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■ Lots Of Keymapping Questions

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[Meanie](#)

□ Mar 8 2006, 09:28 PM

Post #1



So now that I got pdaXrom to look good, I am trying to improve its usability to exploring all the existing keyboard shortcuts and possible improvements to make life easier for me.

So far I have discovered the following:

for MatchBox:

- * The left Japanese key is mapped to Alt
- * Ctrl + Alt + BS = Shutdown X
- * Ctrl + Alt + Left/Right = Switch between Virtual Windows
- * Address + Tab = Switch between running Applications
- * Menu = Activate Launch Menu

for XMMS:

- * X = Play
- * C = Pause
- * V = Stop
- * Up = Decrease Volume
- * Down = Increase Volume
- * Left = Skip Backward
- * Right = Skip Forward
- * B = Next Song
- * Z = Prev Song

Are there any more?

Also, what is the difference between "Shortcut keys" and "SilkScreen" under the Input settings? They seem to refer to the same keys?

I also assigned xmms to the Address in the Shortcut keys, because I am used to have that button launch my music player on Sharp ROM. Now the problem is when I switch app using Address + Tab, xmms also launches. How can I remap the app switching to Menu + Tab?

I also found xbindkeys very helpful for assigning keys to commands which is very nice. However, I am still a bit overwhelmed with all the possible key bindings possible, like using loadkeys and xmodmap. Which of these methods is best for what?

One final thing that is really upsetting me is the configuration of sticky keys. I have found that using accessx would do what I want, but it has this annoying feature of disabling itself after some time. Is there anyway of disabling that feature?

Alternatively, I also found that using loadkeys you can enable the Lock key feature which is better than nothing, but there is also a feature for sticky keys using the SShift and SControl assignment, but I cannot get the latter one to work and it seems to be missing the SFn.

So does anyone who has been using pdaXrom for longer than I have got any ideas on how to tackle this? I like to

Group: Members

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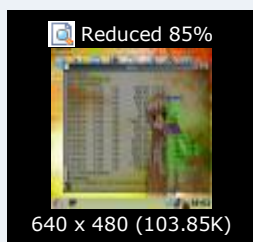
From: Sydney, Australia

Member No.: 6,686

do everything using the keyboard and leave the stylus inside the Zaurus.

Oh, what is the equivalent of Alt+F4 (exit app)?

Attached thumbnail(s)



 SL-C3000 - pdaXii13 build5.4.9 (based on pdaXrom beta3) / SL-C3100 - Sharp ROM 1.02 JP (heavily customised)
 Netgear MA701 CF, SanDisk ConnectPlus CF, Socket Bluetooth CF, 4GB Kingston CF, 4GB pqi SD, 4GB ChoiceOnly
 SD, 2GB SanDisk SD USB Plus, 1GB SanDisk USB Plus, 1GB Transcend SD, 2GB SanDisk MicroSD with SD
 adaptor, Piel Frama Leather Case, GoldX 5-in-1 USB cable, USB hub, USB mouse, USB keyboard, USB ethernet,
 USB HDD, many other USB accessories...

(Zaurus SL-C3000 owner since March 14. 2005, Zaurus SL-C3100 owner since September 21. 2005)

<http://www.users.on.net/~hluc/myZaurus> - [zBook3K](#)

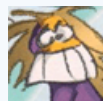
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 **pgas**

□ Mar 8 2006, 09:54 PM

Post #2



loadkeys is used to set the keys in the console (I'm not sure how this change the keys in X)

xmodmap:

- /etc/x11/kb/akita.xmodmap and user.xmodmap are loaded in .xinitrc

xmodap is used to map keycode to X symbols, like control ,left right or a

shortcuts:

- some shortcuts are defined in X (like shift five times, C-A-bs to kill the Xserver

-some shortcuts are defined in the window manager (in openbox they are defined in the xml files in etc/xdg/openbox/* , this is where you can redifined the shortcuts like Alt-tab, alt f4 etc...), note the default wm is openbox, not matchbox, the desktop and the panel come from matchbox but the shortucts are provided by openbox.

