Write to address = 0xd00e00a0, data = 0x00000000 (mask = 0x00000000) - old value

= 0x00000000 ==> new value 0x00000000

Write to address = 0xd00e00a4, data = 0x00000040 (mask = 0x00000000) - old value

= 0x30840000 ==> new value 0x30840040

Write to address = 0xd00e0178, data = 0x00000223 (mask = 0x00000000) - old value

= 0x0000022f ==> new value 0x0000022f

<---- Exit comphy\_sata\_power\_up

SATA PHY init succeed

No SDIO/eMMC node in DT

<---- Exit comphy\_dedicated\_phys\_init

<---- Exit comphy\_a3700\_init

<---- Exit comphy\_init

U-Boot 2015.01-00516-gb575f34-dirty (Nov 18 2015 - 22:52:21) Marvell version: 2

015\_T3.0.eng\_drop\_v5

I2C: ready

DRAM: 512 MiB

Board: DB0-MV-ARMADALP

CPU @ 200 [MHz]

L2 @ 800 [MHz]

TClock @ 200 [MHz]

DDR @ 200 [MHz]

Now running in RAM - U-Boot at: 1ff67000

U-Boot DT blob at : 000000001fa54530

MMC: XENON-SDHCI: 0

SF: Detected N25Q128A with page size 256 Bytes, erase size 64 KiB, total 16 MiB

\*\*\* Warning - bad CRC, using default environment

advk\_pcie\_pio\_read\_config(225): wait for PIO time out

advk\_pcie\_pio\_read\_config(225): wait for PIO time out

PCIE-0: Bus(0) Link width(x1) Speed(2.5GHz)

SCSI: ahci\_host\_init: start

cap 0x6237ff20 port\_map 0x1 n\_ports 1

SATA link 0 timeout.

HOST\_CTL 0x80000000

HOST\_CTL 0x80000002

AHCI 0001.0300 32 slots 1 ports 6 Gbps 0x1 impl SATA mode

flags: ncq led only pmp fbss pio slum part sxs

scanning bus for devices...

Enter ahci\_device\_data\_io: for port 0

No Link on port 0!

scsi\_ahci: SCSI inquiry command failure.

SCSI command 0x12 ret errno -5

Enter ahci\_device\_data\_io: for port 1

No Link on port 1!

scsi\_ahci: SCSI inquiry command failure.

SCSI command 0x12 ret errno -5

Enter ahci\_device\_data\_io: for port 2

Invalid port number 2

scsi\_ahci: SCSI inquiry command failure.

SCSI command 0x12 ret errno -5

Enter ahci\_device\_data\_io: for port 3

Invalid port number 3

scsi\_ahci: SCSI inquiry command failure.

SCSI command 0x12 ret errno -5

Enter ahci\_device\_data\_io: for port 4

Invalid port number 4

scsi\_ahci: SCSI inquiry command failure.

SCSI command 0x12 ret errno -5

Enter ahci\_device\_data\_io: for port 5

Invalid port number 5

scsi\_ahci: SCSI inquiry command failure.

SCSI command 0x12 ret errno -5

Enter ahci\_device\_data\_io: for port 6

Invalid port number 6

scsi\_ahci: SCSI inquiry command failure.

SCSI command 0x12 ret errno -5

Enter ahci\_device\_data\_io: for port 7

Invalid port number 7

scsi\_ahci: SCSI inquiry command failure.

SCSI command 0x12 ret errno -5

Found 0 device(s).

Net: advk\_pcie\_pio\_read\_config(225): wait for PIO time out

advk\_pcie\_pio\_read\_config(225): wait for PIO time out

advk\_pcie\_pio\_read\_config(225): wait for PIO time out

neta0

Warning: neta0 MAC addresses don't match:

Address in SROM is 00:33:00:00:00:00

Address in environment is 00:00:00:00:51:81

, neta1

Warning: neta1 using MAC address from net device

Marvell>> sf probe

SF: Detected N25Q128A with page size 256 Bytes, erase size 64 KiB, total 16 MiB

Marvell>> sf erase 0 0x90000

SF: 589824 bytes @ 0x0 Erased: OK

Marvell>> >>wtp

>>wtp

E

>wtp

E

>wtp

Marvell>> help

? - alias for 'help'

base - print or set address offset

bdinfo - print Board Info structure

boot - boot default, i.e., run 'bootcmd'

bootd - boot default, i.e., run 'bootcmd'

bootelf - Boot from an ELF image in memory

booti - boot arm64 Linux Image image from memory

bootm - boot application image from memory

bootp - boot image via network using BOOTP/TFTP protocol

bootvx - Boot vxWorks from an ELF image

cmp - memory compare

cp - memory copy

crc32 - checksum calculation

editenv - edit environment variable

env - environment handling commands

exit - exit script

ext2load- load binary file from a Ext2 filesystem

ext2ls - list files in a directory (default /)

ext4load- load binary file from a Ext4 filesystem

ext4ls - list files in a directory (default /)

ext4size- determine a file's size

ext4write- create a file in the root directory

false - do nothing, unsuccessfully

fatinfo - print information about filesystem

fatload - load binary file from a dos filesystem

fatls - list files in a directory (default /)

fatsize - determine a file's size

fdt - flattened device tree utility commands

fsinfo - print information about filesystems

fsload - load binary file from a filesystem image

go - start application at address 'addr'

help - print command description/usage

i2c - I2C sub-system

ir - ir - Reading and changing internal register values.

loop - infinite loop on address range

ls - list files in a directory (default /)

map - Display address decode windows

md - memory display

mm - memory modify (auto-incrementing address)

mw - memory write (fill)

nm - memory modify (constant address)

pci - list and access PCI Configuration Space

ping - send ICMP ECHO\_REQUEST to network host

printenv- print environment variables

remap - Remap the output address of a window

reset - Perform RESET of the CPU

resetenv- resetenv - reset all variables to default

run - run commands in an environment variable

saveenv - save environment variables to persistent storage

scsi - SCSI sub-system

scsiboot- boot from SCSI device

setenv - set environment variables

sf - SPI flash sub-system

showvar - print local hushshell variables

sspi - SPI utility command

test - minimal test like /bin/sh

tftpboot- boot image via network using TFTP protocol

true - do nothing, successfully

version - print monitor, compiler and linker version

Marvell>>

? - alias for 'help'

base - print or set address offset

bdinfo - print Board Info structure

boot - boot default, i.e., run 'bootcmd'

bootd - boot default, i.e., run 'bootcmd'

bootelf - Boot from an ELF image in memory

booti - boot arm64 Linux Image image from memory

bootm - boot application image from memory

bootp - boot image via network using BOOTP/TFTP protocol

bootvx - Boot vxWorks from an ELF image

cmp - memory compare

cp - memory copy

crc32 - checksum calculation

editenv - edit environment variable

env - environment handling commands

exit - exit script

ext2load- load binary file from a Ext2 filesystem

ext2ls - list files in a directory (default /)

ext4load- load binary file from a Ext4 filesystem

ext4ls - list files in a directory (default /)

ext4size- determine a file's size

ext4write- create a file in the root directory

false - do nothing, unsuccessfully

fatinfo - print information about filesystem

fatload - load binary file from a dos filesystem

fatls - list files in a directory (default /)

fatsize - determine a file's size

fdt - flattened device tree utility commands

fsinfo - print information about filesystems

fsload - load binary file from a filesystem image

go - start application at address 'addr'

help - print command description/usage

i2c - I2C sub-system

ir - ir - Reading and changing internal register values.

loop - infinite loop on address range

ls - list files in a directory (default /)

map - Display address decode windows

md - memory display

mm - memory modify (auto-incrementing address)

mw - memory write (fill)

nm - memory modify (constant address)

pci - list and access PCI Configuration Space

ping - send ICMP ECHO\_REQUEST to network host

printenv- print environment variables

remap - Remap the output address of a window

reset - Perform RESET of the CPU

resetenv- resetenv - reset all variables to default

run - run commands in an environment variable

saveenv - save environment variables to persistent storage

scsi - SCSI sub-system

scsiboot- boot from SCSI device

setenv - set environment variables

sf - SPI flash sub-system

showvar - print local hushshell variables

sspi - SPI utility command

test - minimal test like /bin/sh

tftpboot- boot image via network using TFTP protocol

true - do nothing, successfully

version - print monitor, compiler and linker version

Marvell>>

? - alias for 'help'

