

Tags arduino, hid, mouse
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Arduino UNO Mouse HID

I've created a Mouse HID driver for the UNO's atmega8u2. It makes the Arduino appear to be a USB mouse device, and lets it move the mouse and send button presses on a host PC.

The driver implements a serial protocol that expects to receive 4 bytes from the UNO's main processor. The format is as follows:

Byte	Description
0	Button states: 0 off, 1 on Bit 0 – Mouse Button 1 Bit 1 – Mouse Button 2 Bit 2 – Mouse Button 3
1	X movement: int8_t range -127 to +128
2	Y movement: int8_t range -127 to +128
3	Wheel movement: Not implemented, will be added soon.

Here's the firmware, source, and an example sketch that moves the mouse in a clockwise square every 5 seconds. See the earlier posts about how to load the firmware using DFU mode, and how to build the firmware.

Arduino-mouse-0.1.hex

Arduino-mouse-0.1-mega2560.hex

arduino-mouse-0.1.tar.gz

mouse_usb_demo.pde

