Subject: petitboot and Linux Kernel 3
Posted by glevand on Mon, 23 Jan 2012 20:12:03 GMT
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Need to build petitboot with Linux Kernel 3.2.1 and WLAN support.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Mon, 23 Jan 2012 20:15:47 GMT
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To port graf's VUART drivers to petitboot, i have to rewrite VUART drivers and replace IOCTLs with read/write fs ops.
That will eliminate the problem with 32bit user-space and 64bit kernel-space.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Wed, 25 Jan 2012 21:14:21 GMT
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Latest OpenWRT with Linux Kernel 3.2.1 on PS3 Slim with WLAN support:

```
=== IMPORTANT ============================
 Use 'passwd' to set your login password
 this will disable telnet and enable SSH
 -----------------------------------------


BusyBox v1.19.3 (2012-01-25 21:02:33 CET) built-in shell (ash)
Enter 'help' for a list of built-in commands.


  _____  _____  _____
 |  _  ||  ___||___  |
 |  __||___  ||___  |
 |__|   |_____||_____|
          L I N U X

root@ps3-linux:/# uname -a
Linux ps3-linux 3.2.1 #2 SMP Wed Jan 25 21:05:44 CET 2012 ppc64 GNU/Linux
root@ps3-linux:/# iwconfig wlan0
wlan0     IEEE 802.11bg  Mode:Managed  Channel:0
          Access Point: Not-Associated
          Encryption key:off
```

http://gitbrew.org/~glevand/ps3/linux/openwrt/HOWTO

Subject: Re: petitboot and Linux Kernel 3
Posted by masterzorag on Mon, 30 Jan 2012 22:08:05 GMT
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Are nand's wlan supported?

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Tue, 31 Jan 2012 17:18:47 GMT
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I could add a patch to enable WLAN on PHATs too but you still need the repo node patch from OtherOS++ else it won't work.

Subject: Re: petitboot and Linux Kernel 3
Posted by x_redentor on Tue, 31 Jan 2012 17:36:23 GMT
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add patch to enable WLAN in FAT too, but you still have not gotten or understood how to fix the problem started in petitboot, since even crashes

not if your firmware supports it, but I would check

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Tue, 31 Jan 2012 18:37:37 GMT
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I will upload a new patch for PHAT WLAN soon.

Subject: Re: petitboot and Linux Kernel 3
Posted by x_redentor on Tue, 31 Jan 2012 18:41:13 GMT
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ok thanks, I'm compiling with the latest changes.
that patch, it may apply to the kernel?

Subject: Re: petitboot and Linux Kernel 3
Posted by masterzorag on Tue, 31 Jan 2012 19:14:24 GMT
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I'm latest-halfhd-noss OtherOS++ of aug equipped, would work?

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Tue, 31 Jan 2012 19:16:35 GMT
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yes, but first i need to create the new patch

Subject: Re: petitboot and Linux Kernel 3
Posted by x_redentor on Tue, 31 Jan 2012 19:21:37 GMT
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compiler...

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Tue, 31 Jan 2012 19:35:35 GMT
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New petitboot with elinks browser and WLAN :d :d :d

```
root@ps3-linux:/# elinks www.gitbrew.org/~glevand/ps3/linux/openwrt
                                                    Index of /~glevand/ps3/linux/openwrt (1/2)
                                Index of /~glevand/ps3/linux/openwrt

  [ICO]              Name                  Last modified   Size Description



  [DIR] Parent Directory                                  -
  [TXT] 030-petitboot-udevadm-action-fix.diff 28-Jan-2012 15:33  429
  [TXT] 040-petitboot-mount-ufs2.diff         29-Jan-2012 11:40  760
  [   ] 70-persistent-ps3flash.rules          28-Jan-2012 06:09   41
  [   ] HOWTO                                 31-Jan-2012 14:15 1.4K
  [   ] config                                31-Jan-2012 14:21 119K
  [TXT] disable-tcp-ecn.patch                 28-Jan-2012 06:15  447
  [   ] dtbImage.ps3.bin                      31-Jan-2012 13:29 9.5M
  [TXT] increase-unix-socket-qlen.patch       29-Jan-2012 11:46  329
  [TXT] kexec-version-2.0.3.patch             31-Jan-2012 12:57  548
  [   ] linux-config-2.6.39                   28-Jan-2012 14:40  10K
  [   ] linux-config-3.2                      31-Jan-2012 13:08  12K
  [TXT] linux-version-2.6.39.4.patch          28-Jan-2012 14:03  324
  [TXT] linux-version-3.2.2.patch             27-Jan-2012 07:08  321
  [TXT] modules.mk.patch                      27-Jan-2012 14:01 1.9K
  [   ] openwrt-ps3-petitboot-vmlinux.elf     31-Jan-2012 13:05 9.4M
  [TXT] parted-package.patch                  31-Jan-2012 14:23 1.3K
  [DIR] patches-2.6.39/                       28-Jan-2012 14:00    -
```

[DIR] patches-3.2/ 28-Jan-2012 06:06 -
[TXT] petitboot-install-artwork.patch 25-Jan-2012 06:39 1.0K
[ ] ps3-slim-petitboot-wlan-3.2.1 27-Jan-2012 07:10 649
[TXT] ps3-utils-git.patch 25-Jan-2012 06:47 563
[ ] sysctl 29-Jan-2012 12:10 126
[TXT] wlan-config.patch 25-Jan-2012 09:14 840

:d :d :d

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Tue, 31 Jan 2012 20:10:20 GMT
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To get WLAN working on PHAT i need you to dump repo node value.
I do not have access to a PHAT unfortunately.
You can do it on petitboot with ps3hvc_hvcall.

