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## Howto create an initrd image

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WzL
Howto create an initrd image
June 01, 2012 05:51AM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Registered: 2 years ago
   I'm currently bussy with compiling the latest stable kernel (3.3.7) from kernel.org for the pogoplug and it's booting till the point it searches for his own specific modules in de initrd
   ramdisk.
   Loading, please wait.
      20.532435] udevd[50]: starting version 175
  Begin: Loading essential drivers ... modprobe: chdir(3.3.7): No such file or directory
   Ok, should not be an issue, we create our own initrd image. Some sidenote should be mentioned, i succesfully compiled the kernel in a cross compile enviroment using codesourcery-
  arm-2011.03.sh. When i'm executing mkinitramfs-kpkg to create an initial ramdisk it is searching in the root (/lib/modules) of my cross compile machine and not in cross compile environment of the target kernel source (/home/user/crossc/linux-3.3.7/lib/modules):
 mkinitramfs-kpkg -o initrd 3.3.7
Deprecation WARNING: use update-initramfs(8)
 grep: /boot/config-3.3.7: No such file or directory
WARNING: missing /lib/modules/3.3.7
Question is how do i succesfully create a ramdisk image for the pogoplug in een cross compile environment? Thnx in advance!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Registered: 2 years ago
       te: Howto create an initrd image
  Answering my own question (for the sake of informational purposes)
   After compiling your own kernel
    make oldconfig && make menuconfig && make uImage && make modules && make modules install
   using a crosscompile environment or, in this case, using the target environment (pogoplug) itself, one can enter the following command:
   mkinitramfs [OPTION]... -o outfile [version]
   So in my case it will be: mkinitramfs -o linux-3.3.8 3.3.8. This creates a initramfs image named linux-3.3.8. This image must be prepared for uboot:
   mkimage -A arm -O linux -T ramdisk -C gzip -a 0x00000000 -e 0x0000000 -n "Pogoplug Ramdisk" -d linux-3.3.8 uInitrd
  Booting a Linux 3.3.8 kernel using this specific uInitrd on a Pogoplug v02 gives the folowing output:
     J-Boot 2011.12-00447-gfca94c3-dirty (Mar 04 2012 - 21:39:45)
     ioC: Kirkwood 88F6281_A0
RAM: 256 MiB
ARRNING: Caches not enabled
AND: 128 MiB
WANING: Caches not enabled
WAND: 128 his
WANING: Caches not enabled
WAND: 128 his
In: serial
Dut: serial
Dut: serial
Net: egigae
Net: loss serial
Net: egigae
Net: serial
Net: egigae
Net: egigae
Net: egigae
Net: egigae
Net: egigae
Net: egigae
Net: loss serial
Net: egigae
Net: loss serial
Net: egigae
Net: loss serial
Net: los
   Using machid 0x831 from environment
StartIng kernel ...

Uncompressing Linux... done, booting the kernel.

0.0000001 Booting Linux on physical CPU 0

0.0000001 Initializing cgroup subsys cpuset

0.0000000 Initializing cgroup subsys cpu

0.0000000 INITIALIZED CARROW CAR
```

```
0.000000] Memory: 256MB = 256MB total
0.000000] Virtual kernel memory layout:
0.000000] Virtual kernel memory layout:
0.000000] vector : 0xffff00000 - 0xffff10000 ( 4 kB)
0.000000] vector : 0xffff00000 - 0xfff600000 ( 896 kB)
0.000000] vmalloc : 0x600000000 - 0xff0000000 ( 744 MB)
0.000000] lowmem : 0xc00000000 - 0xd000000000 ( 256 MB)
0.000000] lowmem : 0xc000000000 - 0xd000000000 ( 256 MB)
                                                                ( 896 kB)
( 744 MB)
( 256 MB)
( 16 MB)
                      modules : 0xbf000000
      0.000000
                                                0xc0000000
     (4121 kB)
Conclusion, creating an initial ramdisk succeeded, but output like
 runaway loop modprobe binfmt-464c
is aparently an error message of the kernel tries to start /sbin/init but it won't recognize the binary format ... so my crosscompile environment (codesourcery-arm) is not yet working
Edited 1 time(s). Last edit at 06/12/2012 04:49AM by WzI
                                                                                                                                                                                                                     Registered: 2 years ago
 Re: Howto create an initrd image
a fresh recompile of the 3.3.8 kernel and creation ot the ramdisk using the pogoplug environment itself, taking upto several hours ... booting of the 3.3.8 kernel results in the following
  -Boot 2011.12-00447-gfca94c3-dirty (Mar 04 2012 - 21:39:45)
```

