

```
connecting /dev/ttyUSB0 .....
Sumith Tablet .....
Connecting to /dev/ttyUSB0, speed 115200
Escape character: Ctrl-\ (ASCII 28, FS): enabled
Type the escape character followed by C to get back,
or followed by ? to see other options.
-----
```

U-Boot 2009.08-00339-g091e85d (Sep 01 2012 - 12:54:29)

```
CPU: Freescale i.MX53 family 2.1V at 800 MHz
mx53 pll1: 800MHz
mx53 pll2: 400MHz
mx53 pll3: 216MHz
mx53 pll4: 455MHz
ipg clock      : 66666666Hz
ipg per clock  : 33333333Hz
uart clock     : 66666666Hz
cspi clock     : 54000000Hz
ahb clock      : 133333333Hz
axi_a clock    : 400000000Hz
axi_b clock    : 200000000Hz
emi_slow clock: 133333333Hz
ddr clock      : 400000000Hz
esdhc1 clock   : 80000000Hz
esdhc2 clock   : 80000000Hz
esdhc3 clock   : 80000000Hz
esdhc4 clock   : 80000000Hz
nfc clock      : 26666666Hz
Board: MX53-SMD Rev. B
Boot Reason: [POR]
Boot Device: MMC
I2C: ready
DRAM: 512 MB
MMC: FSL_ESDHC: 0, FSL_ESDHC: 1
*** Warning - bad CRC or MMC, using default environment
```

```
In: serial
Out: serial
Err: serial
da9052_i2c_is_connected - i2c write success....
Serial reinitialized!
Checking for recovery command file...
Card did not respond to voltage select!
** Bad partition 6 **
Net: got MAC address from IIM: 00:04:9f:01:ef:2d
FEC0 [PRIME]
Warning: FEC0 MAC addresses don't match:
Address in SROM is      00:04:9f:01:ef:2d
Address in environment is 00:04:9f:00:ea:d3
```

Hit any key to stop autoboot: 0

```
MMC read: dev # 1, block # 2048, count 8192 partition # 0 ...
8192 blocks read: OK
```

```
MMC read: dev # 1, block # 12288, count 768 partition # 0 ...
768 blocks read: OK
```

```
## Booting kernel from Legacy Image at 70800000 ...
Image Name: Linux-2.6.35.3-01265-ge0acce3
Image Type: ARM Linux Kernel Image (uncompressed)
```

```
Data Size:      3329520 Bytes =  3.2 MB
Load Address:  70008000
Entry Point:   70008000
Verifying Checksum ... OK
## Loading init Ramdisk from Legacy Image at 70d00000 ...
Image Name:    Android Root Filesystem
Image Type:    ARM Linux RAMDisk Image (uncompressed)
Data Size:    182800 Bytes = 178.5 kB
Load Address:  70308000
Entry Point:   70308000
Verifying Checksum ... OK
Loading Kernel Image ... OK
OK
```

Starting kernel ...

```
Initializing cgroup subsys cpu
Linux version 2.6.35.3-01265-ge0acce3 (srinivas@srinivas-laptop) (gcc version
4.4.3 (GCC) ) #1 PREEMPT Sat Sep 1 13:23:08 IST 2012
CPU: ARMv7 Processor [412fc085] revision 5 (ARMv7), cr=10c53c7f
CPU: VIPT nonaliasing data cache, VIPT nonaliasing instruction cache
Machine: Freescale MX53 SMD Board
Memory policy: ECC disabled, Data cache writeback
Built 1 zonelists in Zone order, mobility grouping on. Total pages: 81534
Kernel command line: console=ttyMXC0 init=/init androidboot.console=ttyMXC0
video=mxcdilfb:RGB666,XGA ldb=dil dil_primary pmem=32M,64M fbmem=5M
gpu_memory=64M
PID hash table entries: 2048 (order: 1, 8192 bytes)
Dentry cache hash table entries: 65536 (order: 6, 262144 bytes)
Inode-cache hash table entries: 32768 (order: 5, 131072 bytes)
allocated 1643520 bytes of page_cgroup
please try 'cgroup_disable=memory' option if you don't want memory cgroups
Memory: 321MB = 321MB total
Memory: 313832k/313832k available, 14872k reserved, 0K highmem
Virtual kernel memory layout:
   vector : 0xffff0000 - 0xffff1000   (  4 kB)
   fixmap : 0xffff0000 - 0xffffe000   ( 896 kB)
   DMA    : 0xfde00000 - 0xffe00000   (  32 MB)
   vmalloc : 0xd4800000 - 0xf4000000   ( 504 MB)
   lowmem : 0xc0000000 - 0xd4100000   ( 321 MB)
   pkmap  : 0xbfe00000 - 0xc0000000   (   2 MB)
   modules : 0xbf000000 - 0xbfe00000   (  14 MB)
   .init  : 0xc0008000 - 0xc0039000   (  196 kB)
   .text  : 0xc0039000 - 0xc0895000   (8560 kB)
   .data  : 0xc08b6000 - 0xc091ece0   (  420 kB)
SLUB: Genslabs=11, HWalign=32, Order=0-3, MinObjects=0, CPUs=1, Nodes=1
Hierarchical RCU implementation.
   RCU-based detection of stalled CPUs is disabled.
   Verbose stalled-CPU detection is disabled.
NR_IRQS:368
MXC GPIO hardware
MXC IRQ initialized
MXC_Early serial console at MMIO 0x53fbc000 (options '115200')
bootconsole [ttyMXC0] enabled
Console: colour dummy device 80x30
Calibrating delay loop... 999.42 BogoMIPS (lpj=4997120)
pid_max: default: 32768 minimum: 301
Security Framework initialized
Mount-cache hash table entries: 512
Initializing cgroup subsys debug
Initializing cgroup subsys ns
Initializing cgroup subsys cpuacct
```

Initializing cgroup subsys memory
Initializing cgroup subsys devices
Initializing cgroup subsys freezer
Initializing cgroup subsys blkio
CPU: Testing write buffer coherency: ok
regulator: core version 0.5
NET: Registered protocol family 16
i.MX IRAM pool: 128 KB@0xd4840000
IRAM READY
CPU is i.MX53 Revision 2.1
Using SDMA I.API
MXC DMA API initialized
IMX usb wakeup probe
IMX usb wakeup probe
bio: create slab <bio-0> at 0
SCSI subsystem initialized
CSPI: mxc_spi-0 probed
Freescale USB OTG Driver loaded, \$Revision: 1.55 \$
usbcore: registered new interface driver usbfs
usbcore: registered new interface driver hub
usbcore: registered new device driver usb
da9052_i2c_is_connected - i2c read success....
reg-fixed-voltage reg-fixed-voltage.0: Could not obtain regulator enable GPIO
74: -16
reg-fixed-voltage: probe of reg-fixed-voltage.0 failed with error -16
regulator: DA9052_LD01: 600 <--> 1800 mV at 1300 mV normal
regulator: DA9052_LD02: 600 <--> 1800 mV at 1300 mV normal
regulator: DA9052_LD03: 1725 <--> 3300 mV at 3300 mV normal
regulator: DA9052_LD04: 1725 <--> 3300 mV at 2775 mV normal
regulator: DA9052_LD05: 1200 <--> 3600 mV at 1300 mV normal
regulator: DA9052_LD06: 1200 <--> 3600 mV at 1300 mV normal
regulator: DA9052_LD07: 1200 <--> 3600 mV at 2800 mV normal
regulator: DA9052_LD08: 1200 <--> 3600 mV at 1800 mV normal
regulator: DA9052_LD09: 1250 <--> 3650 mV at 1500 mV normal
regulator: DA9052_LD010: 1200 <--> 3600 mV at 1300 mV normal
regulator: DA9052_BUCK_CORE: 500 <--> 2075 mV at 1250 mV normal
regulator: DA9052_BUCK_PRO: 500 <--> 2075 mV at 1300 mV normal
regulator: DA9052_BUCK_MEM: 925 <--> 2500 mV at 1500 mV normal
regulator: DA9052_BUCK_PERI: 1800 <--> 3600 mV at 3600 mV normal
DA9053 chip ID reg read=0xa3
BB version probed
IPU DMFC NORMAL mode: 1(0~1), 5B(4,5), 5F(6,7)
Advanced Linux Sound Architecture Driver Version 1.0.23.
Bluetooth: Core ver 2.15
NET: Registered protocol family 31
Bluetooth: HCI device and connection manager initialized
Bluetooth: HCI socket layer initialized
Switching to clocksource mxc_timer1
NET: Registered protocol family 2
IP route cache hash table entries: 4096 (order: 2, 16384 bytes)
TCP established hash table entries: 16384 (order: 5, 131072 bytes)
TCP bind hash table entries: 16384 (order: 4, 65536 bytes)
TCP: Hash tables configured (established 16384 bind 16384)
TCP reno registered
UDP hash table entries: 256 (order: 0, 4096 bytes)
UDP-Lite hash table entries: 256 (order: 0, 4096 bytes)
NET: Registered protocol family 1
RPC: Registered udp transport module.
RPC: Registered tcp transport module.
RPC: Registered tcp NFSv4.1 backchannel transport module.
Unpacking initramfs...
Freeing initrd memory: 176K