- xbindkeys, allows to define yet other shortcuts

Shortcut keys: the keys adress calendar...of the keyboard

SilkScreen : the little pictogram at the right of the screen (landscape mode) that you can touch

A small example of what I like:

I first defined the little japanese key as Super_L (windows key on a normal keyboard)
 by adding in corgi.xmodmap:

```
keycode 130 = Super_L
```

```
then declare it as a modifier:
```

```
add mod4 = Super_L
```

then I define in my wm some actions for this by adding shortcuts like

```
Super+k = kill window
```

```
Super+left = next app
```

```
Super+m maximize (it's by default map to C-A-m)
```

```
.....
```

Group: Members
 Posts: 1,096
 Joined: 17-December 03
 From: Athens, Greece
 Member No.: 1,210

For sticky keys I'm not sure, perhaps one have to look into the source code as the documentation about these feature is scarce.

(note that if you press shift+key at the same time it disable the sticky feature)

For your address button, you want to move the definition of Adress as Alt in akita.xmodmap, make sure that alt is define on another key, and define the Address button as another symbol XF86Media or something (the list of symbol can be found somewhere in /usr/X11R6/ in a normal linux box, I'll try to fetch one if you need) then in /etc/xdg/openbox, define a shortcut for XF86Media to xmms

I hope this helps a bit....

Edit: oh and some apps define their own shortcuts, I'm not sure if the xmms shortcuts are predefined in xmms or elsewhere..

SLC-860 pdaxrom / senao wifi / kingston 1G sd

[↑ TOP](#) [! REPORT](#)

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 **scheck.r**

☐ Mar 8 2006, 10:04 PM

Post #3

Switch between running Applications -> Alt + Tab (really)

Now, by default Alt is mapped to Adress and also to the kanji key next to Ctrl key.

By default Ctrl is mapped to Calendar and also to Ctrl key.

What I do is that I map Ctrl to the Ctrl key using the input setup ie Kanji next to Fn button. (which means in fact remove the mapping to Calendar button)

I map also Alt key to Kanji next to "-" button (which is in fact the kanji key next to Ctrl key and not the one next to "-"), the expression used in input setup is confusing because it uses the C-7x0 keyboard) so that now Alt key is only mapped to 1rst kanji.

SL-C1000 from PriceJapan(cheap and very fast shipping) with EA-70 power adapter, iRiver USB Host cable, PDAIR case, pentopia stylus, ultra clear screen-protector from shop.brandoo.com.hk only \$3 for shipping worldwide
4GB Hitachi Microdrive, 1GB Kingston Elite Pro CF, 4GB Transcend 150x SD, Symbol Spectrum 4137 CF WiFi(low power)

PdaXrom pdaxii13 5.4.9 updated with Kkazakov13's feed. I owned a SL-6000L before

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 **gromituk**

☐ Mar 8 2006, 10:07 PM

Post #4

Funny how you don't notice the keys you don't use: the two "little Japanese ones"! Could not the other one be mapped to turn the numbers into function keys? Then you'd only be missing F11 and F12 - maybe it could map O and P to these? (You don't want to use shift, Calendar or Address, as these can be used in addition to modify the function keys.)

This mapping conflicts with the one used by scheck.r!

More unmarked keymaps:

Fn-Q (lower or upper case with shift) for the Scandinavian A-with-a-loop thing!

Fn-O (lower or upper case with shift) for the Danish O-crossed-out thing!

Fn-P for £ (Pound Sterling sign - not # which Americans sometimes call a pound sign)

Fn-A for ae (lower or upper case with shift)






Fn-S for â. → (Euro symbol)









Fn-M for backtick

That only leaves Fn-Z, Fn-N and Fn-5 unmodified.

