

Running BESA under Linux

General remarks

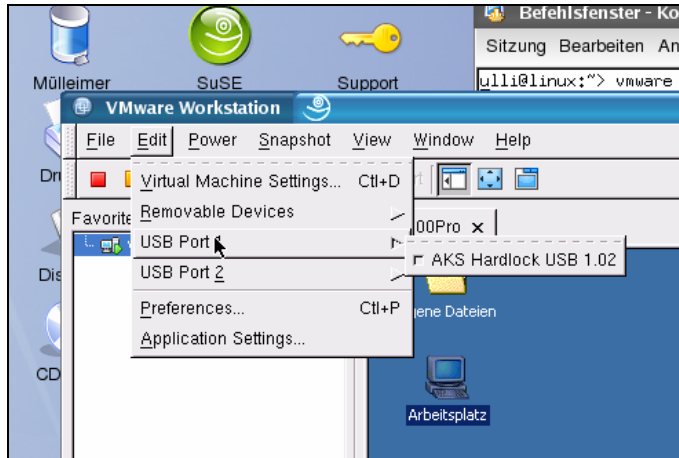
In order to use BESA under Linux, you need to run an emulation software like VMWare on your Linux computer. This instruction has been written using the following software versions:

- SuSE 8.1
- VMware Workstation 4.0.2-5592
- Windows 2000 prof. English SP1

For other software versions, the instructions should hold analogously.

USB Hardlocks

SuSE 8.1 is already correctly configured to use VMware with USB. To use the USB hardlock, you just need to activate the USB port from the 'Edit'-Menu in VMWare.



Parallel Hardlocks

To use the parallel port, some additional configuration is necessary.

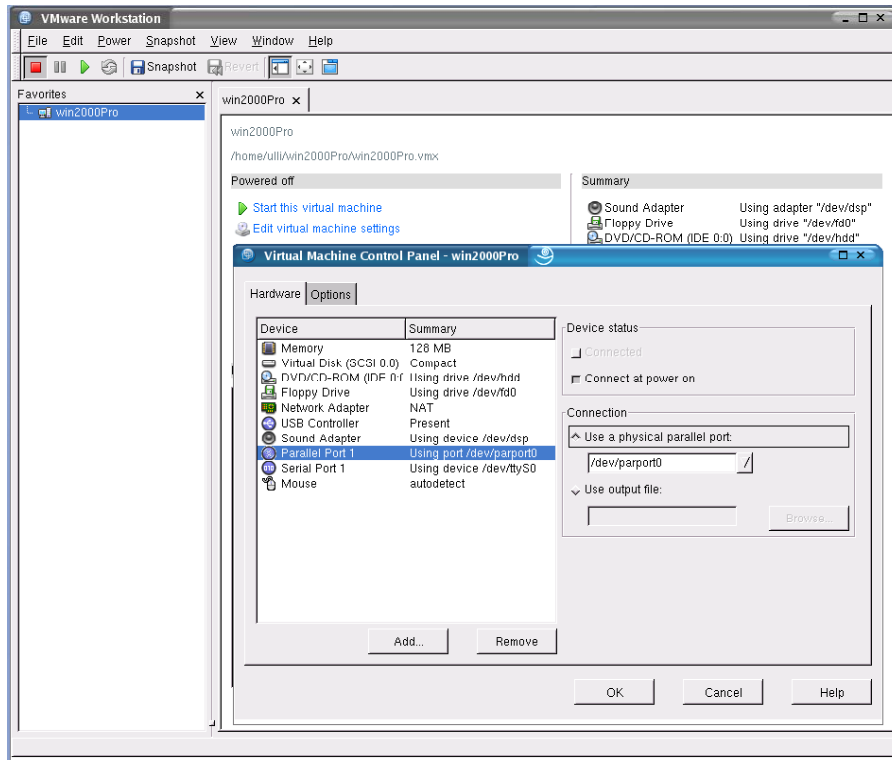
There is a support document on the SuSE website:

http://portal.suse.com/sdb/de/2002/01/fhassel_vmware_hardware.html (German version)

http://portal.suse.com/sdb/en/2002/01/fhassel_vmware_hardware.html (English version)

When setting up the virtual machine you must use the parport-device for the parallel port. Do not use the lp-device.