LPMODE driver module loaded
Static Power Management for Freescale i.MX5
PM driver module loaded
sdram autogating driver module loaded
Bus freq driver module loaded
DII is primary
mxc_bt_rfkill driver success loaded
rfkill: BT RF going to : on
mxc_dvfs_core_probe
DVFS driver module loaded
i.MXC CPU frequency driver
DVFS PER driver module loaded
ashmem: initialized
msgmni has been set to 613
alg: No test for stdrng (krng)
cryptodev: driver loaded.
io scheduler noop registered
io scheduler deadline registered
io scheduler cfq registered (default)
By setting, TVE driver will not be enabled
sii902x 2-0039: found device 9022
sii902x 2-0039: Can not read edid
regulator: get() with no identifier
mxc_ldb mxc_ldb: default dil single mode
mxc_ipu mxc_ipu: Channel already disabled 9
mxc_ipu mxc_ipu: Channel already uninitialized 9
IPU DMFC DP HIGH RESOLUTION: 1(0,1), 5B(2~5), 5F(6,7)
fbcvt: 1024x768@60: CVT Name - .786M3
mxc_ipu mxc_ipu: Channel already disabled 7
mxc_ipu mxc_ipu: Channel already uninitialized 7
mxc_ipu mxc_ipu: Channel already disabled 10
mxc_ipu mxc_ipu: Channel already uninitialized 10
Serial: MXC Internal UART driver
mxcintuart.0: ttyMXC0 at MMIO 0x53fbc000 (irq = 31) is a Freescale i.MX
console [ttyMXC0] enabled, bootconsole disabled
console [ttyMXC0] enabled, bootconsole disabled
mxcintuart.1: ttyMXC1 at MMIO 0x53fc0000 (irq = 32) is a Freescale i.MX
mxcintuart.2: ttyMXC2 at MMIO 0x5000c000 (irq = 33) is a Freescale i.MX
mxcintuart.3: ttyMXC3 at MMIO 0x53ff0000 (irq = 13) is a Freescale i.MX
mxcintuart.4: ttyMXC4 at MMIO 0x63f90000 (irq = 86) is a Freescale i.MX
loop: module loaded
pmem_adsp: 1 init
pmem_gpu: 1 init
MXC MTD nand Driver 3.0
i.MX GPMI NFC
vcan: Virtual CAN interface driver
Freescale FlexCAN Driver
FEC Ethernet Driver
fec_enet_mii_bus: probed
PPP generic driver version 2.4.2
PPP Deflate Compression module registered
PPP BSD Compression module registered
PPP MPPE Compression module registered
NET: Registered protocol family 24
tun: Universal TUN/TAP device driver, 1.6
tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
fsl-ehci fsl-ehci.0: Freescale On-Chip EHCI Host Controller
fsl-ehci fsl-ehci.0: new USB bus registered, assigned bus number 1
fsl-ehci fsl-ehci.0: irq 18, io base 0x53f80000
fsl-ehci fsl-ehci.0: USB 2.0 started, EHCI 1.00
hub 1-0:1.0: USB hub found

```
hub 1-0:1.0: 1 port detected
fsl-ehci fsl-ehci.1: Freescale On-Chip EHCI Host Controller
fsl-ehci fsl-ehci.1: new USB bus registered, assigned bus number 2
fsl-ehci fsl-ehci.1: irq 14, io base 0x53f80200
fsl-ehci fsl-ehci.1: USB 2.0 started, EHCI 1.00
hub 2-0:1.0: USB hub found
hub 2-0:1.0: 1 port detected
usbcore: registered new interface driver cdc_acm
cdc_acm: v0.26:USB Abstract Control Model driver for USB modems and ISDN
adapters
Initializing USB Mass Storage driver...
usbcore: registered new interface driver usb-storage
USB Mass Storage support registered.
usbcore: registered new interface driver usbserial
usbserial: USB Serial Driver core
USB Serial support registered for GSM modem (1-port)
usbcore: registered new interface driver option
option: v0.7.2:USB Driver for GSM modems
ARC USBOTG Device Controller driver (1 August 2005)
Android usb driver initialize
android_usb gadget: android_usb ready
fsl-usb2-udc: bind to driver android_usb
android gadget: register function adb
android gadget: register function usb_mass_storage
android gadget: register function rndis
f_accessory init
android gadget: register function accessory
android_usb gadget: usb_mass_storage, version: 2009/09/11
android_usb gadget: Number of LUNs=3
  lun0: LUN: removable file: (no medium)
  lun1: LUN: removable file: (no medium)
  lun2: LUN: removable file: (no medium)
rndis_function_bind_config MAC: 00:00:00:00:00:00
android_usb gadget: using random self ethernet address
android_usb gadget: using random host ethernet address
usb0: MAC 6a:45:fa:37:b7:11
usb0: HOST MAC be:5d:fc:37:12:8b
acc_bind_config
mice: could not register psaux device, error: -16
mice: PS/2 mouse device common for all mice
input: gpio-keys as /devices/platform/gpio-keys/input/input0
MXC keypad loaded
mpr121 1-005a: mpr121: config as enable 4 of electrode.
input: FSL MPR121 Touchkey as /devices/platform/imx-i2c.1/i2c-1/1-
005a/input/input1
mpr121 1-005a: Mpr121 touch keyboard init success.
input: eGalax Touch Screen as /devices/platform/imx-i2c.2/i2c-2/2-
0004/input/input2
p1003_fwv33 2-0041: couldn't read panel infomation.
p1003_fwv33: probe of 2-0041 failed with error -5
usb 2-1: new high speed USB device using fsl-ehci and address 2
input: da9052-onkey as /devices/platform/imx-i2c.0/i2c-0/0-0048/da9052-
onkey/input/input3
input: isl29023 light sensor as /devices/virtual/input/input4
isl29023 2-0044: driver version 1.0 enabled
using rtc device, da9052-rtc, for alarms
da9052-rtc da9052-rtc: rtc core: registered da9052-rtc as rtc0
i2c /dev entries driver
IR NEC protocol handler initialized
IR RC5(x) protocol handler initialized
IR RC6 protocol handler initialized
IR JVC protocol handler initialized
```

```
IR Sony protocol handler initialized
Linux video capture interface: v2.00
hub 2-1:1.0: USB hub found
hub 2-1:1.0: 4 ports detected
mxc_v4l2_output mxc_v4l2_output.0: Registered device video1
usbcore: registered new interface driver uvcvideo
USB Video Class driver (v0.1.0)
APM Battery Driver
input: mma8451 as /devices/virtual/input/input5
mag3110 1-000e: check mag3110 chip ID
input: mag3110 as /devices/virtual/input/input6
mag3110 1-000e: mag3110 is probed
MXC WatchDog Driver 2.0
MXC Watchdog # 0 Timer: initial timeout 60 sec
device-mapper: ioctl: 4.17.0-ioctl (2010-03-05) initialised: dm-devel@redhat.com
Bluetooth: Virtual HCI driver ver 1.3
Bluetooth: HCI UART driver ver 2.2
Bluetooth: HCIATH3K protocol initialized
Bluetooth: Generic Bluetooth USB driver ver 0.6
usbcore: registered new interface driver btusb
VPU initialized
mxc_asrc registered
gpu_mmu disabled
android_usb gadget: high speed config #1: android
mxsdhci: MXC Secure Digital Host Controller Interface driver
mxsdhci: MXC SDHCI Controller Driver.
mmc0: SDHCI detect irq 0 irq 3 INTERNAL DMA
mxsdhci: MXC SDHCI Controller Driver.
mmc1: SDHCI detect irq 205 irq 1 INTERNAL DMA
mxsdhci: MXC SDHCI Controller Driver.
mmc2: SDHCI detect irq 0 irq 2 INTERNAL DMA
usbcore: registered new interface driver usbhid
usbhid: USB HID core driver
logger: created 64K log 'log_main'
logger: created 256K log 'log_events'
logger: created 64K log 'log_radio'
logger: created 64K log 'log_system'
Cirrus Logic CS42888 ALSA SoC Codec Driver
sgtl5000-i2c 1-000a: SGTL5000 revision 17
mxc_spdif mxc_spdif.0: MXC SPDIF Audio Transmitter
No device for codec mxc spdif
No device for DAI mxc spdif
No device for DAI imx-ssi-1-0
No device for DAI imx-ssi-1-1
No device for DAI imx-ssi-2-0
No device for DAI imx-ssi-2-1
No device for DAI imx-spdif-dai
DMA Sound Buffer Allocated: Playback UseIram=1 ext_ram=0 buf->addr=f8016000 buf-
>area=d4856000 size=24576
DMA Sound Buffer Allocated: Capture UseIram=1 ext_ram=1 buf->addr=83358000 buf-
>area=fe70b000 size=24576
asoc: SGTL5000 <-> imx-ssi-2-0 mapping ok
mmc0: new high speed MMC card at address 0001
mmcblk0: mmc0:0001 SEM08G 7.39 GiB
  mmcblk0: p1 p2 p3 < p5 p6 > p4
DMA Sound Buffer Allocated: Playback UseIram=1 ext_ram=1 buf->addr=833a0000 buf-
>area=fe711000 size=24576
asoc: mxc spdif <-> imx-spdif-dai mapping ok
ALSA device list:
  #0: imx-3stack (SGTL5000)
  #1: imx-3stack-spdif (mxc spdif)
nf_conntrack version 0.5.0 (4906 buckets, 19624 max)
```

IPv4 over IPv4 tunneling driver
GRE over IPv4 tunneling driver
ip_tables: (C) 2000-2006 Netfilter Core Team
TCP cubic registered
NET: Registered protocol family 10
IPv6 over IPv4 tunneling driver
NET: Registered protocol family 17
NET: Registered protocol family 15
can: controller area network core (rev 20090105 abi 8)
NET: Registered protocol family 29
can: raw protocol (rev 20090105)
can: broadcast manager protocol (rev 20090105 t)
Bluetooth: L2CAP ver 2.14
Bluetooth: L2CAP socket layer initialized
Bluetooth: SCO (Voice Link) ver 0.6
Bluetooth: SCO socket layer initialized
Bluetooth: RFCOMM TTY layer initialized
Bluetooth: RFCOMM socket layer initialized
Bluetooth: RFCOMM ver 1.11
Bluetooth: BNEP (Ethernet Emulation) ver 1.3
Bluetooth: BNEP filters: protocol multicast
Bluetooth: HIDP (Human Interface Emulation) ver 1.2
L2TP core driver, V2.0
PPPoL2TP kernel driver, V2.0
VFP support v0.3: implementor 41 architecture 3 part 30 variant c rev 2
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_PERI on
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_MEM on
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_PRO on
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_CORE on
regulator_init_complete: incomplete constraints, leaving DA9052_LD010 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD08 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD06 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD05 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD04 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD03 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD01 on
da9052-rtc da9052-rtc: setting system clock to 2000-01-11 23:15:02 UTC
(947632502)
Freeing init memory: 196K
init: cannot open '/initlogo.rle'
EXT4-fs (mmcblk0p2): mounted filesystem with ordered data mode. Opts: (null)
EXT4-fs (mmcblk0p2): re-mounted. Opts: (null)
EXT4-fs (mmcblk0p5): warning: checktime reached, running e2fsck is recommended
EXT4-fs (mmcblk0p5): recovery complete
EXT4-fs (mmcblk0p5): mounted filesystem with ordered data mode. Opts:
noauto_da_alloc
EXT4-fs (mmcblk0p6): warning: checktime reached, running e2fsck is recommended
EXT4-fs (mmcblk0p6): recovery complete
EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)
rfkill: BT RF going to : off
init: cannot find '/system/etc/install-recovery.sh', disabling 'flash_recovery'
warning: `adb' uses 32-bit capabilities (legacy support in use)
enabling adb
input: eCompass as /devices/virtual/input/input7
pmem: request for physical address of pmem region from process 2242.
request_suspend_state: on (3->0) at 11878794502 (2000-01-11 23:15:11.203542000
UTC)
Unhandled fault: external abort on non-linefetch (0x1018) at 0x40a85054
android_usb gadget: high speed config #1: android
Unhandled fault: external abort on non-linefetch (0x1018) at 0x40a85054
request_suspend_state: on (0->0) at 12134257003 (2000-01-11 23:15:11.459006751
UTC)

Unhandled fault: external abort on non-linefetch (0x1018) at 0x41063054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x41100054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x41152054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x411ef054
Not all allocated memory blocks were freed. Doing it now.
Freeing list entry #0, gpuaddr=84456000
Freeing list entry #2, gpuaddr=84467000
Freeing list entry #3, gpuaddr=84499000
Freeing list entry #6, gpuaddr=8449a000
Freeing list entry #7, gpuaddr=844ba000
Freeing list entry #8, gpuaddr=844da000
Freeing list entry #63, gpuaddr=84457000
Freeing list entry #66, gpuaddr=8449c000
Unhandled fault: external abort on non-linefetch (0x1018) at 0x41352054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x413ef054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x41452054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x414ef054
request_suspend_state: mem (0->3) at 29143068878 (2000-01-11 23:15:28.467815751
UTC)
isl29023 2-0044: isl29023 early_syspend
mag3110 1-000e: mag3110 early_syspend

U-Boot 2009.08-00228-g992719e (Jan 11 2011 - 10:18:59)

CPU: Freescale i.MX53 family 2.0V at 1000 MHz

mx53 pll1: 1000MHz

mx53 pll2: 400MHz

mx53 pll3: 216MHz

mx53 pll4: 455MHz

ipg clock : 66666666Hz

ipg per clock : 33333333Hz

uart clock : 21600000Hz

cspi clock : 54000000Hz

ahb clock : 133333333Hz

axi_a clock : 400000000Hz

axi_b clock : 200000000Hz

emi_slow clock: 133333333Hz

ddr clock : 400000000Hz

esdhc1 clock : 80000000Hz

esdhc2 clock : 80000000Hz

esdhc3 clock : 80000000Hz

esdhc4 clock : 80000000Hz

nfc clock : 26666666Hz

Board: MX53-SMD 1.0

Boot Reason: [POR]

Boot Device: NOR

I2C: ready

DRAM: 1 GB

MMC: FSL_ESDHC: 0, FSL_ESDHC: 1

Using default environment

In: serial

Out: serial

Err: serial

Net: got MAC address from IIM: 00:04:9f:01:ef:2d

FEC0

Hit any key to stop autoboot: 0

Booting kernel from Legacy Image at 70800000 ...