```
Kirkwood 88F6281_A0
256 MiB
SoC: Kirkwood 88F6281_A0
DRAM: 256 MiB
WARNING: Caches not enabled
NAND: 128 MiB
                                                  serial
    Out: serial
Fir: serial
Net: egiga0
Hit any key to stop autoboot: 0
(Re)start USB...
USB: Register 10011 NbrPorts 1
USB EHCI 1.00
USB EMCI 1.00

scanning bus for devices... 3 USB Device(s) found scanning bus for storage devices... 1 Storage Device(s) found loading file "Vulmage" from usb device 0:1 (usbdal) 2176832 bytes read loading file "Vulnitrd" from usb device 0:1 (usbdal) 7422154 bytes read #8 Booting kernel from Legacy Image at 00800000 ...

Image Name: Linux-3.3.8

Image Type: ARM Linux Ernel Image (uncompressed) Data Size: 2176768 Bytes = 2.1 MiB
Load Address: 00008000
Entry Point: 00008000
Verifyino Checksum ... 0K
                  Entry Point: 00008000
Verifying Checksum ... OK
Loading init Ramdisk from Legacy Image at 01100000 ...
Image Name: Pogoplug Ramdisk
Image Type: ARM Linux RAMDisk Image (gzip compressed)
Data Size: 7422090 Bytes = 7.1 MiB
Load Address: 00000000
Entry Point: 000000000
Verifying (hecksum ... OK
Loading Kernel Image ... OK
               arting kernel ...

compressing Linux... done, booting the kernel.

0.000009] Booting Linux on physical CPU 0

0.000009] Initializing orgrow subsys cpuset

0.000009] Initializing orgrow subsys cpuset

0.000009] CPU: FORTOCOM SUBSYS CPU

0.000009] Machine: Marvell ShewaPlug Reference Board

0.000009] Machine: Marvell ShewaPlug Reference Board

0.000009] Subtil 1 zonelists in Zone order, mobility grouping on. Total pad

0.000009] Multil zonelists in Zone order, mobility grouping on. Total pad

0.000009] Multil zonelists in Zone order, mobility grouping on. Total pad

0.000009] Multil zonelists in Zone order, mobility grouping on. Total pad

0.000009] Lone order order in Zone order in Zone order in Zone

0.000009] Lone order in Zone order in Zone

0.000009] Lone order in Zone order in Zone

0.000009] Lone order in Zone

0.000009] Memory: 25689 - 25689 total

0.000009] Lone order in Zone

1.000009] Lone order in Zone

1.0
      Jsing machid 0x831 from environment
                             22.301748] Serial: 8250/16550 driver, 2 ports, IRQ sharing disabled
```

```
Jone.

Jave up waiting for root device. Common problems:

- Boot args (cat /pror/cmdline)

- Check rootdelay= (did the system wait long enough?)

- Check root (did the system wait for the right device?)

- Missing modules (cat /pror/modules; ls /dev)

LERT! /dev/disk/by-uuid/22729972-8156-939-9608-60315e5a7c4a does not exist.!

nodprobe: module sMed To found in modules.dep

bodprobe: module atkbd not found in modules.dep

55.109720] ohci_hcd: USB Universal Host Controller Interface driver

55.110720] ohci_hcd: USB 1.1 'Open' Host Controller (OHCI) Driver

55.137609] usbcore: registered new interface driver usbhid

55.143328] usbhid: USB HID core driver
BusyBox v1.19.3 (Debian 1:1.19.3-7) built-in shell (ash)
Enter 'help' for a list of built-in commands.
 /bin/sh: can't access tty; job control turned off
(initramfs)
Hmzz... the ramdisk is apparently configured to boot from disk using an uuid from initial target i used building the ramdisk image ... thats one small glitch
Edited 1 time(s). Last edit at 06/12/2012 04:56AM by WzL
WzL
Re: Howto create an initrd image
                                                                                                                                                                                                                                        Registered: 2 years ago
  ased on the mkraminitfs manual
Here is mkinitramfs execution chain:
    Load plugins, mount /sys and /proc, adjust kernel messages level.
     Start udev daemon, trigger device events - /dev/starts getting populated.
    Run in loop for one minute, periodically running loaded plugins to find our root devices. UUID of root file system was hardcoded during initramfs creation and can be overridden from command kernel line.
mount root
Once root is found run fsck on it, then mount.
    Move /dev, /proc and /sys to new root - why umount them if they will be mounted again by init scripts? Chroot to new root exec-ing real init.
```