[↑ TOP](#) [! REPORT](#)

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 scheck.r	Mar 8 2006, 10:46 PM	Post #5
Group: Members Posts: 306 Joined: 6-December 04 From: Paris, France Member No.: 5,776	<p>Becareful with Input Setup, it still have the bug of rewriting kernel.map so that you lose the right shift key and the period key in console. see http://www.oesf.org/forums/index.php?showtopic=17050&hl=period ://http://www.oesf.org/forums/index.ph...&hl=period</p> <p>-----</p> <p>SL-C1000 from PriceJapan(cheap and very fast shipping) with EA-70 power adapter, iRiver USB Host cable, PDAIR case, pentopia stylus, ultra clear screen-protector from shop.branda.com.hk only \$3 for shipping worldwide 4GB Hitachi Microdrive, 1GB Kingston Elite Pro CF, 4GB Transcend 150x SD, Symbol Spectrum 4137 CF WiFi(low power) PdaXrom pdaxii13 5.4.9 updated with Kkazakov13's feed. I owned a SL-6000L before</p>	
 TOP	 REPORT	 QUOTE  REPLY

 scheck.r	 Mar 8 2006, 11:15 PM	Post #6
<p>Group: Members Posts: 306 Joined: 6-December 04 From: Paris, France Member No.: 5,776</p>	<p>Ctrl + q is set by default to Kill window. Alt + Tab next window Alt + Shift + Tab previous window</p> <p>Following pgas suggestions, here is my additions to /etc/xdg/openbox/rc.xml file: It uses the kanji key close to "-" (which is not mapped yet) in combination with arrow keys for manipulating windows</p>	
	<p>CODE <?ph</p> <pre> <keybind key="Mod4-Right"> <action name="NextWindow"/> </keybind> <keybind key="Mod4-Left"> <action name="PreviousWindow"/> </keybind> <keybind key="Mod4-Up"> <action name="ToggleMaximizeFull"/> </keybind> <keybind key="Mod4-Down"> <action name="Iconify"/> </keybind> <keybind key="Mod4-m"> <action name="ToggleShowDesktop"/> </keybind> </pre>	
	<p>and adding in akita.xmodmap:</p> <p>CODE <?ph</p> <pre> keycode 78 = Super_L add mod4 = Super_L </pre>	
	<p>I add also to /etc/x11/kb/userdefined.xmodmap (idea taken from someone else usefull for NoteCase)</p> <p>CODE <?ph</p> <pre> keycode 120 = Shift_R Shift_R Insert Insert </pre>	
	<p>-----</p> <p>SL-C1000 from PriceJapan(cheap and very fast shipping) with EA-70 power adapter, iRiver USB Host cable, PDAIR case, pentopia stylus, ultra clear screen-protector from shop.brandoo.com.hk only \$3 for shipping worldwide 4GB Hitachi Microdrive, 1GB Kingston Elite Pro CF, 4GB Transcend 150x SD, Symbol Spectrum 4137 CF WiFi(low power)</p> <p>PdaXrom pdaxii13 5.4.9 updated with Kkazakov13's feed. I owned a SL-6000L before</p>	
 	 	
 danr	 Mar 9 2006, 12:31 AM	Post #7
<p>Group: Members Posts: 125 Joined: 12-February 04 Member No.: 1,830</p>	<p>Speaking of key mapping, this is perhaps slightly off-topic, but has anyone managed to get all keys working in Nedit? I noticed that page up and down (fn up/down) do not work in Nedit, and are interpreted as up/down. But in memacs, for example, they work correctly. Not sure if it's some sort of problem with lesstif or something.</p> <p>If I export the display to my PC, the PC keyboard page up/down work correctly. But the oddest thing is that if I then use vncviewer on the Nedit window on the PC, the Zaurus page up/down works! (are you still following this? ;-)</p> <p>The other slightly odd thing about Nedit is that I can bind ctrl-space as an accelerator to something in the macro menu (preferences/default settings/customize menus/macro menu), but it won't work in the editor itself.</p> <p>Hmm, strange...</p>	

Dan

[SL-C860 running Debian EABI on top of Angstrom 2.6 kernel](#)

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 **Meanie**

☐ Mar 9 2006, 10:31 AM

Post #8



Thanks everyone for your insights. I see things much clearer now and have started to map out the keyboard. Apart from the sticky keys, all is fine now.


I have made a copy of kernel.map and each time X exits, it does a diff with my backup copy and restores it if it differs!


I decided not to use the Lock feature which I could had enabled in kernel.map

I also rewrote the akita.xmodmap file to mirror the Spitz/Borzoi keyboard according to what xev says, so that each key that exist on the keyboard is specifically mapped to avoid any ambiguity. Also removed to duplicate mapping of Alt and Ctrl from the Calendar and Address keys so those keys are free for other assignments.