base - print or set address offset

bdinfo - print Board Info structure

boot - boot default, i.e., run 'bootcmd'

bootd - boot default, i.e., run 'bootcmd'

bootelf - Boot from an ELF image in memory

booti - boot arm64 Linux Image image from memory

bootm - boot application image from memory

bootp - boot image via network using BOOTP/TFTP protocol

bootvx - Boot vxWorks from an ELF image

cmp - memory compare

cp - memory copy

crc32 - checksum calculation

editenv - edit environment variable

env - environment handling commands

exit - exit script

ext2load- load binary file from a Ext2 filesystem

ext2ls - list files in a directory (default /)

ext4load- load binary file from a Ext4 filesystem

ext4ls - list files in a directory (default /)

ext4size- determine a file's size

ext4write- create a file in the root directory

false - do nothing, unsuccessfully

fatinfo - print information about filesystem

fatload - load binary file from a dos filesystem

fatls - list files in a directory (default /)

fatsize - determine a file's size

fdt - flattened device tree utility commands

fsinfo - print information about filesystems

fsload - load binary file from a filesystem image

go - start application at address 'addr'

help - print command description/usage

i2c - I2C sub-system

ir - ir - Reading and changing internal register values.

loop - infinite loop on address range

ls - list files in a directory (default /)

map - Display address decode windows

md - memory display

mm - memory modify (auto-incrementing address)

mw - memory write (fill)

nm - memory modify (constant address)

pci - list and access PCI Configuration Space

ping - send ICMP ECHO\_REQUEST to network host

printenv- print environment variables

remap - Remap the output address of a window

reset - Perform RESET of the CPU

resetenv- resetenv - reset all variables to default

run - run commands in an environment variable

saveenv - save environment variables to persistent storage

scsi - SCSI sub-system

scsiboot- boot from SCSI device

setenv - set environment variables

sf - SPI flash sub-system

showvar - print local hushshell variables

sspi - SPI utility command

test - minimal test like /bin/sh

tftpboot- boot image via network using TFTP protocol

true - do nothing, successfully

version - print monitor, compiler and linker version

Marvell>> setenv ipaddr `192.168.1.1

Marvell>> setenv serverip 192.168.1.2

Marvell>> tftp u-boot-spl.img

\*\*\* ERROR: `eth1addr' not set

neta0:0 is connected to neta0. Reconnecting to neta0

neta0 Waiting for PHY auto negotiation to complete............ done

Using neta0 device

TFTP from server 192.168.1.2; our IP address is 0.192.168.1; sending through gat

eway 10.4.50.254

Filename 'u-boot-spl.img'.

Load address: 0x2000000

Loading: T T T T T T T

Abort

Marvell>> ping 192.168.1.2

Using neta0 device

ping failed; host 192.168.1.2 is not alive

Marvell>> ping 192.168.1.2

Using neta0 device

ping failed; host 192.168.1.2 is not alive

Marvell>> tftp u-boot-spl.img

Using neta0 device

TFTP from server 192.168.1.2; our IP address is 0.192.168.1; sending through gat

eway 10.4.50.254

Filename 'u-boot-spl.img'.

Load address: 0x2000000

Loading: T T T T T T T

Abort

Marvell>> setenv ipaddr 192.168.1.1

Marvell>>

Marvell>>

Marvell>> tftp u-boot-spl.img

Using neta0 device

TFTP from server 192.168.1.2; our IP address is 192.168.1.1

Filename 'u-boot-spl.img'.

