

Console Mode Program

```
#include"upddapi.h"

#ifdef_WIN32
#include<windows.h>
#else
#include<unistd.h>
#endif

#include<iostream>
#include<string>
#include<vector>
usingnamespacestd;

#ifdef_LINUX_
#include<sys/types.h>
#include<sys/wait.h>
#endif

intDoList();

staticvoidTBCALLMyCallback(unsignedlongcontext, _PointerEvent* data);
staticvoidTBCALLMyConnectCallback(unsignedlongcontext, _PointerEvent* data);

boolrunning = true;
boolconnected = false;

intmain(intargc, char* argv[])
{
    // TBApiOpen executes asynchronously
    // a client program must wait for a connection
    // register to receive events when the connection to the driver is made or broken
    // this is the only type of event that can be registered before TBApiOpen is called;
```

Console Mode Program

```
TBApiRegisterEvent(0, 0, _EventConfiguration, MyConnectCallback);

TBApiOpen();

while (!connected) // in this contrived example we just wait for the connect event; in
a real scenario something useful would be done at this point such as executing a programs
message dispatch loop

{
#ifdef _WIN32
    Sleep(10);
#else
    usleep(100);
#endif
}

DoList();

// register for various data callbacks to receive information from UPDD
// NB ALL programs which will run for more than a second or so MUST register
_ReadDataTypeUnload and exit if this message is received

TBApiRegisterEvent(0, // specify 0 to receive callbacks for all active devices or a
handle for a specific device

    0, // this value gets passed to the callback function

    _EventTypeUnload | // notification that we must unload (during driver
uninstall)

    _EventTypeDigitiserEvent, // digitiser events give information related to
touches

    MyCallback);

while(running)

{
```

Console Mode Program

```
#ifdef WIN32
    Sleep(1000);
#else
    usleep(10000);
#endif
}

// tell the api we no longer want to receive callbacks
TBApiUnregisterEvent(MyCallback);
TBApiClose();
return(0);
}

intDoList()
{
    HTBDEVICEdevice = TBApiGetRelativeDevice(0);

    for(inti=0; device != TB_INVALID_HANDLE_VALUE;)
    {
        chardeviceName[256];

        TBApiGetSetting(device, "device_name", deviceName, sizeof(deviceName));

        intmonitor_number;

        TBApiGetSettingAsInt(device, "monitor_number", &monitor_number);

        cout << (char)(device + '0') << "\t" << deviceName << "\tMonitor " << monitor_number
        << endl;

        device = TBApiGetRelativeDevice(++i);
    }

    return(0);
}
```

Console Mode Program

```
}

staticvoidTBCALLMyConnectCallback(unsignedlong/*context*/, _PointerEvent* ev)
{
    if (ev->pe.config.configEventType == CONFIG_EVENT_CONNECT)
    {
        connected = true;
    }
}

staticvoidTBCALLMyCallback(unsignedlong/*context*/, _PointerEvent* ev)
{
    // the api calls this function to send events of the type we requested with
    TBApiRegisterDataCallback()

    // NB this callback is called in the context of it's own thread

    // the user must implement thread synchronisation code when performing operations that
    might content with

    // operations in other threads

    switch(ev->type)
    {
        case_EventTypeUnload:
            //[[upddapi] driver is being uninstalled - all api programs must terminate
            TBApiClose();
            exit(0);
            break;
        case_EventTypeDigitiserEvent:
            {
                cout << "x: " << ev->pe.digitiserEvent.screenx
```

Console Mode Program

```
<< " y: " << ev->pe.digitiserEvent.screeny  
  
<< (ev->pe.digitiserEvent.de.touchEvent.touchingLeft ? " touching" : " not  
touching") << ends << endl;  
  
break;  
  
}  
  
}  
  
}
```

Touch-Base Support

<http://support.touch-base.com/Documentation/50256/Console-Mode-Program>