

Best viewed on NetFront (640x480)

What is a Zaurus? Some kind of futuristic dinosaur?

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I got the Zaurus SL-C3000 and SL-C3100. These impressive little devices are almost perfect. They are made by Sharp, however, Sharp decided to only sell these models to the Japanese market.

Being in Australia this was a big disappointment. I tried to order one from Conics, but got no response from them for several weeks, which I think is unacceptable, so I asked a friend of mine who lives in Tokyo to send me one. It's so nice to have friends all over the world :)

I want to thank Sachiko for getting me my first Zaurus. Thank You very much Sachiko!!! You are the best!

The Zaurus is my replacement for my mini Laptop, the **Toshiba Libretto 50 CT**, which is now hosting this website running Redhat Linux.



The Sharp Zaurus SL-C3000 is the first step of my dream laptop becoming reality. I was sick of carrying a bulky and heavy laptop around and the other PDAs on the market did not appeal to me except for Sony's little Clie but that is another story. After the SL-C3000 died, I bought my second Zaurus, the SL-C3100 from PriceJapan. I ordered it Friday afternoon and it took 3 days to arrive in Sydney from Tokyo and clear customs. However, the local Post Office fucked up as usual and it took 2 more days to arrive. The Zaurus is an astounding technology gadget dreamt up by the Japanese and is the only PDA that really suits my needs. For instance, it runs **Linux**! Also the SL-C3000 was the first PDA with an internal HDD, and currently the SL-C3000 and SL-C3100 are one of the very few PDAs with an internal HDD. The 4 GB micro drive offers sufficient storage (for a PDA) and opens up many possibilities, such as using the Zaurus as a portable video and audio player. The Zaurus' HDD is also recognized by Windows as a plug-n-play USB storage device (but sometimes it is a pain to detect properly). The display of the Zaurus SL-C3000 and SL-C3100 is 3.7" in size and the VGA (640x480) screen is truly awesome. It's bright and razor sharp. And there's a built-in zoom function that allows you to zoom the screen. The screen's orientation automatically adjusts when swivelled. The swivelling screen transforms the shape of the Zaurus from PDA-style to laptop-style. Once in laptop-style, you can utilize the QWERTY keyboard, with its great tactile feedback. The Zaurus features an advanced character recognition for Japanese (kanji, hiragana and katakana) and English which is entered directly onto the touchscreen via a stylus pen. It also has a fully featured bi-directional Japanese-English dictionary and translation software. The Zaurus measures 124x87x25mm, and weighs 298g.



And here is my Zaurus next to my new PC. It's tiny in comparison.



Specs

Features:

- Intel XScale PXA270 CPU at 416MHz
- 640x480 transreflective touch screen, 3.7" diagonal, backlit
- 4 GB internal hard drive
- 64 MB memory (SDRAM)
- 16 MB Internal Flash for SL-C3000 / 128 MB Internal Flash for SL-C3100
- USB host capability (USB OTG implementation)
- Weight 298g, Size 128x87x24 mm
- 1800 mA Lithium Battery (up to 7 hours)
- White Colour (SL-C3000) / Black Colour (SL-C3100)
- Compact Flash (CF-II) and Secure Digital (SD) expansion slots
- Infra-Red port
- 3.5mm stereo audio out/microphone in, plus small built-in speaker
- Landscape/Clamshell or portrait style, hot-switchable
- Full QWERTY keyboard with bonus Japanese characters
- Operating System: Linux kernel 2.4.20 from Lineo
- Graphical User Interface (GUI): Qtopia 1.5.4 from Trolltech
- Suite of Personal Information Management (PIM) applications
- Hocom Mobile Office
- Broad compatibility with established Sharp Zaurus software base

USB OTG:

The SL-C3000 and SL-C3100 use the new USB OTG (On-The-Go) connector which allows both mini A and mini B plugs to be plugged in. When a mini B is plugged in, the Zaurus will act as a USB client, ie the Zaurus becomes a USB storage device to the connected host PC or Laptop. When the mini A is plugged in, the Zaurus will act as a USB host and you can attach USB devices such as keyboards, mouse, disks, etc. to it.

Here is how USB mini A and USB mini B look like side by side:



The standards for USB are defined by the USB-IF (USB - Implementers Forum). The OTG 1.0 is a new extension to the USB 2.0 specifications. USB 2.0 defines the following speeds:

- USB 2.0 High Speed - 480Mbps
- USB 2.0 Full Speed - 12Mbps (same as USB 1.1 speed)
- USB 2.0 Low Speed - 1.5Mbps

In order to be USB 2.0 compliant, one or more of the above speeds has to be implemented. The Zaurus implements the USB 2.0 Full Speed data rate for file transfers and the USB 2.0 Low Speed data rate for peripherals such as mice and keyboards. It does not implement the USB 2.0 High Speed data rate.

C3000 vs. C3100:



The most noticeable difference between the C3000 and the C3100 is their colour. The C3000 has a smooth white cover whereas the C3100 is mainly black with dark silver frame for the screen. The C3100 case also feels like it is made of granite while the C3000 feels more metallic and smooth.

Internally, the difference is the amount of flash memory. The C3000 only has 16MB whereas the C3100 has 128MB. This difference in flash memory does give the C3100 a small boost in speed over the C3000 (no spin-up time when loading applications).

The software works the same in both models, but there is some differences in management and maintenance when going down to the details level. There is also more software provided with the C3100, but the additional software is all in pure Japanese only. The C3000 comes with 2 CD-ROMs whereas the C3100 comes with 3 CD-ROMs, the additional CD contains data for the extra software.

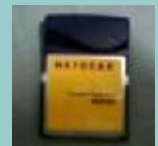
The other difference is that the C3000 came with a tiny power adaptor which only worked with 100V input (Japan only). The C3100 comes with a slightly bigger power adaptor which works with 100-240V input.

Additions:



Although the **Zaurus SL-C3000** and **Zaurus SL-C3100** are great little devices, there are a few essential things missing which I had to add in order to make them perfect. Since I live in Australia, the **power adaptor** was a little problem with the SL-C3000 since it only came with a 100V power adaptor and I needed to find a compatible adaptor. Both Dicksmith and Tandy have a relatively small adaptor (made by Digitor) which has the required 5V input at 1A for around AUD \$40. Jaycar even has one for AUD \$30 (another brand and slightly bigger). The SL-C3100 comes with a 100-240V power adaptor (5V input at 2A) so all that was needed was a cheap Australian plug adaptor.

In addition, I wanted to have wireless networking so I can surf the net, use Yahoo Messenger and IRC as well as share files with my other computers over my home network. This requires a wireless CF adaptor card, but getting one was not such an easy task since Australia is quite behind Asia in terms of the technology market. Most computer shops did not even know what a wireless CF card was and those who knew had to order it in (3-4 days) since there was no demand for them and hence none of them had any in stock. The Zaurus supports 802.11b wireless compact flash and generally in Australia this means the Netgear MA701 or the D-LINK DCF-660W Air. I got myself the **Netgear MA701** which costs around AUD \$100 because none of the shops had a D-Link in stock. I recently also found a SanDisk Connect Plus 128M for only AUD \$79.



I also found a **USB mini A host adaptor cable** to enable the USB host capability of the Zaurus. Harris Technology has them (**GoldX 5-in-1**) for around AUD \$40 and Office Works has them (Comsol 5-in-1) for only AUD \$30. The cable comes with a little leather pouch which contains five different interchangeable USB connectors: USB Male A, USB A Female, USB B Male, Mini USB A and Mini USB B. I also found some cheaper cables made by Avico. The **Avico USB Digital Camera Cord** comes in several models. The CC1542 is a USB A to USB mini A cable and the CC1522 is a USB mini A to USB mini B cable and costs AUD \$9.95 each.