Image Name: Linux-2.6.35.3-00676-g952b0dd

Image Type: ARM Linux Kernel Image (uncompressed)

Data Size: 1747936 Bytes = 1.7 MB


```
Load Address: 70008000
Entry Point: 70008000
Verifying Checksum ... OK
## Loading init Ramdisk from Legacy Image at 70b00000 ...
Image Name: uboot initramfs rootfs
Image Type: ARM Linux RAMDisk Image (gzip compressed)
Data Size: 4189205 Bytes = 4 MB
Load Address: 00000000
Entry Point: 00000000
Verifying Checksum ... OK
Loading Kernel Image ... OK
OK
```

Starting kernel ...

```
Linux version 2.6.35.3-00676-g952b0dd (r58066@shlinux1) (gcc version 4.4.4
(4.4.4_09.06.2010) ) #109 PREEMPT Tue Jan 11 21:52:15 CST 2011
CPU: ARMv7 Processor [412fc085] revision 5 (ARMv7), cr=10c53c7f
CPU: VIPT nonaliasing data cache, VIPT nonaliasing instruction cache
Machine: Freescale MX53 SMD Board
Memory policy: ECC disabled, Data cache writeback
Built 1 zonelists in Zone order, mobility grouping on. Total pages: 218112
Kernel command line: console=ttyMXC0,115200 rdinit=/linuxrc
PID hash table entries: 4096 (order: 2, 16384 bytes)
Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
Memory: 352MB 512MB = 864MB total
Memory: 869208k/869208k available, 15528k reserved, 0k highmem
Virtual kernel memory layout:
   vector   : 0xffff0000 - 0xffff1000   ( 4 kB)
   fixmap   : 0xffff0000 - 0xffffe000   ( 896 kB)
   DMA      : 0xf9e00000 - 0xffe00000   ( 96 MB)
   vmalloc  : 0xe0800000 - 0xf4000000   ( 312 MB)
   lowmem   : 0x80000000 - 0xe0000000   (1536 MB)
   pkmap    : 0x7fe00000 - 0x80000000   ( 2 MB)
   modules  : 0x7f000000 - 0x7fe00000   ( 14 MB)
   .init    : 0x80008000 - 0x8002f000   ( 156 kB)
   .text    : 0x8002f000 - 0x80349000   (3176 kB)
   .data    : 0x8034a000 - 0x80385600   ( 238 kB)
SLUB: Genslabs=11, HWalign=32, Order=0-3, MinObjects=0, CPUs=1, Nodes=1
Hierarchical RCU implementation.
   RCU-based detection of stalled CPUs is disabled.
   Verbose stalled-CPU detection is disabled.
NR_IRQS:368
MXC GPIO hardware
MXC IRQ initialized
MXC_Early serial console at MMIO 0x53fbc000 (options '115200')
bootconsole [ttyMXC0] enabled
Console: colour dummy device 80x30
Calibrating delay loop... 665.19 BogoMIPS (lpj=3325952)
pid_max: default: 32768 minimum: 301
Mount-cache hash table entries: 512
CPU: Testing write buffer coherency: ok
regulator: core version 0.5
i.MX IRAM pool: 128 KB@0xe0840000
IRAM READY
CPU is i.MX53 Revision 2.0
Using SDMA I.API
MXC DMA API initialized
IMX usb wakeup probe
IMX usb wakeup probe
bio: create slab <bio-0> at 0
```

```
SCSI subsystem initialized
CSPI: mxc_spi-0 probed
da9052_i2c_is_connected - i2c read success.....
smd_da9052_init ret=0
regulator: DA9052_LD01: 600 <--> 1800 mV at 1300 mV normal
regulator: DA9052_LD02: 600 <--> 1800 mV at 1300 mV normal
regulator: DA9052_LD03: 1725 <--> 3300 mV at 3300 mV normal
regulator: DA9052_LD04: 1725 <--> 3300 mV at 2775 mV normal
regulator: DA9052_LD05: 1200 <--> 3600 mV at 1300 mV normal
regulator: DA9052_LD06: 1200 <--> 3600 mV at 1300 mV normal
regulator: DA9052_LD07: 1200 <--> 3600 mV at 2750 mV normal
regulator: DA9052_LD08: 1200 <--> 3600 mV at 1800 mV normal
regulator: DA9052_LD09: 1250 <--> 3650 mV at 1500 mV normal
regulator: DA9052_LD010: 1200 <--> 3600 mV at 1300 mV normal
regulator: DA9052_BUCK_CORE: 500 <--> 2075 mV at 1250 mV normal
regulator: DA9052_BUCK_PRO: 500 <--> 2075 mV at 1300 mV normal
regulator: DA9052_BUCK_MEM: 925 <--> 2500 mV at 1500 mV normal
regulator: DA9052_BUCK_PERI: 1800 <--> 3600 mV at 3600 mV normal
IPU DMFC NORMAL mode: 1(0~1), 5B(4,5), 5F(6,7)
Switching to clocksource mxc_timer1
Unpacking initramfs...
Freeing initrd memory: 4088K
LPMode driver module loaded
Static Power Management for Freescale i.MX5
PM driver module loaded
sdram autogating driver module loaded
Bus freq driver module loaded
DI0 is primary
mxc_dvfs_core_probe
DVFS driver module loaded
i.MXC CPU frequency driver
DVFS PER driver module loaded
JFFS2 version 2.2. (NAND) © 2001-2006 Red Hat, Inc.
msgmni has been set to 1705
io scheduler noop registered
io scheduler deadline registered
io scheduler cfq registered (default)
mxc_ipu mxc_ipu: Channel already disabled 9
mxc_ipu mxc_ipu: Channel already uninitialized 9
Console: switching to colour frame buffer device 100x30
fbcv: 1024x768@60: CVT Name - .786M3
Serial: MXC Internal UART driver
mxcintuart.0: ttymx0 at MMIO 0x53fbc000 (irq = 31) is a Freescale i.MX
console [ttymx0] enabled, bootconsole disabled
console [ttymx0] enabled, bootconsole disabled
mxcintuart.1: ttymx1 at MMIO 0x53fc0000 (irq = 32) is a Freescale i.MX
mxcintuart.2: ttymx2 at MMIO 0x5000c000 (irq = 33) is a Freescale i.MX
mxcintuart.3: ttymx3 at MMIO 0x53ff0000 (irq = 13) is a Freescale i.MX
mxcintuart.4: ttymx4 at MMIO 0x63f90000 (irq = 86) is a Freescale i.MX
loop: module loaded
ahci: SSS flag set, parallel bus scan disabled
ahci ahci.0: AHCI 0001.0100 32 slots 1 ports 3 Gbps 0x1 impl platform mode
ahci ahci.0: flags: ncq sntf stag pm led clo only pmp pio slum part ccc
scsi0 : ahci
atal: SATA max UDMA/133 irq_stat 0x00000040, connection status changed irq 28
MXC MTD nand Driver 3.0
i.MX GPMI NFC
ARC USBOTG Device Controller driver (1 August 2005)
check_parameters:UTP settings are in place now, overriding defaults
g_file_storage gadget: File-backed Storage Gadget, version: 20 November 2008
g_file_storage gadget: Number of LUNs=1
fsl-usb2-udc: bind to driver g_file_storage
```

```
mice: PS/2 mouse device common for all mice
MXC keypad loaded
i2c /dev entries driver
IR NEC protocol handler initialized
IR RC5(x) protocol handler initialized
IR RC6 protocol handler initialized
IR JVC protocol handler initialized
IR Sony protocol handler initialized
Linux video capture interface: v2.00
mxc_v4l2_output mxc_v4l2_output.0: Registered device video1
APM Battery Driver
MXC WatchDog Driver 2.0
MXC Watchdog # 0 Timer: initial timeout 60 sec
Freescale: Register to MMC/SDIO driver
Error: fs_unifi_init failed!
mxsdhci: MXC Secure Digital Host Controller Interface driver
mxsdhci: MXC SDHCI Controller Driver.
mmc0: SDHCI detect irq 205 irq 1 INTERNAL DMA
mxsdhci: MXC SDHCI Controller Driver.
mmc1: SDHCI detect irq 0 irq 2 INTERNAL DMA
mxsdhci: MXC SDHCI Controller Driver.
mmc2: SDHCI detect irq 0 irq 3 INTERNAL DMA
VFP support v0.3: implementor 41 architecture 3 part 30 variant c rev 2
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_MEM on
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_PRO on
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_CORE on
regulator_init_complete: incomplete constraints, leaving DA9052_LD010 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD09 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD08 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD07 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD06 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD04 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD03 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD02 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD01 on
drivers/rtc/hctosys.c: unable to open rtc device (rtc0)
atal: SATA link up 1.5 Gbps (SStatus 113 SControl 300)
atal.00: ATA-8: SanDisk SSD P4 8GB, SSD 8.13, max UDMA/133
atal.00: 15649200 sectors, multi 1: LBA48
atal.00: configured for UDMA/133
scsi 0:0:0:0: Direct-Access ATA SanDisk SSD P4 8 SSD PQ: 0 ANSI: 5
sd 0:0:0:0: [sda] 15649200 512-byte logical blocks: (8.01 GB/7.46 GiB)
sd 0:0:0:0: [sda] Write Protect is off
g_file_storage gadget: high speed config #1
sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO
or FUA
sda: unknown partition table
sd 0:0:0:0: [sda] Attached SCSI disk
Freeing init memory: 156K
mmc2: new high speed MMC card at address 0001
mmcblk0: mmc2:0001 SEM08G 7.39 GiB
mmcblk0:Starting UTP
p1 p2 p3 <^@ p5 p6 > p4
ln: /etc/mtab: File exists
disable turn off display
uuc 0.4 [built Sep 27 2011 16:42:47]
UTP: Waiting for device to appear
utp_mk_devnode: creating node '/dev/utp' with 10+222
cpu_id is 53
utp_mk_devnode: creating node '/dev/watchdog' with 10+130
feed_watchdog
UTP: received command 'mknod block,mmcblk0,/dev/mmcblk0,block'
```

```

class = 'block'
item = 'mmcblk0'
node = /dev/mmcblk0
type = block
UTP: running utp_mk_devnode(block,mmcblk0,/dev/mmcblk0,0x6000)
utp_mk_devnode: creating node '/dev/mmcblk0' with 179+0
UTP: sending Success to kernel for command mknod block.
UTP: received command '$ mknod /dev/zero c 1 5'
UTP: executing "mknod /dev/zero c 1 5"
UTP: sending Success to kernel for command $ mknod /dev/zero c 1 5.
UTP: received command '$ dd if=/dev/zero of=/dev/mmcblk0 bs=512 seek=1536
count=16'
UTP: executing "dd if=/dev/zero of=/dev/mmcblk0 bs=512 seek=1536 count=16"
16+0 records in
16+0 records out
8192 bytes (8.0KB) copied, 0.009472 seconds, 844.6KB/s
UTP: sending Success to kernel for command $ dd if=/dev/zero of=/dev/mmcblk0
bs=512 seek=1536 count=16.
UTP: received command 'send'
UTP: sending Success to kernel for command send.
UTP: received command '$ tar xf $FILE '
UTP: executing "tar xf $FILE "
UTP: sending Success to kernel for command $ tar xf $FILE .
UTP: received command '$ sh mkcard-android.sh /dev/mmcblk0'
UTP: executing "sh mkcard-android.sh /dev/mmcblk0"
1+0 records in
1+0 records out
1024 bytes (1.0KB) copied, 0.008648 seconds, 115.6KB/s
Checking that no-one is using th mmcblk0:is disk right now ...
unknown partition table
OK