Repo node: sys.hw.config

ps3hvc_hvcall /dev/ps3hvc 1 0x0000000073797300 0x6877000000000000 0x636f6e6669670000 0x0

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Tue, 31 Jan 2012 21:02:00 GMT
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Ok, here are the patches to enable WLAN on PHATs, test it pls:

http://gitbrew.org/~glevand/ps3/linux/linux-3/patches/lv1cal l-repo-node-lparid-param.patch
http://gitbrew.org/~glevand/ps3/linux/linux-3/patches/gelic- disable-eurus-ctrl-iface.patch

---

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Tue, 31 Jan 2012 21:04:55 GMT
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And here are patches for OpenWRT:

http://gitbrew.org/~glevand/ps3/linux/openwrt/patches-3.2/0008-lv1call-repo-node-lparid-param.patch
http://gitbrew.org/~glevand/ps3/linux/openwrt/patches-3.2/0009-gelic-disable-eurus-ctrl-iface.patch

---

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Tue, 31 Jan 2012 21:05:44 GMT
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Make sure you enable gelic WLAN in Linux kernel config.
It's disabled in my config because i don't use it.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Wed, 01 Feb 2012 19:57:19 GMT
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Fixed bugs in ps3jupiter patches. Hanged during cold boot. Fixed it.
Update ps3 jupiter patches.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Wed, 01 Feb 2012 20:00:24 GMT
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Now it works fine. Cold boot works with new image. Safe to use.

```
ps3-flash-util (ps3-utils) dev-12.01.31-17.26.46
 header :1: h.magic_num:      'cell_ext_os_area'
 header :1: h.hdr_version:     1
 header :1: h.db_area_offset:  2
 header :1: h.ldr_area_offset: 4
 header :1: h.ldr_format:      0 (raw)
 header :1: h.ldr_size:        11205784 (aafc98h)
 param  :2: p.boot_flag:       1 (other-os)
 param  :2: p.num_params:      0
 param  :2: p.rtc_diff         0
 param  :2: p.av_multi_out     0
 param  :2: p.ctrl_button:     0
 param  :2: p.static_ip_addr:  0.0.0.0
 param  :2: p.network_mask:    0.0.0.0
 param  :2: p.default_gateway: 0.0.0.0
 param  :2: p.dns_primary:     0.0.0.0
 param  :2: p.dns_secondary:   0.0.0.0
 db     :3: db.magic_num:      '-db-'
 db     :3: db.version:        1
 db     :3: db.index_64:       24
 db     :3: db.count_64:       57
 db     :3: db.index_32:       544
 db     :3: db.count_32:       57
 db     :3: db.index_16:       836
 db     :3: db.count_16:       57
root@ps3-linux:/#
```

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Wed, 01 Feb 2012 20:28:00 GMT
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Hehe, added irssi IRC client to petitboot.

20:50 -!- Irssi: Looks like this is the first time you've run irssi.
20:50 -!- Irssi: This is just a reminder that you really should go read
20:50 -!- Irssi: startup-HOWTO if you haven't already. You can find it
20:50 -!- Irssi: and more irssi beginner info at http://www.irssi.org
20:50 -!- Irssi:
20:50 -!- Irssi: For the truly impatient people who don't like any automatic
20:50 -!- Irssi: window creation or closing, just type: /MANUAL-WINDOWS

[20:50] [] [1]
[(status)]

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Wed, 01 Feb 2012 20:50:37 GMT
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Uploaded new advanced petitboot images with lots of useful apps like git, svn, irssi, ncftp, nmap and many others.

http://gitbrew.org/~glevand/ps3/linux/openwrt/images/advance d/

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Wed, 01 Feb 2012 20:56:57 GMT

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Need to test debootstrap, make sure it works.

Subject: Re: petitboot and Linux Kernel 3
Posted by x_redentor on Wed, 01 Feb 2012 22:10:37 GMT
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does not work, connect and download.

I had to use an older version of petitboot, but we collect we do not work, at least 3.2.2

Subject: Re: petitboot and Linux Kernel 3
Posted by masterzorag on Wed, 01 Feb 2012 22:22:53 GMT
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there was a limit about FAT petitboot images size, there was minimal ones:
what is the limit now?

Subject: Re: petitboot and Linux Kernel 3
Posted by masterzorag on Thu, 02 Feb 2012 14:28:08 GMT
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compiling for FAT... error tracked:
mandatory follow HOWTO as NON_ROOT!
1. using FORCE=1 doesn't work, crappy Makefile
2. you should add at first:
su NON_ROOT_USER

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Thu, 02 Feb 2012 17:42:42 GMT
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yeah, i compiled NOT as root, compiling as root is NEVER a good idea.
I will upload a config file for minimal petitboot version.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Thu, 02 Feb 2012 18:05:55 GMT
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midnight commander on petitboot :)

Left File Command Options Right

GNU Midnight Commander 4.7.5.3

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Thu, 02 Feb 2012 18:46:44 GMT
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Uploaded huge images of petitboot :)
They are for SLIMs only because FATs do not have enough space on flash.
The images contain lots of tools.

http://gitbrew.org/~glevand/ps3/linux/openwrt/images/huge/

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Thu, 02 Feb 2012 18:52:49 GMT
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All images were tested by me and work fine on my slim (cold and warm boot).
I can boot freebsd and linux from internal HDD without any problems. So they are safe to use and flash.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 04 Feb 2012 22:04:16 GMT
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Linux 3.2.4 + petitboot = OK
Tested.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 11 Feb 2012 11:59:24 GMT
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Linux 3.2.5 is fine too.
Added ps3sed and ps3strgmngr to petitboot and resized my GameOS UFS2 region :d
Testing debootstrap 1.0.38 currently.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 11 Feb 2012 15:52:26 GMT
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debootstrap 1.0.38 works great. Tested it.