So the following key combos were mapped but not marked on the keyboard:

- Fn-Q (lower or upper case with shift) for the Scandinavian A-with-a-loop thing!
- Fn-O (lower or upper case with shift) for the Danish O-crossed-out thing!
- Fn-P for Â£ (Pound Sterling sign - not # which Americans sometimes call a pound sign)
- Fn-A for ae (lower or upper case with shift)
- Fn-S for â, ã (Euro symbol)
- Fn-M for backtick
- Right Kanji key is ` , same as Fn-M

I switched Fn+M and Fn+Q around  and left the Alt key be the left kanji key and made the right kanji key the Super_L. How many max modifiers can be defined? The current modmap file clears 5 but only map 2. I also redefined the keys at the back of the Zaurus for use with xmms, ie play, pause, prev, next

Also I am going to use /etc/xdg/openbox/rc.xml for customising shortcuts and extra mappings. Seems like it does the same thing as xbindkeys so might as well uninstall xbindkeys and just use the openbox feature instead. Added a binding for screencap as well. A lot of keycombos are already mapped for openbox. Lots of goodies 

Now back to the sticky keys I am having problems finding docu that clearly explain the options for AccessX, not just what they do but how to actually configure them... anyone know?

[SL-C3000 - pdaXii13 build5.4.9 \(based on pdaXrom beta3\) / SL-C3100 - Sharp ROM 1.02 JP \(heavily customised\)](#)
[Netgear MA701 CF, SanDisk ConnectPlus CF, Socket Bluetooth CF, 4GB Kingston CF, 4GB pqi SD, 4GB ChoiceOnly SD, 2GB SanDisk SD USB Plus, 1GB SanDisk USB Plus, 1GB Transcend SD, 2GB SanDisk MicroSD with SD adaptor, Piel Frama Leather Case, GoldX 5-in-1 USB cable, USB hub, USB mouse, USB keyboard, USB ethernet, USB HDD, many other USB accessories...](#)
 (Zaurus SL-C3000 owner since March 14. 2005, Zaurus SL-C3100 owner since September 21. 2005)
<http://www.users.on.net/~hluc/myZaurus> - [zBook3K](#)

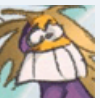
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 **pgas**

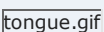
☐ Mar 9 2006, 02:56 PM

Post #9



QUOTE 

Now back to the sticky keys I am having problems finding docu that clearly explain the options for AccessX, not just what they do but how to actually configure them... anyone know?

yeah, this is a problem, as I said, reading the source is perhaps the easiest way 

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 **Meanie**

Mar 23 2006, 08:46 PM

Post #10



well, I summarized everything here and did some extra mods
<http://www.users.on.net/~hluc/myZaurus/cus...rom.html#keymap>

[SL-C3000 - pdaXii13 build5.4.9 \(based on pdaXrom beta3\) / SL-C3100 - Sharp ROM 1.02 JP \(heavily customised\)](#)
 Netgear MA701 CF, SanDisk ConnectPlus CF, Socket Bluetooth CF, 4GB Kingston CF, 4GB pqi SD, 4GB ChoiceOnly SD, 2GB SanDisk SD USB Plus, 1GB SanDisk USB Plus, 1GB Transcend SD, 2GB SanDisk MicroSD with SD adaptor, Piel Frama Leather Case, GoldX 5-in-1 USB cable, USB hub, USB mouse, USB keyboard, USB ethernet, USB HDD, many other USB accessories...
 (Zaurus SL-C3000 owner since March 14. 2005, Zaurus SL-C3100 owner since September 21. 2005)
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 Joined: 22-March 05
 From: Sydney, Australia
 Member No.: 6,686

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 **desertrat**

Mar 24 2006, 02:29 PM


Post #11



QUOTE(Meanie @ Mar 23 2006, 12:46 PM)

well, I summarized everything here and did some extra mods

Thanks, useful stuff.