```

Disk /dev/mmcblk0: 242432 cylinders, 4 heads, 16 sectors/track

```

sfdisk: ERROR: sector 0 does not have an msdos signature
/dev/mmcblk0: unrecognized partition table type
Old situation:
No partitions found
New situation:
Units = mebibytes of 1048576 bytes, blocks of 1024 bytes, counting from 0

```

| Device | Boot | Start | End | MiB | #blocks | Id | System |
|----------------|------|-------|------|-------|----------|----|-----------|
| /dev/mmcblk0p1 | | 0+ | 6101 | 6102- | 6248447+ | b | W95 FAT32 |
| /dev/mmcblk0p2 | | 6102 | 6401 | 300 | 307200 | 83 | Linux |
| /dev/mmcblk0p3 | | 6402 | 7533 | 1132 | 1159168 | 5 | Extended |
| /dev/mmcblk0p4 | | 7534 | 7553 | 20 | 20480 | 83 | Linux |
| /dev/mmcblk0p5 | | 6402+ | 7425 | 1024- | 1048575+ | 83 | Linux |
| /dev/mmcblk0p6 | | 7426+ | 7525 | 100- | 102399+ | 83 | Linux |

```

Warning: no primary partition is marked bootable (active)
This does not matter for LILO, but the DOS MBR will not boot this disk.
Successfully wrote the new partition table

```

```

Re-reading the partition table ...
mmcblk0: p1 p2 p3 < p5 p6 > p4

```

If you created or changed a DOS partition, /dev/foo7, say, then use dd(1) to zero the first 512 bytes: dd if=/dev/zero of=/dev/foo7 bs=512 count=1 (See fdisk(8).)

```

Checking that no-one is using this disk right no mmcblk0:w ...
p1 p2 p3 < p5 p6 > p4
OK

```

Disk /dev/mmcblk0: 242432 cylinders, 4 heads, 16 sectors/track
Old situation:
Units = mebibytes of 1048576 bytes, blocks of 1024 bytes, counting from 0

| Device | Boot | Start | End | MiB | #blocks | Id | System |
|----------------|------|-------|------|-------|----------|----|-----------|
| /dev/mmcblk0p1 | | 0+ | 6101 | 6102- | 6248447+ | b | W95 FAT32 |
| /dev/mmcblk0p2 | | 6102 | 6401 | 300 | 307200 | 83 | Linux |
| /dev/mmcblk0p3 | | 6402 | 7533 | 1132 | 1159168 | 5 | Extended |
| /dev/mmcblk0p4 | | 7534 | 7553 | 20 | 20480 | 83 | Linux |
| /dev/mmcblk0p5 | | 6402+ | 7425 | 1024- | 1048575+ | 83 | Linux |
| /dev/mmcblk0p6 | | 7426+ | 7525 | 100- | 102399+ | 83 | Linux |

New situation:
Units = mebibytes of 1048576 bytes, blocks of 1024 bytes, counting from 0

| Device | Boot | Start | End | MiB | #blocks | Id | System |
|----------------|------|-------|------|-------|----------|----|-----------|
| /dev/mmcblk0p1 | | 10 | 6091 | 6082 | 6227968 | b | W95 FAT32 |
| /dev/mmcblk0p2 | | 6102 | 6401 | 300 | 307200 | 83 | Linux |
| /dev/mmcblk0p3 | | 6402 | 7533 | 1132 | 1159168 | 5 | Extended |
| /dev/mmcblk0p4 | | 7534 | 7553 | 20 | 20480 | 83 | Linux |
| /dev/mmcblk0p5 | | 6402+ | 7425 | 1024- | 1048575+ | 83 | Linux |
| /dev/mmcblk0p6 | | 7426+ | 7525 | 100- | 102399+ | 83 | Linux |

Warning: no primary partition is marked bootable (active)
This does not matter for LILO, but the DOS MBR will not boot this disk.
Successfully wrote the new partition table

Re-reading the partition table ...
mmcblk0: p1 p2 p3 < p5 p6 > p4

If you created or changed a DOS partition, /dev/foo7, say, then use dd(1) to zero the first 512 bytes: dd if=/dev/zero of=/dev/foo7 bs=512 count=1 (See fdisk(8).)

```
UTP: sending Success to kernel for command $ sh mksdcard-android.sh
/dev/mmcblk0.
UTP: received command '$ mknod /dev/mmcblk0p1 b 179 1'
UTP: executing "mknod /dev/mmcblk0p1 b 179 1"
UTP: sending Success to kernel for command $ mknod /dev/mmcblk0p1 b 179 1.
UTP: received command '$ mknod /dev/mmcblk0p2 b 179 2'
UTP: executing "mknod /dev/mmcblk0p2 b 179 2"
UTP: sending Success to kernel for command $ mknod /dev/mmcblk0p2 b 179 2.
UTP: received command '$ mknod /dev/mmcblk0p3 b 179 3'
UTP: executing "mknod /dev/mmcblk0p3 b 179 3"
UTP: sending Success to kernel for command $ mknod /dev/mmcblk0p3 b 179 3.
UTP: received command '$ mknod /dev/mmcblk0p4 b 179 4'
UTP: executing "mknod /dev/mmcblk0p4 b 179 4"
UTP: sending Success to kernel for command $ mknod /dev/mmcblk0p4 b 179 4.
UTP: received command '$ mknod /dev/mmcblk0p5 b 179 5'
UTP: executing "mknod /dev/mmcblk0p5 b 179 5"
UTP: sending Success to kernel for command $ mknod /dev/mmcblk0p5 b 179 5.
UTP: received command '$ mknod /dev/mmcblk0p6 b 179 6'
UTP: executing "mknod /dev/mmcblk0p6 b 179 6"
UTP: sending Success to kernel for command $ mknod /dev/mmcblk0p6 b 179 6.
UTP: received command '$ echo 1 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_config'
UTP: executing "echo 1 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_config"
UTP: sending Success to kernel for command $ echo 1 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_config.
UTP: received command 'send'
UTP: sending Success to kernel for command send.
UTP: received command '$ dd if=/dev/zero of=/dev/mmcblk0 bs=512 seek=2
count=2000'
UTP: executing "dd if=/dev/zero of=/dev/mmcblk0 bs=512 seek=2 count=2000"
```

```
2000+0 records in
2000+0 records out
1024000 bytes (1000.0KB) copied, 0.305186 seconds, 3.2MB/s
UTP: sending Success to kernel for command $ dd if=/dev/zero of=/dev/mmcblk0
bs=512 seek=2 count=2000.
UTP: received command '$ dd if=$FILE of=/dev/mmcblk0 bs=512 seek=2 skip=2'
UTP: executing "dd if=$FILE of=/dev/mmcblk0 bs=512 seek=2 skip=2"
368+1 records in
368+1 records out
188432 bytes (184.0KB) copied, 0.061892 seconds, 2.9MB/s
UTP: sending Success to kernel for command $ dd if=$FILE of=/dev/mmcblk0 bs=512
seek=2 skip=2.
UTP: received command '$ echo 8 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_config'
UTP: executing "echo 8 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_config"
UTP: sending Success to kernel for command $ echo 8 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_config.
UTP: received command '$ echo 2 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_bus_config'
UTP: executing "echo 2 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_bus_config"
UTP: sending Success to kernel for command $ echo 2 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_bus_config.
UTP: received command 'send'
UTP: sending Success to kernel for command send.
g_file_storage gadget: high speed config #1
UTP: received command '$ dd if=$FILE of=/dev/mmcblk0 bs=512 seek=2048'
UTP: executing "dd if=$FILE of=/dev/mmcblk0 bs=512 seek=2048"
6503+1 records in
6503+1 records out
3329628 bytes (3.2MB) copied, 1.047000 seconds, 3.0MB/s
UTP: sending Success to kernel for command $ dd if=$FILE of=/dev/mmcblk0 bs=512
seek=2048.
UTP: received command 'send'
UTP: sending Success to kernel for command send.
UTP: received command '$ dd if=$FILE of=/dev/mmcblk0 bs=6M seek=1'
UTP: executing "dd if=$FILE of=/dev/mmcblk0 bs=6M seek=1"
0+1 records in
0+1 records out
182492 bytes (178.2KB) copied, 0.030266 seconds, 5.8MB/s
UTP: sending Success to kernel for command $ dd if=$FILE of=/dev/mmcblk0 bs=6M
seek=1.
UTP: received command '$ echo Update Complete!'
UTP: executing "echo Update Complete!"
Update Complete!
UTP: sending Success to kernel for command $ echo Update Complete!.
g_file_storage gadget: high speed config #1
feed_watchdog
```

U-Boot 2009.08-00228-g992719e (Jan 11 2011 - 10:18:59)

```
CPU: Freescale i.MX53 family 2.0V at 1000 MHz
mx53 pll1: 1000MHz
mx53 pll2: 400MHz
mx53 pll3: 216MHz
mx53 pll4: 455MHz
ipg clock      : 66666666Hz
ipg per clock  : 33333333Hz
uart clock     : 21600000Hz
cspi clock     : 54000000Hz
```

ahb clock : 133333333Hz
axi_a clock : 400000000Hz
axi_b clock : 200000000Hz
emi_slow clock: 133333333Hz
ddr clock : 400000000Hz
esdhc1 clock : 800000000Hz
esdhc2 clock : 800000000Hz
esdhc3 clock : 800000000Hz
esdhc4 clock : 800000000Hz
nfc clock : 266666666Hz
Board: MX53-SMD 1.0
Boot Reason: [POR]
Boot Device: NOR
I2C: ready
DRAM: 1 GB
MMC: FSL_ESDHC: 0, FSL_ESDHC: 1
Using default environment

In: serial
Out: serial
Err: serial
Net: got MAC address from IIM: 00:04:9f:01:ef:2d
FEC0

Hit any key to stop autoboot: 0

Booting kernel from Legacy Image at 70800000 ...
Image Name: Linux-2.6.35.3-00676-g952b0dd
Image Type: ARM Linux Kernel Image (uncompressed)
Data Size: 1747936 Bytes = 1.7 MB
Load Address: 70008000
Entry Point: 70008000
Verifying Checksum ... OK

Loading init Ramdisk from Legacy Image at 70b00000 ...
Image Name: uboot initramfs rootfs
Image Type: ARM Linux RAMDisk Image (gzip compressed)
Data Size: 4189205 Bytes = 4 MB
Load Address: 00000000
Entry Point: 00000000
Verifying Checksum ... OK
Loading Kernel Image ... OK

OK

Starting kernel ...