Subject: Re: petitboot and Linux Kernel 3
Posted by masterzorag on Mon, 27 Feb 2012 16:56:07 GMT
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could you check what's going wrong with this 3.2.5 petitboot config?
I'm targeting the fat one, it compiles, but on kexec it seems doesn't bring up the net...
and so on: no keyboard, no net, no telnet, no control

File Attachments

1) petitbot-3.2.5-config.tar.gz, downloaded 30 times

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Tue, 28 Feb 2012 17:38:31 GMT
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Hmm, could you boot it with kexec or not ?

Subject: Re: petitboot and Linux Kernel 3
Posted by masterzorag on Wed, 29 Feb 2012 15:12:36 GMT
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glevand wrote on Tue, 28 February 2012 18:38Hmm, could you boot it with kexec or not ?
I work with telnet, my keyboard is usb-logitech-wireless, not supported... (tried, no luck)
I run all kernels/boot linux via kexec, ever;
I can boot it, after CUI shows up I can't control anything, no access from net, no keyboard;
It's up, but I need an usb keyboard to check dmesg/messages, I've not such one.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Wed, 29 Feb 2012 17:36:14 GMT
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Are you using DHCP or static IP ?

Subject: Re: petitboot and Linux Kernel 3
Posted by masterzorag on Thu, 01 Mar 2012 12:16:42 GMT
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DHCP.

A working petitboot also shows up an nfsroot item after bringing up the lan, and I enter via telnet;
Maybe my petitboot's kexec is buggy? (I've in flash your first minimal, kernel 2.6.30)

Should I kexec first my working 3.2.2, then kexec the 3.2.5 one... I've to try

---

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Thu, 01 Mar 2012 17:18:26 GMT
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Hmm, odd, gelic is enabled in your kernel config, it should work.
Did you try one of my elf images ?

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Thu, 01 Mar 2012 17:58:05 GMT
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Maybe you should disable petiboot autostart and take a look at boot messages.

Subject: Re: petitboot and Linux Kernel 3
Posted by masterzorag on Tue, 06 Mar 2012 10:34:55 GMT
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your tiny elf is 3.2.2 and works as mine 3.2.2 (your image don't have wlan);
testing 3.2.5 wont' work, disable petiboot autostart does not bring up video, nothing;
tried kexecing 3.2.5 from working 3.2.2, same issue;
i'm testing 3.2.9 now.

finally 3.2.9 works, collecting some errors from /var/log/messages

user.info sysinit: /sbin/uci: Parse error (unterminated ') at line 13, byte 41
user.info sysinit: Line 9: Invalid passphrase length 0 (expected: 8..63) "".
user.info sysinit: Line 9: failed to parse psk """".
user.info sysinit: Line 25: WPA-PSK accepted for key management, but no PSK configured.
user.info sysinit: Line 25: failed to parse network block.
user.info sysinit: Failed to read or parse configuration '/var/run/wpa_supplicant-wlan0.conf'.
user.info sysinit: enable_wext(wlan0): Failed to set up wpa_supplicant for interface wlan0

wlan is up, it mounts /dev/ps3db on /tmp/petitboot/mnt/ps3db type ufs
(ro,relatime,ufstype=ufs2,onerror=lock)

```
root@ps3-linux:/# ls -ln /dev/ps3*
crw-------   1 0       0        10,  63 Mar  5 12:40 /dev/ps3avmngr
brw-------   1 0       0       254,   0 Mar  5 12:41 /dev/ps3da
brw-------   1 0       0       254,  16 Mar  5 12:41 /dev/ps3db
```

```
brw-------    1 0       0        254,  32 Mar  5 12:41 /dev/ps3dc
brw-------    1 0       0        254,  48 Mar  5 12:41 /dev/ps3dd
brw-------    1 0       0        254,  49 Mar  5 12:41 /dev/ps3dd1
brw-------    1 0       0        254,  50 Mar  5 12:41 /dev/ps3dd2
crw-------    1 0       0         10,  61 Mar  5 12:41 /dev/ps3dispmngr
lrwxrwxrwx    1 0       0              9 Mar  5 12:41 /dev/ps3flash -> ps3flashf
brw-------    1 0       0        253,   0 Mar  5 12:41 /dev/ps3flasha
brw-------    1 0       0        253,  16 Mar  5 12:41 /dev/ps3flashb
brw-------    1 0       0        253,  32 Mar  5 12:41 /dev/ps3flashc
brw-------    1 0       0        253,  48 Mar  5 12:41 /dev/ps3flashd
brw-------    1 0       0        253,  64 Mar  5 12:41 /dev/ps3flashe
brw-------    1 0       0        253,  80 Mar  5 12:41 /dev/ps3flashf
brw-------    1 0       0        253,  96 Mar  5 12:41 /dev/ps3flashg
crw-------    1 0       0         10,  60 Mar  5 12:41 /dev/ps3physmem
crw-------    1 0       0         10,  59 Mar  5 12:41 /dev/ps3strgmngr
crw-------    1 0       0         10,  62 Mar  5 12:40 /dev/ps3sysmngr

root@ps3-linux:/# ps3-flash-util -s
ps3-flash-util (ps3-utils) dev-12.03.06-11.05.58
 header :1: h.magic_num:      'cell_ext_os_area'
 header :1: h.hdr_version:     1
 header :1: h.db_area_offset:  2
 header :1: h.ldr_area_offset: 4
 header :1: h.ldr_format:      0 (raw)
 header :1: h.ldr_size:        7969924 (799c84h)
 param  :2: p.boot_flag:       1 (other-os)
...
```

ok 3.2.9 up, we miss only a auto-wpa_supplicant fix

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Tue, 06 Mar 2012 17:20:24 GMT
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Did you try wext.sh ? i uploaded it yesterday and updated my HOWTO. Try it.

