Ryzom - Bug # 920

Status:	Closed	Priority:	Normal
Author:	rti	Category:	OS: GNU/Linux
Created:	05/20/2010	Assignee:	kervala
Updated:	07/28/2010	Due date:	
Subject:	NeL - X11 Modifier Keys (Patch included)		

Description

This patch adds modifier support to key events and alt modifier support to mouse events.

For example pressing <SHIFT> + <1> generated until now:

  - one event containing the <SHIFT> and an empty text string
  - a second event containing the combination of both (eg. "!") and a string containing "!"

Now the following is generated:

  - one event containing the <SHIFT> and an empty text string (like before)
  - a second event containing the <1> key, a modifier mask set to <SHIFT> and a string containing "!"

This way the Ryzom client can detect the "1" part of the key event to trigger eg the spell bar while still creating "Text Events" for like chatting.
Combinations like <CTRL> + <ALT> + <SHIFT> + <A> are working as well.

The <ALT> modifier key was not implemented. The new implementation for that is only tested on Mac. No idea if this will work on Linux as well (contains a hardcoded value here because none of the Mod[1,5]Mask defines worked on Mac).

History

#1 - 05/20/2010 10:03 am - vl

- Status changed from New to Assigned

- Assignee set to kervala

#2 - 05/20/2010 08:57 pm - rti

Ok, seems like on Linux non QWERTY layouts and the ALT key modifier are not supported by this patch. Needs some further investigation here.

#3 - 05/20/2010 08:59 pm - kervala

When I press alt+t, it opens a linux Terminal :p

#4 - 05/21/2010 02:43 am - rti

Maybe it is a way to look up the secondary entries in the keycode to keysym tables. Just tried it, somehow it solves the problem. Will have a deeper look into that tomorrow.

#5 - 05/22/2010 05:57 pm - rti

- File nel_x11_key_handling.patch added

This one is a replacement for nel_x11_modifier_keys.patch.

The problems related to number keys on french layouts and not working modifiers on Linux should be fixed now.

I tested it on Ubuntu 10.4 and MacOS 10.6 with german QWERTZ and french AZERTY layouts.

Furthermore I did not screw the line endings this time. Yay! :)

#6 - 05/22/2010 06:49 pm - kervala

- File deleted (nel_x11_modifier_keys.patch)

#7 - 05/23/2010 03:13 pm - kervala

I tested the last patch on my system (Ubuntu 10.04 x64 with French locale and keyboard) and some keys are not working anymore :(

When I'm in the Key window to configure my keys, I noticed all keys are associated automatically with <Alt> so when I press <Backspace> it detects <Alt>+<Backspace>, when I press "1" it detects <Alt>+1, etc... That's why no shortcut are working :)

When I'm in chat, <Backspace> and <Tab> are not recognized anymore, <Delete> doesn't delete character but only adds a ".", but most of <AltGr> combinations are working fine :)

#8 - 05/23/2010 05:00 pm - kervala

After little tweaks, it's working perfectly :)

#9 - 05/23/2010 05:40 pm - rti

What exactly did you change? Should I retest it on Mac?

#10 - 05/23/2010 05:48 pm - kervala

In only changed AltMask on Linux so you shouldn't need to test it :)

Btw I found that AltMask was defined in <xorg/atKeynames.h> but I'm not sure it's existing only under Linux or everywhere.

#11 - 05/23/2010 05:59 pm - kervala

- Status changed from Assigned to Resolved

- % Done changed from 0 to 100

Applied in changeset r215.

#12 - 05/23/2010 06:00 pm - kervala

- Target version set to Version 0.8.0

The problem on Linux was that Mod2Mask is always enabled :s I put nlwarning with the modifier and I always get 16 when I was idle.

KanaMask (= Mod4Mask) is Windows key, ScrollLockMask (= Mod5Mask) is AltGr key (to do special characters).

On Linux :

 - defined in <X.h>

   /* Key masks. Used as modifiers to GrabButton and GrabKey, results of QueryPointer,
      state in various key-, mouse-, and button-related events. */
   #define ShiftMask   (1<<0)
   #define LockMask   (1<<1)
   #define ControlMask   (1<<2)
   #define Mod1Mask   (1<<3)
   #define Mod2Mask   (1<<4)
   #define Mod3Mask   (1<<5)
   #define Mod4Mask   (1<<6)
   #define Mod5Mask   (1<<7)

 - defined in <xorg/atKeynames.h> (but don't think it's a standard X11 header)

   #define AltMask   Mod1Mask
   #define NumLockMask   Mod2Mask
   #define AltLangMask   Mod3Mask
   #define KanaMask   Mod4Mask
   #define ScrollLockMask Mod5Mask

#13 - 05/23/2010 10:07 pm - rti

The break you removed was important for GCC ;)

    diff with working copy (ac38ff6ee826)
    --- a/code/nel/src/3d/driver/opengl/unix_event_emitter.cpp   Sun May 23 17:54:46 2010 +0200
    +++ b/code/nel/src/3d/driver/opengl/unix_event_emitter.cpp   Sun May 23 22:06:16 2010 +0200
    @@ -222,6 +222,7 @@
       case XK_Z:
       case XK_z: return KeyZ;
       default: //nldebug ("0x%x %d '%c'", keysym, keysym, keysym);
    +   break;
       }
       return KeyNOKEY;
    }

#14 - 05/24/2010 10:15 am - kervala

Applied in changeset r217.

#15 - 05/28/2010 05:24 pm - vl
- Status changed from Resolved to Closed

#16 - 07/28/2010 10:15 am - kervala

- Category changed from NeL: General to OS: GNU/Linux

Files

nel_x11_key_handling.patch	3.9 kB	05/22/2010	rti