

Issues of debianization

[Debian TS-WXL](#)

Current issues are:

1. linuxrc
 - 1.1 Correct the unmounting order (do not unmount / proc)
 - 1.2 Serial console is not enabled
2. 2.
 - 2.1 / initrd is missing
 - 2.2 Error accessing system clock Couldn't fix
 - 2.3 Unknown HZ value! This also doesn't have 2.4 / dev / md0

Boot from HDD2 standard firmware

Re-recognize disk

Insert a test HDD into HDD1, and use commands instead of the management screen.

```
root@TS-WXL3B3:/usr/local/bin# ./hdd_wakeup.sh disk1
scsi 0:0:0:0: Direct-Access SAMSUNG HD501LJ CR10 PQ: 0 ANSI: 5
Linux IAL (ERROR) [0 0 0]: set device max sectors to 2048
/sbin/hotplug [scsi]
/sbin/hotplug [scsi_disk]
Linux IAL (ERROR) : retry command host=0, bus=0 SCpnt = 809e8060
sd 0:0:0:0: [sdb] 976773168 512-byte hardware sectors (500108 MB)
sd 0:0:0:0: [sdb] Write Protect is off
sd 0:0:0:0: [sdb] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
sd 0:0:0:0: [sdb] 976773168 512-byte hardware sectors (500108 MB)
sd 0:0:0:0: [sdb] Write Protect is off
sd 0:0:0:0: [sdb] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
sdb: sdb1 sdb2 sdb3 sdb4 sdb5 sdb6
/sbin/hotplug [block]
/sbin/hotplug [block]
/sbin/hotplug [block]
/sbin/hotplug [block]
/sbin/hotplug [block]
/sbin/hotplug [block]
sd 0:0:0:0: [sdb] Attached SCSI disk
/sbin/hotplug [scsi_device]
sd 0:0:0:0: Attached scsi generic sg1 type 0
need re create devlink!!!
/sbin/hotplug [block]
/sbin/hotplug [scsi_generic]
*** /usr/local/bin/DirectCopy_wait.sh [stop]
hdd_wakeup.sh : FLAG_FORMAT=0
mdadm: No md superblock detected on /dev/disk1_6.
mdadm: No md superblock detected on /dev/disk2_6.
/usr/local/bin/change_notify.sh:LCD display message setted to [HD 2 : SINGLE 1 : REMOVE]
root@TS-WXL3B3:/usr/local/bin#
```

mount

```
root@TS-WXL3B3:~# mkdir /tmp/root
root@TS-WXL3B3:~# mount -t ext3 /dev/sdb2 /tmp/root
kjournald starting. Commit interval 5 seconds
EXT3-fs warning: maximal mount count reached, running e2fsck is recommended
EXT3 FS on sdb2, internal journal
EXT3-fs: recovery complete.
EXT3-fs: mounted filesystem with ordered data mode.
root@TS-WXL3B3:~#
```

Create / initrd

```
root@TS-WXL3B3:~# cd /tmp/root/
root@TS-WXL3B3:/tmp/root# mkdir linuxrc
root@TS-WXL3B3:/tmp/root#
```

/ dev / md0 make others

Copy from standard farm

```
root@TS-WXL3B3:/tmp/root# cd
root@TS-WXL3B3:~# ls /tmp/root/dev/md*
ls: /tmp/root/dev/md*: No such file or directory
root@TS-WXL3B3:~# (cd /dev; tar cf - md[0-9]*)|(cd /tmp/root/dev/; tar xvf -)
md0
```

```
md1
md10
md11
md12
md13
md14
md15
md2
md3
md4
md5
md6
md7
md8
md9
root@TS-WXL3B3:~# umount /tmp/root
root@TS-WXL3B3:~#
```

linuxrc fix

```
root@TS-WXL3B3:~# ls /mnt/disk2/wk/
initrd.gz
root@TS-WXL3B3:~#
```

Since initrd remains when initrd.buffalo was created, modify this.

Restoration

```
root@TS-WXL3B3:~# cd !$
cd /mnt/disk2/wk/
root@TS-WXL3B3:/mnt/disk2/wk# gunzip initrd.gz
root@TS-WXL3B3:/mnt/disk2/wk#
```

mount

```
root@TS-WXL3B3:/mnt/disk2/wk# mount -o loop initrd /tmp/root
root@TS-WXL3B3:/mnt/disk2/wk#
```

linuxrc fix

```
root@TS-WXL3B3:/tmp/root# cat linuxrc
#!/bin/sh

export PATH=/sbin:/bin:/usr/sbin:/usr/bin:/usr/local/bin:/usr/local/sbin

echo "---- in hackkit linuxrc ---"

mount proc /proc -t proc
mount sysfs /sys -t sysfs

. /usr/local/lib/libsys
SetupNasFeature

ldconfig
depmod

. /etc/nas_feature
/etc/init.d/startSysMd.sh
echo "0x901" > /proc/sys/kernel/real-root-dev

/usr/local/sbin/miconapl -a serialmode_console

umount /sys
umount /proc
umount -a
exit 0
root@TS-WXL3B3:/tmp/root#
```

If umount disappears, miconapl can't use this?

