Initialization with miconapl (2)

Debian TS-WXL

I'm looking at a standard firm, but I'm not sure why it's useless.

To simplify the problem, remove the miconapl process from / linuxrc in initrd and just initialize it from Debian.

Boot from HDD2 standard firmware

Re-recognize disk

Insert the HDD for experiment into HDD1 and recognize it

```
root@TS-WXL3B3:/# KERNELMOn (SATA 0 plugged)
Core Driver (ERROR) 0 0: Edma Error Reg 0x10
start to wait 1000 mili sec
wait finished.
skip diskmon..
** BUFFALO Disable Command Queuing Function [0 0] **
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 [block]
/sbin/hotplug [scsi_device]
sd 0:0:0:0: Attached scsi generic sg1 type 0
need re create_devlink!!!
/sbin/hotplug [scsi_generic]
*** /usr/local/bin/DirectCopy_wait.sh [stop]
root@TS-WXL3B3:/# cd /usr/local/bin/
root@TS-WXL3B3:/usr/local/bin# ./hdd_wakeup.sh disk1
need re create_devlink!!!
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 : REMOVEl
root@TS-WXL3B3:/usr/local/bin#
```

mount

```
root@TS-WXL3B3:/usr/local/bin# mkdir /tmp/root
root@TS-WXL3B3:/usr/local/bin# 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: mounted filesystem with ordered data mode.
root@TS-WXL3B3:/usr/local/bin#
```

linuxre fix

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

Modify this because the initrd from when initrd.buffalo was created remains.

Restoration

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

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

linuxrc fix

root@TS-WXL3B3:/mnt/disk2/wk#

```
root@TS-WXL3B3:/mnt/disk2/wk# cd /tmp/root/
root@TS-WXL3B3:/tmp/root# cat linuxrc
#1/hin/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#
Delete the line of miconapl.
root@TS-WXL3B3:/tmp/root# vi linuxrc
root@TS-WXL3B3:/tmp/root# cat !$
cat linuxrc
#!/bin/sh
export PATH=/sbin:/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
1dconfig
depmod
. /etc/nas feature
/etc/init.d/startSysMd.sh
echo "0x901" > /proc/sys/kernel/real-root-dev
umount -a
exit 0
root@TS-WXL3B3:/tmp/root#
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 warning: maximal mount count reached, running e2fsck is recommended EXT3 FS on sdb1, internal journal
EXT3-fs: mounted filesystem with ordered data mode.
root@TS-WXL3B3:/mnt/disk2/wk# gzip initrd
(Stay still)
root@TS-WXL3B3:/mnt/disk2/wk# mkimage -A ARM -O Linux -T ramdisk -C gzip -a 0x000000000 -e 0x00000000 -n initrd -d initrd.gz /tmp/boot/initrd.buffalo
Image Name: initrd
Created:
              Tue Apr 6 21:27:59 2010
Created(epoc):1270556879
Image Type: ARM Linux RAMDisk Image (gzip compressed)
Data Size:
              9237088 Bytes = 9020.59 kB = 8.81 MB
Load Address: 0x00000000
Entry Point: 0x00000000
root@TS-WXL3B3:/mnt/disk2/wk# umount /tmp/boot/
```

Restart

```
Press and
hold the
power button to turn off the power, remove HDD2 and press the power button
---- in hackkit linuxrc ---
-- rebuild mdadm.conf for BOOT, ROOTFS with Intelligent routine --
kjournald starting. Commit interval 5 seconds
EXT3-fs: mounted filesystem with ordered data mode.
mount: mounting /dev/disk2_1 on /tmp/boot_test failed: No such device or address
GetMdBaseDisk : Selected 1
md: md10 stopped.
md: bind<sda5>
raid1: raid set md10 active with 1 out of 2 mirrors
mdadm: /dev/md10 has been started with 1 drive (out of 2).
md: md1 stopped.
md: bind<sda2>
raid1: raid set md1 active with 1 out of 2 mirrors
mdadm: /dev/md1 has been started with 1 drive (out of 2).
md: md0 stopped.
md: bind<sda1>
raid1: raid set md0 active with 1 out of 2 mirrors
mdadm: /dev/md0 has been started with 1 drive (out of 2).
 -- setup max error counts --
/sys/block/md0/md/maxerr_cnt is setted to 20
/sys/block/md1/md/maxerr_cnt is setted to 20
/sys/block/md10/md/maxerr_cnt is setted to 20
kjournald starting. Commit interval 5 seconds
EXT3-fs warning: maximal mount count reached, running e2fsck is recommended
EXT3 FS on md1, internal journal
EXT3-fs: recovery complete.
EXT3-fs: mounted filesystem with ordered data mode.
VFS: Mounted root (ext3 filesystem).
Trying to move old root to /initrd ... okay
Freeing init memory: 136K
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 Apr 7 06:31:09 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 Apr 7 06:31:10 JST 2010 (warning).
Cleaning up ifupdown....
Loading kernel modules...done.
Checking file systems...fsck 1.41.3 (12-Oct-2008)
Setting kernel variables (/etc/sysctl.conf)...Unknown HZ value! (80) Assume 100.
Mounting local filesystems...kjournald starting. Commit interval 5 seconds
EXT3-fs warning: maximal mount count reached, running e2fsck is recommended
EXT3 FS on md0, internal journal
EXT3-fs: mounted filesystem with ordered data mode.
done.
Activating swapfile swap...done.
Setting up networking...
Configuring network interfaces...eth0: link down
eth0: started
INIT: Entering runlevel: 2
Starting enhanced syslogd: rsyslogdeth0: link up, full duplex, speed 1 Gbps
Starting internet superserver: inetd.
Starting periodic command scheduler: crond.
Debian GNU/Linux 5.0 tswxl ttyS0
tswxl login:
telnet and login
Linux 2.6.22.18-mv78100 (x311.yamasita.jp) (pts/0)
tswxl login: yasunari
Password:
Last login: Sun Mar 28 08:22:32 JST 2010 from x311.yamasita.jp on pts/0
Linux odxl 2.6.22.18-mv78100 # 134 Thu Feb 4 11:14:40 JST 2010 armv5tejl
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
```

individual files in /usr/share/doc/*/copyright.

```
permitted by applicable law. yasunari @ tswxl: ~ $
```

Become root

```
yasunari @ tswxl: ~ $ su-root
Password:
odxl: ~ #
```

Initialisation

```
Initialize manually
tswxl:~# /usr/local/sbin/miconapl -b -a boot_flash_ok
odx1: \sim #
I'm back. Did you go???
tswxl:~# /usr/local/sbin/miconapl -a boot_end
odx1: ~ #
This is also back.
Enable serial console
Try enabling the serial console.
```

tswxl:~# /usr/local/sbin/miconapl -a serialmode_console

```
Hit Enter on the serial console.
Debian GNU/Linux 5.0 tswxl ttyS0
tswxl login: BuffaloGpio_ChangePowerStatus > Writing 0x71
Debian GNU/Linux 5.0 tswxl ttyS0
tswxl login:
I'm good!
```

Login from serial console

```
Debian GNU/Linux 5.0 tswxl ttyS0
tswxl login: root
Password:
Linux odxl 2.6.22.18-mv78100 # 134 Thu Feb 4 11:14:40 JST 2010 armv5tejl
The programs included with the Debian GNU/Linux\ system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
2 failures since last login.
Last was Wed Mar 24 08:20:14 2010 on pts/0.
odx1: ~ #
GJ!
```



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