```
Question is, how does one define an UUID when there's no access yet to the target system? Answer, through uboot bootloader. For example: setenv bootargs $(console)
     root=UUID=12345678-901-2345-6789-0123456789012 rootdelay=5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Registered: 2 years ago
      Re: Howto create an initrd image
June 12, 2012 05:12PM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Posts: 13
      Finally succes by adding root=/dev/sda3 to bootargs_console of u-boot
        setenv bootargs_console console=ttyS0,115200 root=/dev/sda3
      U-Boot 2011.12-00447-gfca94c3-dirty (Mar 04 2012 - 21:39:45)
    SoC: Kirkwood 88F6281_A0
DRAM: 256 MiB
WARNING: Caches not enabled
NAND: 128 MiB
                           serial
      Out: serial
                          serial
    Net: egiga0
Hit any key to stop autoboot: 0
PogdE82> setenv bootargs_console console=tty50,115200 root=/dev/sda3
PogdE82> boot
(Re)start USB...
                          Register 10011 NbrPorts 1
     USB EHCI 1.00
    USB EHCT 1.00 scanning bus for devices... 3 USB Device(s) found scanning bus for storage devices... 1 Storage Device(s) found Loading file "/Ulmage" from usb device 0:1 (usbdal) 2176832 bytes read Loading file "/Ulnitrd" from usb device 0:1 (usbdal) 7422154 bytes read
           122154 bytes read

*Booting kernet from Legacy Image at 00800000 ...

Image Name: Linux-3.3.8

ABM Linux Kernel Image (uncompressed)

Data Size: 2176768 Bytes = 2.1 MiB

Load Address: 00008000

Entry Point: 00008000
            Verifying Checksum ... OK
Loading init Ramdisk from Legacy Image at 01100000 ...
Image Name: Pogoplug Ramdisk
Image Type: ARM Linux RAMDisk Image (gzip compressed)
Data Size: 7422000 Bytes = 7.1 MiB
              Load Address: 00000000
Entry Point: 00000000
             Verifying Checksum ... OK
Loading Kernel Image ...
Sking machid 0x831 from environment

Starting kernel ...

Jincompressing Linux... done, booting the kernel.

0.0800000] Intitalizing cyroup subsys cpu
0.0800000] Linux version 3.3 (front@proxy-test) (gcc version 4.6.3 (Debian 4.6.3-1) ) #1 Mon Jun 11 18:08:30 (EST 22
0.080000] Linux version 3.3 (front@proxy-test) (gcc version 4.6.3 (Debian 4.6.3-1) ) #1 Mon Jun 11 18:08:30 (EST 22
0.080000] Unix version 3.3 (front@proxy-test) (gcc version 4.6.3 (Debian 4.6.3-1) ) #1 Mon Jun 11 18:08:30 (EST 22
0.080000] Unix version 3.3 (front@proxy-test) (gcc version 4.6.3 (Debian 4.6.3-1) ) #1 Mon Jun 11 18:08:30 (EST 22
0.080000] Unix version 3.3 (front@proxy-test) (gcc version 4.6.3 (Debian 4.6.3-1) ) #1 Mon Jun 11 18:08:30 (EST 22
0.080000] Busin version 4.6.4 (PVI instruction cache
0.080000] Busin version 4.6.4 (PVI instruction 4.
       Jsing machid 0x831 from environment
       Starting kernel ...
```

```
[ 15.113667] NetWinder Floating Point Emulator V0.97 (double precision)
15.113743] audit: initializing nettink socket (disabled)
15.113743] audit: initializing nettink socket (disabled)
15.113762 [VFS: Disk quotas dquot_5.5.2
15.115286] Diver-Zoeh audit (0.7012): initialized
15.115286] Diver-Zoeh audit (0.7012): initialized
15.115286] Diver-Zoeh audit (0.7012): Initialized
15.115287] Moute-Cache hash table entries: 1024 (order 0, 4096 bytes)
15.115287] Moute-Cache hash table entries: 1024 (order 0, 4096 bytes)
15.115287] Initialized audit (0.7012): Initialized (0.70
legin: Loading essential drivers ... modprobe: module unix not found in modules.dep lone.

Begin: Running /scripts/init-premount ... done.

Begin: Running /scripts/init-premount ... done.

Begin: Running root file system ... Egin: Running /scripts/local-top ... done.