Linux version 2.6.35.3-00676-g952b0dd (r58066@shlinux1) (gcc version 4.4.4 (4.4.4_09.06.2010)) #109 PREEMPT Tue Jan 11 21:52:15 CST 2011
CPU: ARMv7 Processor [412fc085] revision 5 (ARMv7), cr=10c53c7f
CPU: VIPT nonaliasing data cache, VIPT nonaliasing instruction cache
Machine: Freescale MX53 SMD Board
Memory policy: ECC disabled, Data cache writeback
Built 1 zonelists in Zone order, mobility grouping on. Total pages: 218112
Kernel command line: console=ttymxc0,115200 rdinit=/linuxrc
PID hash table entries: 4096 (order: 2, 16384 bytes)
Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
Memory: 352MB 512MB = 864MB total
Memory: 869208k/869208k available, 15528k reserved, 0K highmem
Virtual kernel memory layout:
vector : 0xfffff0000 - 0xfffff1000 (4 kB)
fixmap : 0xffff00000 - 0xffffe0000 (896 kB)
DMA : 0xf9e000000 - 0xffe000000 (96 MB)
vmalloc : 0xe08000000 - 0xf40000000 (312 MB)
lowmem : 0x800000000 - 0xe00000000 (1536 MB)

```
pkmap      : 0x7fe00000 - 0x80000000   (  2 MB)
modules    : 0x7f000000 - 0x7fe00000   ( 14 MB)
 .init     : 0x80008000 - 0x8002f000   ( 156 kB)
 .text     : 0x8002f000 - 0x80349000   (3176 kB)
 .data     : 0x8034a000 - 0x80385600   ( 238 kB)
SLUB: Genslabs=11, HWalign=32, Order=0-3, MinObjects=0, CPUs=1, Nodes=1
Hierarchical RCU implementation.
  RCU-based detection of stalled CPUs is disabled.
  Verbose stalled-CPU detection is disabled.
NR_IRQS:368
MXC GPIO hardware
MXC IRQ initialized
MXC_Early serial console at MMIO 0x53fbc000 (options '115200')
bootconsole [ttymx0] enabled
Console: colour dummy device 80x30
Calibrating delay loop... 665.19 BogoMIPS (lpj=3325952)
pid_max: default: 32768 minimum: 301
Mount-cache hash table entries: 512
CPU: Testing write buffer coherency: ok
regulator: core version 0.5
i.MX IRAM pool: 128 KB@0xe0840000
IRAM READY
CPU is i.MX53 Revision 2.0
Using SDMA I.API
MXC DMA API initialized
IMX usb wakeup probe
IMX usb wakeup probe
bio: create slab <bio-0> at 0
SCSI subsystem initialized
CSPI: mxc_spi-0 probed
da9052_i2c_is_connected - i2c read success.....
smd_da9052_init ret=0
regulator: DA9052_LD01: 600 <--> 1800 mV at 1300 mV normal
regulator: DA9052_LD02: 600 <--> 1800 mV at 1300 mV normal
regulator: DA9052_LD03: 1725 <--> 3300 mV at 3300 mV normal
regulator: DA9052_LD04: 1725 <--> 3300 mV at 2775 mV normal
regulator: DA9052_LD05: 1200 <--> 3600 mV at 1300 mV normal
regulator: DA9052_LD06: 1200 <--> 3600 mV at 1300 mV normal
regulator: DA9052_LD07: 1200 <--> 3600 mV at 2750 mV normal
regulator: DA9052_LD08: 1200 <--> 3600 mV at 1800 mV normal
regulator: DA9052_LD09: 1250 <--> 3650 mV at 1500 mV normal
regulator: DA9052_LD010: 1200 <--> 3600 mV at 1300 mV normal
regulator: DA9052_BUCK_CORE: 500 <--> 2075 mV at 1250 mV normal
regulator: DA9052_BUCK_PRO: 500 <--> 2075 mV at 1300 mV normal
regulator: DA9052_BUCK_MEM: 925 <--> 2500 mV at 1500 mV normal
regulator: DA9052_BUCK_PERI: 1800 <--> 3600 mV at 3600 mV normal
IPU DMFC NORMAL mode: 1(0~1), 5B(4,5), 5F(6,7)
Switching to clocksource mxc_timer1
Unpacking initramfs...
Freeing initrd memory: 4088K
LPMode driver module loaded
Static Power Management for Freescale i.MX5
PM driver module loaded
sdram autogating driver module loaded
Bus freq driver module loaded
DI0 is primary
mxc_dvfs_core_probe
DVFS driver module loaded
i.MXC CPU frequency driver
DVFS PER driver module loaded
JFFS2 version 2.2. (NAND) © 2001-2006 Red Hat, Inc.
msgmni has been set to 1705
```


io scheduler noop registered
io scheduler deadline registered
io scheduler cfq registered (default)
mxc_ipu mxc_ipu: Channel already disabled 9
mxc_ipu mxc_ipu: Channel already uninitialized 9
Console: switching to colour frame buffer device 100x30
fbcv: 1024x768@60: CVT Name - .786M3
Serial: MXC Internal UART driver
mxcintuart.0: ttymx0 at MMIO 0x53fbc000 (irq = 31) is a Freescale i.MX
console [ttymx0] enabled, bootconsole disabled
console [ttymx0] enabled, bootconsole disabled
mxcintuart.1: ttymx1 at MMIO 0x53fc0000 (irq = 32) is a Freescale i.MX
mxcintuart.2: ttymx2 at MMIO 0x5000c000 (irq = 33) is a Freescale i.MX
mxcintuart.3: ttymx3 at MMIO 0x53ff0000 (irq = 13) is a Freescale i.MX
mxcintuart.4: ttymx4 at MMIO 0x63f90000 (irq = 86) is a Freescale i.MX
loop: module loaded
ahci: SSS flag set, parallel bus scan disabled
ahci ahci.0: AHCI 0001.0100 32 slots 1 ports 3 Gbps 0x1 impl platform mode
ahci ahci.0: flags: ncq sntf stag pm led clo only pmp pio slum part ccc
scsi0 : ahci
atal: SATA max UDMA/133 irq_stat 0x00000040, connection status changed irq 28
MXC MTD nand Driver 3.0
i.MX GPMI NFC
ARC USBOTG Device Controller driver (1 August 2005)
check_parameters:UTP settings are in place now, overriding defaults
g_file_storage gadget: File-backed Storage Gadget, version: 20 November 2008
g_file_storage gadget: Number of LUNs=1
fsl-usb2-udc: bind to driver g_file_storage
mice: PS/2 mouse device common for all mice
MXC keypad loaded
i2c /dev entries driver
IR NEC protocol handler initialized
IR RC5(x) protocol handler initialized
IR RC6 protocol handler initialized
IR JVC protocol handler initialized
IR Sony protocol handler initialized
Linux video capture interface: v2.00
mxc_v4l2_output mxc_v4l2_output.0: Registered device video1
APM Battery Driver
MXC WatchDog Driver 2.0
MXC Watchdog # 0 Timer: initial timeout 60 sec
Freescale: Register to MMC/SDIO driver
Error: fs_unifi_init failed!
mxsdhci: MXC Secure Digital Host Controller Interface driver
mxsdhci: MXC SDHCI Controller Driver.
mmc0: SDHCI detect irq 205 irq 1 INTERNAL DMA
mxsdhci: MXC SDHCI Controller Driver.
mmc1: SDHCI detect irq 0 irq 2 INTERNAL DMA
mxsdhci: MXC SDHCI Controller Driver.
mmc2: SDHCI detect irq 0 irq 3 INTERNAL DMA
VFP support v0.3: implementor 41 architecture 3 part 30 variant c rev 2
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_MEM on
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_PRO on
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_CORE on
regulator_init_complete: incomplete constraints, leaving DA9052_LD010 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD09 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD08 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD07 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD06 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD04 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD03 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD02 on

```
regulator_init_complete: incomplete constraints, leaving DA9052_LD01 on
drivers/rtc/hctosys.c: unable to open rtc device (rtc0)
atal: SATA link up 1.5 Gbps (SStatus 113 SControl 300)
atal.00: ATA-8: SanDisk SSD P4 8GB, SSD 8.13, max UDMA/133
atal.00: 15649200 sectors, multi 1: LBA48
atal.00: configured for UDMA/133
g_file_storage gadget: high speed config #1
scsi 0:0:0:0: Direct-Access ATA SanDisk SSD P4 8 SSD PQ: 0 ANSI: 5
sd 0:0:0:0: [sda] 15649200 512-byte logical blocks: (8.01 GB/7.46 GiB)
sd 0:0:0:0: [sda] Write Protect is off
sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO
or FUA
sda: unknown partition table
sd 0:0:0:0: [sda] Attached SCSI disk
Freeing init memory: 156K
mmc2: new high speed MMC card at address 0001
mmcblk0: mmc2:0001 SEM08G 7.39 GiB
mmcblk0:Starting UTP
p1 p2 p3 < p5 p6 > p4
^@ln: /etc/mtab: File exists
disable turn off display
uuc 0.4 [built Sep 27 2011 16:42:47]
UTP: Waiting for device to appear
utp_mk_devnode: creating node '/dev/utp' with 10+222
cpu_id is 53
utp_mk_devnode: creating node '/dev/watchdog' with 10+130
feed_watchdog
UTP: received command 'mknod block,mmcblk0,/dev/mmcblk0,block'
class = 'block'
item = 'mmcblk0'
node = /dev/mmcblk0
type = block
UTP: running utp_mk_devnode(block,mmcblk0,/dev/mmcblk0,0x6000)
utp_mk_devnode: creating node '/dev/mmcblk0' with 179+0
UTP: sending Success to kernel for command mknod block.
UTP: received command '$ mknod /dev/zero c 1 5'
UTP: executing "mknod /dev/zero c 1 5"
UTP: sending Success to kernel for command $ mknod /dev/zero c 1 5.
UTP: received command '$ dd if=/dev/zero of=/dev/mmcblk0 bs=512 seek=1536
count=16'
UTP: executing "dd if=/dev/zero of=/dev/mmcblk0 bs=512 seek=1536 count=16"
16+0 records in
16+0 records out
8192 bytes (8.0KB) copied, 0.008630 seconds, 927.0KB/s
UTP: sending Success to kernel for command $ dd if=/dev/zero of=/dev/mmcblk0
bs=512 seek=1536 count=16.
UTP: received command 'send'
UTP: sending Success to kernel for command send.
UTP: received command '$ tar xf $FILE '
UTP: executing "tar xf $FILE "
UTP: sending Success to kernel for command $ tar xf $FILE .
UTP: received command '$ sh mkcard-android.sh /dev/mmcblk0'
UTP: executing "sh mkcard-android.sh /dev/mmcblk0"
1+0 records in
1+0 records out
1024 bytes (1.0KB) copied, 0.006731 seconds, 148.6KB/s
Checking that no-one is using th mmcblk0:is disk right now ...
unknown partition table
OK
```

```
Disk /dev/mmcblk0: 242432 cylinders, 4 heads, 16 sectors/track
```

```
sfdisk: ERROR: sector 0 does not have an msdos signature
/dev/mmcblk0: unrecognized partition table type
Old situation:
No partitions found
New situation:
Units = mebibytes of 1048576 bytes, blocks of 1024 bytes, counting from 0
```