I also wanted to connect my Zaurus to different LANs via ethernet networks and got myself a tiny **USB LAN adaptor**. This cost me AUD \$30. In addition to that, I have a small **retractable CAT5 network cable** made by Aidata (bought from Japan on my last trip there for approximately AUD \$20).



Since a single USB connection is rather limiting, I also got a **Blue Eye powered mini USB Hub** so I can connect up multiple USB devices at the same time. I opted for a powered hub instead of a cheaper unpowered one which I had lying around. With a powered hub I can connect my **BlueEye 40 GB 2.5" USB HDDs** to the Zaurus. The 5V at 1A power required by the HDD had to come from the USB Hub. But be careful, most powered USB hubs only provide 5V at 500mA which is not sufficient for some harddisks. The Blue Eye hub costs around AUD \$40 and is one of the few that supplies the necessary 1A. In fact, its AC adaptor supplies 2A, which means it can handle more than 1 harddisk. Most 2.5" disks only need 500mA to run, but 1A to power up. 3.5" harddisk enclosures normally come with an AC power so those can be used with an unpowered hub and I was able to use my **BlueEye 200 GB 3.5" USB HDD** which was NTFS formatted with the Z. I have also tried the BlueEye hub with four disks plugged in without problems. While shopping around I have found another place which sells the Blue Eye Hub for only AUD \$25, so I got myself another spare. Also, the USB hub powers my USB desklight which costs around AUD \$20. BlueEye devices are made/distributed by Noontech.



The hub also allowed me to simultaneously use my **mini USB mouse** and **mini USB keyboard**. The mouse is particular useful when running X windows on the Z. The keyboard I normally only use with my Zaurus when I need to type a lot. Almost any standard USB keyboard should work with the Zaurus. The keymapping needs some adjustments since the Zaurus keymapping layout is Japanese and not English by default but this can be easily changed since it is mainly QWERTY based.



I also got a pack of spare stylus so I can leave one at the office. In addition, I bought the **Belkin 4-in-1 stylus** for around AUD \$39. It is the size of a normal pen so it feels quite natural to use. When you use it, you get the feeling that the stylus tip is very soft and won't damage your screen. The tip can also be retracted like most pen by a simple twist and it even has a pen built-in that can be used to write. On the other end there is a light and a laser pointer. The laser pointer is quite handy since I do quite a lot of presentations and the light is pretty cool and helps in the dark. An exact copy of the Belkin 4-in-1 can also be found at Jaycar for half the price, and for an even cheaper copy, try Vietnam where you can get it for around AUD \$10 only. The copies also come in a wooden pen box with extra spare batteries as well.



Photos from my digital camera can be easily transferred to the Zaurus either via USB connection (using the Avico or GoldX cables) or by directly inserting the SD Memory Card from the camera into the Zaurus' SD slot. Some of my other cameras use CF Memory Cards, but the Zaurus has a slot for them as well. I also got myself a few additional SD and CF cards, in particular, the **4GB Kingston CF card** and the **4GB pqi SD card**. Now I got several SD and CF memory cards to swap in and out, and I also got a Kodak PCMCIA adaptor so I can use the CF cards in my Laptop too. The Zaurus made my All-in-One USB card reader redundant, however, I also bought a 4-in-1 CF adaptor which allows me to use additional memory cards in my Zaurus such as my **2GB memory stick duo**. I also got the new **2GB SanDisk Ultra II plus USB** which is a mini SD card with a USB adaptor stuck on it so you can use it as a normal SD as well as a USB stick.

Finding a **Leather Carrying Case** that fit the C3000/C3100 was another challenge. The normal PDA cases were not made for the C3000/C3100 but I eventually found a leather carrying bag for cameras that was perfect. It even had a little pouch on the front for my CF cards and could be attached to a belt or hung around the neck. The **Tamrac Digital Camera Bag** is made of ballistic nylon and genuine leather. It costs AUD \$45



I also bought a **Joytech PSP power extender** and since it has the same plug and power requirements as the Zaurus, I can use it with either my Zaurus or PSP to extend the battery power on a long haul flight. In addition, I bought an **AC to USB adaptor** which has several uses, ie charging my Zaurus, my Mobile phone, or powering my USB harddisk via a **USB y-cable**.

And here is my Zaurus (C3000) in all its glory surrounded with gadgets for it.



Additionally, I had to get the following from Tokyo since I could not get them locally in Australia. Thanks again to Sachiko for going shopping for me.

The **iRiver USB cable** works with the Zaurus. This cable is quite small and has a USB mini A connector on one end and a USB A Female on the other. It will be a handy addition to supplement my GoldX cable. It is currently also the cheapest USB mini A host controller cable available that I could find.

I also found a small USB power cable, the **Diatec P-Cord (P to Go)**. This little gem allows me to leave the bulky power adaptor at home. It can power the C3000/C3100 whilst plugged into a USB port of a PC or a Sun Ray (or even my spare USB hub). As a bonus this cable is also retractable. It is perfect for stuffing into a small pocket. In addition, this cable also has a little cousin which also includes a USB mini-b adaptor for synching as well so you can use it to charge and sync at the same time.



The screen on the Zaurus attracts quite a lot of dust. The **OverLay Brilliant** screen protector should protect my little Z's touchscreen. It will hopefully ensure my Z's screen will not be damaged and also reduces the glare when under direct sunlight, so now I can see what's on the screen even outside when the sun is shining on my Z. It can also be easily washed in warm water so cleaning is a breeze, but re-attaching it afterwards is a bit tricky. The inner side easily catches little dust particles which are very hard to remove and they cause bubbles on the screen. However, most importantly, it prevents scratches on the Z's screen.

Well, I already have a few spare styli, but one can never have enough spares, so I got the **Pilot Pentopia stylus**. This stylish replacement stylus looks and feels much better than Sharp's greyish plastic stylus that comes with the C3000 or the black stylus that comes with the C3100. The Pentopia stylus comes in a cool metallic colour with black ends and a red tip. And it is also extensible by a few centimeters to give it the length of a pencil. The extra metal weight also makes it feel like something with substance. It also has a pen under the black cap on the other end.



I have found a USB to VGA adaptor which can be used with the Zaurus. It is made by Kairen and contains a SiS 315E graphics chip and there is a custom driver for it ported to the Zaurus. With the driver and special application installed, you can use this adaptor to connect your Zaurus to a VGA monitor or projector. However, you will need a USB host cable (mini A) and a powered hub. You cannot plug this adaptor straight into the Zaurus. It requires additional power from the USB hub. The USB VGA adaptor was designed for USB high speed (480Mbps) in mind and runs very slow on the Zaurus which does not support this speed.

While in Thailand, I went to the Pantip IT Mall in Bangkok and found a few extra goodies.

The most useful item I believe was the Sony MDR-138 Super Bass Headphones (I don't think Sony really made it but who cares). This set of headphones has a retractable spindle for the cable and a clip for attaching it conveniently while it is retracted. It costs me only 280 Baht which is less than AUD \$10 and of much better quality than the usual retractable headphones that are now swamping the computer stores here locally. I also got a few other headphones, some with built-in microphones similar to mobile phone headsets but with two earpieces and 3.5mm connectors, and some of them are also retractable.



