pollinbtc

Contents

1 Introduction

`pollinbtc` is the new cosmic host for EHCAL test bench. It is an SLC5.5 embedding UBUNTU LTS 10.04 and WINDOWS as virtual machines.

- eth0: BCM5761 (pci)
- eth1: BCM5764M (mother board)

```
$ lsb_release -a
LSB Version: :core-4.0-ia32:core-4.0-noarch:graphics-4.0-ia32:graphics-4.0-noarch:printing-4.0-ia
Distributor ID: ScientificCERNSLC
Description: Scientific Linux CERN SLC release 5.6 (Boron)
Release: 5.6
Codename: Boron
```

1.1 Graphic card port

Please use the DVI port on the graphic card. After installation X Desktop will be display to the first port. If you use the HDMI port using an adapter, monitor go to sleep when we start X.

1.2 Raid 0 mirroring

At boot, press `F10` and next `^C` to enter the SAS utility. Using this utility, create an IS volume with disk 2 and 3. This raid 0 mirror will be useful to quickly dump data from acquisition.

1.3 Partitions

```
# fdisk -l
...
```

`sda1`	ext2	/boot
`sda2`	ext3	/
`sda3`	swap	
`sda5`	ext3	/home
`sda6`	ext3	/var
`sda7`	ext3	/usr/local
`sdb1`	ext2	/opt?

1.4 Backups and other

- */usr/local/calice/BACKUP_2011*: old stuffs
- */usr/local/calice/pkg*: Software packages (mostly electronic tools)
- */usr/local/calice/vm*: Virtuals machines
- */usr/local/calice/nroche*: SVN configuration
- */usr/local/calice/gastaldi*: SVN configuration
- */usr/local/calice/xilinx11*: XILINX11 software
- */usr/local/calice/xilinx12*: XILINX12 software

2 Scientific Linux Cern 5.5

Note that XDAQ recommand 32bit OS.

- Download the boot.iso.

```
$ md5sum /dev/sr0
eadcf980712389a687beb5df1230207c  /dev/sr0
```

- type `linux text` at welcome page (graphic card doesn't seems to work)
- Choose "English" language
- Choose "FR-latin9" keyboard
- Choose "HTTP" installation method
- Unseselect ipv6 support
- Use this HTTP repository:
  - *linuxsoft.cern.ch*
  - */cern/slc55/i386*
- Choose "text mode"
- Install grub boot loader in MBR: /dev/sda/ (else boot fails)
- Choose "Europe/Paris" using UTC
- Select "Workstation"
- At reboot: use "auth config" to desable "kerbeos" and "firewall" to disable "SELinux"

3 Virtual machine

Have a look in the tools section: virtualBox.

- Default machine folder (in preferences) : */usr/local/calice/vm*

3.1 Ubuntu LTS 10.04

- The iso we used is here: */usr/local/calice/vm/iso/ubuntu-10.04.2-desktop-i386.iso*

3.2 Windows XP

We re-use the previous XP virtual machine.

4 svn stuffs

Have a look in the approach section: Subversion

Note: there is a security process that re-arrange PATH on SLC5.6. If we want to use the icons on Desktop for SVN, in */etc/profile.d/zzz_hepix.sh*:

```
#!/bin/sh
return # please add this line to use svn icons on desktop
...
```

5 Xilinx tools