| Device | Boot | Start | End | MiB | #blocks | Id | System |
|----------------|------|-------|------|-------|----------|----|-----------|
| /dev/mmcblk0p1 | | 0+ | 6101 | 6102- | 6248447+ | b | W95 FAT32 |
| /dev/mmcblk0p2 | | 6102 | 6401 | 300 | 307200 | 83 | Linux |
| /dev/mmcblk0p3 | | 6402 | 7533 | 1132 | 1159168 | 5 | Extended |
| /dev/mmcblk0p4 | | 7534 | 7553 | 20 | 20480 | 83 | Linux |
| /dev/mmcblk0p5 | | 6402+ | 7425 | 1024- | 1048575+ | 83 | Linux |
| /dev/mmcblk0p6 | | 7426+ | 7525 | 100- | 102399+ | 83 | Linux |

```
Warning: no primary partition is marked bootable (active)
This does not matter for LILO, but the DOS MBR will not boot this disk.
Successfully wrote the new partition table
```

```
Re-reading the partition table ...
mmcblk0: p1 p2 p3 < p5 p6 > p4
```

```
If you created or changed a DOS partition, /dev/foo7, say, then use dd(1)
to zero the first 512 bytes: dd if=/dev/zero of=/dev/foo7 bs=512 count=1
(See fdisk(8).)
Checking that no-one is using this disk right no mmcblk0:w ...
p1 p2 p3 < p5 p6 > p4
OK
```

```
Disk /dev/mmcblk0: 242432 cylinders, 4 heads, 16 sectors/track
Old situation:
Units = mebibytes of 1048576 bytes, blocks of 1024 bytes, counting from 0
```

| Device | Boot | Start | End | MiB | #blocks | Id | System |
|----------------|------|-------|------|-------|----------|----|-----------|
| /dev/mmcblk0p1 | | 0+ | 6101 | 6102- | 6248447+ | b | W95 FAT32 |
| /dev/mmcblk0p2 | | 6102 | 6401 | 300 | 307200 | 83 | Linux |
| /dev/mmcblk0p3 | | 6402 | 7533 | 1132 | 1159168 | 5 | Extended |
| /dev/mmcblk0p4 | | 7534 | 7553 | 20 | 20480 | 83 | Linux |
| /dev/mmcblk0p5 | | 6402+ | 7425 | 1024- | 1048575+ | 83 | Linux |
| /dev/mmcblk0p6 | | 7426+ | 7525 | 100- | 102399+ | 83 | Linux |

```
New situation:
Units = mebibytes of 1048576 bytes, blocks of 1024 bytes, counting from 0
```

| Device | Boot | Start | End | MiB | #blocks | Id | System |
|----------------|------|-------|------|-------|----------|----|-----------|
| /dev/mmcblk0p1 | | 10 | 6091 | 6082 | 6227968 | b | W95 FAT32 |
| /dev/mmcblk0p2 | | 6102 | 6401 | 300 | 307200 | 83 | Linux |
| /dev/mmcblk0p3 | | 6402 | 7533 | 1132 | 1159168 | 5 | Extended |
| /dev/mmcblk0p4 | | 7534 | 7553 | 20 | 20480 | 83 | Linux |
| /dev/mmcblk0p5 | | 6402+ | 7425 | 1024- | 1048575+ | 83 | Linux |
| /dev/mmcblk0p6 | | 7426+ | 7525 | 100- | 102399+ | 83 | Linux |

```
Warning: no primary partition is marked bootable (active)
This does not matter for LILO, but the DOS MBR will not boot this disk.
Successfully wrote the new partition table
```

```
Re-reading the partition table ...
mmcblk0: p1 p2 p3 < p5 p6 > p4
```

```
If you created or changed a DOS partition, /dev/foo7, say, then use dd(1)
to zero the first 512 bytes: dd if=/dev/zero of=/dev/foo7 bs=512 count=1
(See fdisk(8).)
UTP: sending Success to kernel for command $ sh mkcard-android.sh
/dev/mmcblk0.
UTP: received command '$ mknod /dev/mmcblk0p1 b 179 1'
```

```
UTP: executing "mknod /dev/mmcblk0p1 b 179 1"
UTP: sending Success to kernel for command $ mknod /dev/mmcblk0p1 b 179 1.
UTP: received command '$ mknod /dev/mmcblk0p2 b 179 2'
UTP: executing "mknod /dev/mmcblk0p2 b 179 2"
UTP: sending Success to kernel for command $ mknod /dev/mmcblk0p2 b 179 2.
UTP: received command '$ mknod /dev/mmcblk0p3 b 179 3'
UTP: executing "mknod /dev/mmcblk0p3 b 179 3"
UTP: sending Success to kernel for command $ mknod /dev/mmcblk0p3 b 179 3.
UTP: received command '$ mknod /dev/mmcblk0p4 b 179 4'
UTP: executing "mknod /dev/mmcblk0p4 b 179 4"
UTP: sending Success to kernel for command $ mknod /dev/mmcblk0p4 b 179 4.
UTP: received command '$ mknod /dev/mmcblk0p5 b 179 5'
UTP: executing "mknod /dev/mmcblk0p5 b 179 5"
UTP: sending Success to kernel for command $ mknod /dev/mmcblk0p5 b 179 5.
UTP: received command '$ mknod /dev/mmcblk0p6 b 179 6'
UTP: executing "mknod /dev/mmcblk0p6 b 179 6"
UTP: sending Success to kernel for command $ mknod /dev/mmcblk0p6 b 179 6.
UTP: received command '$ echo 1 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_config'
UTP: executing "echo 1 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_config"
UTP: sending Success to kernel for command $ echo 1 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_config.
UTP: received command 'send'
UTP: sending Success to kernel for command send.
UTP: received command '$ dd if=/dev/zero of=/dev/mmcblk0 bs=512 seek=2
count=2000'
UTP: executing "dd if=/dev/zero of=/dev/mmcblk0 bs=512 seek=2 count=2000"
2000+0 records in
2000+0 records out
1024000 bytes (1000.0KB) copied, 0.315396 seconds, 3.1MB/s
UTP: sending Success to kernel for command $ dd if=/dev/zero of=/dev/mmcblk0
bs=512 seek=2 count=2000.
UTP: received command '$ dd if=$FILE of=/dev/mmcblk0 bs=512 seek=2 skip=2'
UTP: executing "dd if=$FILE of=/dev/mmcblk0 bs=512 seek=2 skip=2"
368+1 records in
368+1 records out
188432 bytes (184.0KB) copied, 0.061303 seconds, 2.9MB/s
UTP: sending Success to kernel for command $ dd if=$FILE of=/dev/mmcblk0 bs=512
seek=2 skip=2.
UTP: received command '$ echo 8 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_config'
UTP: executing "echo 8 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_config"
UTP: sending Success to kernel for command $ echo 8 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_config.
UTP: received command '$ echo 2 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_bus_config'
UTP: executing "echo 2 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_bus_config"
UTP: sending Success to kernel for command $ echo 2 >
/sys/devices/platform/mxsdhci.2/mmc_host/mmc2/mmc2:0001/boot_bus_config.
UTP: received command 'send'
UTP: sending Success to kernel for command send.
UTP: received command '$ dd if=$FILE of=/dev/mmcblk0 bs=512 seek=2048'
UTP: executing "dd if=$FILE of=/dev/mmcblk0 bs=512 seek=2048"
6503+1 records in
6503+1 records out
3329628 bytes (3.2MB) copied, 0.962065 seconds, 3.3MB/s
UTP: sending Success to kernel for command $ dd if=$FILE of=/dev/mmcblk0 bs=512
seek=2048.
UTP: received command 'send'
```

UTP: sending Success to kernel for command send.
UTP: received command '\$ dd if=\$FILE of=/dev/mmcblk0 bs=6M seek=1'
UTP: executing "dd if=\$FILE of=/dev/mmcblk0 bs=6M seek=1"
0+1 records in
0+1 records out
182492 bytes (178.2KB) copied, 0.031508 seconds, 5.5MB/s
UTP: sending Success to kernel for command \$ dd if=\$FILE of=/dev/mmcblk0 bs=6M seek=1.
UTP: received command '\$ mkfs.vfat /dev/mmcblk0p1'
UTP: executing "mkfs.vfat /dev/mmcblk0p1"
mkfs.vfat 3.0.11 (24 Dec 2010)
UTP: sending Success to kernel for command \$ mkfs.vfat /dev/mmcblk0p1.
UTP: received command '\$ mkfs.ext4 -L system /dev/mmcblk0p2'
UTP: executing "mkfs.ext4 -L system /dev/mmcblk0p2"
mke2fs 1.41.4 (27-Jan-2009)
Filesystem label=system
OS type: Linux
Block size=1024 (log=0)
Fragment size=1024 (log=0)
76912 inodes, 307200 blocks
15360 blocks (5.00%) reserved for the super user
First data block=1
Maximum filesystem blocks=67633152
38 block groups
8192 blocks per group, 8192 fragments per group
2024 inodes per group
Superblock backups stored on blocks:
8193, 24577, 40961, 57345, 73729, 204801, 221185

Writing inode tables: done
Creating journal (8192 blocks): done
Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 26 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.
UTP: sending Success to kernel for command \$ mkfs.ext4 -L system /dev/mmcblk0p2.
UTP: received command '\$ mkfs.ext4 -L recovery -O^extent /dev/mmcblk0p4'
UTP: executing "mkfs.ext4 -L recovery -O^extent /dev/mmcblk0p4"
mke2fs 1.41.4 (27-Jan-2009)
Filesystem label=recovery
OS type: Linux
Block size=1024 (log=0)
Fragment size=1024 (log=0)
5136 inodes, 20480 blocks
1024 blocks (5.00%) reserved for the super user
First data block=1
Maximum filesystem blocks=20971520
3 block groups
8192 blocks per group, 8192 fragments per group
1712 inodes per group
Superblock backups stored on blocks:
8193

Writing inode tables: done
Creating journal (1024 blocks): done
Writing superblocks and filesystem accounting information: done

This filesystem will be automatically checked every 33 mounts or 180 days, whichever comes first. Use tune2fs -c or -i to override.
UTP: sending Success to kernel for command \$ mkfs.ext4 -L recovery -O^extent /dev/mmcblk0p4.
UTP: received command '\$ mkfs.ext4 -L data /dev/mmcblk0p5'


```
UTP: executing "echo Update Complete!"
Update Complete!
UTP: sending Success to kernel for command $ echo Update Complete!.
g_file_storage gadget: high speed config #1
feed_watchdog
```

U-Boot 2009.08-00339-g1951501 (Mar 30 2012 - 10:38:54)

```
CPU: Freescale i.MX53 family 2.1V at 800 MHz
mx53 pll1: 800MHz
mx53 pll2: 400MHz
mx53 pll3: 216MHz
mx53 pll4: 455MHz
ipg clock      : 66666666Hz
ipg per clock  : 33333333Hz
uart clock     : 66666666Hz
cspi clock     : 54000000Hz
ahb clock      : 133333333Hz
axi_a clock    : 400000000Hz
axi_b clock    : 200000000Hz
emi_slow clock: 133333333Hz
ddr clock      : 400000000Hz
esdhc1 clock   : 80000000Hz
esdhc2 clock   : 80000000Hz
esdhc3 clock   : 80000000Hz
esdhc4 clock   : 80000000Hz
nfc clock      : 26666666Hz
Board: MX53-SMD Rev. B
Boot Reason: [POR]
Boot Device: MMC
I2C: ready
DRAM: 512 MB
MMC: FSL_ESDHC: 0, FSL_ESDHC: 1
*** Warning - bad CRC or MMC, using default environment
```

```
In: serial
Out: serial
Err: serial
da9052_i2c_is_connected - i2c write success....
Serial reinitialized!
Checking for recovery command file...
Card did not respond to voltage select!
** Bad partition 6 **
Net: got MAC address from IIM: 00:04:9f:01:ef:2d
FEC0 [PRIME]
Warning: FEC0 MAC addresses don't match:
Address in SROM is      00:04:9f:01:ef:2d
Address in environment is 00:04:9f:00:ea:d3
```