I also bought a slim USB combo CDRW/DVD drive for only 3500 Baht which is around AUD \$110. They also had battery powered USB harddisk enclosures for 1600 Baht which can be used to self power 2.5" USB harddisks without the need for an AC adaptor or powered hub.

Another bargain I picked up was the Kingston 4 GB Compact Flash memory card which cost me only 9500 Baht, around AUD \$300. In addition, I picked up a spare battery for my Z quite cheaply too.



Also found some retractable USB mini B cables for only 100 Baht each (around AUD \$3), so I could not resist and bought a few extra spare ones. Unfortunately, they did not have retractable USB mini A cables.



Software

Included Software:

The Zaurus SL-C3000 and SL-C3100 are LINUX-based PDAs. They come bundled with the following software:

- HancomWord (for .doc),
- HancomSheet (for .xls),
- TextEditor (for .txt),
- ImageViewer (for .jpg, .bmp, .gif),
- MoviePlayer (for .mpg),
- MusicPlayer (for .mp3),
- NetFront Browser,
- E-Mail Client,
- ToDo List,
- Calendar,
- AddressBook,
- Calculator,
- WorldTime,
- Dictionary,
- Translator,
- Terminal Window (need to be installed from CD-ROM),
- Telnet and FTP client (command line),
- English and Japanese handwriting recognition and keyboard input methods.

The C3100 also has the following software pre-installed by default which the C3000 does not have (These applications are only really useful if you are in Japan or know Japanese):

- BunkoViewer
- KiokuDojo (Memory Trainer)
- MobileMap
- Norikae (Transfer Guide)
- Database

The C3000 requires that you update/add the following software whereas the C3100 already comes with the updated versions of these:

- musicplayer2 - [musicplayer-C3000_2.0.0_arm.ipk]
- netfront3.1 - [netfront3.1-C3000_1.5.2_arm.ipk]
- photostorage - [photostorage_1.0.1_arm.ipk]

You should patch the SL-C3000 with the newer 1.11 ROM (card_update_3000111.exe) if it came with the older 1.01 ROM. Also, there are some new drivers and patches that you might need at <http://support.ezaurus.com/sl-c3000/update/>

The SL-C3100 should come with a 1.02 ROM. New drivers and patches for the SL-C3100 are located at <http://support.ezaurus.com/sl-c3100/update/>

The SD card driver shipped with the SL-C3000 and SL-C3100 only supports SD cards of sizes up to 1GB. The SL-C3200 comes with an updated SD driver which supports larger SD cards. This driver also works for the SL-C3000 and SL-C3100, however, Sharp only released it pre-installed on the SL-C3200. It has been extracted and re-packaged by the Zaurus user community.

Additional Software:

Even with all this software, there is still a lot of extra functionality that can be obtained by installing additional packages. The following is a list of applications and utilities that I have installed, most of which can be found on the ZUG feed (see Feeds section). I have provided the full filename of the packages which will make locating them with your favourite search engine much simpler. Also, I have archived up all my installed packages [here](#).

Applications and Utilities

for Qtopia GUI

- explorer - [explorer_1.0_arm.ipk]
- filelaunch - [filelaunch_0.4.5_arm.ipk]
- FNViewer - [FNViewer_1.3_arm.ipk]
- FreeNote - [FreeNote_1.13.2pre_arm.ipk]
- guigrep - [guigrep_1.3_arm.ipk]
- htmleditor - [htmleditor_1.0.0_arm.ipk]
- iconedit - [iconedit_0.9.4_arm.ipk]
- jabp - [jabp_1.1.4_arm.ipk]
- java-jed - [java-jed_1.0_arm.ipk]
- java-jportscan - [java-jportscan_1.0_arm.ipk]
- jftp - [jftp_0.23.1_arm.ipk]
- kaddressbook - [kaddressbook_2.1.2_arm.ipk]
- kani - [kani_1.2.0_arm.ipk]
- kino2 - [kino2_0.4.3c_arm.ipk]
- kismet-qt - [kismet-qt_2.0.0-3_arm.ipk]
- konqueror (browser) - [konqueror_snapshot_20020311_arm.ipk]
- kopiemail - [kopiemail_2.1.2_arm.ipk]
- korganizer - [korganizer_2.1.2_arm.ipk]
- minide - [minide_1.2_arm.ipk]
- mioreaderlite - [mioreaderlite_0_08_arm.ipk]
- mooview - [mooview_0.2_arm.ipk]
- neocal - [neocal_1.7.7-2_arm.ipk]
- opera7.3 (browser) - [opera_sl-5x00-7.30.9965_arm.ipk]
- opie-embeddedkonsole - [opie-embeddedkonsole_1.5.9-2_arm.ipk]
- opie-irc - [opie-irc_0.9.1-20020923_arm.ipk]
- opie-keypebble - [opie-keypebble_1.0.0-1_arm.ipk]
- opie-reader - [opie-reader_0.7h_arm.ipk]
- opie-security - [opie-security_1.5.0-20020319_arm.ipk]
- opie-wellenreiter - [opie-wellenreiter_1.0.2.1-20031220_arm.ipk]
- opieftp - [opieftp_0.9.1-20020702_arm.ipk]
- opie-reader - [opie-reader_0.7m_arm.ipk]
- petitepeinture - [petitepeinture_1.4a-1_arm.ipk]
- poqetp - [poqetp_0.0.6_arm.ipk]
- qazoo (yahoo messenger clone) - [qazoo_0.8.1_arm.ipk]
- qflashplayer - [qflashplayer_0.1.0-1_arm.ipk]
- qkonsole - [qkonsole_0.9.3-20040205_arm.ipk]
- qpPhoto - [qpPhoto_1.0.3_arm.ipk]
- qpaint - [qpaint_1.0.0_arm.ipk]
- qpdf2 - [qpdf2_freetype-2.2.1-20040217_arm.ipk]
- qpe-terminal - [qpe-terminal-ja_1.5.0-3_arm.ipk]
- qpe-voicerec - [qpe-voicerec_1.5.0-7_arm.ipk]
- qpzidian - [qpzidian_0.1_arm.ipk]
- qtopia-advancedfm - [qtopia-advancedfm_1.0_arm.ipk]
- shellcommander - [shellcommander_0.6.2-1_arm.ipk]

- SimpleEdit - [simple-edit_1.0.3_arm.ipk]
- TinyClassDeveloper - [TinyClassDeveloper_arm.1_arm.ipk]
- tinyviewer - [tinyviewer_0.3.1_arm.ipk]
- treeexplorer - [treeexplorer_1.7.0-2_arm.ipk]
- visualq - [visualq_0.5.6E_arm.ipk]
- yedit - [yedit_0.1-0_arm.ipk]
- zbedict - [zbedic_0.9.4-0_arm.ipk]
- zeditor - [zeditor_3.3.2english_arm.ipk]
- ziciz (irc) - [ziciz_0.88_arm.ipk]
- zmeeting - [zmeeting_1.1_arm.ipk]
- zplayer - [zplayer_0.0.5_arm.ipk]
- zuc - [zuc_640x480-1_arm.ipk]