Subject: Re: petitboot and Linux Kernel 3
Posted by masterzorag on Thu, 08 Mar 2012 14:30:31 GMT
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I'm missing config_get, so no luck with wext.sh or wpa_supplicant.sh, I've to check later;
I was reading about uci configuration system in openwrt, maybe we can use that to configure wifi...

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Thu, 08 Mar 2012 18:01:48 GMT
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Hmm, it works fine for me. WLAN connection is established when i boot openwrt but still having problems with DHCP.
You have of course to modify your /etc/config/wireless and use your own PSK and SSID.

Subject: Re: petitboot and Linux Kernel 3
Posted by masterzorag on Fri, 09 Mar 2012 15:16:30 GMT
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yes, I've read wlan-config.patch and already adjusted them...
which switch in config to include config_get?

I've to add at least lsusb to busybox too, nikitis have made his logi-wireless-keyboard work on petitboot, so I've to get mine working next!
In fact, on system up it's working ever, from 2.6 too, I've the issue only in openwrt!

Subject: Re: petitboot and Linux Kernel 3
Posted by Anonymous on Sat, 10 Mar 2012 00:49:19 GMT
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glevand wrote on Thu, 02 February 2012 13:46Uploaded huge images of petitboot :)
They are for SLIMs only because FATs do not have enough space on flash.
The images contain lots of tools.

http://gitbrew.org/~glevand/ps3/linux/openwrt/images/huge/
hello
I tried your huge img. Fat It works without a problem when it comes to size create_hdd_region.sh scripts do not work and so on. If you can build a model for FAT petitboot I would appreciate very much needed because many new distro has problems with the root password and petitboot is the fastest way to passwd.
Sorry for my English I used google translator, thanks.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 10 Mar 2012 08:13:17 GMT
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create_hdd_region.sh will not work with Openwrt 3.2.9 because i have rewritten all drivers.
I have to create a new script for Linux 3 first.
You could use ps3sed if you think you can really handle it.
Like i did it here: http://wiki.gitbrew.org/forum/t/55/
and here: http://wiki.gitbrew.org/forum/t/54/

ps3sed should be installed on petitboot.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 10 Mar 2012 09:07:34 GMT
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masterzorag wrote on Fri, 09 March 2012 15:16yes, I've read wlan-config.patch and already adjusted them...
which switch in config to include config_get?

I've to add at least lsusb to busybox too, nikitis have made his logi-wireless-keyboard work on petitboot, so I've to get mine working next!
In fact, on system up it's working ever, from 2.6 too, I've the issue only in openwrt!

Why do you need config_get ?

Subject: Re: petitboot and Linux Kernel 3
Posted by masterzorag on Mon, 12 Mar 2012 11:56:12 GMT
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your wext and wpa_supplicant scripts calls config_get to read configfiles or device name...
(part of openwrt's uci config-system I think)

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Mon, 12 Mar 2012 17:25:55 GMT
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Hmm, i'm using it without get_config and it works fine.
wifi command works for me and WLAN works even on boot.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 24 Mar 2012 07:16:24 GMT
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petitboot has problems with mounting FreeBSD Live CD on Linux 3. Trying to fix it.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 24 Mar 2012 07:57:31 GMT

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Fixed the problem with CD and kboot.conf.

Added new init script http://gitbrew.org/~glevand/ps3/linux/openwrt/bd_drive_auth which authenticates BD drive before petitboot is started.
See my updated HOWTO.

And tested 3.2.13 on petitboot. Works fine.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 24 Mar 2012 08:45:27 GMT
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Having problems with Linux kernel >= 3.2.12 and petitboot.
Switching back to 3.2.11

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 24 Mar 2012 09:01:17 GMT
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Hmm, it is not a kernel problem, maybe bd drive auth, checking.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 24 Mar 2012 09:01:38 GMT
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It was a problem with my config. Teting 3.2.13 again.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 24 Mar 2012 09:55:38 GMT
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Linux 3.2.13 is safe to use with petitboot.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Tue, 03 Apr 2012 19:15:02 GMT
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Time to update petitboot to Linux 3.3.1.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sun, 08 Apr 2012 18:10:23 GMT
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Trying to compile petitboot with Linux kernel 3.3.1 and gcc 4.7.
Got problems with gcc 4.7 already. Could have guessed that, always the same shit with GCC.

Problem: http://lists.debian.org/debian-boot/2012/04/msg00038.html
Solution: http://lists.debian.org/debian-boot/2012/04/msg00057.html

For guys who want to compile their own petitboot, i uploaded kernel patches for Linux 3.3.1 here:
http://gitbrew.org/~glevand/ps3/linux/openwrt/patches-3.3/

And updated my HOWTO here: http://gitbrew.org/~glevand/ps3/linux/openwrt/HOWTO

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Mon, 09 Apr 2012 13:19:56 GMT
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Next problem is compiling busybox.