Hit any key to stop autoboot: 0

```
MMC read: dev # 1, block # 2048, count 8192 partition # 0 ...
8192 blocks read: OK
```

```
MMC read: dev # 1, block # 12288, count 768 partition # 0 ...
768 blocks read: OK
```

```
## Booting kernel from Legacy Image at 70800000 ...
Image Name: Linux-2.6.35.3-01265-g8f56f17
Image Type: ARM Linux Kernel Image (uncompressed)
Data Size: 3329564 Bytes = 3.2 MB
Load Address: 70008000
```



```
Entry Point: 70008000
Verifying Checksum ... OK
## Loading init Ramdisk from Legacy Image at 70d00000 ...
Image Name: Android Root Filesystem
Image Type: ARM Linux RAMDisk Image (uncompressed)
Data Size: 182428 Bytes = 178.2 kB
Load Address: 70308000
Entry Point: 70308000
Verifying Checksum ... OK
Loading Kernel Image ... OK
OK
```

Starting kernel ...

```
Initializing cgroup subsys cpu
Linux version 2.6.35.3-01265-g8f56f17 (b18293@madspeed) (gcc version 4.4.3 (GCC)
) #6 PREEMPT Fri Mar 30 14:05:53 CST 2012
CPU: ARMv7 Processor [412fc085] revision 5 (ARMv7), cr=10c53c7f
CPU: VIPT nonaliasing data cache, VIPT nonaliasing instruction cache
Machine: Freescale MX53 SMD Board
Memory policy: ECC disabled, Data cache writeback
Built 1 zonelists in Zone order, mobility grouping on. Total pages: 81534
Kernel command line: console=ttyMXC0 init=/init androidboot.console=ttyMXC0
video=mxcdilfb:RGB666,XGA ldb=dil dil_primary pmem=32M,64M fbmem=5M
gpu_memory=64M
PID hash table entries: 2048 (order: 1, 8192 bytes)
Dentry cache hash table entries: 65536 (order: 6, 262144 bytes)
Inode-cache hash table entries: 32768 (order: 5, 131072 bytes)
allocated 1643520 bytes of page_cgroup
please try 'cgroup_disable=memory' option if you don't want memory cgroups
Memory: 321MB = 321MB total
Memory: 313832k/313832k available, 14872k reserved, 0K highmem
Virtual kernel memory layout:
   vector : 0xffff0000 - 0xffff1000   ( 4 kB)
   fixmap : 0xffff0000 - 0xffffe000   ( 896 kB)
   DMA    : 0xfde00000 - 0xffe00000   ( 32 MB)
   vmalloc : 0xd4800000 - 0xf4000000   ( 504 MB)
   lowmem : 0xc0000000 - 0xd4100000   ( 321 MB)
   pkmap  : 0xbfe00000 - 0xc0000000   ( 2 MB)
   modules : 0xbf000000 - 0xbfe00000   ( 14 MB)
   .init  : 0xc0008000 - 0xc0039000   ( 196 kB)
   .text  : 0xc0039000 - 0xc0895000   (8560 kB)
   .data  : 0xc08b6000 - 0xc091ce00   ( 420 kB)
SLUB: Genslabs=11, HWalign=32, Order=0-3, MinObjects=0, CPUs=1, Nodes=1
Hierarchical RCU implementation.
   RCU-based detection of stalled CPUs is disabled.
   Verbose stalled-CPU detection is disabled.
NR_IRQS:368
MXC GPIO hardware
MXC IRQ initialized
MXC Early serial console at MMIO 0x53fbc000 (options '115200')
bootconsole [ttyMXC0] enabled
Console: colour dummy device 80x30
Calibrating delay loop... 999.42 BogoMIPS (lpj=4997120)
pid_max: default: 32768 minimum: 301
Security Framework initialized
Mount-cache hash table entries: 512
Initializing cgroup subsys debug
Initializing cgroup subsys ns
Initializing cgroup subsys cpucct
Initializing cgroup subsys memory
Initializing cgroup subsys devices
```

```
Initializing cgroup subsys freezer
Initializing cgroup subsys blkio
CPU: Testing write buffer coherency: ok
regulator: core version 0.5
NET: Registered protocol family 16
i.MX IRAM pool: 128 KB@0xd4840000
IRAM READY
CPU is i.MX53 Revision 2.1
Using SDMA I.API
MXC DMA API initialized
IMX usb wakeup probe
IMX usb wakeup probe
bio: create slab <bio-0> at 0
SCSI subsystem initialized
CSPI: mxc_spi-0 probed
Freescale USB OTG Driver loaded, $Revision: 1.55 $
usbcore: registered new interface driver usbfs
usbcore: registered new interface driver hub
usbcore: registered new device driver usb
da9052_i2c_is_connected - i2c read success....
reg-fixed-voltage reg-fixed-voltage.0: Could not obtain regulator enable GPIO
74: -16
reg-fixed-voltage: probe of reg-fixed-voltage.0 failed with error -16
regulator: DA9052_LD01: 600 <--> 1800 mV at 1300 mV normal
regulator: DA9052_LD02: 600 <--> 1800 mV at 1300 mV normal
regulator: DA9052_LD03: 1725 <--> 3300 mV at 3300 mV normal
regulator: DA9052_LD04: 1725 <--> 3300 mV at 2775 mV normal
regulator: DA9052_LD05: 1200 <--> 3600 mV at 1300 mV normal
regulator: DA9052_LD06: 1200 <--> 3600 mV at 1300 mV normal
regulator: DA9052_LD07: 1200 <--> 3600 mV at 2750 mV normal
regulator: DA9052_LD08: 1200 <--> 3600 mV at 1800 mV normal
regulator: DA9052_LD09: 1250 <--> 3650 mV at 1500 mV normal
regulator: DA9052_LD010: 1200 <--> 3600 mV at 1300 mV normal
regulator: DA9052_BUCK_CORE: 500 <--> 2075 mV at 1250 mV normal
regulator: DA9052_BUCK_PRO: 500 <--> 2075 mV at 1300 mV normal
regulator: DA9052_BUCK_MEM: 925 <--> 2500 mV at 1500 mV normal
regulator: DA9052_BUCK_PERI: 1800 <--> 3600 mV at 3600 mV normal
DA9053 chip ID reg read=0xa3
BB version probed
IPU DMFC NORMAL mode: 1(0~1), 5B(4,5), 5F(6,7)
Advanced Linux Sound Architecture Driver Version 1.0.23.
Bluetooth: Core ver 2.15
NET: Registered protocol family 31
Bluetooth: HCI device and connection manager initialized
Bluetooth: HCI socket layer initialized
Switching to clocksource mxc_timer1
NET: Registered protocol family 2
IP route cache hash table entries: 4096 (order: 2, 16384 bytes)
TCP established hash table entries: 16384 (order: 5, 131072 bytes)
TCP bind hash table entries: 16384 (order: 4, 65536 bytes)
TCP: Hash tables configured (established 16384 bind 16384)
TCP reno registered
UDP hash table entries: 256 (order: 0, 4096 bytes)
UDP-Lite hash table entries: 256 (order: 0, 4096 bytes)
NET: Registered protocol family 1
RPC: Registered udp transport module.
RPC: Registered tcp transport module.
RPC: Registered tcp NFSv4.1 backchannel transport module.
Unpacking initramfs...
Freeing initrd memory: 176K
LPMode driver module loaded
Static Power Management for Freescale i.MX5
```

PM driver module loaded
sdram autogating driver module loaded
Bus freq driver module loaded
Dil is primary
mxc_bt_rfkill driver success loaded
rfkill: BT RF going to : on
mxc_dvfs_core_probe
DVFS driver module loaded
i.MXC CPU frequency driver
DVFS PER driver module loaded
ashmem: initialized
msgmni has been set to 613
alg: No test for stdrng (krng)
cryptodev: driver loaded.
io scheduler noop registered
io scheduler deadline registered
io scheduler cfq registered (default)
By setting, TVE driver will not be enabled
sii902x 2-0039: found device 9022
sii902x 2-0039: Can not read edid
regulator: get() with no identifier
mxc_ldb mxc_ldb: default dil single mode
mxc_ipu mxc_ipu: Channel already disabled 9
mxc_ipu mxc_ipu: Channel already uninitialized 9
IPU DMFC DP HIGH RESOLUTION: 1(0,1), 5B(2~5), 5F(6,7)
fbcvt: 1024x768@60: CVT Name - .786M3
mxc_ipu mxc_ipu: Channel already disabled 7
mxc_ipu mxc_ipu: Channel already uninitialized 7
mxc_ipu mxc_ipu: Channel already disabled 10
mxc_ipu mxc_ipu: Channel already uninitialized 10
Serial: MXC Internal UART driver
mxcintuart.0: ttyxc0 at MMIO 0x53fbc000 (irq = 31) is a Freescale i.MX
console [ttyxc0] enabled, bootconsole disabled
console [ttyxc0] enabled, bootconsole disabled
mxcintuart.1: ttyxc1 at MMIO 0x53fc0000 (irq = 32) is a Freescale i.MX
mxcintuart.2: ttyxc2 at MMIO 0x5000c000 (irq = 33) is a Freescale i.MX
mxcintuart.3: ttyxc3 at MMIO 0x53ff0000 (irq = 13) is a Freescale i.MX
mxcintuart.4: ttyxc4 at MMIO 0x63f90000 (irq = 86) is a Freescale i.MX
loop: module loaded
pmem_adsp: 1 init
pmem_gpu: 1 init
MXC MTD nand Driver 3.0
i.MX GPMI NFC
vcan: Virtual CAN interface driver
Freescale FlexCAN Driver
FEC Ethernet Driver
fec_enet_mii_bus: probed
PPP generic driver version 2.4.2
PPP Deflate Compression module registered
PPP BSD Compression module registered
PPP MPPE Compression module registered
NET: Registered protocol family 24
tun: Universal TUN/TAP device driver, 1.6
tun: (C) 1999-2004 Max Krasnyansky <maxk@qualcomm.com>
ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
fsl-ehci fsl-ehci.0: Freescale On-Chip EHCI Host Controller
fsl-ehci fsl-ehci.0: new USB bus registered, assigned bus number 1
fsl-ehci fsl-ehci.0: irq 18, io base 0x53f80000
fsl-ehci fsl-ehci.0: USB 2.0 started, EHCI 1.00
hub 1-0:1.0: USB hub found
hub 1-0:1.0: 1 port detected
fsl-ehci fsl-ehci.1: Freescale On-Chip EHCI Host Controller

```
fsl-ehci fsl-ehci.1: new USB bus registered, assigned bus number 2
fsl-ehci fsl-ehci.1: irq 14, io base 0x53f80200
fsl-ehci fsl-ehci.1: USB 2.0 started, EHCI 1.00
hub 2-0:1.0: USB hub found
hub 2-0:1.0: 1 port detected
usbcore: registered new interface driver cdc_acm
cdc_acm: v0.26:USB Abstract Control Model driver for USB modems and ISDN
adapters
Initializing USB Mass Storage driver...
usbcore: registered new interface driver usb-storage
USB Mass Storage support registered.
usbcore: registered new interface driver usbserial
usbserial: USB Serial Driver core
USB Serial support registered for GSM modem (1-port)
usbcore: registered new interface driver option
option: v0.7.2:USB Driver for GSM modems
ARC USBOTG Device Controller driver (1 August 2005)
Android usb driver initialize
android_usb gadget: android_usb ready
fsl-usb2-udc: bind to driver android_usb
android gadget: register function adb
android gadget: register function usb_mass_storage
android gadget: register function rndis
f_accessory init
android gadget: register function accessory
android_usb gadget: usb_mass_storage, version: 2009/09/11
android_usb gadget: Number of LUNs=3
  lun0: LUN: removable file: (no medium)
  lun1: LUN: removable file: (no medium)
  lun2: LUN: removable file: (no medium)
rndis_function_bind_config MAC: 00:00:00:00:00:00
android_usb gadget: using random self ethernet address
android_usb gadget: using random host ethernet address
usb0: MAC c2:82:ff:30:55:6a
usb0: HOST MAC 86:a3:4f:f2:74:ef
acc_bind_config
mice: could not register psaux device, error: -16
mice: PS/2 mouse device common for all mice
input: gpio-keys as /devices/platform/gpio-keys/input/input0
MXC keypad loaded
mpr121 1-005a: mpr121: config as enable 4 of electrode.
input: FSL MPR121 Touchkey as /devices/platform/imx-i2c.1/i2c-1/1-
005a/input/input1
mpr121 1-005a: Mpr121 touch keyboard init success.
input: eGalax Touch Screen as /devices/platform/imx-i2c.2/i2c-2/2-
0004/input/input2
p1003_fwv33 2-0041: couldn't read panel infomation.
p1003_fwv33: probe of 2-0041 failed with error -5
usb 2-1: new high speed USB device using fsl-ehci and address 2
input: da9052-onkey as /devices/platform/imx-i2c.0/i2c-0/0-0048/da9052-
onkey/input/input3
input: isl29023 light sensor as /devices/virtual/input/input4
isl29023 2-0044: driver version 1.0 enabled
using rtc device, da9052-rtc, for alarms
da9052-rtc da9052-rtc: rtc core: registered da9052-rtc as rtc0
i2c /dev entries driver
IR NEC protocol handler initialized
IR RC5(x) protocol handler initialized
IR RC6 protocol handler initialized
IR JVC protocol handler initialized
IR Sony protocol handler initialized
Linux video capture interface: v2.00
```

