Subject: Linking with usb library
Posted by malaugh on Wed, 27 Jun 2007 23:52:14 GMT
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Forgive my basic questions but I an a newbee at Linux programming and Ultimate++.

I am writing a program that communicates with a USB device. It uses the function usb_init(), usb_open() etc., which are contained in a library called libusb.a in the /usr/lib directory. I wrote a simple console program to test the libary interface

```
usb_init();
usb_find_busses();
usb_find_devices();
usb_busses = usb_get_busses();
for (bus = usb_busses; bus; bus = bus->next)
{
   for (dev = bus->devices; dev; dev = dev->next)
   {
      printf("idVendor:0x%04x\n",dev->descriptor.idVendor);
      printf("idProduct:0x%04x\n",dev-descriptor.idProduct);
   }
}
return 0;
```

I can compile and run this program with the following gcc command:

gcc UsbList.cpp -lusb -lstdc++ -o UsbList

When I try to compile and run it under Ultimate++ I get
linker errors, it cannot find usb_init, usb_find_busses, usb_find_devices, or usb_get_busses.

How to I tell Ultimate++ to link with the usb library?

Thanks

Subject: Re: Linking with usb library
Posted by forlano on Thu, 28 Jun 2007 07:20:31 GMT
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malaugh wrote on Thu, 28 June 2007 01:52
How to I tell Ultimate++ to link with the usb library?

Hello,

in theide, menu item Setup/Build Method, right click in the panel "include" and "lib" to append a row with the path of the include and lib of your library.

Luigi

Subject: Re: Linking with usb library
Posted by malaugh on Fri, 29 Jun 2007 22:48:48 GMT
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Thanks for you help. Actually my problem was I did not know how to include the library.

I found that adding the lines

When	Libraries
GCC	usb
GCC	stdc++

in the package organizer solved my problem. I have a new problem though. I am trying to make a combined windows/linux program using the libusb library. The problem is windows requires the libusb.lib library, and linux the usb lib. This means I need to have something like

When	Libaries
Windows	libusb.lib
linux	usb

The problem is both I use the GCC compiler on both linux and windows machines. Is there a way to use the "when" in this configuration?

Subject: Re: Linking with usb library
Posted by forlano on Sat, 30 Jun 2007 10:11:23 GMT
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malaugh wrote on Sat, 30 June 2007 00:48
The problem is both I use the GCC compiler on both linux and windows machines. Is there a way to use the "when" in this configuration?

The two conditions to add in when library should be

GCC LINUX	libusb.lib
GCC WIN32	usb