

## General parameters:

First of all ensure that we have set up correctly the space available for the ring's buffer. For that we modify the grub configuration:

```
sudo nano /boot/grub/menu.lst
```

Quite in the beginning might appear a line like:

```
## e.g. kopt=root=/dev/hda1 ro  
# kopt=root=/dev/hda1 ro bigphysarea=36000
```

the term bigphysarea it's the important one, it might be set up to 36000. In case that don't appear here, please add manually bigphysarea=36000. After that close the file and save configuration and run:

```
sudo update-grub
```

Now we are ready to reboot the computer, and the new settings will be applied during next rebooting time.

## Hard disk settings:

To set up the raid of hard disks just run the instruction:

```
sudo ./mountRaid.sh  
cat /proc/mdstat
```

and checking mdstat you can verify that the set up was done correctly.

Then it's time to format the device. We will use jfs format and the mount the file system.

```
sudo mkfs.jfs /dev/md0  
sudo mkdir /il/  
sudo mount -t jfs /dev/md0 /raid/
```

We create the testing directory.

```
sudo mkdir /raid/test/  
sudo chown oper /raid/test/  
sudo chmod 777 /raid/test/
```

## Testing the VSI-PC:

Before proceeding select the mode number 7 from the VSI converter. The first digit belongs to the first two outputs and the second to the the next two. So just selecting 7 to the first digit will be enough. Detailed information available in the page modes.txt .

Once cables are plugged, (from the VSIC port J1 or J2 to the VSIB connector in the pc) in and the converter as well is time to run the software to verify if it's working. Just need to run:

```
sudo ./vsib-test
```

Which it will achieve test-data from the Converter and storing them in 200 MB files during one minute aprox. Finally a checksum will be proceed to verify that data stored in the file it's exactly the same. If md5sum gets different values for each file then we have problems :).