Begin: Waiting for root file system ... [ 17.77238] usb 1:1: new high-speed USB device number 2 using orion-ehci 17.92374] usb 1:1: New USB device found, idVendor=8583, idProduct=808

17.939464] usb 1:1: New USB device found, idVendor=8583, idProduct=808

17.937643] usb 1:1: Product: USB2.0 Hub

17.951532] hub 1:1:1.0: USB hub found

17.951532] hub 1:1:1.0: USB hub found

17.951532] hub 1:1:1. New USB device strings: Mfr=0, Product=1, SerialNumber=0

18.323630] usb 1:1. New USB device found, idVendor=0d49, idProduct=7359

18.359333] usb 1:1.1: New USB device found, idVendor=0d49, idProduct=7359

18.359333] usb 1:1.1: New USB device found, idVendor=0d49, idProduct=7359

18.359339] usb 1:1. Horduct: OneTouch

18.362398] usb 1:1. Horduct: OneTouch

18.362398] usb 1:1. Horduct: OneTouch

18.362398] usb 1:1. Horduct: OneTouch

18.362751 usb 1:1.1: SerialNumber=2HAPBMCD

18.391341] SCSI subsystem initialized

18.391341] SCSI subsystem initialized

18.391349] SCSI subsystem initialized

18.497533] Initializing USB Mass Storage driver...

18.412758] ScsiB : usb-storage 1:1.1:1.0

18.418297] usb core: registered new interface driver usb-storage

18.424397] ScsiB coust-storage support registered.

19.413317] ScsiB : usb-storage 1:1.1:1.0

19.443377] Sd ::0:0:0: [sda] Mixte Protect is off

19.451593] Sd ::0:0:0: [sda] Mixte Protect is off

19.451793] Sd ::0:
       pune.

Begin: Running /scripts/local-premount ... done.

[ 20.770012] EXT4-fs (sda3): mounted filesystem with ordered data mode. Opts: (null) segin: Running /scripts/local-bottom ... done.
         uone.
Begin: Running /scripts/init-bottom ... done.
IMIT: version 2.88 booting
Using makefile-style concurrent boot in runlevel S.
Starting the hotplug events dispatcher: udevd.
         [: 22.383157] udevd[208]: starting version 175
Synthesizing the initial hotplug events...done.
Waiting for /dev to be fully populated...done.
Activating swap...[ 24.415228] Adding 249852k swap on /dev/sda2. Priority:-1 extents:1 across:249852k
         pone. [ 24.446009] EXT4-fs (sda3): re-mounted. Opts: (null) Checking root file system...fsck from util·linux 2.20.1 e2fsck 1.42.2 (9-Apr-2012) dev/sda3: clean, 7169/249984 files, 73289/999936 blocks
                                         .
25.328059] EXT4-fs (sda3): re-mounted. Opts: errors=remount-ro
         [ 25.328059] EXIA-Ts (sda3): re-mounted. Upts: errors 
Loading kernel modules. .done. 
Activating lvm and md swap...done. 
Thecking file systems..fsck from util-linux 2.20.1 
e2fsck 1.42.2 (9-Apr.2012) 
dev/sda1: clean, 530/30976 files, 101291/123904 blocks 
e2fsck 1.42.2 (9-Apr.2012)
         eZ15cK 1.42.2 (9-Apr-2012)
dve/ysda8: Clean, 84759/8749056 files, 9898200/34978816 blocks
e2fsck 1.42.2 (9-Apr-2012)
dve/ysda5: Clean, 24/249984 files, 40711/999680 blocks
e2fsck 1.42.2 (9-Apr-2012)
```

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/dev/sda6: clean, 25004/249984 files, 155149/999680 blocks
e2fsck 1.42.2 (9-Apr-2012)
/dev/sda7: clean, 3094/249984 files, 116923/999680 blocks
Videv/Sadr: Lean; Josephanes, mount: unknown filesystem type 'ext3'
[ 29.58765] EXT4-fs (sda8): mounted filesystem with ordered data mode. Opts: (null)
[ 29.708465] EXT4-fs (sda8): mounted filesystem with ordered data mode. Opts: (null)
[ 29.862976] EXT4-fs (sda6): mounted filesystem with ordered data mode. Opts: (null)
[ 29.988203] EXT4-fs (sda7): mounted filesystem with ordered data mode. Opts: (null)
Listening on LPF/eth0/00:25:31:00:5c:62
DHCPACK from 192.167.1.1
bound to 192.167.1.118 -- renewal in 40025 seconds.
ok

Starting NFS common utilities: statd. ok

...] Cleaning up temporary files... ok

INIT: Entering runlevel: 2

info] Using makefile-style concurrent boot in runlevel 2.

...] Starting probind deamon...[...] Already running.. ok

...] Starting probind deamon...[...] Already running.. ok

...] Starting deferred execution scheduler: atd. ok

...] Starting deferred execution scheduler: atd. ok

...] Starting system message bus: dbus. ok

Starting nginx: nginx

...] Starting Mil Transport Agent (MTA): sendmail. ok

...] Starting Mail Transport Agent (MTA): sendmail. ok

...] Starting Mail Transport Agent (MTA): sendmail. ok

...] Starting Mail Transport Agent (MTA): sendmail. ok
root@proxy:~# uname -a
Linux proxy 3.3.8 #1 Mon Jun 11 18:08:30 CEST 2012 armv5tel GNU/Linux
davygravy

Re: Howto create an initrd image

June 12, 2012 05:21PM
                                                                                                                                                                                                                                        Registered: 2 years ago
                                                                                                                                                                                                                                       Posts: 484
Nice detective work
 Is that 3.3.8 kernel your own, or from Debian?
  ._____
    • My Weather Station: (Pogoplug E02/Debianized 1-Wire Weather-Station/Cam)

Linux 3.3.2 for Kirkwood Debian package
Newer U-Boot for Pogoplug E01/E02, Dockstar, GoFlex Net/Home
    • Rescue V2.8.1 for Pogoplug, Dockstar, GoFlex Net/Home, Zyxel NSA320 & many others

    Kirkwood Downloads (via my Dropbox public folder)

    • davy's Github Repo's AFPDplug, SMBPlug, OWFSPlug, Cloudprint, Optware-DG, uBoot ..
                                                                                                                                                                                                                                       Registered: 2 years ago
Posts: 13
Re: Howto create an initrd image
June 12, 2012 05:47PM
uImage Linux 3.3.8 Kernel Pogoplug v02
uInitrd ramdisk 3.3.8 Kernel Pogoplug v02
Using the <u>kernel config</u> provided by davydravy _0_
 in combination with 3.3.8 Linux kernel source from kernel.org
Edited 3 time(s). Last edit at 06/12/2012 06:02PM by WzL
WzI
                                                                                                                                                                                                                                        Registered: 2 years ago
 Re: Howto create an initrd image
                                                                                                                                                                                                                                       Posts: 13
davygravy Wrote:
 Nice detective work.
 Is that 3.3.8 kernel your own, or from Debian?
Fresh from kernel.org, compiled by my own! Nothing special though, just a small patch removing some compile glitches during compilation of some modules
 Need to say that without the help of this forum (especialy your .config of 3.3.2) and the u-boot irc channel i hadn't come this far this quick. Also it's a rough build, i tested very few
funtions
                                                                                                                                                                                                                                        Registered: 2 years age
 Re: Howto create an initrd image
                                                                                                                                                                                                                                       Posts: 13
June 13, 2012 03:10PM
```

