Unzip is completed 解压缩完成

FREQ 频率

DONE 完成

DEVI device设备的简写？

NAND dete （NAND FLASH----pmon）

data\_buff\_addr:0xa01fafe0, dma\_addr:0xa01fdfe0 数据缓存区地址

NAND device: Manufacturer ID: 0x9b, Chip ID: 0xf1 (Unknown NAND 128MiB 3,3V 8-bit)

NAND设备 生产商ID 芯片ID

Scanning device for bad blocks 扫描块设备的坏块

Creat MTD partitions on "ls1x-nand": name="kernel" size=14680064Byte 内核

Creat MTD partitions on "ls1x-nand": name="rootfs" size=104857600Byte 文件系统

Creat MTD partitions on "ls1x-nand": name="data" size=14680064Byte 数据

ENVI environment环境简写？

MAPV

in envinit environment init初始化？

NVRAM@801fac20 非易失随机存储器

STDV

80100000: memory between 801fa400-80200000 is already been allocated,heap is already above this point

在801fa400到80200000的存储器空间已经被分配了

堆栈已经在这一点之上了

SBDD

DINI

NETI

RTCL

in fb\_init fb初始化

cfb\_console init, fb=0xa3108000, xres=800, yres=480

cfb控制台初始化 帧缓冲 X与Y方向分辨率

in configure 配置

mainbus0 (root) 系统总线

localbus0 at mainbus0 本地总线在系统总线

syn0 at localbus0 合成器在本地总线

phy id = 181 b8a0 物理地址

phy base = 17

in if attach

loopdev0 at mainbus0 在系统总线循环dev0

out configure 导出配置

devconfig done. dev配置结束

network configure 'syn0:192.168.31.123' 网络配置，合成器0网址

bootp=8000bc2c 引导协议

Version = 0x1137 版本

MacAddr = 0x0 0x55 0x7b 0xb5 0x7d 0xf7 苹果个人机地址

=====>enter synopGMAC\_mac\_init:1006

=====>full duplex 全双工

=====>100M

=====>enter synopGMAC\_mac\_init:1006

=====>full duplex

=====>100M

HSTI

SYMI

SBDE

Configuration [FCR,EL,NET] 配置网络等

MakeTime: 2021-09-03 10:49:51. ……时间

Supported loaders [srec, elf, bin] 被支持的装载机

Supported filesystems [mtd, net, fat, fs, disk, socket, tty, ram] 被支持的文件系统

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CPU (null) @ 200.00 MHz / Bus @ 100.00 MHz CPU和总线频率

Memory size 64 MB ( 64 MB Low memory, 0 MB High memory) .

存储器大小为64M,并企全是低速存储器

Primary Instruction cache size 8kb (32 line, 2 way)

主指令高速缓冲存储器大小为8kb，32行2路

Primary Data cache size 8kb (32 line, 2 way)

主数据高速缓冲存储器大小为8kb，32行2路

BEV1

BEV0

BEV in SR set to zero. 设置为0

update\_usb, no ! 更新USB

AUTO 自动

Press <Enter> to execute loading image:/dev/mtd0

按下回车执行导入镜像/dev/mtd0

Press any other key to abort. 00

按下任意键退出

Loading file: /dev/mtd0 (elf) 导入文件/dev/mtd0

Attempt to read non page aligned data 尝试读取非页对齐的数据

0x80200000/8786892 + 0x80a613cc/472756(z) Attempt to read non page aligned data + 16384 syms Attempt to read non page aligned data

Attempt to read non page aligned data \

Entry address is 80863770 入口地址是80863770

g root=/dev/mtdblock1 console=btys5,115200 rootfstype=yaffs2

zero at v0 v1 a0 a1 a2 a3

00000000 00000000 00000000 00000000 00000004 a30ffcb8 a30ffccc 8008e170

t0 t1 t2 t3 t4 t5 t6 t7

00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

s0 s1 s2 s3 s4 s5 s6 s7

00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000

t8 t9 k0 k1 gp sp s8 ra

00000000 00000000 00000000 00000000 00000000 a30ffc98 00000000 8005aa00

Booting Linux kernel... 导入Linux内核

system\_state: 0 addr:809bc624 系统状态0 地址809bc624

Linux version 3.0.0 (root@ubuntu) (gcc version 4.3.6 20101004 (prerelease) (GCC) ) #11 Mon Sep 6 20:11:26 PDT 2021 linux版本3.0 gcc编译器版本