Here is the solution: http://git.exherbo.org/arbor.git/commit/?id=c902fc52eb2b4092
2546eebf80b659bcca211434

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Mon, 09 Apr 2012 13:24:24 GMT
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I uploaded my new patches here:

http://gitbrew.org/~glevand/ps3/linux/openwrt/011-include_un istd_fix.patch - for mklibs tool.
Place it here: tools/mklibs/patches

http://gitbrew.org/~glevand/ps3/linux/openwrt/930-linux-head ers-fix.patch - for busybox.
Place it here: package/busybox/patches

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Mon, 09 Apr 2012 15:34:05 GMT
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Finally built petitboot with Linux 3.3.1.

root@ps3-linux:/# uname -a
Linux ps3-linux 3.3.1 #3 SMP Mon Apr 9 10:24:04 2012 ppc64 GNU/Linux

root@ps3-linux:/#

Subject: Re: petitboot and Linux Kernel 3
Posted by masterzorag on Wed, 11 Apr 2012 09:14:05 GMT
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glevand wrote on Mon, 09 April 2012 17:34Finally built petitboot with Linux 3.3.1.
I got some garbage, see messages, I've attached also kernel config

read_node:139: lv1_read_repository_node failed
...
sysfs: cannot create duplicate filename '/devices/virtual/misc/ps3strgmngr'
...
ps3strgmngr_init:411: misc_register failed -17

and again weird about wext:
Line 11: failed to parse psk """".
enable_wext(wlan0): Failed to set up wpa_supplicant for interface wlan0

after correcting /etc/config/wireless
root@ps3-linux:/# wifi
wlan0: Unsupported driver 'wext'
enable_wext(wlan0): Failed to set up wpa_supplicant for interface wlan0

File Attachments

1) config.gz, downloaded 19 times
2) messages.log, downloaded 17 times

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Thu, 12 Apr 2012 16:14:55 GMT
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Here is my openwrt config for 3.3.1: http://gitbrew.org/~glevand/ps3/linux/openwrt/config-huge-3.3

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Thu, 12 Apr 2012 16:19:00 GMT
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Hmm, i have no problems with ps3strgmngr on petitboot.

root@ps3-linux:/# ps3sed print_device
nor_flash 1 512 32768 4

```
    cdrom    2     2048       2147483647       1
     disk    3     512        488397168        4
    flash    4     512          524288         7
root@ps3-linux:/#
```

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Thu, 12 Apr 2012 17:07:28 GMT
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masterzorag wrote on Wed, 11 April 2012 09:14glevand wrote on Mon, 09 April 2012 17:34Finally built petitboot with Linux 3.3.1.
I got some garbage, see messages, I've attached also kernel config

read_node:139: lv1_read_repository_node failed
...
sysfs: cannot create duplicate filename '/devices/virtual/misc/ps3strgmngr'
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and again weird about wext:
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after correcting /etc/config/wireless
root@ps3-linux:/# wifi
wlan0: Unsupported driver 'wext'
enable_wext(wlan0): Failed to set up wpa_supplicant for interface wlan0

Did you place wext.sh in /lib/wifi directory ?
I have finally got my WLAN so far that it autoconnects to my AP at boot time. No need for the Ethernet cable anymore on petitboot.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 14 Apr 2012 19:17:37 GMT
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Hmm, it seems there are problems with petitboot and Linux 3.3.1.
I'm not able to boot Linux 3.3.2 with petitboot and Linux 3.3.1.
But i have no problems with booting Linux 3.3.2 from petitboot Linux 3.2.15.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sun, 15 Apr 2012 10:40:58 GMT

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Ok, fixed issue with Linux 3.3.2 and petitboot.
I disabled Tracing functionality in my kernel config and it solved the problem.

http://gitbrew.org/~glevand/ps3/linux/openwrt/linux-config-3 .3.2

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sun, 15 Apr 2012 10:46:17 GMT
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And as i said, i got my PS3 so far as to connect to my AP at boot time on petitboot. Now i do not use Ethernet to connect to my petitboot which is sometimes really cool.
To get it working, you have to use a new network script for petitboot.

Here: http://gitbrew.org/~glevand/ps3/linux/openwrt/network

Place it in target/linux/ps3/petitboot/base-files/etc/init.d/ and make executable.
And do not forget to place wext.sh in /lib/wifi.

To manually bring the interface up, do this: wifi up
To brinbg it down: wifi down

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sun, 15 Apr 2012 10:52:14 GMT
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Another problem on petitboot.
Reboot or power down do not work on petitboot. It hangs. Have to investigate it. Not sure if it's because i use USB WLAN at boot time.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sun, 15 Apr 2012 12:16:15 GMT
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It hangs somewhere in drivers/base/core.c:device_shutdown

Some device or driver could not be deinitialized. Damn.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sun, 15 Apr 2012 12:42:43 GMT
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I need a new plan how to debug this problem. Beep is fine but won't help here much, i need some kind of logging.
Hmm, i could use some storage region on VFLASH as logbuffer, not a bad idea. I could use /dev/ps3flashg as a logbuffer.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sun, 15 Apr 2012 14:33:22 GMT
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Cool :) It worked. I'm able to debug device_shutdown now.