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ust continued with the stable 3.4.2 kernel
       Again:
          make oldconfiq && make menuconfiq && make uImage && make modules && make modules install
          mkimage -A arm -O linux -T ramdisk -C qzip -a 0x0000000 -e 0x0000000 -n "Pogoplug Ramdisk" -d linux-3.4.2 uInitrd
          Files:
     .config
uInitrd
       uImage
          U-Boot 2011.12-00447-qfca94c3-dirty (Mar 04 2012 - 21:39:45)
DRAM: 256 MiB
MARNING: Caches not enabled
MARNING: Caches not enabled
MARNING: Eaches not enabled
MARNING: Eaches not enabled
Dut: serial
Err: serial
Frr: serial
Het: egiga0
Hit any key to stop autoboot: 0
(Re)start USB...
USB: Register 10011 NbrPorts 1
USB: REGister 10011 NbrPorts 1
JSS: Register 10011 NbrPorts 1
JSS EHCI 1.00
scanning bus for devices... 3 USB Device(s) found
scanning bus for storage devices... 1 Storage Device(s) found
loading file "/uImage" from usb device 0:1 (usbdal)
2230740 bytes read
loading file "/uImitrd" from usb device 0:1 (usbdal)
7409358 bytes read
## Booting kernel from Legacy Image at 00800000 ...
Image Name: Linux-3.-2
Image Type: APM Linux Kernel Image (uncompressed)
Data Size: 2230640 Bytes = 2.1 MiB
Load Address: 00000000
Entry Point: 00000000
Entry Point: 00000000
Verifying Checksum ... OK
## Loading init Ramdisk from Legacy Image at 01100000 ...
Image Name: Pogopulg Ramdisk
Image Type: ARM Linux RAMDisk Image (gzip compressed)
Data Size: 7400274 Bytes = 7.1 MiB
Load Address: 00000000
Verifying Checksum ... OK
Loading kernel Image ... OK
OK
Sk
Jsing machid 0x831 from environment
                     sing machid 0x831 from environment
                                     Ombressing Linux... done, booting the kernel.