for Qtopia Console

- aircrack - [aircrack_2.1-1_arm.ipk]
- gawk - [gawk_3.1.5_arm.ipk]
- bitchx (irc) - [bitchx_1.1-final_armv5tel.ipk]
- bzip2 - [bzip2_1.0.2-1_arm.ipk]
- cpio - [cpio_2.6_arm.ipk]
- dos2unix - [dos2unix_1.0-1_arm.ipk]
- fdisk - [fdisk_2.11g-4_2_arm.ipk]
- file - [file_3.39-2_arm.ipk]
- flite - [flite_arm_bin.tar.gz]
- hping2 - [hping2_2.0.0-rc3-3_arm.ipk]
- imgresiz - [imgresiz_1.0_arm.ipk]
- lftp - [lftp_2.6.7-1_arm.ipk]
- links - [links_2.1pre17-1_arm.ipk]
- lsof - [lsof_4.57-1_arm.ipk]
- madplay - [madplay_0.15.2b_arm.ipk]
- mc - [mc_4.6.0_arm.ipk]
- memcoder_1.1.0-1_arm.ipk]
- mplayer-bvdd - [mplayer-bvdd-iwmmxt_1.1.5-1_arm.ipk]
- ncftp - [ncftp_3.1.5-1_arm.ipk]
- netctl - [netctl_0.3.0-1_arm.ipk]
- nmap - [nmap_3.70-3_arm.ipk]
- openssh-client - [openssh-client_3.6.1p1_arm.ipk]
- qarg - [qarg_0.1.0-1_arm.ipk]
- qcop2 - [qcop2_0.1.0-1_arm.ipk]
- qshdlg - [qshdlg_0.6.2-1_arm.ipk]
- qttdlg - [qttdlg_0.4.1-1_arm.ipk]
- shine - [shine_0.01_arm.ipk]
- smbmount - [smbmount_0.1_arm.ipk]
- spxrec - [spxrec_0.0.1_arm.ipk]
- sudo - [sudo_1.6.3p7-2_arm.ipk]
- top - [top_0.3.6_arm.ipk]
- unrar - [unrar_3.5.4-lite-1_arm.ipk]
- unzip - [unzip_5.24_arm.ipk]
- vim - [vim_6.1_arm.ipk]
- wget - [wget_1.10.2_arm.ipk]
- zip - [zip_2.3_arm.ipk]

Services and Runtimes

- apache - [apache-1.3.27-php-4.2.3_0.1_arm.ipk]
- clipboard-applet - [clipboard-applet_1.0.0-1_arm.ipk]
- cool-icons - [cool-icons_0.0.1_arm.ipk]
- dosbox - [dosbox_0.6.3_arm.ipk]
- dummydev - [dummydev_0.01-1_arm.ipk]
- iproute - [iproute_z2.2.4-now-ss991023-1_arm.ipk]
- java 1.3 - [java1.3_1.01-oxy2_arm.ipk]

- jeode - [jeode_1.10.7_arm.ipk]
- joyenabler - [joyenabler_1.3_arm.ipk]
- keyhelper - [keyhelper_1.2.2-1_arm.ipk]
- keyhelperconf - [keyhelperconf_0.3.0-1_arm.ipk]
- kismet - [kismet-2005-08-R1-arm.ipk]
- LUSScreenSaver - [LUSScreenSaver_1.4.6-1_arm.ipk]
- LUSScreenSaverUtil - [LUSScreenSaverUtil_1.3.5-1_arm.ipk]
- LUSSSFish - [LUSSSFish_1.0.0-1_arm.ipk]
- LUSSSMessage - [LUSSSMessage_1.0.0-1_arm.ipk]
- LUSSSPicture - [LUSSSPicture_1.1.1-1_arm.ipk]
- LUSSSUniverse - [LUSSSUniverse_1.0.0-1_arm.ipk]
- nethelper - [nethelper_0.3.0-1_arm.ipk]
- opie-sh - [opie-sh_0.5.1-20020527_arm.ipk]
- Plasterer - [plasterer_2.1.0-1_arm.ipk]
- perl - [perl_5.6.1_arm.ipk]
- qcoptest - [qcoptest_0.1.1_arm.ipk]
- qpe-suspendapplet - [qpe-suspendapplet_1.5.0-3_arm.ipk]
- qpose-bin - [qpose-bin_3.5-0.2-1_arm.ipk]
- qpose-data - [qpose-data_3.5-0.2-2_arm.ipk]
- sambacontroller - [sambacontroller_0.1-0_arm.ipk]
- shell - [shell_latest_arm.ipk]
- smbmount - [smbmount_0.1_arm.ipk]
- smbmounter - [smbmounter_0.1-2_arm.ipk]
- smbpasswd - [smbpasswd_0.1-1_arm.ipk]
- snes9x_sdl - [snes9x_sdl-1_arm.ipk]
- sun personal-profile (j2me) - [personal-profile-for-zaurus_arm.ipk]
- tasklist-applet - [tasklist-applet_1.0.5_arm.ipk]
- vpnc - [vpnc_0.3.2-1_arm.ipk]
- zbasilisk - [zbasiliskii_0.3_arm.ipk]
- zbochs - [zbochs.tar.gz]
- zemufe - [zemufe_0.1.1-3ex_arm.ipk]
- zgnuboy - [zgnuboy_1.0.3-3_arm.ipk]
- znester - [znester_7.1-1_arm.ipk]

Libraries and Drivers

- bvdd - [bvdd_0.4.0-1_arm.ipk]
- ipsec-module - [ipsec-module_2.4.20-1_arm.ipk]
- kern-mod-squashfs - [kern-mod-squashfs_c3000-2.1-2_arm.ipk]
- kmicrokdelibs - [kmicrokdelibs_2.1.2_arm.ipk]
- libffmpeg - [libffmpeg_0.4.6_20030304_arm.ipk]
- libgc - [libgc_6.3alpha4-1_arm.ipk]
- libglade - [libglade_2.0.1-1_armv5tel.ipk]
- libfloat - [libfloat_1.0_arm.ipk]
- libiconv - [libiconv_1.8-2_arm.ipk]
- libmad - [libmad_0.14.2b-1_arm.ipk]
- libncurses - [libncurses_5.0_arm.ipk]
- libogg - [libogg_1.1.2-1_arm.ipk]
- libopie1 - [libopie1_1.1.0-20031220_arm.ipk]
- libopie2 - [libopie2_1.8.2-20031220_arm.ipk]
- libcap0 - [libpcap0_0.7.2-20031220_arm.ipk] [libpcap0_0.7.2_arm.ipk]
- libperl - [libperl_5.6.1_arm.ipk]
- libpng3 - [libpng3_1.2.4-1_arm.ipk]
- libsdl-image - [libsdl-image_1.2.5cvs-1_arm.ipk]
- libsdl-mixer - [libsdl-mixer_1.2.5cvs-1_arm.ipk]
- libsdl-net - [libsdl-net_1.2.5cvs-1_arm.ipk]
- libsdl 1.2.5 - [libsdl_1.2.5-slzaurus20050410_arm.ipk]
- libvorbis - [libvorbis_1.1.0-1_arm.ipk]
- libvorbisdec - [libvorbisdec_1.2.0-1_arm.ipk]
- libxml - [libxml2_2.6.14-1_arm.ipk]
- libyahoo2 - [libyahoo2_cvs-20040713_arm.ipk]

- qpe-libqtopia - [qpe-libqtopia_1.6.0-13_arm.ipk]
- openssl - [openssl_0.9.7d_arm.ipk]
- opie-mediaplayer-codecs - [opie-mediaplayer-codecs_0.2.2_arm.ipk]
- sandisk-plus - [sandisk-plus_0.1_arm.ipk]
- tun-module - [tun-module_2.4.20-1_arm.ipk]
- vga-presentation - [vga-presentation_1.0.1_arm.ipk]
- wlan-prism3 - [wlan-prism3_1.0.0_arm.ipk]
- zlib - [zlib_1.2.2-1_arm.ipk]