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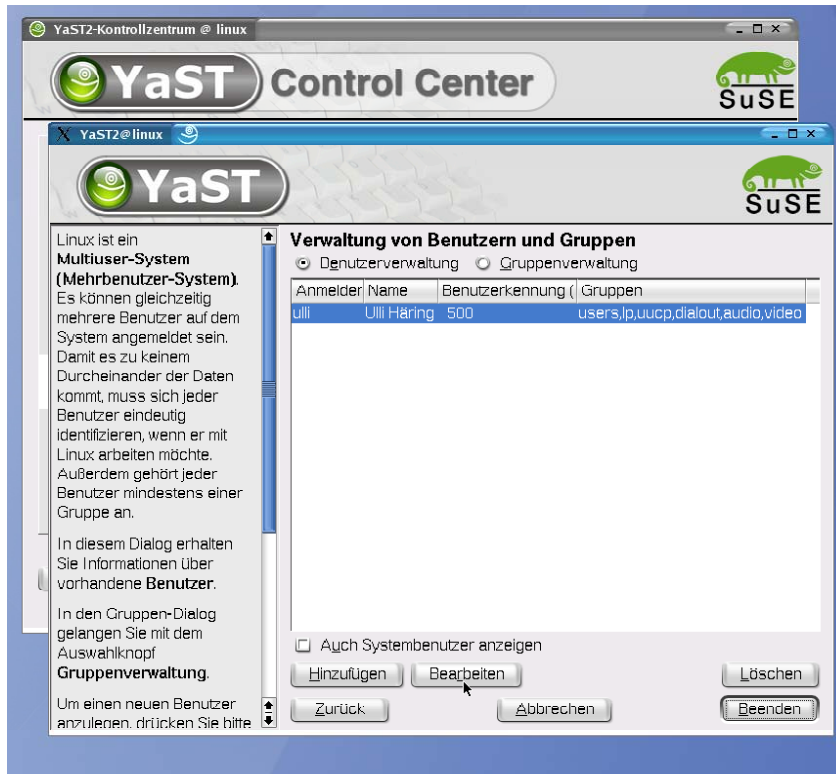


In order to be able to use this device, the user who logs in for VMware must be a member of the group 'lp'. When using SuSE and YAST it is very easy to give the user this additional privilege:

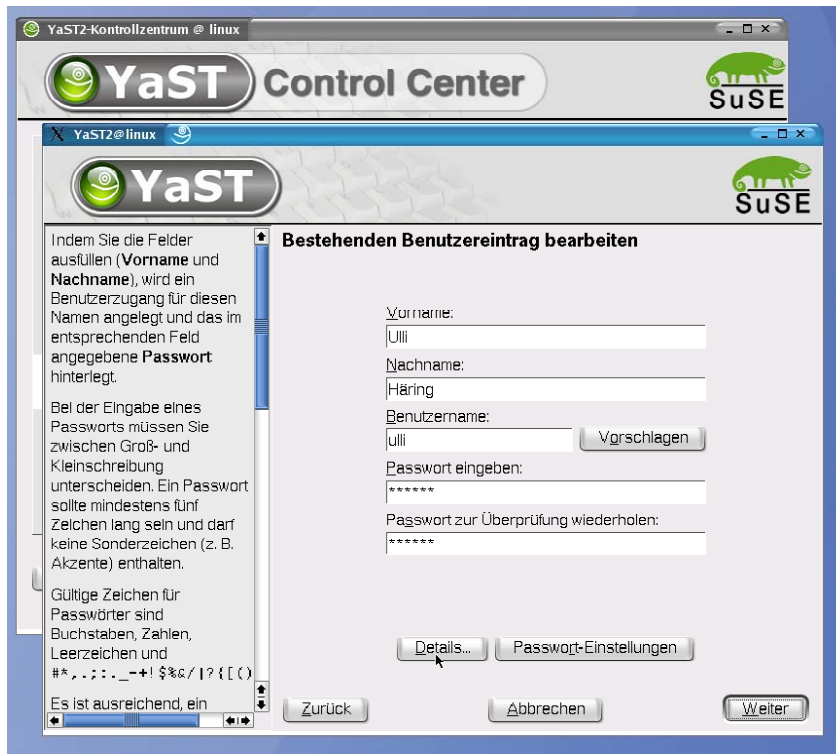
Call up YAST and go to "Security and Users"