Here is the log. You see in which order drivers and devices are deinitialized.

misc:ps3strgmngr
misc:ps3physmem
misc:ps3dispmngr
net:wlan0
block:ps3nflashd
block:ps3nflashc
block:ps3nflashb
block:ps3nflasha
bdi:252:0
block:ps3flashg
block:ps3flashf
block:ps3flashe
block:ps3flashd
block:ps3flashc
block:ps3flashb
block:ps3flasha
bdi:253:0
:ep_00
:ep_81
hub:4-0:1.0
usb:usb4
:ep_00
usb:2-2:1.6
:ep_07
:ep_87
usb:2-2:1.5
:ep_06
:ep_86
ps3_jupiter_sta:2-2:1.4
:ep_05
:ep_85
ps3_jupiter:2-2:1.3
:ep_04

:ep_84
usb:2-2:1.2
:ep_03
:ep_83
usb:2-2:1.1
:ep_02
:ep_82
:ep_81
usb:2-2:1.0
usb:2-2
:ep_00
:ep_81
hub:3-0:1.0
usb:usb3
:ep_00
:ep_81
hub:2-0:1.0
usb:usb2
:ep_00
:ep_81
hub:1-0:1.0
usb:usb1
vc:vcsa2
vc:vcs2
vc:vcsa3
vc:vcs3
misc:ps3sysmngr
input:mice
net:eth0
block:sr0
bdi:11:0
bsg:0:0:0:0
scsi_device:0:0:0:0
sr:0:0:0:0
scsi:target0:0:0
scsi_host:host0
scsi:host0
block:loop3
bdi:7:3
block:loop2
bdi:7:2
block:loop1
bdi:7:1
block:loop0
bdi:7:0
misc:loop-control
block:ram3
bdi:1:3

block:ram2
bdi:1:2
block:ram1
bdi:1:1
block:ram0
bdi:1:0
block:ps3dd3
block:ps3dd2
block:ps3dd1
block:ps3dd
block:ps3dc
block:ps3db
block:ps3da
bdi:254:0
tty:ptmx
vtconsole:vtcon1

Hmm, it seems that the problem is not USB.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sun, 15 Apr 2012 14:37:33 GMT
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Here is the code i used to write debug messages to /dev/ps3flashg region.

```
static char sector[512] __attribute__ ((aligned(4096)));
static char buffer[512];

u64 dmabase, tag;
int err;
int i;

sprintf(buffer, "%s:%s\n", dev_driver_string(dev), dev_name(dev));
strcat(sector, buffer);

lv1_open_device(4, 4, 0);

lv1_allocate_device_dma_region(4, 4, 0x08000000ul, 24, 0, &dmabase);

lv1_map_device_dma_region(4, 4, 0, dmabase, 0x08000000ul, 0xf800000000000000ull);

lv1_storage_write(4, 6, 0, 1, 0x2, ps3_mm_phys_to_lpar(__pa(sector)), &tag);
```

```
for (i = 0; i < 100000; i++)
 __asm__ __volatile__ ("nop");

lv1_storage_send_device_command(4, 0x31, 0, 0, 0, 0, &tag);

for (i = 0; i < 100000; i++)
 __asm__ __volatile__ ("nop");

lv1_close_device(4, 4);
```

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sun, 15 Apr 2012 15:05:26 GMT
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Another log:

```
device_shutdown start
misc->ps3strgmngr
misc->ps3physmem
misc->ps3dispmngr
net->wlan0
block->ps3nflashd
block->ps3nflashc
block->ps3nflashb
block->ps3nflasha
bdi->252:0
block->ps3flashg
block->ps3flashf
block->ps3flashe
block->ps3flashd
block->ps3flashc
block->ps3flashb
block->ps3flasha
bdi->253:0
->ep_00
usb->2-2:1.6
->ep_07
->ep_87
usb->2-2:1.5
->ep_06
->ep_86
ps3_jupiter_sta->2-2:1.4
->ep_05
->ep_85
ps3_jupiter->2-2:1.3
->ep_04
```

->ep_84
usb->2-2:1.2
->ep_03
->ep_83
usb->2-2:1.1
->ep_02
->ep_82
->ep_81
usb->2-2:1.0
usb->2-2
->ep_00
->ep_81
hub->4-0:1.0
usb->usb4
->ep_00
->ep_81
hub->3-0:1.0
usb->usb3
->ep_00
->ep_81
hub->2-0:1.0
usb->usb2
->ep_00
->ep_81
hub->1-0:1.0
usb->usb1
vc->vcsa2
vc->vcs2
vc->vcsa3
vc->vcs3
misc->ps3sysmngr
input->mice
net->eth0
block->sr0
bdi->11:0
bsg->0:0:0:0
scsi_device->0:0:0:0
sr->0:0:0:0
scsi->target0:0:0
scsi_host->host0
scsi->host0
block->loop3
bdi->7:3
block->loop2
bdi->7:2
block->loop1
bdi->7:1
block->loop0

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sun, 15 Apr 2012 15:12:07 GMT
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And here another log:

device_shutdown start
misc->ps3strgmngr
misc->ps3physmem
misc->ps3dispmngr
net->wlan0
block->ps3nflashd
block->ps3nflashc
block->ps3nflashb
block->ps3nflasha
bdi->252:0
block->ps3flashg
block->ps3flashf
block->ps3flashe
block->ps3flashd
block->ps3flashc
block->ps3flashb
block->ps3flasha
bdi->253:0
->ep_00
usb->2-2:1.6
->ep_07
->ep_87
usb->2-2:1.5
->ep_06
->ep_86
ps3_jupiter_sta->2-2:1.4
->ep_05
->ep_85
ps3_jupiter->2-2:1.3
->ep_04
->ep_84
usb->2-2:1.2
->ep_03
->ep_83
usb->2-2:1.1
->ep_02

->ep_82
->ep_81
usb->2-2:1.0
usb->2-2
->ep_00
->ep_81
hub->4-0:1.0
usb->usb4
->ep_00
->ep_81
hub->3-0:1.0
usb->usb3
->ep_00
->ep_81
hub->2-0:1.0
usb->usb2
->ep_00
->ep_81
hub->1-0:1.0
usb->usb1
vc->vcsa2
vc->vcs2
vc->vcsa3
vc->vcs3
misc->ps3sysmngr
input->mice
net->eth0
block->sr0
bdi->11:0
bsg->0:0:0:0
scsi_device->0:0:0:0
sr->0:0:0:0
scsi->target0:0:0
scsi_host->host0
scsi->host0
block->loop3
bdi->7:3
block->loop2
bdi->7:2
block->loop1
bdi->7:1
block->loop0
bdi->7:0
misc->loop-control
block->ram3
bdi->1:3
block->ram2
bdi->1:2

