Kernel Log

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Booting Linux on physical CPU 0x0
Linux version 4.6.0-xilinx-gff8137b-dirty (lzq@armdev2) (gcc version 4.8.3 20140320 (prerelease) (Sourcery CodeBench Lite 2014.05-23) ) #25 SMP PREEMPT Fri Nov 23 15:30:52 CST 2018
CPU: ARMv7 Processor [413fc090] revision 0 (ARMv7), cr=18c5387d
CPU: PIPT / VIPT nonaliasing data cache, VIPT aliasing instruction cache
Machine model: Xilinx Zynq
cma: Reserved 16 MiB at 0x0e000000
Memory policy: Data cache writealloc
On node 0 totalpages: 61440
free_area_init_node: node 0, pgdat c0b39280, node_mem_map cde10000
  Normal zone: 480 pages used for memmap
  Normal zone: 0 pages reserved
  Normal zone: 61440 pages, LIFO batch:15
percpu: Embedded 12 pages/cpu @cddf1000 s19776 r8192 d21184 u49152
pcpu-alloc: s19776 r8192 d21184 u49152 alloc=12*4096
pcpu-alloc: [0] 0 [0] 1
Built 1 zonelists in Zone order, mobility grouping on.  Total pages: 60960
Kernel command line: mem=240M console=ttyPS0,115200 ramdisk_size=33554432 root=/dev/ram rw earlyprintk
PID hash table entries: 1024 (order: 0, 4096 bytes)
Dentry cache hash table entries: 32768 (order: 5, 131072 bytes)
Inode-cache hash table entries: 16384 (order: 4, 65536 bytes)
Memory: 203432K/245760K available (6345K kernel code, 231K rwdata, 1896K rodata, 1024K init, 223K bss, 25944K reserved, 16384K cma-reserved, 0K highmem)
Virtual kernel memory layout:
    vector  : 0xffff0000 - 0xffff1000   (   4 kB)
    fixmap  : 0xffc00000 - 0xfff00000   (3072 kB)
    vmalloc : 0xcf800000 - 0xff800000   ( 768 MB)
    lowmem  : 0xc0000000 - 0xcf000000   ( 240 MB)
    pkmap   : 0xbfe00000 - 0xc0000000   (   2 MB)
    modules : 0xbf000000 - 0xbfe00000   (  14 MB)
      .text : 0xc0008000 - 0xc090c424   (9234 kB)
      .init : 0xc0a00000 - 0xc0b00000   (1024 kB)
      .data : 0xc0b00000 - 0xc0b39fe0   ( 232 kB)
       .bss : 0xc0b39fe0 - 0xc0b71c28   ( 224 kB)
Preemptible hierarchical RCU implementation.
        Build-time adjustment of leaf fanout to 32.
        RCU restricting CPUs from NR_CPUS=4 to nr_cpu_ids=2.
RCU: Adjusting geometry for rcu_fanout_leaf=32, nr_cpu_ids=2
NR_IRQS:16 nr_irqs:16 16
efuse mapped to cf800000
ps7-slcr mapped to cf802000
L2C: platform modifies aux control register: 0x72360000 -> 0x72760000
L2C: DT/platform modifies aux control register: 0x72360000 -> 0x72760000
L2C-310 erratum 769419 enabled
L2C-310 enabling early BRESP for Cortex-A9
L2C-310 full line of zeros enabled for Cortex-A9
L2C-310 ID prefetch enabled, offset 1 lines
L2C-310 dynamic clock gating enabled, standby mode enabled
L2C-310 cache controller enabled, 8 ways, 512 kB
L2C-310: CACHE_ID 0x410000c8, AUX_CTRL 0x76760001
zynq_clock_init: clkc starts at cf802100
Zynq clock init
sched_clock: 64 bits at 333MHz, resolution 3ns, wraps every 4398046511103ns
clocksource: arm_global_timer: mask: 0xffffffffffffffff max_cycles: 0x4ce07af025, max_idle_ns: 440795209040 ns
Switching to timer-based delay loop, resolution 3ns
clocksource: ttc_clocksource: mask: 0xffff max_cycles: 0xffff, max_idle_ns: 537538477 ns
ps7-ttc #0 at cf80a000, irq=18
Console: colour dummy device 80x30
Calibrating delay loop (skipped), value calculated using timer frequency.. 666.66 BogoMIPS (lpj=3333333)
pid_max: default: 32768 minimum: 301
Mount-cache hash table entries: 1024 (order: 0, 4096 bytes)
Mountpoint-cache hash table entries: 1024 (order: 0, 4096 bytes)
CPU: Testing write buffer coherency: ok
CPU0: thread -1, cpu 0, socket 0, mpidr 80000000
Setting up static identity map for 0x100000 - 0x100058
CPU1: failed to boot: -1
Brought up 1 CPUs
SMP: Total of 1 processors activated (666.66 BogoMIPS).
