

```
snickerdoodle> saveenv
Saving Environment to SPI Flash...
SF: Detected N25Q128A with page size 256 Bytes, erase size 64 KiB, total 16 MiB
Erasing SPI flash...Writing to SPI flash...done
snickerdoodle> boot
Device: sdhci@e0100000
Manufacturer ID: 28
OEM: 4245
Name: SDU32
Tran Speed: 50000000
Rd Block Len: 512
SD version 3.0
High Capacity: Yes
Capacity: 29.8 GiB
Bus Width: 4-bit
Erase Group Size: 512 Bytes
reading uEnv.txt
1046 bytes read in 13 ms (78.1 KiB/s)
Loaded environment from uEnv.txt
Importing environment from SD ...
Running uenvcmd ...
reading config.txt
1 bytes read in 13 ms (0 Bytes/s)
Importing configuration environment...
Config set to
Device: sdhci@e0100000
Manufacturer ID: 28
OEM: 4245
Name: SDU32
Tran Speed: 50000000
Rd Block Len: 512
SD version 3.0
High Capacity: Yes
Capacity: 29.8 GiB
Bus Width: 4-bit
Erase Group Size: 512 Bytes
Copying Linux system from microSD to RAM...
reading uImage
4153304 bytes read in 246 ms (16.1 MiB/s)
reading devicetree.dtb
10287 bytes read in 18 ms (557.6 KiB/s)
## Booting kernel from Legacy Image at 03000000 ...
   Image Name:   Linux-4.4.0-snickerdoodle-34505-
   Image Type:   ARM Linux Kernel Image (uncompressed)
   Data Size:    4153240 Bytes = 4 MiB
   Load Address: 00008000
   Entry Point:  00008000
   Verifying Checksum ... OK
## Flattened Device Tree blob at 02ff0000
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Booting using the fdt blob at 0x2ff0000  
Loading Kernel Image ... OK  
Loading Device Tree to 1fffa000, end 1ffff82e ... OK

Starting kernel ...