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hub 2-1:1.0: USB hub found
hub 2-1:1.0: 4 ports detected
mxc_v4l2_output mxc_v4l2_output.0: Registered device video1
usbcore: registered new interface driver uvcvideo
USB Video Class driver (v0.1.0)
APM Battery Driver
input: mma8451 as /devices/virtual/input/input5
mag3110 1-000e: check mag3110 chip ID
input: mag3110 as /devices/virtual/input/input6
mag3110 1-000e: mag3110 is probed
MXC WatchDog Driver 2.0
MXC Watchdog # 0 Timer: initial timeout 60 sec
device-mapper: ioctl: 4.17.0-ioctl (2010-03-05) initialised: dm-devel@redhat.com
Bluetooth: Virtual HCI driver ver 1.3
Bluetooth: HCI UART driver ver 2.2
Bluetooth: HCIATH3K protocol initialized
Bluetooth: Generic Bluetooth USB driver ver 0.6
usbcore: registered new interface driver btusb
VPU initialized
mxc_asrc registered
gpu mmu disabled
mxsdhci: MXC Secure Digital Host Controller Interface driver
mxsdhci: MXC SDHCI Controller Driver.
mmc0: SDHCI detect irq 0 irq 3 INTERNAL DMA
mxsdhci: MXC SDHCI Controller Driver.
mmc1: SDHCI detect irq 205 irq 1 INTERNAL DMA
mxsdhci: MXC SDHCI Controller Driver.
mmc2: SDHCI detect irq 0 irq 2 INTERNAL DMA
usbcore: registered new interface driver usbhid
usbhid: USB HID core driver
logger: created 64K log 'log_main'
logger: created 256K log 'log_events'
logger: created 64K log 'log_radio'
logger: created 64K log 'log_system'
Cirrus Logic CS42888 ALSA SoC Codec Driver
0 revision 17
mxc_spdif mxc_spdif.0: MXC SPDIF Audio Transmitter
No device for codec mxc spdif
No device for DAI mxc spdif
No device for DAI imx-ssi-1-0
No device for DAI imx-ssi-1-1
No device for DAI imx-ssi-2-0
No device for DAI imx-ssi-2-1
No device for DAI imx-spdif-dai
DMA Sound Buffer Allocated: Playback UseIram=1 ext_ram=0 buf->addr=f8016000 buf->area=d4856000 size=24576
DMA Sound Buffer Allocated: Capture UseIram=1 ext_ram=1 buf->addr=83348000 buf->area=fe70a000 size=24576
asoc: SGTL5000 <-> imx-ssi-2-0 mapping ok
mmc0: new high speed MMC card at address 0001
mmcblk0: mmc0:0001 SEM08G 7.39 GiB
  mmcblk0: p1 p2 p3 < p5 p6 > p4
DMA Sound Buffer Allocated: Playback UseIram=1 ext_ram=1 buf->addr=83390000 buf->area=fe710000 size=24576
asoc: mxc spdif <-> imx-spdif-dai mapping ok
ALSA device list:
  #0: imx-3stack (SGTL5000)
  #1: imx-3stack-spdif (mxc spdif)
nf_conntrack version 0.5.0 (4906 buckets, 19624 max)
IPv4 over IPv4 tunneling driver
GRE over IPv4 tunneling driver
ip_tables: (C) 2000-2006 Netfilter Core Team
```

TCP cubic registered
NET: Registered protocol family 10
IPv6 over IPv4 tunneling driver
NET: Registered protocol family 17
NET: Registered protocol family 15
can: controller area network core (rev 20090105 abi 8)
NET: Registered protocol family 29
can: raw protocol (rev 20090105)
can: broadcast manager protocol (rev 20090105 t)
Bluetooth: L2CAP ver 2.14
Bluetooth: L2CAP socket layer initialized
Bluetooth: SCO (Voice Link) ver 0.6
Bluetooth: SCO socket layer initialized
Bluetooth: RFCOMM TTY layer initialized
Bluetooth: RFCOMM socket layer initialized
Bluetooth: RFCOMM ver 1.11
Bluetooth: BNEP (Ethernet Emulation) ver 1.3
Bluetooth: BNEP filters: protocol multicast
Bluetooth: HIDP (Human Interface Emulation) ver 1.2
L2TP core driver, V2.0
PPPoL2TP kernel driver, V2.0
VFP support v0.3: implementor 41 architecture 3 part 30 variant c rev 2
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_PERI on
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_MEM on
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_PRO on
regulator_init_complete: incomplete constraints, leaving DA9052_BUCK_CORE on
regulator_init_complete: incomplete constraints, leaving DA9052_LD010 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD08 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD06 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD05 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD04 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD03 on
regulator_init_complete: incomplete constraints, leaving DA9052_LD01 on
da9052-rtc da9052-rtc: setting system clock to 2000-01-11 23:23:56 UTC
(947633036)
Freeing init memory: 196K
init: cannot open '/initlogo.rle'
EXT4-fs (mmcblk0p2): mounted filesystem with ordered data mode. Opts: (null)
EXT4-fs (mmcblk0p2): re-mounted. Opts: (null)
EXT4-fs (mmcblk0p5): warning: checktime reached, running e2fsck is recommended
EXT4-fs (mmcblk0p5): mounted filesystem with ordered data mode. Opts:
noauto_da_alloc
EXT4-fs (mmcblk0p6): warning: checktime reached, running e2fsck is recommended
EXT4-fs (mmcblk0p6): mounted filesystem with ordered data mode. Opts: (null)
rfkill: BT RF going to : off
init: cannot find '/system/etc/install-recovery.sh', disabling 'flash_recovery'
input: eCompass as /devices/virtual/input/input7
warning: `rild' uses 32-bit capabilities (legacy support in use)
pmem: request for physical address of pmem region from process 2241.
Unhandled fault: external abort on non-linefetch (0x1018) at 0x40a85054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x40a85054
request_suspend_state: on (3->0) at 38986785003 (2000-01-11 23:24:32.333020251
UTC)
Unhandled fault: external abort on non-linefetch (0x1018) at 0x40f63054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x41000054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x41152054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x411ef054
binder: release 2396:2396 transaction 925 out, still active
binder: 2234:2239 transaction failed 29189, size 4-0
binder: send failed reply for transaction 925, target dead
Unhandled fault: external abort on non-linefetch (0x1018) at 0x41252054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x412ef054

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Unhandled fault: external abort on non-linefetch (0x1018) at 0x4143a054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x414d7054
Not all allocated memory blocks were freed. Doing it now.
Freeing list entry #0, gpuaddr=84456000
Freeing list entry #2, gpuaddr=84467000
Freeing list entry #3, gpuaddr=84499000
Freeing list entry #6, gpuaddr=8449a000
Freeing list entry #7, gpuaddr=844ba000
Freeing list entry #8, gpuaddr=844da000
Freeing list entry #288, gpuaddr=844ea000
Freeing list entry #292, gpuaddr=84457000
Unhandled fault: external abort on non-linefetch (0x1018) at 0x4155a054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x414a8054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x414ca054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x414db054
pmem: request for physical address of pmem regimxc_ipu mxc_ipu: Channel already
disabled 10
mxc_ipu mxc_ipu: Channel already uninitialized 10
mxc_ipu mxc_ipu: Channel already disabled 10
mxc_ipu mxc_ipu: Channel already uninitialized 10
ERROR: v4l2 capture: mxc_v4l_dqueue timeout enc_counter 0
ERROR: v4l2 capture: mxc_v4l_dqueue timeout enc_counter 0
ERROR: v4l2 capture: mxc_v4l_dqueue timeout enc_counter 0
ERROR: v4l2 capture: mxc_v4l_dqueue timeout enc_counter 0
mxc_v4l_close: release resource
Unhandled fault: external abort on non-linefetch (0x1018) at 0x41288054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x41302054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x419f6054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x419f6054
pmem: request for physical address of pmem region from process 2380.
mxc_ipu mxc_ipu: Channel already disabled 10
mxc_ipu mxc_ipu: Channel already uninitialized 10
ERROR: v4l2 capture: mxc_v4l_dqueue timeout enc_counter 0
mxc_v4l_close: release resource
Unhandled fault: external abort on non-linefetch (0x1018) at 0x41288054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x412d9054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x419a4054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x419a4054
pmem: request for physical address of pmem region from process 2168.
mxc_ipu mxc_ipu: Channel already disabled 10
mxc_ipu mxc_ipu: Channel already uninitialized 10
ERROR: v4l2 capture: mxc_v4l_dqueue timeout enc_counter 0
mxc_v4l_close: release resource
Unhandled fault: external abort on non-linefetch (0x1018) at 0x4120b054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x41285054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x41c07054
Unhandled fault: external abort on non-linefetch (0x1018) at 0x41ca4054
pmem: request for physical address of pmem region from process 2380.
mxc_ipu mxc_ipu: Channel already disabled 10
mxc_ipu mxc_ipu: Channel already uninitialized 10
ERROR: v4l2 capture: mxc_v4l_dqueue timeout enc_counter 0
ERROR: v4l2 capture: mxc_v4l_dqueue timeout enc_counter 0
mxc_v4l_close: release resource
request_suspend_state: mem (0->3) at 279643848186 (2000-01-11 23:28:32.990080809
UTC)
mxc_ipu mxc_ipu: Channel already disabled 10
mxc_ipu mxc_ipu: Channel already uninitialized 10
isl29023 2-0044: isl29023 early_suspend
mag3110 1-000e: mag3110 early_suspend
PM: Syncing filesystems ... done.
dvfs: disable dvfs before suspend
Freezing user space processes ... (elapsed 0.01 seconds) done.
```

CAMERA
ON TIME
SERIAL
OUTPUT

Freezing remaining freezable tasks ... (elapsed 0.01 seconds) done.
Suspending console(s) (use no_console_suspend to debug)