Games

- supertux - [supertux_0.1.2-3_arm.ipk]
- aliens - [aliens_1.0.0_arm.ipk]
- barrage - [barrage_1.0.2_arm.ipk]
- lgeneral - [lgeneral_1.2beta-2_arm.ipk]
- lmarbles - [lmarbles_1.0.7-2_arm.ipk]
- ltris - [ltris_1.0.10-2_arm.ipk]
- freeciv - [freeciv_zaurus_0_0_5_bin.tar.bz2]
- qfish2 - [qfish2_1.1.0-sl700_arm.ipk]
- tetrax - [opie-tetrax_1.5-1_arm.ipk]
- billiardz - [billiardz_0.1.2_arm.ipk]
- backgammon - [backgammon_0.6.1_arm.ipk]
- Jahtzee - [jahtzee_0.9.1_all.ipk]
- gomoku_moro - [gomoku_moro_1.0.2_arm.ipk]
- qpe-patience - [qpe-patience_1.5_arm.ipk]
- cards - [cards_1.0.0_arm.ipk]
- shisensho - [shisensho_1.0.0_arm.ipk]
- ksokoban - [ksokoban_1.5.0-16_arm.ipk]
- mahjongg - [mahjongg_1.0.0_arm.ipk]
- spades - [spades_1.0_arm.ipk]
- zsolaire - [zsolaire_1.02_arm.ipk]
- zknights - [zknights_0.6.1-1_arm.ipk]
- Eliminator - [Eliminator_1.0_arm.ipk]
- javachess - [javachess_1.0_arm.ipk]
- javanoid - [javanoid_1.54-2_arm.ipk]
- laserchess - [laserchess_1.09_arm.ipk]
- coffeeChess - [coffeeChess_0.0.1_arm.ipk]
- javello - [Javello_0.0.1_arm.ipk]
- zudoku - [zudoku-figlabs_1.1_arm.ipk]
- warp - [warp_1.0_arm.ipk]
- warpfleet - [warpfleet_0.1_arm.ipk]
- doom (doomdemo and prboom) - [doomdemo_1.8-1_arm.ipk] [prboom_2.2.3-2_arm.ipk]
- quake - [qpe-quake_1.5.0-2_arm.ipk] [qpe-quake-data_1.5.0-1_arm.ipk]
- heretic - [heretic-demo_1.2-3_arm.ipk] [heretic-engine_1.0.4-2_arm.ipk]
- ctux (cyclone tux) - [ctux_1.0.0_arm.ipk]
- dtux (dancing tux) - [dtux_1.0.0_arm.ipk]

Well, Tux isn't really a game but it is funny. You will need to install [qpe-libqtopia_1.6.0-13_arm.ipk] for tux.

A lot of applications written for prior Z versions still work for the C3000 and C3100, however, the screen is rotated to portrait by default for those applications which can be changed easily. Most require no changes to work, but some need some tweaking in order to work properly on the C3000 and C3100. Look in the customisation section for details for those.

Generally, feeds for Cacko and pdaXrom are also good sources for finding applications written for the older Sharp models. They will run on Qtopia and X/Qt respectively.

The Sharp ROM on the C3000 is not really a ROM image. It really is a misnomer carried on from previous models. The SL-C3000 doesn't really have a flashable ROM image with the full OS and applications on it. Those are stored on the MicroDrive (harddisk) instead on the C3000. It really is a Zaurus Linux distro packaged by Sharp. There are several other distros other than the Sharp one available for the Zaurus in various stages of development. I have created a dedicated section on [alternate distros/ROMs for the SL-C3000 and SL-C3100](#). The customisation section that follows is

primarily for the stock Sharp distro but may also be applicable to Cacko since Cacko is an improved version of Sharp distro with various customisations and enhancements already applied. I have also created sub pages dedicated to [customising pdaXrom](#) and [customising OpenZaurus](#) for the SL-C3000 and SL-C3100.

In addition, you can also run Debian packages if you install Pocket Workstation. OpenOffice for example works under Pocket Workstation. See the X/Qt section for more details.

There are also lots of emulators available for the Zaurus with which you can run applications and games for Nintendo, GameBoy, AppleII, Palm and even DOS. You can even run Java applications and games from your mobile phone on the Zaurus with a MIDP enabled J2ME implementation.

I also build a few ipk packages to make it easier to customise the Zaurus. Here is a quick summary of them and what they do. The customisation section has further details. The packages are zipped (not for compression but to prevent them from getting corrupted) so you will have to unzip them before you can install them.

- [[c3000-custom-jaen_0.2_arm.ipk](#)] - add English to the menus
- [[zicons-wmtux_0.2_arm](#)] - icon package for replacing system icons and extra app icons
- [[keyhelper-c3000map_0.4_arm.ipk](#)] - enhanced keyboard mapping for C3000 and C3100
- [[usbkbd-en_2.4.20_arm.ipk](#)] - switch USB keyboard map when keyboard is plugged in or unplugged
- [[dualkbd_2.4.20_arm.ipk](#)] - allow shift num pad on USB keyboard to function like shift numeric keys
- [[langswitch_0.2_arm.ipk](#)] - switch between English and Japanese menus
- [[bgswitch_0.1_arm.ipk](#)] - switch between several wallpapers
- [[netswitch_0.4_arm.ipk](#)] - control for USB network with drivers
- [[netswitch-lite_0.4_arm.ipk](#)] - control for USB network (no drivers)
- [[usblan-rtl8150_2.4.20_arm.ipk](#)] - USB network driver (rtl8150)
- [[usblan-pegasus_2.4.20_arm.ipk](#)] - USB network driver (pegasus)
- [[irnet_2.4.20_arm.ipk](#)] - irnet driver and config for IrDA networking
- [[bluetooth-support_1.23-1_arm.ipk](#)] - bluetooth drivers and tools
- [[bluetooth-gui-lite_1.23-1_arm.ipk](#)] - bluetooth tools without drivers
- [[ntfs-zaurus_2.4.20_arm.ipk](#)] - NTFS driver for Zaurus
- [[zmouse_0.1_arm.ipk](#)] - enable mouse for the Zaurus
- [[unicodfonts-verdana_1.5.0-3_arm.ipk](#)] - rotatable unicode font verdana
- [[libstdc6_1.2.2_arm.ipk](#)] - standard C library supplement for Sharp ROM
- [[libstdc5-compat-sharp_0.5_arm.ipk](#)] - pdaXrom C library supplement compatible with Sharp ROM
- [[xqt-debian-scripts_0.6.1_arm.ipk](#)] - custom X start script
- [[xqt-libXrender_1.2.2_arm.ipk](#)] - updated X-render library
- [[apachegui_0.1_arm.ipk](#)] - apache control GUI
- [[zflite-gui_0.2_arm.ipk](#)] - flite GUI
- [[filelaunch-en_0.4.5_arm.ipk](#)] - (not fully translated yet, but usable)
- [[opera-en-helper_0.0.2b_arm.ipk](#)] - opera config GUI (translated from Japanese)
- [[automounter-c3000_0.5.0_arm.ipk](#)] - auto mounter for USB drives and loop filesystems
- [[sdmmc-module_2.4.20_arm.ipk](#)] - updated SD driver to support larger SD cards
- [[usb-modules_2.4.20_arm.ipk](#)] - additional USB device drivers
- [[iptables-base_2.4.20_arm.ipk](#)] - minimum iptables
- [[iptables-additional_2.4.20_arm.ipk](#)] - additional iptables
- [[shorewall-c3000_1.4.5-1_arm.ipk](#)] - packet filter firewall
- [[kismet-misc_0.3_arm.ipk](#)] - kismet script for GUI launch and sound files
- [[j2me-zaurus_1.1.8_arm.ipk](#)] - personal profile for zaurus j2me with swing and compiler
- [[jlauncher_0.1_arm.ipk](#)] - java launch wrapper for j2me
- [[midp-launcher_0.2_arm.ipk](#)] - enables MIDP games to run with Jeode
- [[babbletower_0.9.3_arm.ipk](#)] - babbletower dictionary reader (requires j2me)
- [[dosbox_0.6.3-3_arm.ipk](#)] - dos emulator
- [[fbvncserver-c3000_0.9.4-0.2_arm.ipk](#)] - hacked fbvncserver for C3000/C3100
- [[qtopia-sysinfo_1.23-3_arm.ipk](#)] - enhanced sysinfo tool with process and mount controls as well as more detailed disk info
- [[qtopia-addressbook_1.23_arm.ipk](#)] - addressbook with alphanumeric sorting support
- [[qtopia-combbatteryapplet_1.0.6_arm.ipk](#)] - updated battery applet with overclocking/underclocking support
- [[qtopia-memoryapplet_1.0.4_arm.ipk](#)] - updated memory applet with better swapfile management
- [[qtopia-keyboardapplet_1.0.0_arm.ipk](#)] - keyboard layout mapper applet
- [[qtopia-network-usblan_1.0.0_arm.ipk](#)] - network config for usb lan adaptor
- [[qtopia-network-bluetooth_1.0.0_arm.ipk](#)] - network config for bluetooth adaptor
- [[qtopia-usbapplet_1.0.3_arm.ipk](#)] - USB device control applet
- [[japanese-support-c3100jaen_1.23_arm.zip](#)] - add Japanese support to Cacko 1.23