busclock=100000000, cpuclock=200000000,memsize=64,highmemsize=0

总线时钟 CPU时钟 存储器大小 高速存储器大小

bootconsole [early0] enabled oor控制台使能

CPU revision is: 00004220 (ICT Loongson-1b) CPU修订版是00004220龙芯1B

LS232 CPU board S232中央处理器插件

memsize=64,highmemsize=0 存储器大小64M，高速存储器为0

Determined physical RAM map: 确定的RAM物理映射

memory: 04000000 @ 00000000 (usable) 存储器可用区间

Zone PFN ranges: Zone PFN范围

Normal 0x00000000 -> 0x00004000 正常情况下

Movable zone start PFN for each node 可动区启动每个节点的PFN

early\_node\_map[1] active PFN ranges 早期节点图，使能PFN范围

0: 0x00000000 -> 0x00004000

Built 1 zonelists in Zone order, mobility grouping on. Total pages: 16256

按Zone顺序构建一个·Zone列表，移动分组打开，总页码16256

Kernel command line: root=/dev/mtdblock1 console=btys5,115200 rootfstype=yaffs2

内核命令行：根，控制台，根文件系统类型

PID hash table entries: 256 (order: -2, 1024 bytes) PID哈希表项

Dentry cache hash table entries: 8192 (order: 3, 32768 bytes)

Inode-cache hash table entries: 4096 (order: 2, 16384 bytes)

available.

Primary instruction cache 8kB, VIPT, 2-way, linesize 32 bytes. 主要指令高速缓冲存储器

Primary data cache 8kB, 2-way, VIPT, no aliases, linesize 32 bytes主要数据高速缓冲存储器

Memory: 53836k/65536k available (6583k kernel code, 11700k reserved, 1673k data, 324k init, 0k highmem) 存储器53836k/65536k可用，6583k内核代码，11700k保留的，1673k数据，324k初始化，0K高速存储器·

SLUB: Genslabs=9, HWalign=32, Order=0-3, MinObjects=0, CPUs=1, Nodes=1

NR\_IRQS:256

Console: colour dummy device 80x25 控制台：彩色虚拟设备80\*25

Calibrating delay loop... 199.06 BogoMIPS (lpj=995328) · 延迟回路存储

pid\_max: default: 32768 minimum: 301 PID最大最小值

Security Framework initialized 安全框架初始化

Mount-cache hash table entries: 512 多高速缓冲存储器哈希表项目

ftrace: allocating 17304 entries in 34 pages 使用：在34叶分配17304条目

devtmpfs: initialized devtmpfs初始化

NET: Registered protocol family 16 网络：注册协议的家庭16

open gmac0 close gmac1. 打开gmac0关闭gmac1

bio: create slab <bio-0> at 0

SCSI subsystem initialized SCSI子系统初始化

usbcore: registered new interface driver usbfs USB核心，注册新的接口程序

usbcore: registered new interface driver hub

usbcore: registered new device driver usb

cfg80211: Calling CRDA to update world regulatory domain

呼吁·CRDA更新世界监管领域

Switching to clocksource MIPS 切换到时钟源MIPS

Switched to NOHz mode on CPU #0 CPU切换到NOHz模式

NET: Registered protocol family 2 网络：注册协议的家庭2

IP route cache hash table entries: 1024 (order: 0, 4096 bytes) IP路由缓存哈希表项

TCP established hash table entries: 2048 (order: 2, 16384 bytes) 已建立的哈希表项

TCP bind hash table entries: 2048 (order: 1, 8192 bytes) 绑定哈希表项

TCP: Hash tables configured (established 2048 bind 2048) 哈希表项配置

TCP reno registered 雷诺注册

UDP hash table entries: 256 (order: 0, 4096 bytes) 哈希表项

UDP-Lite hash table entries: 256 (order: 0, 4096 bytes) 哈希表项

NET: Registered protocol family 1 网络：注册协议的家庭1

RPC: Registered named UNIX socket transport module. 已注册的套接字传输模块

RPC: Registered udp transport module. 已注册的传输模块

RPC: Registered tcp transport module. 已注册的传输模块

RPC: Registered tcp NFSv4.1 backchannel transport module. 已注册的反馈传输模块

audit: initializing netlink socket (disabled) 初始化网络连接插孔

type=2000 audit(1.120:1): initialized 类型、审核、初始化

VFS: Disk quotas dquot\_6.5.2 虚拟文件系统，磁盘配额

Dquot-cache hash table entries: 1024 (order 0, 4096 bytes) 高速缓冲存储器哈希表项目

nfs4filelayout\_init: NFSv4 File Layout Driver Registering... 文件布局驱动程序注册

Installing knfsd (copyright (C) 1996 [okir@monad.swb.de](mailto:okir@monad.swb.de)). 安装

NTFS driver 2.1.30 [Flags: R/W]. 文件系统驱动

JFFS2 version 2.2. (NAND) © 2001-2006 Red Hat, Inc.