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sun, 15 Apr 2012 15:24:07 GMT
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Another log:

device_shutdown start
misc->ps3strgmngr
shutdown start
shutdown done
misc->ps3physmem
shutdown start
shutdown done
misc->ps3dispmngr
shutdown start
shutdown done
net->wlan0
shutdown start
shutdown done
block->ps3nflashd
shutdown start
shutdown done
block->ps3nflashc
shutdown start
shutdown done
block->ps3nflashb
shutdown start
shutdown done
block->ps3nflasha
shutdown start
shutdown done
bdi->252:0
shutdown start
shutdown done
block->ps3flashg
shutdown start
shutdown done
block->ps3flashf
shutdown start
shutdown done
block->ps3flashe
shutdown start
shutdown done

```
block->ps3flashd
shutdown start
shutdown done
block->ps3flashc
shutdown start
shutdown done
block->ps3flashb
shutdown start
shutdown done
block->ps3flasha
shutdown start
shutdown done
bdi->253:0
shutdown start
shutdown done
->ep_00
shutdown start
shutdown done
->ep_81
shutdown start
shutdown done
hub->4-0:1.0
shutdown start
shutdown done
shutdown start
shutdown done
usb->usb4
shutdown start
shutdown done
->ep_00
shutdown start
shutdown done
usb->2-2:1.6
shutdown start
shutdown done
->ep_07
shutdown start
shutdown done
->ep_87
shutdown start
shutdown done
usb->2-2:1.5
shutdown start
shutdown done
->ep_06
shutdown start
shutdown done
->ep_86
```

shutdown start
shutdown done
ps3_jupiter_sta->2-2:1.4
shutdown start

Hmm, it seems that jupiter shutdown never returns.

Subject: Re: petitboot and Linux Kernel 3
Posted by McKea on Thu, 19 Jul 2012 16:24:00 GMT
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Hi! A year ago, I installed an OtherOS++ CFW on my FAT ps3 (NAND), but I didn't have time to install any distro. Now I'm going to try again, but I think my petitboot is very old (the one on the wiki tutorial). I've read the openwrt HOWTO, but I don't know which config should use. The huge one is the most updated, but it's too big for my NAND machine. I would like to know if there is an updated (and stable :p) petitboot image for NAND consoles (or a config. I could try to compile following the HOWTO, but I need at least a config because I don't know neither the maximun size supported nor the essential parts to select)

PD: Is there any possible way to get a logitech wireless keyboard to work? With the official OtherOS on 3.15 it worked. It's not an important question. I can survive with a wired keyboard or telnet. :)

Thanks!

Subject: Re: petitboot and Linux Kernel 3
Posted by masterzorag on Thu, 19 Jul 2012 17:06:20 GMT
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This was my latest config that I've used to build a running OpenWRT with Linux 3.2.9, targeted for FAT: keep it as a template, I've included OpenWRT-config too.

I've never upgraded by flashing, I'm used to kexec builted patitboot elfs instead, leaving the old 2.6 flashed inside.

About size, under 8M there are no problem.
About keyboard, same keyboard, same issue here.

File Attachments

1) OpenWRT-config-kernel-329.tar.gz, downloaded 7 times

Subject: Re: petitboot and Linux Kernel 3
Posted by McKea on Fri, 20 Jul 2012 19:34:56 GMT
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Hi! Thank you very much. I've used your opewrt config as a base for building petitboot with linux 3.3.7. But there is a problem with compilation. It's related to mkfs_ext2 in openwrt. If I disable it in .config, then it compiles (but its size is 9.5M. Will have to shrink it somehow). Is mkfs_ext2 an important package? I mean, it's only for ext2 filesystems? because I don't use ext2, only ext3/4. This is the error. Maybe someone has experienced it and can help.

```
In file included from util-linux/mkfs_ext2.c:51:0:
/home/mckea/Desktop/ps3/petitboot/3.3.7/openwrt-dev/staging_dir/toolchain-powerpc_gcc-4.6-lin
aro_uClibc-0.9.33.2/lib/gcc/powerpc-openwrt-linux-uclibc/4.6.3/../../../../powerpc-openwrt-linux-ucli
bc/sys-include/linux/ext2_fs.h:178:41: error: unknown type name 'umode_t'
util-linux/mkfs_ext2.c: In function 'mkfs_ext2_main':
util-linux/mkfs_ext2.c:486:3: warning: large integer implicitly truncated to unsigned type
[-Woverflow]
util-linux/mkfs_ext2.c:512:2: warning: large integer implicitly truncated to unsigned type
[-Woverflow]
util-linux/mkfs_ext2.c:638:2: warning: declaration of '__bsv' shadows a previous local [-Wshadow]
util-linux/mkfs_ext2.c:638:2: warning: shadowed declaration is here [-Wshadow]
util-linux/mkfs_ext2.c:638:2: warning: declaration of '__bsx' shadows a previous local [-Wshadow]
util-linux/mkfs_ext2.c:638:2: warning: shadowed declaration is here [-Wshadow]
util-linux/mkfs_ext2.c:638:2: warning: declaration of '__bsv' shadows a previous local [-Wshadow]
util-linux/mkfs_ext2.c:638:2: warning: shadowed declaration is here [-Wshadow]
util-linux/mkfs_ext2.c:638:2: warning: declaration of '__bsx' shadows a previous local [-Wshadow]
util-linux/mkfs_ext2.c:638:2: warning: shadowed declaration is here [-Wshadow]
make[5]: *** [util-linux/mkfs_ext2.o] Error 1
make[4]: *** [util-linux] Error 2
make[4]: Leaving directory
`/home/mckea/Desktop/ps3/petitboot/3.3.7/openwrt-dev/build_dir/target-powerpc_uClibc-0.9.33.2/
busybox-1.19.4'
make[3]: ***
[/home/mckea/Desktop/ps3/petitboot/3.3.7/openwrt-dev/build_dir/target-powerpc_uClibc-0.9.33.2/
busybox-1.19.4/.built] Error 2
make[3]: Leaving directory
`/home/mckea/Desktop/ps3/petitboot/3.3.7/openwrt-dev/package/busybox'
make[2]: *** [package/busybox/compile] Error 2
make[2]: Leaving directory `/home/mckea/Desktop/ps3/petitboot/3.3.7/openwrt-dev'
make[1]: ***
[/home/mckea/Desktop/ps3/petitboot/3.3.7/openwrt-dev/staging_dir/target-powerpc_uClibc-0.9.33.
2/stamp/.package_compile] Error 2
make[1]: Leaving directory `/home/mckea/Desktop/ps3/petitboot/3.3.7/openwrt-dev'
make: *** [world] Error 2
```