- [[pico 4.4 arm.ipk](#)] - console based file editor
- [[cpio 2.6 arm.ipk](#)] - archiving tool
- [[top 0.3.6 arm.ipk](#)] - system tool
- [[wget 1.10.2 arm.ipk](#)] - download tool
- [[qpPhoto 1.0.3 arm.ipk](#)] - graphics tool modified for C3x00
- [[yasump 0.40 arm.ipk](#)] - MOD player modified for C3x00
- [[ipktools 0.3.5 arm.ipk](#)] - various scripts for manipulating ipk files including conversion of debian packages into ipk files
- [[zgcc2-95-2-lite.zip](#)] - minimal Zaurus on-board gcc development environment
- [[zgcc2-95-2.zip](#)] - Zaurus on-board gcc development environment
- [[zgcc 2.95.3 \(cramfs\)](#)]/[[zgcc2-95-3 \(squashfs\)](#)] - extended and updated Zaurus on-board gcc development environment for X/Qt

I have also made a section dedicated to [X/Qt and Debian PocketWorkstation](#) that is more generic and not just for the SL-C3000 and SL-C3100 models. It contains the following:

X/Qt Jumbo and Applications packages

- [[xqt-gtk-jumbo_4.3-0.7.1_arm.ipk](#)] - X/Qt jumbo package
- [[firefox_0.9-3_arm.ipk](#)] - Mozilla Firefox
- [[thunderbird_0.6-3_arm.ipk](#)] - Mozilla Thunderbird
- [[xqt-gimp_1.2.5-3_arm.ipk](#)] - The Gimp
- [[abiword_2.0.0-2_arm.ipk](#)] - AbiWord

X/Qt Jumbo and Application compressed images

- [[xqt-gtk-jumbo.cramfs](#)] - X/Qt jumbo image
- [[xqt-apps.cramfs](#)] - X/Qt applications image
- [[xqt-mozilla.cramfs](#)] - Firefox and Thunderbird image
- [[xqt-openoffice.cramfs](#)] - OpenOffice image
- [[java.cramfs](#)] - Blackdown JRE 1.3.1 image
- [[xqt-install.sh](#)] - the installer for the X/Qt images

Debian PocketWorkstation and OpenOffice

- [[xqt-debian-jumbo-lite_4.3-0.7.1_arm.ipk](#)] - X/Qt jumbo lite for Debian
- [[xqt-debian-install.sh](#)] - X/Qt Debian install script
- [[zaurus-debian-jumbo-v18-b01.tar.gz](#)] - Debian tarball
- [[zaurus-debian-doc-v18.tar.gz](#)] - Debian docs tarball
- [[zaurus-debian-openoffice114.tar.gz](#)] - OpenOffice tarball

In addition, I have updated and enhanced the X/Qt packages with additional and newer libraries so that they can run the latest pdaXrom applications. A separate section for these new updated packages can be found in a dedicated [X/Qt super jumbo - pdaXQtrom](#) section. This section is also generic and not just for the SL-C3000 and SL-C3100 models. With these packages installed, you can run the latest X based applications under Sharp/Cacko.

pdaXQtrom Application packages

- [[abiword_2.4.0-2_arm.ipk](#)] - Word Processor
- [[aspell_0.60.4_arm.ipk](#)] - Spell Checker
- [[axyftp_0.5.1_armv5tel.ipk](#)] - FTP Client
- [[bluefish_0.13_armv5tel.ipk](#)] - Text Editor
- [[denemo_0.5.3_arm.ipk](#)] - Sheet Editor
- [[dia_0.92_armv5tel.ipk](#)] - Diagrams
- [[dillo-xft_0.8.5_arm.ipk](#)] - Web Browser
- [[dosbox-x11_0.6.3-3_arm.ipk](#)] - DOS Emulator
- [[epdfview_0.1.2_arm.ipk](#)] - PDF Viewer
- [[etherereal_0.10.9-1_armv5tel.ipk](#)] - Packet Analyzer
- [[firefox_1.5_arm.ipk](#)] - Web Browser
- [[fldtj-utf8_0.7_armv5tel.ipk](#)] - PIM
- [[free42_0.3_arm.ipk](#)] - HP Calculator
- [[gaim_2.0-b3_arm.ipk](#)] - IM Client
- [[calculator_1.2.5_arm.ipk](#)] - Calculator
- [[gftp_2.0.18_arm.ipk](#)] - FTP Client
- [[gimp_2.3.4_arm.ipk](#)] - Graphics Tool
- [[gnnumeric_1.6.0_arm.ipk](#)] - Spreadsheet
- [[gpaint2_0.2.3_arm.ipk](#)] - Image Editor
- [[gpe-edit_0.13_arm.ipk](#)] - Text Editor
- [[gpe-filemanager_0.23_arm.ipk](#)] - File Manager
- [[gpe-gallery_0.97_arm.ipk](#)] - Image Viewer
- [[gpe-soundbite_1.0.6_arm.ipk](#)] - Image Viewer
- [[gpe-word_0.2_arm.ipk](#)] - Word Processor
- [[gplflash_0.4.13_arm.ipk](#)] - Flash Player

