd (sudo apt-get install ddd)***, or better yet, for full compatibility with Beagle, use ***nano***, ***make***, and ***nemiver*** (***sudo apt-get install nemiver***).

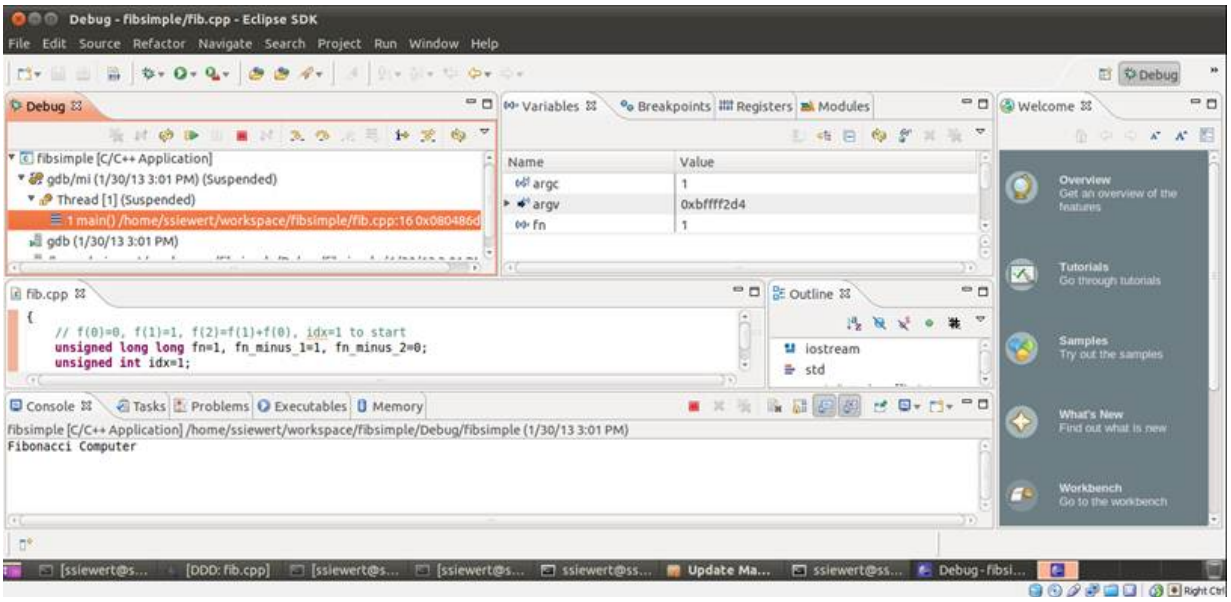
2. On Beagle xM – use use ***nano***, ***make***, and ***nemiver*** (***sudo apt-get install nemiver***).

Here's the details on how to get going:

For those new to Linux, if you want an IDE that is similar to VS, you can install eclipse-cdt (on VB-Linux ONLY) as follows:

sudo apt-get install eclipse-cdt

After it installs, run it (type in ***eclipse***) you can import the fibsimple for example (File, Import …, type file in filter, select File System, browse to downloaded fibonacci code, Finish) and you should see:

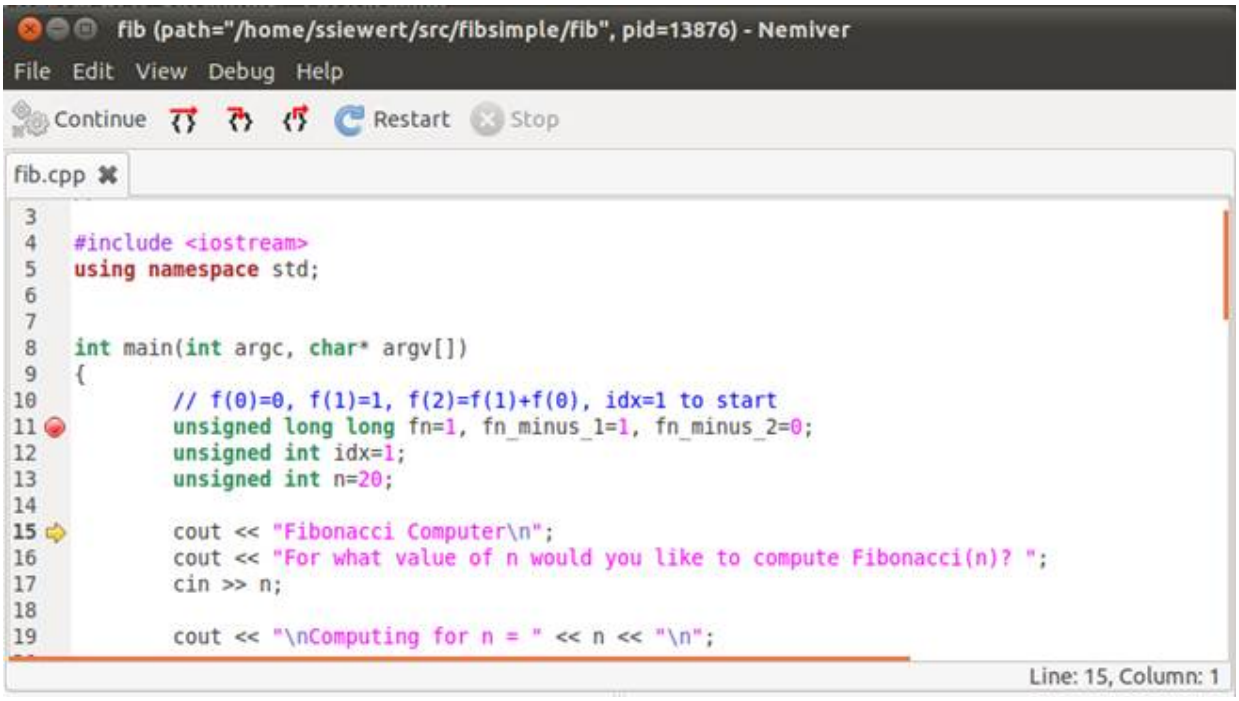


You can set breakpoints, do builds, edit (with an editor that is more like VS), so you may find this more friendly than nano and Makefile with an external debugger, but we will also learn how to use an external debugger.

So, I recommend that you also install nmiver on BOTH your Beagle xM and VB-Linux with:

sudo apt-get install nemiver

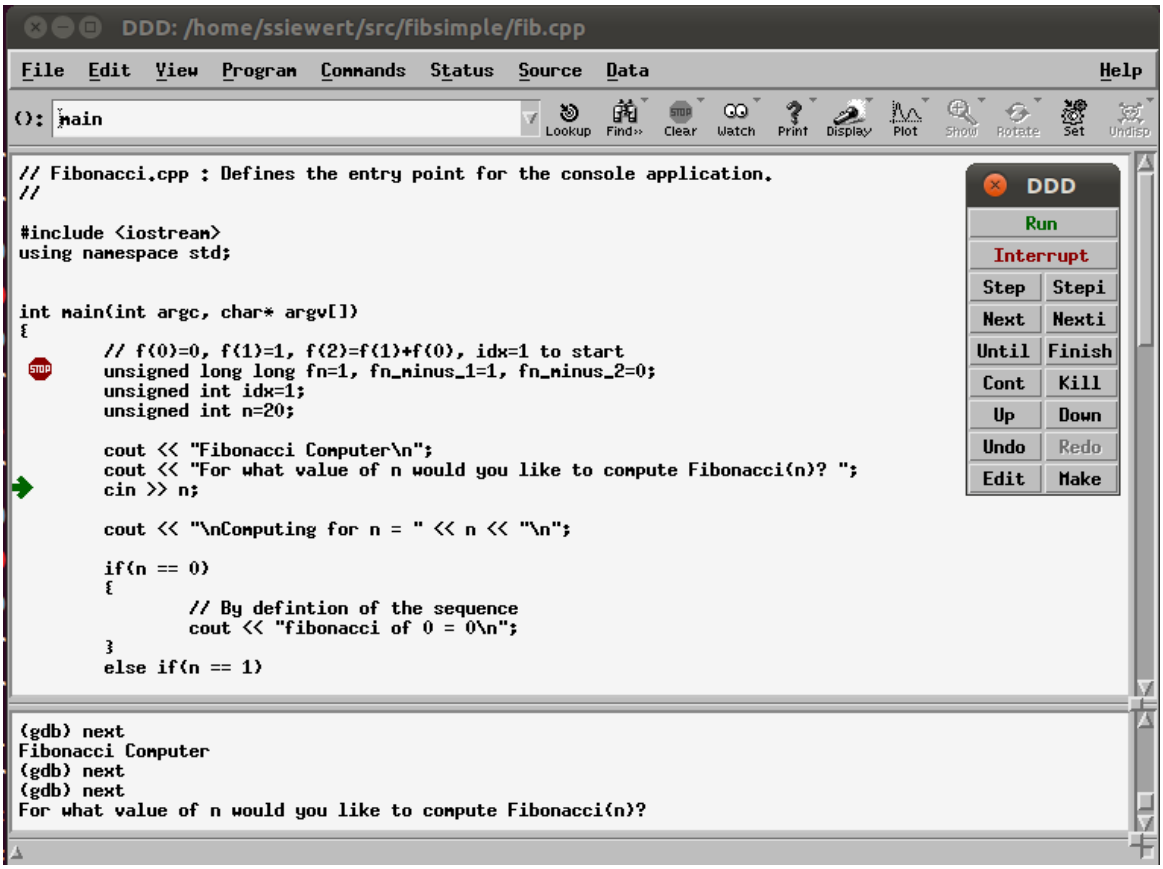
This is a debugger only and you can load and run code with ***nemiver fib*** for example after your code is built using ***make***. It runs nicely on Beagle xM (remember the Beagle is "like" a cell phone, so it just can't handle well running all of Eclipse – I tried, and it's just too slow).



Hopefully this helps all out a bit more with some nice development and debug tools that go beyond command line.

There are other stand-alone debuggers that run nicely on VB-Linux if you're interested ("ddd" and "xxgdb"), but nemiver runs well on both VB-Linux and the Beagle xM, so we'll use that and it is up to you if you want to use the eclipse-cdt on your VB-Linux.

I have historically used ddd on Linux and like it, but it doesn't seem to work right on the Beagle xM with ARM, so that's why I dug up nemiver. In case you're curious or want to use it on VB-Linux, here's what it looks like:


DDD: /home/ssiewert/src/fibsimple/fib.cpp
File Edit View Program Commands Status Source Data Help
(): main
Lookup Find»» Clear Watch Print Display Plot Show Rotate Set Undisp
// Fibonacci.cpp : Defines the entry point for the console application.
//
#include <iostream>
using namespace std;
int main(int argc, char* argv[])
{
// f(0)=0, f(1)=1, f(2)=f(1)+f(0), idx=1 to start
unsigned long long fn=1, fn_minus_1=1, fn_minus_2=0;
unsigned int idx=1;
unsigned int n=20;
cout << "Fibonacci Computer\n";
cout << "For what value of n would you like to compute Fibonacci(n)? ";
cin >> n;
cout << "\nComputing for n = " << n << "\n";
if(n == 0)
{
// By defintion of the sequence
cout << "fibonacci of 0 = 0\n";
}
else if(n == 1)
DDD
Run
Interrupt
Step Stepi
Next Nexti
Until Finish
Cont Kill
Up Down
Undo Redo
Edit Make
(gdb) next
Fibonacci Computer
(gdb) next
(gdb) next
For what value of n would you like to compute Fibonacci(n)?