

Re: mouse scroll not working in 2.6 kernel

Source: <http://linux.derkeiler.com/Newsgroups/comp.os.linux.setup/2005-11/0467.html>

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Michael Heiming <michael+USENET@www.heiming.de> wrote:

> [*ptb says usb mouse under 2.6 kernel doesn't emit button 4/5 events*]

>> *Any idea if there's some reconfiguration to be done for 2.6? Nothing*

> *'xev' should tell.*

Well, X should tell! It's the one that gets the events and passes them to the apps :-).

> *Looks like a pretty ancient kernel you should upgrade. Anyway*

:-). My kernel is most insulted. But I'm afraid I can't reboot for another six months now, so it will have to wait. Besides, this kernel is fine – I like it best of the many I have used. It's got nice smooth electrons and a really shiny stack, with chromed interrupt vector hooks.

;)

> *under 2.6 needed the following (lilo.conf append line) to make*

> *my pointing devices working probably: "psmouse.proto=imps". Never*

Aha! Michael, if that is not it, it deserves to be it! It fits the profiled lack of 4/5 button events being produced by a driver. Well done! You are too good. Now how did you find that out ... it'll be a module param for me, surely? Or .. yes, in 2.6 I have psmouse as a module, so it goes in whatever the kernel config file is nowadays ...

Gah! Debian doesn't make it very clear to me if they want me to add a file in /etc/modprobe.d/ or want me to edit /etc/modprobe.conf (which includes explicitly /lib/modules/modprobe.conf, made from /etc/modprobe.d/*). How convoluted. And what about my 2.4 module options? How not to mix them up with 2.6? Oh, they will still come from the old modules.conf! I hope.

Anyway, I need this for usbmouse, not psmouse, but now I can go look at the code ... and I see the psmouse parameter:

comp.os.linux.setup: Re: mouse scroll not working in 2.6 kernel

```
static char *psmouse_proto;
static unsigned int psmouse_max_proto = -1U;
module_param_named(proto, psmouse_proto, charp, 0);
MODULE_PARM_DESC(proto, "Highest protocol extension to probe (bare, imps, exps). Useful for KVM switches.");
```

But I don't see any PARMs like that for usbmouse! Let's google to see where you got your info from ...

Linux: 2.6 Input Drivers FAQ

(I imagine) <http://kerneltrap.org/node/2199>

Problems:

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My mouse wheel is not working in X.  
My Logitech (MousManPS/2) mouse stopped working in X.  
My extra buttons don't work in X.

Solution:

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Check your XFree86 config file.

Make sure the mouse protocol is set to "ExplorerPS/2", as that is what the 2.6 kernel exports to applications regardless of the real mouse type.

Make sure you have an "ZAxisMapping 4 5" entry.

Make sure you have an entry for remapping the extra buttons above 5.

Yerrrs. And what is a person supposed to do when he ALSO runs a 2.4 kernel? (and reboots every six months).

It looks as though changing the X config entry for the USB mouse might be a possibility! I wouldn't have noticed that the other mouse needed changing because it doesn't have a scroll wheel. That's a possibility.

This entry in the FAQ is a weirdo!

Problems:

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I'm getting double clicks when I click only once.  
My scroll wheel scrolls by two lines/screens instead of one.  
My mouse moves too fast.

Solution:

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Check your XFree86 config file.

You probably have two "mouse" entries there, one pointing to /dev/psaux and the other to /dev/input/mice, so that you can get both your PS/2 and USB mouse working on 2.4.

2.6 uses the input subsystem for both PS2 and USB, and thus both devices will report events from both mice, resulting in doubled events.

Remove either the /dev/psaux or /dev/input/mice entry, depending what suits you better for 2.4 compatibility should you ever need go back to 2.4.

Uh, no. I need both those entries for 2.4! I can't "remove one". What kind of advice is that! The first mouse is:

```
Option "Protocol" "PS/2"  
Option "Device" "/dev/mouse"
```

```
lrwxrwxrwx 1 root 5 Feb 8 2003 /dev/mouse -> psaux
```

and the other mouse is

```
Option "Protocol" "IMPS/2"  
Option "Device" "/dev/input/mice"
```

Oh, I see – it would ONLY be a problem if I didn't have two mice, and used my ps2 mouse. Then signals from the ps2 mouse would go to both device nodes. WAIT A MOMENT. I DO have only one ps2 mouse whenever I don't plug the usb mouse in, and I have no such problems. I don't believe this entry. I don't get double dsensitivity either!

Anyway, I need both entries for 2.4 use.

Sigh – somebody has made a mess there.

> *tested if it is still needed running 2.6.14, it's just there and*
> *my Kensington USB trackball works like a charm.*

Unfortunately we won't know the result for another six months!

Peter