```
[ 0.000000] Booting Linux on physical CPU 0x0
[ 0.000000] Linux version 4.4.0-snickerdoodle-34505-gcd2401c (russellbush@ub6
[ 0.000000] CPU: ARMv7 Processor [413fc090] revision 0 (ARMv7), cr=18c5387d
[ 0.000000] CPU: PIPT / VIPT nonaliasing data cache, VIPT aliasing instructie
[ 0.000000] Machine model: snickerdoodle
[ 0.000000] cma: Reserved 16 MiB at 0x3f000000
[ 0.000000] Memory policy: Data cache writealloc
[ 0.000000] PERCPU: Embedded 12 pages/cpu @ef7d4000 s19072 r8192 d21888 u4912
[ 0.000000] Built 1 zonelists in Zone order, mobility grouping on. Total pa8
[ 0.000000] Kernel command line: console=ttyPS0,115200 root=/dev/mmcblk0p2 rk
[ 0.000000] PID hash table entries: 4096 (order: 2, 16384 bytes)
[ 0.000000] Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
[ 0.000000] Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
[ 0.000000] Memory: 1014632K/1048576K available (5659K kernel code, 250K rwd)
[ 0.000000] Virtual kernel memory layout:
[ 0.000000]   vector : 0xffff0000 - 0xffff1000   ( 4 kB)
[ 0.000000]   fixmap : 0xffc00000 - 0xffff0000   (3072 kB)
[ 0.000000]   vmalloc : 0xf0800000 - 0xff800000   ( 240 MB)
[ 0.000000]   lowmem  : 0xc0000000 - 0xf0000000   ( 768 MB)
[ 0.000000]   pkmap  : 0xbfe00000 - 0xc0000000   ( 2 MB)
[ 0.000000]   modules: 0xbf000000 - 0xbfe00000   ( 14 MB)
[ 0.000000]   .text : 0xc0008000 - 0xc077722c   (7613 kB)
[ 0.000000]   .init : 0xc0778000 - 0xc07ba000   ( 264 kB)
[ 0.000000]   .data : 0xc07ba000 - 0xc07f8940   ( 251 kB)
[ 0.000000]   .bss : 0xc07f8940 - 0xc0833b08   ( 237 kB)
[ 0.000000] Preemptible hierarchical RCU implementation.
[ 0.000000] Build-time adjustment of leaf fanout to 32.
[ 0.000000] RCU restricting CPUs from NR_CPUS=4 to nr_cpu_ids=2.
[ 0.000000] RCU: Adjusting geometry for rcu_fanout_leaf=32, nr_cpu_ids=2
[ 0.000000] NR_IRQS:16 nr_irqs:16 16
[ 0.000000] slcr mapped to f0800000
[ 0.000000] L2C: platform modifies aux control register: 0x72360000 -> 0x7270
[ 0.000000] L2C: DT/platform modifies aux control register: 0x72360000 -> 0x0
[ 0.000000] L2C-310 erratum 769419 enabled
[ 0.000000] L2C-310 enabling early BRESP for Cortex-A9
[ 0.000000] L2C-310 full line of zeros enabled for Cortex-A9
[ 0.000000] L2C-310 ID prefetch enabled, offset 1 lines
[ 0.000000] L2C-310 dynamic clock gating enabled, standby mode enabled
[ 0.000000] L2C-310 cache controller enabled, 8 ways, 512 kB
[ 0.000000] L2C-310: CACHE_ID 0x410000c8, AUX_CTRL 0x76760001
[ 0.000000] zynq_clock_init: clk starts at f0800100
[ 0.000000] Zynq clock init
[ 0.000011] sched_clock: 64 bits at 333MHz, resolution 3ns, wraps every 4398s
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[ 0.000035] clocksource: arm\_global\_timer: mask: 0xffffffffffffffff max\_cycles  
[ 0.000143] clocksource: ttc\_clocksource: mask: 0xffff max\_cycles: 0xffff, ms  