CPU: All CPU(s) started in SVC mode.
devtmpfs: initialized
VFP support v0.3: implementor 41 architecture 3 part 30 variant 9 rev 4
clocksource: jiffies: mask: 0xffffffff max_cycles: 0xffffffff, max_idle_ns: 19112604462750000 ns
pinctrl core: initialized pinctrl subsystem
NET: Registered protocol family 16
DMA: preallocated 256 KiB pool for atomic coherent allocations
cpuidle: using governor menu
hw-breakpoint: found 5 (+1 reserved) breakpoint and 1 watchpoint registers.
hw-breakpoint: maximum watchpoint size is 4 bytes.
zynq-ocm f800c000.ps7-ocmc: ZYNQ OCM pool: 256 KiB @ 0xcf880000
vgaarb: loaded
SCSI subsystem initialized
usbcore: registered new interface driver usbfs
usbcore: registered new interface driver hub
usbcore: registered new device driver usb
media: Linux media interface: v0.10
Linux video capture interface: v2.00
pps_core: LinuxPPS API ver. 1 registered
pps_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giometti <giometti@linux.it>
PTP clock support registered
EDAC MC: Ver: 3.0.0
Advanced Linux Sound Architecture Driver Initialized.
clocksource: Switched to clocksource arm_global_timer
NET: Registered protocol family 2
TCP established hash table entries: 2048 (order: 1, 8192 bytes)
TCP bind hash table entries: 2048 (order: 2, 16384 bytes)
TCP: Hash tables configured (established 2048 bind 2048)
UDP hash table entries: 256 (order: 1, 8192 bytes)
UDP-Lite hash table entries: 256 (order: 1, 8192 bytes)
NET: Registered protocol family 1
RPC: Registered named UNIX socket transport module.
RPC: Registered udp transport module.
RPC: Registered tcp transport module.
RPC: Registered tcp NFSv4.1 backchannel transport module.
PCI: CLS 0 bytes, default 64
Trying to unpack rootfs image as initramfs...
rootfs image is not initramfs (no cpio magic); looks like an initrd
Freeing initrd memory: 12904K (cce67000 - cdb01000)
hw perfevents: enabled with armv7_cortex_a9 PMU driver, 7 counters available
futex hash table entries: 512 (order: 3, 32768 bytes)
workingset: timestamp_bits=28 max_order=16 bucket_order=0
jffs2: version 2.2. (NAND) (SUMMARY)  © 2001-2006 Red Hat, Inc.
io scheduler noop registered
io scheduler deadline registered
io scheduler cfq registered (default)
dma-pl330 f8003000.ps7-dma: Loaded driver for PL330 DMAC-241330
dma-pl330 f8003000.ps7-dma:     DBUFF-128x8bytes Num_Chans-8 Num_Peri-4 Num_Events-16
e0000000.serial: ttyPS0 at MMIO 0xe0000000 (irq = 158, base_baud = 6249999) is a xuartps
console [ttyPS0] enabled
xdevcfg f8007000.ps7-dev-cfg: ioremap 0xf8007000 to cf86e000
[drm] Initialized drm 1.1.0 20060810
brd: module loaded
loop: module loaded
CAN device driver interface
gpiod_set_value: invalid GPIO
libphy: MACB_mii_bus: probed
macb e000b000.ethernet eth0: Cadence GEM rev 0x00020118 at 0xe000b000 irq 31 (00:0a:35:00:00:00)
Generic PHY e000b000.etherne:00: attached PHY driver [Generic PHY] (mii_bus:phy_addr=e000b000.etherne:00, irq=-1)
e1000e: Intel(R) PRO/1000 Network Driver - 3.2.6-k
e1000e: Copyright(c) 1999 - 2015 Intel Corporation.
ehci_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver
ehci-pci: EHCI PCI platform driver
usbcore: registered new interface driver usb-storage
mousedev: PS/2 mouse device common for all mice
i2c /dev entries driver
Xilinx Zynq CpuIdle Driver started
sdhci: Secure Digital Host Controller Interface driver
sdhci: Copyright(c) Pierre Ossman
sdhci-pltfm: SDHCI platform and OF driver helper
mmc0: SDHCI controller on e0100000.ps7-sdio [e0100000.ps7-sdio] using ADMA
ledtrig-cpu: registered to indicate activity on CPUs
usbcore: registered new interface driver usbhid
usbhid: USB HID core driver
nand: device found, Manufacturer ID: 0x2c, Chip ID: 0xda
nand: Micron MT29F2G08ABAGAWP
nand: 256 MiB, SLC, erase size: 128 KiB, page size: 2048, OOB size: 128
nand: WARNING: pl35x-nand: the ECC used on your system is too weak compared to the one required by the NAND chip
Bad block table found at page 131008, version 0x01
Bad block table found at page 130944, version 0x01
6 ofpart partitions found on MTD device pl35x-nand
Creating 6 MTD partitions on "pl35x-nand":
0x000000000000-0x000002800000 : "BOOT.bin-env-dts-kernel"
0x000002800000-0x000004800000 : "ramfs"
0x000004800000-0x000005000000 : "configs"
0x000005000000-0x000006000000 : "reserve"
0x000006000000-0x000008000000 : "ramfs-bak"
0x000008000000-0x000010000000 : "reserve1"
NET: Registered protocol family 10
sit: IPv6 over IPv4 tunneling driver
NET: Registered protocol family 17
can: controller area network core (rev 20120528 abi 9)
NET: Registered protocol family 29
can: raw protocol (rev 20120528)
can: broadcast manager protocol (rev 20120528 t)
can: netlink gateway (rev 20130117) max_hops=1
zynq_pm_ioremap: no compatible node found for 'xlnx,zynq-ddrc-a05'
zynq_pm_late_init: Unable to map DDRC IO memory.
Registering SWP/SWPB emulation handler
hctosys: unable to open rtc device (rtc0)
ALSA device list:
  No soundcards found.
RAMDISK: gzip image found at block 0
EXT4-fs (ram0): couldn't mount as ext3 due to feature incompatibilities
EXT4-fs (ram0): mounted filesystem without journal. Opts: (null)
VFS: Mounted root (ext4 filesystem) on device 1:0.
devtmpfs: mounted
Freeing unused kernel memory: 1024K (c0a00000 - c0b00000)
EXT4-fs (ram0): re-mounted. Opts: block_validity,delalloc,barrier,user_xattr
random: dd urandom read with 0 bits of entropy available
ubi0: attaching mtd2
ubi0: scanning is finished
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