0.000000] Booting Linux on physical CPU 0
0.000000] Booting Linux on physical CPU 0
0.000000] Initializing cgroup subsys cpuset
0.000000] Initializing cgroup subsys cpuset
0.000000] Initializing cgroup subsys cpu
0.000000] CPU: VIVI data cache, VIVI instruction cache
0.000000] Mexine: Marveti SheevaPtly Reference Board
0.000000] Mustl 1 zonelists in Zone order, mobility grouping on. Total pages: 65024
0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 65024
0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pages: 65024
0.000000] PlD hash table entries: 1324 (order: 4, 6955 bytes)
0.000000] Indoe-cache hash table entries: 1634 (order: 4, 65536 bytes)
0.000000] Indoe-cache hash table entries: 1634 (order: 4, 65536 bytes)
0.000000] Ploaes try (zorup disable-memory' option if you don't want memory cgroups
0.000000] Ploaes try (zorup disable-memory' option if you don't want memory cgroups
0.000000] Ploaes try (zorup disable-memory' option if you don't want memory cgroups
0.000000] Vemory: 256782 = 25678 total
0.000000] vemory: 256782 = 25678 total
0.000000] vector: extfff0000 - 0xffff0000 ( 4 kB)
0.000000] vector: extfff0000 - 0xffff0000 ( 906 kB)
0.000000] vector: extfff0000 - 0xffff00000 ( 896 kB)
0.000000] vaniloc: 0xd6000000 - 0xfff000000 ( 744 kB)
0.000000] towmen: exceeded000 - 0xc6000000 ( 16 kB)
0.000000] towmen: exceed0000 - 0xc60000000 ( 16 kB)
0.000000] towmen: exceed0000 - 0xc6000000 ( 16 kB)
0.000000] intext (0xc000000 - 0xc6000000 ( 144 kB)
0.000000] odata: 0xc0000000 - 0xc0000000 ( 144 kB)
0.0000000 odata: 0xc0000000 odata: 0xc0000000 ( 144 kB)
0.0000000 odata: 0xc0000000 odata: 0xc0000000 ( 144 kB)
0.
                          0.0000000] .data: 0xc0416000 - 0xc0456ca8 ( 260 kB) 0.000000] .bs: 0xc0456cc 0xc04baba4 ( 400 kB) 0.000000] .bs: 0xc0456cc 0xc04baba4 ( 400 kB) 0.000000] NR_IROS:114 0.000000] ngiochin_add: registered GPIOs 0 to 31 on device: orion_gpio0 0.000000] sched_clock: 32 bits at 2000Hz, resolution 5ns, wraps every 21474ms 0.000000] sched_clock: 32 bits at 2000Hz, resolution 5ns, wraps every 21474ms 0.000000] Console: colour dummy device 80x30 12.000000] Console: colour dummy device 80x30 12.1.000000] Console: colour dummy device 80x30 12.1.76340] pid_max: default: 32708 minimum: 301 12.1.76340] Security Framework initialized 12.1.776340 [ Nourt-cache hash table entries: 512 12.1.777194] Initializing cgroup subsys memory 12.1.77239] Initializing cgroup subsys freezer 12.1.777239 [ Initializing cgroup subsys freezer 12.1.777258] Initializing cgroup subsys freezer 12.1.777258 [ Initializing cgroup subsys prefevent 12.1.777381 [ Initializing cgroup subsys prefevent 12.1.777381 [ Initializing cgroup subsys blkio 12.1.777881 [ Initializing cgroup subsys perf event 12.1.777856] Setting up static identity map for 0x2d6888 - 0x2d68c4 12.178817 [ Otto Testing up static identity map for 0x2d6888 - 0x2d68c4 12.181851 [ Vetymfrs: initialized 12.180520] dummy: 12.181501 [ Vetymfrs: initialized 12.18150520] dummy: 12.181501 [ Peroceon 12: Cache support initialized. 12.181368] Switching to clocksource orion_clocksource 12.184480 [ Wetr Registered protocol family 1 2 1.18483 [ Witching to clocksource orion_clocksource 13.18480 [ Wetr Registered protocol family 2 1.19980] [ White Registered protocol family 1 2 1.19980] Up hash table entries: 2948 (order: 1, 8192 bytes) 1.199973 [ TCP: renor registered 12.199980 [ UpP-last hable entries: 256 (order: 0, 4096 bytes) 12.199986 [ Upp-last hable entries: 256 (order: 0, 4096 bytes) 12.199986 [ Upp-last hable entries: 256 (order: 0, 4096 bytes) 12.199986 [ Upp-last hable entries: 256 (order: 0, 4096 bytes) 12.199986 [ Upp-last hable entries: 256 (order: 0, 4096 bytes) 12.199986 [ Upp-last hable
```