Just change it

```
root@TS-WXL3B3:/tmp/root# mv linuxrc linuxrc.1
root@TS-WXL3B3:/tmp/root# cp linuxrc.1 linuxrc
root@TS-WXL3B3:/tmp/root# vi linuxrc
:
:
root@TS-WXL3B3:/tmp/root# cat linuxrc
#!/bin/sh

export PATH=/sbin:/bin:/usr/sbin:/usr/bin:/usr/local/bin:/usr/local/sbin

echo "---- in hackkit linuxrc ---"

mount proc /proc -t proc
mount sysfs /sys -t sysfs

. /usr/local/lib/libsys
SetupNasFeature
```

ldconfig

depmod

```
. /etc/nas_feature
/usr/local/sbin/miconapl -a serialmode_console
/etc/init.d/startSysMd.sh
echo "0x901" > /proc/sys/kernel/real-root-dev
```

```
umount -a
exit 0
root@TS-WXL3B3:/tmp/root#
```

Check permissions

```
root@TS-WXL3B3:/tmp/root# ls -l linuxrc*
-rwxr-xr-x 1 root root 387 Mar 7 23:30 linuxrc
-rwxr-xr-x 1 root root 413 Mar 7 13:43 linuxrc.1
-rwxr-xr-x 1 root root 10133 Jan 8 21:30 linuxrc.orig
root@TS-WXL3B3:/tmp/root#
```

no problem.

Unmount

```
root@TS-WXL3B3:/tmp/root# cd /
root@TS-WXL3B3:/# umount /tmp/root
root@TS-WXL3B3:/#
```

Create initrd.buffalo

```
root@TS-WXL3B3:/# cd /mnt/disk2/wk/
root@TS-WXL3B3:/mnt/disk2/wk# mkdir /tmp/boot
root@TS-WXL3B3:/mnt/disk2/wk# mount -t ext3 /dev/sdb1 /tmp/boot
kjournald starting. Commit interval 5 seconds
EXT3 FS on sdb1, internal journal
EXT3-fs: mounted filesystem with ordered data mode.
root@TS-WXL3B3:/mnt/disk2/wk# gzip initrd
root@TS-WXL3B3:/mnt/disk2/wk# mkimage -A ARM -O Linux -T ramdisk -C gzip -a 0x00000000 -e 0x00000000 -n initrd -d initrd.gz /tmp/boot/initrd.buffalo
Image Name: initrd
Created: Sun Mar 7 23:37:43 2010
Created(epoc):1267972663
Image Type: ARM Linux RAMDisk Image (gzip compressed)
Data Size: 9237130 Bytes = 9020.63 kB = 8.81 MB
Load Address: 0x00000000
Entry Point: 0x00000000
root@TS-WXL3B3:/mnt/disk2/wk# umount /tmp/boot/
root@TS-WXL3B3:/mnt/disk2/wk#
```

Restart

Press and
hold the
power button to turn off the power, remove HDD2 and press the power button

```
:
:
---- in hackkit linuxrc ---
err: RecvPacket: readlen=0.
```

After all, miconapl is not working properly?

```
:
:
Trying to move old root to /initrd ... /initrd does not exist. Ignored.
```

that? I made it properly ...

```
INIT: version 2.86 booting
Setting the system clock.
Cannot access the Hardware Clock via any known method.
Use the --debug option to see the details of our search for an access method.
Unable to set System Clock to: Wed Mar 17 07:48:57 JST 2010 (warning).
Activating swap...Adding 999864k swap on /dev/md10. Priority:-1 extents:1 across:999864k
done.
Setting the system clock.
Cannot access the Hardware Clock via any known method.
Use the --debug option to see the details of our search for an access method.
Unable to set System Clock to: Wed Mar 17 07:48:57 JST 2010 (warning).
Cleaning up ifupdown....
Loading kernel modules...done.
Checking file systems...fsck 1.41.3 (12-Oct-2008)
done.
Setting kernel variables (/etc/sysctl.conf)...Unknown HZ value! (81) Assume 100.
done.
Mounting local filesystems...kjournald starting. Commit interval 5 seconds
EXT3 FS on md0, internal journal
EXT3-fs: mounted filesystem with ordered data mode.
done
```

```
done.  
Activating swapfile swap...done.  
Setting up networking....  
Configuring network interfaces...eth0: link down  
eth0: started  
done.  
INIT: Entering runlevel: 2  
Starting enhanced syslogd: rsyslogdeth0: link up, full duplex, speed 1 Gbps  
.  
Starting periodic command scheduler: crond.  
  
Debian GNU/Linux 5.0 tswxl ttys0  
  
tswxl login:  
  
Umm. If you can not see it from inside, you can not proceed.
```



TS-WXL

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