msgmni has been set to 105 msgmni 已设置为105

alg: No test for stdrng (krng) 没有对stdring进行测试

Block layer SCSI generic (bsg) driver version 0.4 loaded (major 253)

io scheduler noop registered IO等待调度程序注册

io scheduler deadline registered IO截止时间调度程序注册

io scheduler cfq registered (default) IO队列调度程序注册

Serial: 8250/16550 driver, 6 ports, IRQ sharing disabled

序列号，驱动，端口，中断请求禁止分享

serial8250.0: ttyS0 at MMIO 0xbfe40000 (irq = 2) is a 16550A ttyS0内存映射

serial8250.0: ttyS1 at MMIO 0xbfe44000 (irq = 3) is a 16550A ttyS1内存映射

serial8250.0: ttyS2 at MMIO 0xbfe48000 (irq = 4) is a 16550A ttyS2内存映射

serial8250.0: ttyS3 at MMIO 0xbfe4c000 (irq = 5) is a 16550A ttyS3内存映射

serial8250.0: ttyS4 at MMIO 0xbfe6c000 (irq = 29) is a 16550A ttyS4内存映射

serial8250.0: ttyS5 at MMIO 0xbfe7c000 (irq = 30) is a 16550A ttyS5内存映射

brd: module loaded 模块加载

loop: module loaded 模块加载

NAND device: Manufacturer ID: 0x00, Chip ID: 0xf1 (Unknown NAND 128MiB 3,3V 8-bit)

NAND内存设备，制造商ID，芯片ID，128M，3.3V，8位

NAND\_ECC\_NONE selected by board driver. This is not recommended !!

NAND\_ECC\_NONE由板驱动选择，不推荐这样做

Scanning device for bad blocks 扫描块设备的坏块

Creating 3 MTD partitions on "mtd0": 在mtd0创建3个磁盘分区

0x000000000000-0x000000e00000 : "kernel" 内核

0x000000e00000-0x000007500000 : "os" 操作系统

0x000007500000-0x000008000000 : "data" 数据

loongson 1B spi probe begin 龙芯1B串行外设接口检测开始

SPI IRQ mode 串行外设接口中断请求模式

SPI master IRQ num = 8 串行外设接口主设备中断请求号

loongson 1B spi probe done 龙芯1B串行外设接口检测完毕

STMMAC driver: STMMAC驱动

platform registration... 平台注册

done! 完成

DWMAC1000 - user ID: 0x11, Synopsys ID: 0x37 用户ID，美国新思公司ID

eth0 - (dev. name: stmmaceth - id: 0, IRQ #34 以太网ID，中断请求

IO base addr: 0xbfe10000) IO端口基址

STMMAC MII Bus: probed STMMAC MII总线：搜索

eth0: PHY ID 0181b8a0 at 17 IRQ 1 (0:11) active 以太网物理地址，中断请求1，使能

rtw driver version=v3.3.2\_3192.20120103

usbcore: registered new interface driver rtl8192cu 注册新的接口驱动

usbcore: registered new interface driver zd1211rw 注册新的接口驱动

usbcore: registered new interface driver rt2500usb 注册新的接口驱动

usbcore: registered new interface driver rt73usb 注册新的接口驱动

usbcore: registered new interface driver rt2800usb 注册新的接口驱动

ehci\_hcd: USB 2.0 'Enhanced' Host Controller (EHCI) Driver

USB2.0：“增强的“主机控制器（EHCI）驱动器

Initializing USB Mass Storage driver... 初始化USB Mass Storage驱动

usbcore: registered new interface driver usb-storage 注册新的接口驱动

USB Mass Storage support registered. USB大容量存储支持注册

mousedev: PS/2 mouse device common for all mice PS/2鼠标设备用于所有鼠标

ls1b rtc init 龙芯1B实时时钟初始化

ls1b-rtc ls1b-rtc: rtc core: registered ls1b-rtc as rtc0 RTC选中rtc0

ls1b-rtc ls1b-rtc: LS1B RTC at bfe64020 irq 26 RTC中断请求

i2c /dev entries driver I2C驱动安装

i2c-ls1b init I2C初始化

i2c-ls1b probe I2C采样器

i2c-ls1b probe ok I2C采样器就绪

Linux video capture interface: v2.00 Linux视频捕捉界面2.0

gspca: v2.13.0 registered gspca注册

usbcore: registered new interface driver zc3xx 注册新的接口驱动

usbcore: registered new interface driver usbhid 注册新的接口驱动

usbhid: USB HID core driver USB主机接口设备核心驱动

TCP cubic registered TCP立方注册

Initializing XFRM netlink socket 初始化XFRM网络连接套接字

NET: Registered protocol family 17 网络：注册协议的家庭17

lib80211: common routines for IEEE802.11 drivers IEEE802.11驱动程序的通用例程

Registering the dns\_resolver key type 注册dns解析器密钥类型

turn off boot console early0 尽早关闭引导控制台

Welcome to Buildroot 欢迎来到Buildroot

buildroot login: root Buildroot登录

# ls

dpdk.sh dumpe1000.sh

#