[ 0.000175] timer #0 at f0808000, irq=17  
[ 0.000506] Console: colour dummy device 80x30  
[ 0.000529] Calibrating delay loop... 1332.01 BogoMIPS (lpj=6660096)  
[ 0.090320] pid\_max: default: 32768 minimum: 301  
[ 0.090472] Mount-cache hash table entries: 2048 (order: 1, 8192 bytes)  
[ 0.090488] Mountpoint-cache hash table entries: 2048 (order: 1, 8192 bytes)  
[ 0.091108] CPU: Testing write buffer coherency: ok  
[ 0.091333] CPU0: thread -1, cpu 0, socket 0, mpidr 80000000  
[ 0.091401] Setting up static identity map for 0x8280 - 0x82d8  
[ 0.260309] CPU1: thread -1, cpu 1, socket 0, mpidr 80000001  
[ 0.260394] Brought up 2 CPUs  
[ 0.260414] SMP: Total of 2 processors activated (2664.03 BogoMIPS).  
[ 0.260424] CPU: All CPU(s) started in SVC mode.  
[ 0.261272] devtmpfs: initialized  
[ 0.264026] VFP support v0.3: implementor 41 architecture 3 part 30 variant 4  
[ 0.264453] clocksource: jiffies: mask: 0xffffffff max\_cycles: 0xffffffff, ms  
[ 0.265576] pinctrl core: initialized pinctrl subsystem  
[ 0.266734] NET: Registered protocol family 16  
[ 0.268718] DMA: preallocated 256 KiB pool for atomic coherent allocations  
[ 0.300303] cpuidle: using governor ladder  
[ 0.320853] cpuidle: using governor menu  
[ 0.327413] hw-breakpoint: found 5 (+1 reserved) breakpoint and 1 watchpoint.  
[ 0.327432] hw-breakpoint: maximum watchpoint size is 4 bytes.  
[ 0.327575] zynq-ocm f800c000.ocmc: ZYNQ OCM pool: 256 KiB @ 0xf0880000  
[ 0.327876] zynq-pinctrl 700.pinctrl: zynq pinctrl initialized  
[ 0.352035] vgaarb: loaded  
[ 0.352455] SCSI subsystem initialized  
[ 0.353052] usbcore: registered new interface driver usbfs  
[ 0.353151] usbcore: registered new interface driver hub  
[ 0.353259] usbcore: registered new device driver usb  
[ 0.353491] media: Linux media interface: v0.10  
[ 0.353571] Linux video capture interface: v2.00  
[ 0.353650] pps\_core: LinuxPPS API ver. 1 registered  
[ 0.353661] pps\_core: Software ver. 5.3.6 - Copyright 2005-2007 Rodolfo Giom  
[ 0.353707] PTP clock support registered  
[ 0.353802] EDAC MC: Ver: 3.0.0  
[ 0.354765] FPGA manager framework  
[ 0.354935] Advanced Linux Sound Architecture Driver Initialized.  
[ 0.356680] clocksource: Switched to clocksource arm\_global\_timer  
[ 0.369721] NET: Registered protocol family 2  
[ 0.370460] TCP established hash table entries: 8192 (order: 3, 32768 bytes)  
[ 0.370569] TCP bind hash table entries: 8192 (order: 4, 65536 bytes)  
[ 0.370729] TCP: Hash tables configured (established 8192 bind 8192)  
[ 0.370812] UDP hash table entries: 512 (order: 2, 16384 bytes)  
[ 0.370868] UDP-Lite hash table entries: 512 (order: 2, 16384 bytes)  
[ 0.371116] NET: Registered protocol family 1  
[ 0.381583] RPC: Registered named UNIX socket transport module.