Whilst we're on the subject, has anyone gotten the silkscreen buttons to work on a 3100? I've asked before but sadly got no answer 

-- cheers

[SL-C3100 / Ambicon WL1100C-CF / pdaXrom 1.1.0beta3 / IceWM](#)

Group: Members
 Posts: 724
 Joined: 16-October 05
 From: Gulag, Siberia
 Member No.: 8,322

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 **desertrat**

Sep 1 2006, 02:41 AM

Post #12



I've been trying to get icewm to recognise the non-standard modifier keys (ie Fn, Super_L) so that I can use them as hotkeys to launch commands, and failed.

So now I'm trying xbindkeys and in using the "-mk" option to determine the keycodes I've discovered something weird: when I press the "Calendar" key on its own I get:

CODE

```
"NoCommand"  

  m:0x4 + c:96  

  Control + XF86LaunchA
```

That is the Calendar key is mapped to both **XF86LaunchA** and **Control**. Now in the default pdaxrom/openbox setup the Calendar and Address keys are duplicates of Ctrl and Alt, *however* I have taken steps to remove these redundant mappings and I only use the **Ctrl** key for **Ctrl** and the key to the right of that for **Alt**. I have attached my /etc/X11/kb/akita.xmodmap file, it's based on Meanie's file along with some contributions from various places in this forum. And here is the contents my kernel.map file:

CODE

Group: Members
 Posts: 724
 Joined: 16-October 05
 From: Gulag, Siberia
 Member No.: 8,322

```

keycode 65 = Tab
alt keycode 65 = Caps_Lock
shift keycode 65 = Caps_Lock
control keycode 65 = Caps_Lock
keycode 27 = Shift
keycode 89 = Alt
keycode 88 = Control
keycode 112 = Shift
    
```

BTW how does the keycode here relate to the keycodes obtained using xev?

Also I am not using openbox so whatever is in /etc/xdg/openbox/rc.xml is irrelevant.

So the question is where is the Calendar key being mapped to Ctrl? Now for the weirder thing, I start mrxvt and open a bunch of tabs, now if I press Calender+d quickly then I just get 'd' displayed in the terminal, but if I press and hold Calendar down for a couple of secs then also press d, I get the equivalent of Ctrl+d which of course closes one of my tabs.

Attached File(s)

 [akita.xmodmap.txt](#) (3.23K) Number of downloads: 81

 SL-C3100 / Ambicon WL1100C-CF / pdaXrom 1.1.0beta3 / IceWM

 TOP  REPORT

 QUOTE  REPLY

 **uMP2k**

Oct 3 2006, 09:29 PM

Post #13



Group: Members
 Posts: 79
 Joined: 8-June 06
 From: Perth - Sunny Oz
 Member No.: 10,104

QUOTE(desertrat @ Sep 1 2006, 04:41 AM)

So the question is where is the Calendar key being mapped to Ctrl? Now for the weirder thing, I start mrxvt and open a bunch of tabs, now if I press Calender+d quickly then I just get 'd' displayed in the terminal, but if I press and hold Calendar down for a couple of secs then also press d, I get the equivalent of Ctrl+d which of course closes one of my tabs.

This is exactly the question I have been trying to work out. How can I make the Calender, Address, Home, etc keys available to be allocated as shortcuts keys. I have been able to allocate the menu key in xfce4's keyboard shortcut setup, but these other keys are not available as they seem to be wired up to Alt and Control. Anybody know where I can change this?

 My new toy: C1000/pdaXrom/xfce4 and Rox - now I just have to get it all working!.

Other stuff: Axim x50v and a brace of Newtons....!

 TOP  REPORT

 QUOTE  REPLY

 **zi99y**

Dec 8 2006, 06:09 AM

Post #14

Have you checked /etc/xkmc ? My default setup only had Fn + 1,2,3,4 , and the hinge switch key mappings configured by default but maybe there are some others in yours. Worth a look anyway.

I'm actually trying to fix a mapping problem with the silkscreen patch for the CXX00 series in this thread: http://www.oesf.org/forums/index.php?showt...=0_entry148438

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See my fluxbox HOWTO

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 **desertrat**

□ Dec 8 2006, 02:28 PM

Post #15



QUOTE(zi99y @ Dec 7 2006, 10:09 PM)



Have you checked /etc/xkmc ?

I don't have this file. What is it for? Could you please attach a copy here?