- [gps_1.1_arm.ipk] - Graphical ProcessView
- [gpsdrive_2.10pre3_arm.ipk] - Global Positioning
- [gqview_2.1.1_arm.ipk] - Image Viewer
- [grisbi_0.5.9_arm.ipk] - Personal Finance
- [gtkyahoo_0.18.2_arm.ipk] - Yahoo IM Client
- [gyach_0.9.4_arm.ipk] - Yahoo IM Client
- [hp48_0.2_arm.ipk] - HP48 Emulator
- [knowde1.8.0_arm.ipk] - Knowledge Management
- [leafpad_0.7.9_arm.ipk] - Note Pad
- [links_2.1_arm.ipk] - Web Browser
- [mc_4.6.1-pre1_arm.ipk] - File Manager
- [minimo_1.7.12_armv5tel.ipk] - MiniMozilla
- [mplayer-1.1pre8_arm.ipk] - MPlayer for X
- [multi-aterm_0.2.1] - Terminal Emulator
- [nedit_5.4_armv5tel.ipk] - Text Editor
- [planner_0.13-1_armv5tel.ipk] - Project Management
- [putty_0.58_arm.ipk] - SSH Client
- [scite_1.62_arm.ipk] - Text Editor
- [smessy_0.1.1_arm.ipk] - SMS Messenger
- [stardict_2.4.3_arm.ipk] - Dictionary
- [sylvheed-gtk2_2.0.2_arm.ipk] - Email Client
- [thunderbird_1.0.7_arm.ipk] - Email Client
- [tightvnc_1.2.9-1_arm.ipk] - VNC Client
- [xarchiver_0.3.1_arm.ipk] - Archive Tool
- [xchat_2.6.0_arm.ipk] - IRC Client
- [xmms_1.2.10-4_arm.ipk] - Media Player
- [xpad_2.11_arm.ipk] - Sticky Pad
- [xpdf_3.01-4_arm.ipk] - PDF Viewer
- [xpdf-tools_3.01-4_arm.ipk] - PDF Extraction Tools
- [xjournal_0.3.1_arm.ipk] - Journal App

pdaXQtrom Games packages

- [cgoban_1.9.12_arm.ipk] - gnu go
- [gnuchess_5.07_arm.ipk] - chess
- [gsoko_0.4.2_arm.ipk] - sokoban
- [gtkatlantic_0.4.0_arm.ipk] - monopoly client
- [xbomb_2.1a_arm.ipk] - minesweeper
- [xdemineur_2.1.1_arm.ipk] - minesweeper
- [xkobo_1.11+w01_arm.ipk] - space game
- [xpuyopuyo_0.9.8_arm.ipk] - puzzle
- [xshogi_1.3_arm.ipk] - gnu shogi
- [xsokoban_3.3c_arm.ipk] - sokoban



Getting Started

Before embarking on customisation and hacking your Zaurus, you need to know how to handle it. There is a very good manual written by [TRIsoft](#) on this topic. Please refer to TRIsoft's C3000 manual which they provide for free:

- <http://trisoft.de/pdf/c3000qs.pdf> - the original TRIsoft quickstart manual in German
- <http://trisoft.de/pdf/c3000qse.pdf> - the translated TRIsoft quickstart manual in English

The TRIsoft quickstart manual is a very good summary on all the important things you need to know in order to operate your Zaurus. I personally prefer their original German version. Their English translation is not perfect but it is much easier to read than the original Sharp manual which is in Japanese. The TRIsoft manual concisely summarises just the important facts that you need.



User Manual

Once you have learned how to handle your Zaurus and discovered some of its features, you probably want to learn how to use the applications that come with the Zaurus. This shouldn't be a problem for most savvy users, but nevertheless, [FigLabs](#) have taken the time and written a complete user manual for the C3000, and they have made it available online: <http://www.figlabs.com/catalog/ug.php>



Customisation

Now that you have learned how to use your Zaurus, you probably want to customise it and get more out of it. Most information about the SL-C3000 and SL-C3100 found on the net is in Japanese and a lot of the instructions out there are for earlier models of the Zaurus. Although a lot of that info is still valid because the C3000 and the C3100 are backward compatible with lots of the older models not everything works. Since the C3000 and C3100 are newer, they have extra capabilities those guides do not mention. Also sometimes things that worked in the older version do not work on the

C3000 and C3100 anymore due to it being implemented differently on the C3000 and C3100. This guide is intended specifically for the SL-C3000 model (also sometimes referred to as Spitz) and the SL-C3100 model (also known as Borzoi), but a lot of the info can also be applied to similar models such as the SL-C1000 and the latest SL-C3200. In some areas, however, there are significant differences between the C3000 and C3100 models and those will be highlighted. The SL-C1000 (also known as Akita) is similar to the SL-C3100 but without the internal MicroDrive. The SL-C3200 (also known as Terrier) is also almost the same as the SL-C3100 except that it has a 6GB MicroDrive instead of a 4GB MicroDrive.

- [Essential Packages](#)
- [Installing Packages](#)
- [Installing a Terminal Console](#)
- [Localising/Converting to English](#)
- [Fonts](#)
- [Key Mappings](#)
- [File Associations](#)
- [Screen Orientation](#)
- [Run as root](#)
- [Application Preloading](#)
- [Startup Screen Customisation](#)
- [Wallpaper Customisation](#)
- [ScreenSaver Customisation](#)
- [Menu and Tab Customisation](#)
- [Using bash](#)
- [Zaurus Home Directory](#)
- [HDD3 Considerations](#)
- [MicroDrive Performance](#)
- [Zaurus Backup](#)
- [Zaurus Recovery/Restoration](#)
- [Zaurus ROM Update](#)
- [Zaurus Kernel Replacement](#)
- [Zaurus Maintenance](#)
- [Enable Networking](#)
 - Wireless CF
 - USB Lan
 - USB sync
 - IrDA net
 - Bluetooth
- [File Sharing and Services](#)
 - Samba
 - SSH
 - FTP
 - Web Server
 - VNC
- [Mounting Filesystems](#)
 - Mounting Samba Shares
 - Mounting USB Drives
 - Mounting SD and CF Cards
 - Remounting Filesystem as Read/Write or Read Only
 - Enabling Swap
 - Increasing tmp
 - Using cram or squash loopback Filesystem
 - Using ext2 or ext3 loopback Filesystem
- [Enable large SD cards \(bigger than 1GB\)](#)
- [Enable IrDa](#)
- [Enable Bluetooth](#)

- [Enable USB Mouse](#)
- [Enable USB Keyboard](#)
- [Enable USB Joypad](#)
- [Enable USB WebCam](#)
- [Enable USB CD-ROM](#)
- [Enable Microphone](#)
- [Connecting to VGA Monitor via USB](#)
- [Connecting to Mobile Phone](#)
- [Security](#)
 - [Hardening](#)
 - [Firewall](#)
 - [VPN](#)
 - [sudo](#)
- [Emulators](#)
 - [Game Emulators \(Nintendo and GameBoy\)](#)
 - [zpsx \(PlayStation\)](#)
 - [zbochs \(X86\)](#)
 - [dosbox \(DOS\)](#)
 - [qpose \(Palm\)](#)
 - [zbasilisk \(Apple\)](#)

- [Dictionaries](#)
- [Speech Synthesis](#)
- [Video Conversion](#)
- [File Managers](#)
- [PIM](#)
- [Installing Java](#)
- [Installing gcc](#)
- [Installing Perl](#)
- [Installing X/Qt](#)
- [Installing Debian/PocketWorkstation](#)
- [Installing OpenOffice](#)
- [Installing Mozilla \(Firefox and Thunderbird\)](#) (see pdaXqtrom section for updated info)
- [Installing X/Qt applications](#) (see pdaXqtrom section for updated info)
 - [abiword \(Word Processor\)](#)
 - [flfm \(File Manager\)](#)
 - [fltdj \(PIM\)](#)
 - [gimp \(Graphics\)](#)
 - [gnumeric \(Spreadsheet\)](#)
 - [xmms \(Multimedia\)](#)