```
[ 21.799741] Freeing initrd memory: 7224K
21.799741] NetWinder Floating Point Emulator V0.97 (double precision)
21.800390] audit: initializing nettink socket (disabled)
21.800391 (type=2000 audit(0.700:1): initialized
21.80152] VFS: Disk quotas dquor(5.5.2
21.801912] Duot-cache hash table entries: 1024 (order 0, 4096 bytes)
21.802331] YffSz: version 2.2. (MAMD) (SUMMANY) 60 2001-2006 Red Mat, Inc.
21.802373] sagmin has been set to 407
21.803961] block layer SCSI generic (bsg) driver version 0.4 loaded (major 253)
21.803966] block layer SCSI generic (bsg) driver version 0.4 loaded (major 253)
21.803979] io scheduler deadline registered
21.803986] io scheduler deadline registered
21.803986] io scheduler deadline registered
21.803986] in w_xor_shared w_xor_shared.0: Marvell shared XDR driver
21.803191 | ww_xor_shared w_xor_shared.1: Marvell shared XDR driver
21.8035908] ww_xor m_xor.1: Marvell XDR: (xor cpy)
21.815904| ww_xor w_xor.3: Marvell XDR: (xor cpy)
21.915904| ww_xor w_xor.3: Marvell XDR: (xor fill cpy)
21.915905| scanning device for bad blocks
22.242106| console (ttyS) embled
22.43598| NAND device: Manufacturer ID: 0xad, chip ID: 0xf1 (Hynix NAND 128M1B 3,3V 8-bit)
22.432015| Scanning device for bad blocks
22.532634| 0x000000100000-0x00000000000: "u-boot"
22.536340| 0x000000100000-0x0000000000000: "u-boot"
22.536340| 0x0000000000000-0x000000000000: "u-boot"
22.536309| Nand device: Manufacturer ID: 0xad, chip ID: 0xf1 (Hynix NAND 128M1B 3,3V 8-bit)
22.536793| Creating 3 MTD partitions on "orion nand":
22.536793| Creating 3 MTD partitions on "orion nand":
22.536793| Creating 3 MTD partitions on "orion nand":
22.536793| Free work of the start of the st
24.114482] hub 1-0:1.0:1 port detected segin: Running /scripts/inti-premount ... done. Begin: Waiting for file system ... [2 4.434949] us 1-1: new high-speed USB device number 2 using orii 24.593951 ush 1-1: New USB device found, idVendor-0503, idProduct-0508 device number 2 using orii 24.593994 ush 1-1: New USB device found, idVendor-0503, idProduct-0508 device number 0 device 14.60491 hub 1-1: New USB device strings: Mfr=0, Product-1, SerialNumber-0 device 14.60491 hub 1-1: New USB device found, idVendor-0409, idProduct-0509 device 14.60491 hub 1-1: New USB device found, idVendor-0409, idProduct-0509 device 14.60491 ush 1-1: New USB device found, idVendor-0409, idProduct-0509 device 15.608091 ush 1-1: New USB device found, idVendor-0409, idProduct-0509 device 15.608091 ush 1-1: New USB device strings: Mfr=1, Product-2, SerialNumber-0 device 15.608091 ush 1-1: New USB device strings: Mfr=1, Product-2, SerialNumber-0 device 15.608091 ush 1-1: New USB device strings: Mfr=1, Product-2, SerialNumber-0 device 15.608091 ush 1-1: SerialNumber: 2MAP9ND2 device
         Begin: Running /scripts/local-premount ... done.
[ 27.279028] EXT4-fs (sda3): mounted filesystem with ordered data mode. Opts: (null)
Begin: Running /scripts/local-bottom ... done.
fone.
         pone.
Begin: Running /scripts/init-bottom ... done.
INIT: version 2.88 booting
Using makefile-style concurrent boot in runlevel S.
      Starting the hotplug events dispatcher: udevd.
[ 29,226187] devel(289): starting version 175
Synthesizing the initial hotplug events...done.
Waiting for /dev to be fully populated...done.
Kcitvating synpp...[ 31,280234] Adding 249852k swap on /dev/sda2. Priority:-1 extents:1 across:249852k
                                    31.306897] EXT4-fs (sda3): re-mounted. Opts: (null)
           Checking root file system...fsck from util-linux 2.20.1
e2fsck 1.42.2 (9-Apr-2012)
/dev/sda3: clean, 7191/249984 files, 78169/999936 blocks
           done.
[ 32.205066] EXT4-fs (sda3): re-mounted. Opts: errors=remount-ro
         [ 32.265866] EXT4-fs (sda3): re-mounted. Opts: errors=remount loading kernel modules...done. Activating lym and md swap...done. Activating lym and md swap...done. Locksing file systems...fsck from util-linux 2.20.1 e2fsck 1.42.2 (9-Apr.2012) dev/sda1: clean, 532/30976 files, 110737/123904 blocks e2fsck 1.42.2 (9-Apr.2012) dev/sda8: clean, 84759/8749056 files, 9898200/34978816 blocks e2fsck 1.42.2 (9-Apr.2012)