[ 0.381597] RPC: Registered udp transport module.  
[ 0.381607] RPC: Registered tcp transport module.  
[ 0.381615] RPC: Registered tcp NFSv4.1 backchannel transport module.  
[ 0.382186] hw perfevents: enabled with armv7\_cortex\_a9 PMU driver, 7 countee  
[ 0.383489] futex hash table entries: 512 (order: 3, 32768 bytes)  
[ 0.385219] jffs2: version 2.2. (NAND) (SUMMARY) © 2001-2006 Red Hat, Inc.  
[ 0.389359] bounce: pool size: 64 pages  
[ 0.389382] io scheduler noop registered  
[ 0.389397] io scheduler deadline registered  
[ 0.389432] io scheduler cfq registered (default)  
[ 0.391141] dma-pl330 f8003000.dmac: Loaded driver for PL330 DMAC-241330  
[ 0.391163] dma-pl330 f8003000.dmac: DBUFF-128x8bytes Num\_Chans-8 Nu6  
[ 0.391801] Serial: 8250/16550 driver, 4 ports, IRQ sharing disabled  
[ 0.393462] e0000000.serial: ttyPS0 at MMIO 0xe0000000 (irq = 143, base\_bauds  
[ 1.020800] console [ttyPS0] enabled  
[ 1.024942] xdevcfg f8007000.devcfg: ioremap 0xf8007000 to f086c000  
[ 1.031644] [drm] Initialized drm 1.1.0 20060810  
[ 1.047476] brd: module loaded  
[ 1.057017] loop: module loaded  
[ 1.063087] m25p80 spi0.0: Controller not in SPI\_TX\_QUAD mode, just use extee  
[ 1.071316] m25p80 spi0.0: n25q128a11 (16384 Kbytes)  
[ 1.076240] 5 ofpart partitions found on MTD device spi0.0  
[ 1.082003] Creating 5 MTD partitions on "spi0.0":  
[ 1.086800] 0x000000000000-0x0000000080000 : "qspi-fsbl-uboot"  
[ 1.103664] 0x0000000080000-0x0000000480000 : "qspi-linux"  
[ 1.110008] 0x0000000480000-0x0000000490000 : "qspi-device-tree"  
[ 1.116885] 0x0000000490000-0x000000d80000 : "qspi-rootfs"  
[ 1.123311] 0x000000d80000-0x000001000000 : "qspi-bitstream"  
[ 1.131236] CAN device driver interface  
[ 1.135435] e1000e: Intel(R) PRO/1000 Network Driver - 3.2.6-k  
[ 1.141220] e1000e: Copyright(c) 1999 - 2015 Intel Corporation.  
[ 1.148099] ehci\_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver  
[ 1.154552] ehci-pci: EHCI PCI platform driver  
[ 1.159195] usbcore: registered new interface driver usb-storage  
[ 1.166382] mousedev: PS/2 mouse device common for all mice  
[ 1.172511] i2c /dev entries driver  
[ 1.178342] EDAC MC: ECC not enabled  
[ 1.181994] Xilinx Zynq CpuIdle Driver started  
[ 1.186701] sdhci: Secure Digital Host Controller Interface driver  
[ 1.192794] sdhci: Copyright(c) Pierre Ossman  
[ 1.197166] sdhci-pltfm: SDHCI platform and OF driver helper  
[ 1.203147] sdhci-arsan e0100000.sdhci: No vmmc regulator found  
[ 1.209101] sdhci-arsan e0100000.sdhci: No vqmmc regulator found  
[ 1.246731] mmc0: SDHCI controller on e0100000.sdhci [e0100000.sdhci] using A  
[ 1.254347] sdhci-arsan e0101000.sdhci: No vqmmc regulator found  
[ 1.295778] mmc0: new high speed SDHC card at address 59b4  
[ 1.301678] mmcblk0: mmc0:59b4 SDU32 29.8 GiB  
[ 1.307084] mmcblk0: p1 p2  
[ 1.376697] mmc1: SDHCI controller on e0101000.sdhci [e0101000.sdhci] using A