Another question. I've read that ps3flash driver is designed for VFLASH and NAND flash, and ps3nflash is for NOR flash. Is ps3nflash driver needed in a NAND machine?

Thanks!

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Fri, 20 Jul 2012 20:57:51 GMT
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To fix this error you need this patch: http://gitbrew.org/~glevand/ps3/linux/openwrt/930-linux-headers-fix.patch

Place it in package/busybox/patches.

ps3nflash is useless on NAND, disable it and save some space.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Fri, 20 Jul 2012 21:01:12 GMT
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BTW, latest OpenWRT trunk has a strange problem with mounting storage device. Mount hangs. Just a warning for you.
Test your image with kexec before flashing it.

Subject: Re: petitboot and Linux Kernel 3
Posted by McKea on Sat, 21 Jul 2012 19:24:05 GMT
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Now it compiles, but I can't reduce the binary size :S The smaller I have managed to get is 8.4MB... You said something about using powerpc64-linux-strip with --strip-debug and --strip-unneeded in order to strip the kernel. How do you use this? I typed "powerpc64-linux-strip --strip-unneeded --strip-debug openwrt-ps3-petitboot-vmlinux.elf" but nothing changes. In addition, with this you can strip vmlinux, how do you apply this to dtbImage.ps3.bin? I'm not familiar with strip command, so excuse me if I'm saying stupid things :p

---

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 21 Jul 2012 19:51:23 GMT
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openwrt strips the kernel by default.
Try to disable features in kernel which you don't need. And disable all packages you don't need. Maybe you should consider using Linux 2.6 because it's smaller than Linux 3. All new tools and drivers are available on Linux 2.6 too.

http://gitbrew.org/~glevand/ps3/linux/linux-2.6/patches-2.6/

But you have to use an old OpenWRT revision because Linux 2.6 is not supported anymore on OpenWRT. Linux 3.3.8 is the current kernel on OpenWRT.

And current OpenWRT revision has problems with mount command.
Do not use the latest revision of OpenWRT.

See here: http://wiki.gitbrew.org/forum/mv/msg/135/1744/#msg_1744

Subject: Re: petitboot and Linux Kernel 3
Posted by McKea on Sat, 21 Jul 2012 20:20:40 GMT
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Yeah, I had seen the message about mount in the othet thread :)
I didn't remember that new tools were ported to 2.6 too! Do you know a revision which supported 2.6 kernel? (only if you have built it or know the revision for some reason. I'm not asking you to search it for me :))
And the last question: is it possible to setup WiFi to connect at boot time with my AP? I saw you managed with jupiter, but don't know if it can be done with FAT consoles.

Thank you very much for your help. You're a genius.

PD: Sorry if it has been difficult to understand me. My English is not the best.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 21 Jul 2012 20:39:24 GMT
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Actually, i wanted to build an openwrt with Linux 2.6 kernel myself, for NAND users like you because petitboot with Linux 2.6 is smaller.
Take a look at OpenWRT SVN history here: https://dev.openwrt.org/browser
An dtry to find the last OpenWRT revision which still had Linux 2.6 support.

And yeah, all new tools and new drivers are ported to Linux 2.6 and tested by me, they work fine for me.

Regarding WLAN. I'm using myself WLAN on petitboot and petitboot connects automatically to my AP at boot time. This way i do not need
Ethernet cable. Pretty useful. But i have a SLim and that means ps3jupiter driver.
FATs use the WLAN driver from SONY. And it should work fine too. Just try it out and if you have problems then report it here and we will try to help you.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sat, 21 Jul 2012 20:43:08 GMT
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OpenWRT revision 31774 is the latest revision which supports Linux 2.6.39.

Subject: Re: petitboot and Linux Kernel 3
Posted by glevand on Sun, 22 Jul 2012 12:13:15 GMT
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I managed to build a small OpenWRT image based on Linux 2.6 with new tools and drivers.
It is small enough for a NAND.
Please test.
First test the elf file with kexec on old OpenWRT, like this:

On petitboot:

kexec -l /root/openwrt-ps3-petitboot-vmlinux.elf
kexec -e

Images: http://gitbrew.org/~glevand/ps3/linux/openwrt/images/tiny/2. 6/

I tested this image on a slim and it worked fine, no problems with kexec.