- [Installing QuantumStep](#)
- [Installing Wellenreiter](#)
- [Installing Kismet](#)
- [Installing Yahoo Messenger clone Qazoo](#)
- [Installing mplayer \(and kino2 or zplayer\)](#)
- [Installing Opera](#)
- [Installing Doom](#)
- [Installing Quake](#)
- [Installing Heretic](#)

- [Installing Itris and other lgames](#)
- [Installing supertux](#)
- [Installing freeciv](#)
- [Installing pico](#)
- [Installing file](#)
- [Installing Cacko packages](#)
- [Building your own Packages](#)



Resources

- <http://ezaurus.com/lineup/sl/index.html> - Zaurus product page
- <http://support.ezaurus.com/sl-3000/qa/> - Zaurus SL-C3000 FAQ in Japanese
- <http://trisoft.de/zaurus.htm> - One of the better places for buying a Zaurus (they have an English manual too)
- <http://www.streamlinecpus.com> - TRIssoft's partner in the US
- <http://www.pulster.de> - Another place in Europe for purchasing a Zaurus
- <http://pricejapan.com> - Cheapest place for a Zaurus (if support is not important to you)
- <http://www.wolf.ne.jp/syuh/en/zaurus.html> - Zaurus accessories
- <http://www.zaurusworld.ne.jp/> - Sharp SpaceTown
- <http://software.ezaurus.com/> - Zaurus Software (Japanese)
- <http://www.zaurususergroup.org/> - Zaurus user group and software repository
- <http://www.oesf.org/forums/> - Zaurus help forum in English
- <http://www.linuxontour.de/modules/newbb/> - Zaurus forum in German
- <http://forum.zaurusfr.org> - Zaurus forum in French
- <http://externe.net/zaurus/forum/index.php> - Zaurus resource page in English and French
- <http://ssh.idv.tw/bbs/viewforum.php?f=30> - Zaurus forum in Chinese (ROC)
- <http://www.pumb.org/forumdisplay.php?fid=15> - Zaurus forum in Chinese (HK)
- <http://forum.zaurus.cn/> - Zaurus forum in Chinese (China)
- <http://www.sluser.org/slwiki/> - Zaurus resource wiki in Japanese
- <http://www.avati.com/kobako/c3000.htm> - Zaurus info page in Japanese
- <http://www.killefiz.de/zaurus/> - software repository
- <http://www.elsix.org> - software repository
- <http://www.pdaxrom.org> - alternate distro and software repository
- <http://www.openzaurus.org> - alternate distro and software repository
- <http://www.zaurusoft.com/> - software repository
- <http://zsi2.stonekeep.com/> - software repository
- <http://atty.skr.jp> - mplayer and emulators
- <http://www.gnurou.org/software/zaurus/> - games
- <http://zaurus.spy.org/> - lots of Z resources
- <http://www.takei.gr.jp/zaurus/zbook.html> - Zaurus Resources and Applications (in Japanese)
- <http://csx.jp/~zaurus/> - Zaurus Resources and Applications (in Japanese)
- <http://www.arenine.gr.jp/~nyano/> - Zaurus Resources and Applications (in Japanese)
- <http://tetsu.homelinux.org/zaurus/kernel/> - Tetsu's enhanced kernels

<http://noz.ub32.org/zaurus/emu.html> - emulators for Zaurus

<http://www.cartel-securite.fr/pbiondi/zaurus/zethereal.html> - Ethereal for Zaurus

<http://www.robfisher.net/zaurus/freeciv.html> - freeciv

<http://undertow.2y.net/zaurus/bin/> - misc zaurus binaries

<http://www.skill-engineering.com/zaurus/> - screensaver and other useful tools

<http://www.zaurusthemes.org> - Zaurus Themes and Wallpapers

<http://home.mchsi.com/~cmisip/zaurus.htm> - zaurus resource page (in English)

<http://www.wbcd.com/computing/zaurus/> - Dictionary Resources

<http://ebsnap.lkj.jp/zaurus/> - Dictionary Applications and Files

<http://tbox.jpn.org/linuzau/> - keyhelper and other tools

<http://pocketworkstation.org> - Debian PocketWorkstation for the Zaurus

<http://people.debian.org/~rene/openoffice.org/test/arm/> - OpenOffice for the Zaurus

<http://www.tyrannozaurus.com> - news about what is happening in the Zaurus world

<http://www.thesounddesign.com/zaurus/beta3.htm> - info about latest stable version of pdaXrom



Feeds

Cacko/Sharp ROM compatible

<http://www.zaurususergroup.org/feed/> - ZUG feed

<http://zaurus.spy.org/feeds/docs-zaurus-com/> - another zaurus feed

<http://web.mol.ru/~zaurus/feed/> - another zaurus feed with Cacko and X/Qt packages

<http://bryandeluca.com/cacko/feed/> - Cacko feed

<http://xqt.sourceforge.jp/feed-testing/> - X/Qt feed

<http://xqt.sourceforge.jp/feed/> - X/Qt feed

<http://www.pdaxrom.org/oldunstable/> - pdaXrom feed (old but works with X/Qt)

<http://mail.pdaxrom.org/downloads/1.1.0beta1/XQt/feed/> - pdaXrom 1.1.0beta1 feed (compatible with X/Qt)

<http://pdaxqtrom.thegrinder.ws/files/feed/> - pdaXqtrom feed (compatible with X/Qt)

<http://opie.handhelds.org/feed/unsupported/sharprom/> - old opie feed

<http://sharpromfeed.home.linuxtogo.org/feed/> - new Sharp compatible feed build using OE

pdaXrom 1.1 beta1/beta3 compatible

<http://mail.pdaxrom.org/downloads/1.1.0beta1/Zaurus-7x0-860/feed/> - generic pdaXrom feed (for 1.1.0beta1)

<http://mail.pdaxrom.org/downloads/1.1.0beta1/Zaurus-C1000-C3100/feed/> - C3x00 specific pdaXrom feed (for 1.1.0beta1)

<http://mail.pdaxrom.org/downloads/1.1.0beta3/Zaurus-Cxx0/feed/> - C3x00 specific pdaXrom feed (for 1.1.0beta3)

<http://pdaxrom.sourceforge.jp/feed/> - Japanese support file feed for pdaXrom

<http://www.pdaxrom.org/feed/> - pdaXrom feed (old feed)

<http://www.pdaxrom.org/unstable/> - pdaXrom feed (contribs)

<http://zaurus.daemons.gr/menaie/pdaxrom/feed/contrib/> - custom contrib feed

<http://zaurus.spy.org/feeds/cacko/pdaxrom/1.1.0/> - mirror and backup of all the official pdaXrom release feeds

<http://www.tyrannozaurus.com/feed/beta3/feed/> - custom combined beta3 feed

<http://www.tyrannozaurus.com/feed/beta3/custom/> - custom/update feed

OpenZaurus 3.4.5.1 compatible

<http://mirror.hentges.net/www.openzaurus.org/3.5.4.1/feed/> - Hentges feed

If you would like to support contributors to the Zaurus community you can make a small donation via Paypal. The money will go to Anton Maslovsky (not me) for his hard work on [Cacko](#) and [Kino2](#).

[Make a donation](#)

This Zaurus page can also be downloaded as a pdf document: [zbook3k.pdf](#)

A mirror site can be found [here](#)

For a comparison between a Zaurus and an OQO, see [myOQO](#) page.

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