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[ 1.384421] ledtrig-cpu: registered to indicate activity on CPUs
[ 1.387278] sdhci-arsan e0101000.sdhci: card claims to support voltages bele
[ 1.398398] mmc1: queuing unknown CIS tuple 0x91 (3 bytes)
[ 1.399448] mmc1: new high speed SDIO card at address 0001
[ 1.410062] usbcore: registered new interface driver usbhid
[ 1.415549] usbhid: USB HID core driver
[ 1.422946] ip_tables: (C) 2000-2006 Netfilter Core Team
[ 1.428370] NET: Registered protocol family 10
[ 1.433669] ip6_tables: (C) 2000-2006 Netfilter Core Team
[ 1.439064] sit: IPv6 over IPv4 tunneling driver
[ 1.444428] NET: Registered protocol family 17
[ 1.448961] bridge: automatic filtering via arp/ip/ip6tables has been deprec.
[ 1.461514] can: controller area network core (rev 20120528 abi 9)
[ 1.467718] NET: Registered protocol family 29
[ 1.472086] can: raw protocol (rev 20120528)
[ 1.476334] can: broadcast manager protocol (rev 20120528 t)
[ 1.482020] can: netlink gateway (rev 20130117) max_hops=1
[ 1.487915] Registering SWP/SWPB emulation handler
[ 1.493738] hctosys: unable to open rtc device (rtc0)
[ 1.499092] ALSA device list:
[ 1.501976]  No soundcards found.
[ 1.507049] EXT4-fs (mmcblk0p2): couldn't mount as ext3 due to feature incomp
[ 1.698766] wl18xx_driver wl18xx.0.auto: Direct firmware load for ti-connect2
[ 1.709516] wl18xx_driver wl18xx.0.auto: Falling back to user helper
[ 4.434363] EXT4-fs (mmcblk0p2): 6 orphan inodes deleted
[ 4.439672] EXT4-fs (mmcblk0p2): recovery complete
[ 4.540163] EXT4-fs (mmcblk0p2): mounted filesystem with ordered data mode. )
[ 4.548244] VFS: Mounted root (ext4 filesystem) on device 179:2.
[ 4.558485] devtmpfs: mounted
[ 4.561697] Freeing unused kernel memory: 264K (c0778000 - c07ba000)
Mount failed for selinuxfs on /sys/fs/selinux: No such file or directory
[ 5.206547] init: ureadahead main process (735) terminated with status 5gith1
[ 7.197510] wlcore: ERROR configuration binary file size is wrong, expected 6
* Stopping Send an event to indicate plymouth is up[ OK ]
* Starting Mount filesystems on boot[ OK ]
* Starting Signal sysvinit that the rootfs is mounted[ OK ]
* Starting Populate /dev filesystem[ OK ]
* Stopping Populate /dev filesystem[ OK ]
* Starting Clean /tmp directory[ OK ]
* Starting Populate and link to /run filesystem[ OK ]
* Stopping Clean /tmp directory[ OK ]
* Stopping Populate and link to /run filesystem[ OK ]
* Stopping Track if upstart is running in a container[ OK ]
* Starting Initialize or finalize resolvconf[ OK ]
* Starting set console keymap[ OK ]
* Starting Signal sysvinit that virtual filesystems are mounted[ OK ]
* Starting Signal sysvinit that virtual filesystems are mounted[ OK ]
* Starting Bridge udev events into upstart[ OK ]
* Stopping set console keymap[ OK ]
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- \* Starting Signal sysvinit that local filesystems are mounted[ OK ]
  - \* Starting Signal sysvinit that remote filesystems are mounted[ OK ]
  - \* Starting device node and kernel event manager[ OK ]
  - \* Starting D-Bus system message bus[ OK ]
  - \* Starting Load gator driver module and launch gator daemon[ OK ]
  - \* Starting Enabling additional executable binary formats[ OK ]
  - \* Starting flush early job output to logs[ OK ]
  - \* Starting Load gator driver module and launch gator daemon[fail]
  - \* Stopping Mount filesystems on boot[ OK ]
  - \* Starting load modules from /etc/modules[ OK ]
  - \* Starting cold plug devices[ OK ]
  - \* Starting log initial device creation[ OK ]
  - \* Starting SystemD login management service[ OK ]
  - \* Stopping flush early job output to logs[ OK ]
  - \* Stopping load modules from /etc/modules[ OK ]
  - \* Stopping cold plug devices[ OK ]
  - \* Stopping log initial device creation[ OK ]
  - \* Starting load fallback graphics devices[ OK ]
  - \* Starting Uncomplicated firewall[ OK ]
  - \* Starting configure network device security[ OK ]
  - \* Starting system logging daemon[ OK ]
  - \* Starting load fallback graphics devices[fail]
  - \* Starting save udev log and update rules[ OK ]
  - \* Stopping save udev log and update rules[ OK ]
  - \* Starting set console font[ OK ]
  - \* Stopping set console font[ OK ]
  - \* Starting userspace bootsplash[ OK ]
  - \* Stopping userspace bootsplash[ OK ]
  - \* Starting Send an event to indicate plymouth is up[ OK ]
  - \* Starting configure network device security[ OK ]
  - \* Stopping Send an event to indicate plymouth is up[ OK ]
  - \* Starting configure network device security[ OK ]
  - \* Starting configure network device[ OK ]
  - \* Starting System V initialisation compatibility[ OK ]
  - \* Starting configure virtual network devices[ OK ]
  - \* Starting configure network device[ OK ]
  - \* Stopping System V initialisation compatibility[ OK ]
  - \* Starting Mount network filesystems[ OK ]
  - \* Starting Failsafe Boot Delay[ OK ]
- [ OK ]toring resolver state...
- \* Starting System V runlevel compatibility[ OK ]
  - \* Starting CPU interrupts balancing daemon[ OK ]
  - \* Starting deferred execution scheduler[ OK ]
  - \* Starting regular background program processing daemon[ OK ]
  - \* Starting save kernel messages[ OK ]
  - \* Starting OpenSSH server[ OK ]
  - \* Stopping save kernel messages[ OK ]
  - \* Starting configure network device security[ OK ]
  - \* Starting configure network device[ OK ]

\* Stopping Mount network filesystems[ OK ]

\* Starting Bridge socket events into upstart[ OK ]

\* Starting Bridge file events into upstart[ OK ]

AH00558: apache2: Could not reliably determine the server's fully qualified dome

\*

\* Stopping System V runlevel compatibility[ OK ]

Last login: Thu Jan 1 00:00:12 UTC 1970 on tty1

Welcome to Ubuntu 14.04 (GNU/Linux 4.4.0-snickerdoodle-34505-gcd2401c armv7l)

\* Documentation: <http://www.ubuntu.com>

[ OK ]snickerdoodle:~# \* Restoring resolver state...

\* Starting web server apache2 \*

root@snickerdoodle:~#