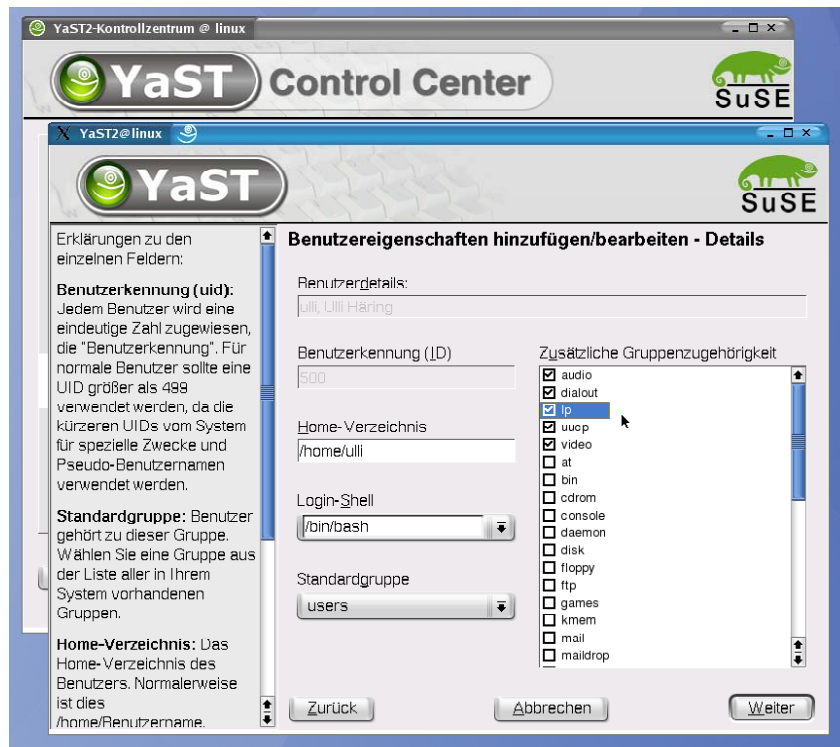
Click on „Add and configure Users“



Choose the user who will work with VMWare and click on „configure“.



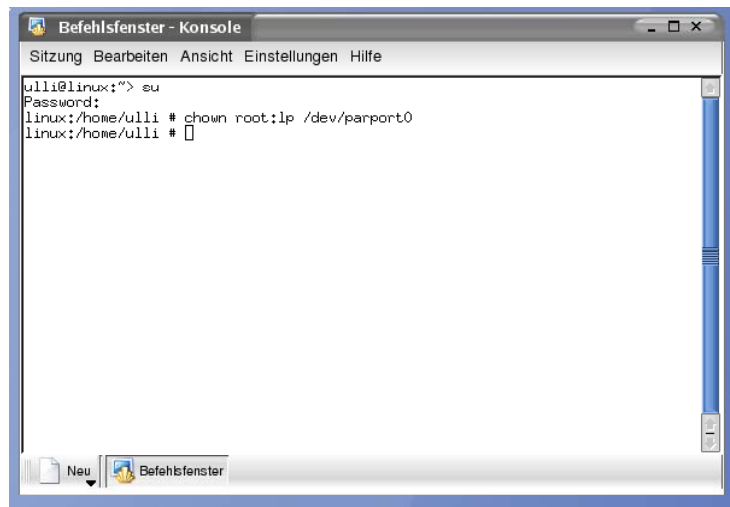
Click on the „Details“ button in the general user view.



Now make sure that the entry "lp" is selected and has a hook in the small box. Finish the setting by clicking on the "forward" buttons until the user-settings are saved.

Unfortunately the device does not belong to the group "lp" to start with. So we must change the ownership of the parallel port device. Log in with superuser rights (generally enter "su" in a shell-window and enter the root password). Then enter:

```
chown root:lp /dev/parport0
to set the new ownership.
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Finally it might be necessary to change the behaviour of the parallel port in your BIOS. Please make sure that a bidirectional mode is selected (ECP or EPP). If you need help on this please consult the documentation you received together with your computer or your mainboard.