           /dev/sda5: clean, 24/249984 files, 40711/999680 blocks
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e2fsck 1.42.2 (9-Apr-2012)
/dev/sda6: clean, 25028/249984 files, 154997/999680 blocks
e2fsck 1.42.2 (9-Apr-2012)
/dev/sda7: clean, 3147/249984 files, 116863/999680 blocks
 Activating swapfile swap...done
      ctivating swaprile swap...oone.
] Cleaning up temporary files... ok
...| Clonfiguring network interfaces...done.
...| Setting kernel variables ...done
...| Starting rpcbind daemon...rpcbind: cannot create socket for udp6
pcbind: cannot create socket for tcp6
  ok
[....] Starting NFS common utilities: statd. ok
[....] Cleaning up temporary files... ok
IMIT: Entering runtevel: 2
[info] Using makefile-style concurrent boot in runlevel 2.
[....] Starting NFS common utilities: statd. ok
[....] Starting prebind demon...[...] Already running. ok
[40.602419] mv643xx_eth_port mv643xx_eth_port.0: eth0: link up, 100 Mb/s, full duplex, flow control disabd
[....] Starting enhanced syslogd: rsyslogd. ok
[....] Starting deferred execution scheduler: atd. ok
[....] Starting parients command scheduler: atd. ok
      ....] Starting deferred execution scheduler: atd. ok
....] Starting periodic command scheduler: cron. ok
....] Starting periodic command scheduler: cron. ok
....] Starting system message bus: dbus. ok
tarting nginx: nginx.
....] Starting NTP server: ntpd. ok
....] Starting Nail Transport Agent (MTA): sendmailmake: Warning: File 'Makefile' has modification time 1.3e
nake: warning: Clock skew detected. Your build may be incomplete.
           ...] Starting OpenBSD Secure Shell server: sshd. ok
      ebian GNU/Linux wheezy/sid proxy ttyS0
    last login: Wed lun 13 20:29:12 CEST 2012 on ttvS0
    Linux proxy 3.4.2 #1 Wed Jun 13 02:11:05 CEST 2012 armv5tel
   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.
root@proxy:-# uname -a
inux proxy 3.4.2 #1 Wed Jun 13 02:11:05 CEST 2012 armv5tel GNU/Linux
 Again rough build and no testing applied WzL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Registered: 2 years ago
        te: Howto create an initrd image
ine 13, 2012 05:14PM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Posts: 13
   Just continued with the 3.5.0 rc2 kernel.
    U-Boot 2011.12-00447-gfca94c3-dirty (Mar 04 2012 - 21:39:45)
CREATE SECTION OF THE PROPERTY OF THE PROPERTY
    USB: Register 10011 NbrPorts 1
USB EHCI 1.00
scanning bus for devices... 3 USB Device(s) found
scanning bus for devices... 3 USB Device(s) found
scanning bus for storage devices... 1 Storage Device(s) found
Loading file "vLimage" from usb device 0:1 (usbdal)
2300020 bytes read
Loading file "vLinitrd" from usb device 0:1 (usbdal)
2400326 bytes read
## Booting Kernel from Legacy Image at 00800000 ...
Image Name: Linux-3.5.0-rc2
Image Name: Linux-3.5.0-rc2
Image Type: ARM Linux Kernel Image (uncompressed)
Data Size: 20008506 Bytes = 2.2 MiB
Load Address: 00008000
Entry Point: 000008000
Verifying fhecksum ... OK
## Loading init Ramdisk from Legacy Image at 01100000 ...
Image Name: Pogoplug Ramdisk
Image Type: ARM Linux RAMDisk Image (gzip compressed)
Data Size: 7400224 Bytes = 7.1 MiB
Load Address: 00000000
Verifying Checksum ... OK
Loading Kernel Image ... OK
USing machid 0x831 from environment
        .
sing machid 0x831 from environment
       ncompressing Linux... done, booting the kernel.
    and there it stalls, as expected.
   Edited 2 time(s). Last edit at 06/13/2012 05:33PM by WzL
  rayvt
Re: Howto create an initrd image
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Registered: 1 year ago
    I've been fighting with doing cross-compile on my Debain desktop system this all day. Everything goes ok -- and it's a lot faster than building the kernel on the pogoplug -- but it just
       von't boot.
```

discovered that mkinitramfs pulls binaries and libraries from the \*host\* system, even though it (correctly) pulls modules from the cross-compiled target. Beats me how anybody is

able to create a uInitrd on their 386 system, like they seem to. Maybe there's an extra step that I'm just not seeing?

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