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Joined: 16-October 05
From: Gulag, Siberia
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■ **Lots Of Keymapping Questions** Options ▾

zi99y Dec 8 2006, 06:42 PM Post #16

Sure, here is the contents:

```

CODE
#####
#
# Exec
# keycode, modifier, Exec, Command, Extra parameters
#
#####
#keycode=25, Control+Shift, Exec, xterm -fg green2 -bg black -sb -sl 1000 -cr green2, Fork, NoAutoRepeat
#keycode=49, Control, Exec, xmodmap -e "pointer = 1 2 3", NoFork, NoAutoRepeat
#keycode=50, Control, Exec, xmodmap -e "pointer = 2 1 3", NoFork, NoAutoRepeat
#keycode=51, Control, Exec, xmodmap -e "pointer = 3 2 1", NoFork, NoAutoRepeat
keycode=110, none, Exec, chkhinge, NoFork, NoAutoRepeat
#keycode=49, Mode_switch, Exec, xrandr -s 0, NoFork, NoAutoRepeat
#keycode=50, Mode_switch, Exec, xrandr -s 1, NoFork, NoAutoRepeat
#keycode=51, Mode_switch, Exec, setfl -, NoFork, NoAutoRepeat
#keycode=52, Mode_switch, Exec, setfl +, NoFork, NoAutoRepeat
    
```

My edits were to comment out the last four lines. Clearly it's only for key mappings in X11.

[Conics SL-C3200 / 4Gb CF / Planex GW-CF11X wifi](#)
[Running PDAXROM Beta 3 with IceWM](#)

[See my fluxbox HOWTO](#)

Meanie Jan 5 2007, 11:44 AM Post #17

I finally got accessx (sticky keys) working the way I like, ie the same as in Sharp/Cacko with keyhelper enabled.

you will need to enable accessx in startx script by setting defaultserverargs to " +kb +accessx -screen 480x640@270"

then use the ax utility (which I have compiled and packaged up) with the following options to enable sticky keys:

```
ax +stickykeys -stickytwokeydisable -timeout
```

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[Netgear MA701 CF, SanDisk ConnectPlus CF, Socket Bluetooth CF, 4GB Kingston CF, 4GB pqi SD, 4GB ChoiceOnly SD, 2GB SanDisk SD USB Plus, 1GB SanDisk USB Plus, 1GB Transcend SD, 2GB SanDisk MicroSD with SD adaptor, Piel Frama Leather Case, GoldX 5-in-1 USB cable, USB hub, USB mouse, USB keyboard, USB ethernet,](#)

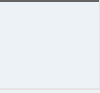
USB HDD, many other USB accessories...
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<http://www.users.on.net/~hluc/myZaurus> - [zBook3K](#)

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Meanie

Apr 4 2007, 07:22 AM

Post #18



Group: Members
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I updated spitz.xmodmap as follows:

<http://www.users.on.net/~hluc/myZaurus/pdaxii13.html#keymap>

this works well with sticky keys and the silkscreen and supports most characters required by german and french words...

the only problem is caps lock which requires hacking Xfbdev and thus caps lock is disabled. the other annoyance is that you cannot use Fn+1,... which I worked around by assigning those to Super+1,... but to fix that Xfbdev needs to be hacked as well just like the caps lock problem...

btw, silkscreen work because of a patch in Xfbdev...

 SL-C3000 - pdaXii13 build5.4.9 (based on pdaXrom beta3) / SL-C3100 - Sharp ROM 1.02 JP (heavily customised)
 Netgear MA701 CF, SanDisk ConnectPlus CF, Socket Bluetooth CF, 4GB Kingston CF, 4GB pqi SD, 4GB ChoiceOnly SD, 2GB SanDisk SD USB Plus, 1GB SanDisk USB Plus, 1GB Transcend SD, 2GB SanDisk MicroSD with SD adaptor, Piel Frama Leather Case, GoldX 5-in-1 USB cable, USB hub, USB mouse, USB keyboard, USB ethernet, USB HDD, many other USB accessories...
 (Zaurus SL-C3000 owner since March 14. 2005, Zaurus SL-C3100 owner since September 21. 2005)
<http://www.users.on.net/~hluc/myZaurus> - [zBook3K](#)

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