PMON> ifconfig syn0

ip:192.168.31.123

netmask:255.255.255.0

boradcast:255.255.255.0

status:up running

PMON> ping 192.168.31.163

PING 192.168.31.163 (192.168.31.163): 56 data bytes

64 bytes from 192.168.31.163: icmp\_seq=0 ttl=128 time=20.388 ms

64 bytes from 192.168.31.163: icmp\_seq=1 ttl=128 time=3.729 ms

64 bytes from 192.168.31.163: icmp\_seq=2 ttl=128 time=3.241 ms

64 bytes from 192.168.31.163: icmp\_seq=3 ttl=128 time=3.438 ms

64 bytes from 192.168.31.163: icmp\_seq=4 ttl=128 time=3.227 ms

07fe0000 mtd\_erase work done! PMON> devcp tftp://192.168.31.163/vmlinux-fb /dev/mtd0 10084980PMON> set al /dev/mtd0 | PMON> g console=ttyS3,115200 rdinit=/sbin/init zero at v0 v1 a0 a1 a2 a3 00000000 00000000 00000000 00000000 00000004 a3dffcf8 a3dffd0c 800c40d0 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 a3dffcd8 00000000 8007c6e8

===ioctl1 sifflags

synopGMAC\_linux\_close

Memory allocated a3e0c000 for Rx Desriptors (ring) is given back

Exception Cause=reserved instruction, SR=0x00000002,

PMON2000 MIPS Initializing. Standby...

ERRORPC=00000000 CONFIG=80000480

PRID=00004220

DDR2 config begin\_2

DDR2 config end

Init caches...

godson1 caches found

Init caches done, cfg = 80000480

press gb to boot

presss h for help

end test

Copy PMON to execute location...

a1050000

copy text section done.

Copy PMON to execute location done.

sp=80ffc000Uncompressing Bios...........................OK,Booting Bios

FREQ

FREI

DONE

DEVI

ENVI

MAPV

in envinit

NVRAM@82fff8b0

STDV

80100000: memory between 82fff400-83000000 is already been allocated,heap is a lready above this point

SBDD

DINI

==gpio: gpio status 0

NETI

RTCL

begin fb\_init

enter dc\_init...

frame buffer addr: 2000000

framebuffer Cursor Configuration

framebuffer Cursor Address

framebuffer Cursor Location

framebuffer Cursor Background

what hell is this register for ?

display controller reg config complete!

cfb\_console init,fb=a2000000

Video: Drawing the logo ...

CONSOLE\_SIZE 563200

after fb\_init

====before configure

in configure

mainbus0 (root)

localbus0 at mainbus0

syn0 at localbus0Now Going to Call register\_netdev to register the network inter face for GMAC core

DATA after Reset = 00020101

Now Registering the netdevice

in if attach

register poll interrupt: gmac 0

sdcard0 at localbus0ohci0 at localbus0

-----lohci\_atttch------

OHCI 83e02800 initialized ok

drive at ohci0 devnum 2, Product USB2.0 Hub

not configured

drive at ohci0 devnum 1, Product OHCI Root Hub

not configured

loopdev0 at mainbus0out configure

====before init ps/2 kbd

devconfig done.

ifinit done.

domaininit done.

init\_proc....

network configure 'syn0:192.168.31.123'

===phy FULLDUPLEX MODE

Link UP data=00000022

Link is up in FULL DUPLEX mode

Link is with 100M Speed

bootp=8000bc2c

DATA after Reset = 00020101

Version = 0x1137

The data read from 800f0700 is bfe10020

MacAddr = 0x0 0x55 0x7b 0xb5 0x7d 0xf7

Total size of memory required for Tx Descriptors in Ring Mode = 0x00000600

===Tx first\_desc: a3e0b800

total size of memory required for Rx Descriptors in Ring Mode = 0x00000c00

===phy FULLDUPLEX MODE

DMA status reg = 0x0 before cleared!

DMA status reg = 0x0 after cleared!

===phy FULLDUPLEX MODE

==arp\_ifinit done

HSTI

SYMI

SBDE

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Configuration [FCR,EL,NET]

Version: PMON2000 2.1 (ls1b) #6: 2021年09月10日 11:46:41 .

Supported loaders [srec, elf, bin]

Supported filesystems [sdcard, mtd, net, fs/yaffs2, fat, fs, disk, socket, tty, ram]

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CPU GODSON1 @ 200.00 MHz / Bus @ 99.99 MHz

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

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

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

BEV1

BEV0

BEV in SR set to zero.

NAND DETE

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

Scanning device for bad blocks

NANDFlash info:

erasesize 131072 B

writesize 2048 B

oobsize 64 B | AUTO

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

Press any other key to abort. 00

Loading file: /dev/mtd0 (elf)

0x80200000/10026804 + 0x80b8ff34/258204(z) +

Entry address is 802042a0

g root=/dev/hda1 console=tty

zero at v0 v1 a0 a1 a2 a3

00000000 00000000 00000000 00000000 00000004 a3dffd00 a3dffd14 800c40d0

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 a3dffce0 00000000 8007c6e8

===ioctl1 sifflags

synopGMAC\_linux\_close

Memory allocated a3e0c000 for Rx Desriptors (ring) is given back

Linux version 2.6.32.13 (root@weirdo-X555LI) (gcc version 4.3.6 20101004 (prerel ease) (GCC) ) #35 Fri Oct 8 16:04:38 CST 2021

busclock=99993600, cpuclock=200000000, memsize=64, highmemsize=0

bootconsole [early0] enabled

CPU revision is: 00004220 (ICT Loongson-232)

Determined physical RAM map:

memory: 04000000 @ 00000000 (usable)

Initrd not found or empty - disabling initrd

Zone PFN ranges:

Normal 0x00000000 -> 0x00001000

Movable zone start PFN for each node

early\_node\_map[1] active PFN ranges

0: 0x00000000 -> 0x00001000

Built 1 zonelists in Zone order, mobility grouping off. Total pages: 4088

Kernel command line: root=/dev/hda1 console=tty mtdparts=nand-flash:10M@0(kernel )ro,-(rootfs) mtdparts=nand-flash:10M@0(kernel)ro,-(rootfs)

PID hash table entries: 256 (order: -4, 1024 bytes)

Dentry cache hash table entries: 8192 (order: 1, 32768 bytes)

Inode-cache hash table entries: 4096 (order: 0, 16384 bytes)

Primary instruction cache 8kB, VIPT, 2-way, linesize 32 bytes.

Primary data cache 8kB, 2-way, VIPT, no aliases, linesize 32 bytes

Memory: 52832k/65536k available (4619k kernel code, 12704k reserved, 1206k data, 3952k init, 0k highmem)

Hierarchical RCU implementation.

NR\_IRQS:256

Console: colour dummy device 80x25

console [tty0] enabled, bootconsole disabled