Load address: 0x2000000

Loading: #################################################################

#######################################

163.1 KiB/s

done

Bytes transferred = 531120 (81ab0 hex)

Marvell>> sf erase 0 0x90000

No SPI flash selected. Please run `sf probe'

Marvell>> sf prob

No SPI flash selected. Please run `sf probe'

Marvell>> sf probe

SF: Detected N25Q128A with page size 256 Bytes, erase size 64 KiB, total 16 MiB

Marvell>> sf erase 0 0x90000

SF: 589824 bytes @ 0x0 Erased: OK

Marvell>> sf write 0x2000000 0 0x90000

SF: 589824 bytes @ 0x0 Written: OK

Marvell>>

U-Boot SPL 2015.01-00530-gb29fb79 (Nov 23 2015 - 16:16:36)

COMPHY setup:

Lane # Speed Type

-----------------------------------

0 2.5Gbps PEX0

1 2.5Gbps USB3\_HOST0

----> Enter comphy\_a3700\_init

Initialize serdes number 0

Serdes type = 0x1

----> Enter comphy\_pcie\_power\_up

<---- Exit comphy\_pcie\_power\_up

Initialize serdes number 1

Serdes type = 0xd

----> Enter comphy\_usb3\_power\_up

<---- Exit comphy\_usb3\_power\_up

----> Enter comphy\_dedicated\_phys\_init

No USB node in DT

----> Enter comphy\_sata\_power\_up

<---- Exit comphy\_sata\_power\_up

SATA PHY init succeed

No SDIO/eMMC node in DT

<---- Exit comphy\_dedicated\_phys\_init

<---- Exit comphy\_a3700\_init

----> Enter mvebu\_dram\_init

<---- Exit mvebu\_dram\_init

U-Boot 2015.01-00530-gb29fb79 (Nov 23 2015 - 16:16:36) Marvell version: 2015\_T3

.0.eng\_drop\_v5

I2C: ready

DRAM: 512 MiB

Board: DB0-MV-ARMADALP

CPU @ 200 [MHz]

L2 @ 800 [MHz]

TClock @ 200 [MHz]

DDR @ 200 [MHz]

Now running in RAM - U-Boot at: 1ff58000

U-Boot DT blob at : 000000001fa45520

SF: Detected N25Q128A with page size 256 Bytes, erase size 64 KiB, total 16 MiB

\*\*\* Warning - bad CRC, using default environment

advk\_pcie\_pio\_read\_config(225): wait for PIO time out

advk\_pcie\_pio\_read\_config(225): wait for PIO time out

PCIE-0: Bus(0) Link width(x1) Speed(2.5GHz)

SCSI: SATA link 0 timeout.

AHCI 0001.0300 32 slots 1 ports 6 Gbps 0x1 impl SATA mode

flags: ncq led only pmp fbss pio slum part sxs

scanning bus for devices...

Invalid port number 2

Invalid port number 3

Invalid port number 4

Invalid port number 5

Invalid port number 6

Invalid port number 7

Found 0 device(s).

Net: advk\_pcie\_pio\_read\_config(225): wait for PIO time out

advk\_pcie\_pio\_read\_config(225): wait for PIO time out

advk\_pcie\_pio\_read\_config(225): wait for PIO time out

neta0, neta1

Error: neta1 address not set.

Hit any key to stop autoboot: 0

neta0 Waiting for PHY auto negotiation to complete................. TIMEOUT !

neta0: No link.

Phy 1 not found

PHY reset timed out

\*\*\* ERROR: `serverip' not set

\*\*\* ERROR: `serverip' not set

Bad Linux ARM64 Image magic!

Marvell>>

Marvell>>

U-Boot SPL 2015.01-00530-gb29fb79 (Nov 23 2015 - 16:16:36)

COMPHY setup:

Lane # Speed Type

-----------------------------------

0 2.5Gbps PEX0

1 2.5Gbps USB3\_HOST0

----> Enter comphy\_a3700\_init

Initialize serdes number 0

Serdes type = 0x1

----> Enter comphy\_pcie\_power\_up

<---- Exit comphy\_pcie\_power\_up

Initialize serdes number 1

Serdes type = 0xd

----> Enter comphy\_usb3\_power\_up

<---- Exit comphy\_usb3\_power\_up

----> Enter comphy\_dedicated\_phys\_init

No USB node in DT

----> Enter comphy\_sata\_power\_up

<---- Exit comphy\_sata\_power\_up

SATA PHY init succeed

No SDIO/eMMC node in DT

<---- Exit comphy\_dedicated\_phys\_init

<---- Exit comphy\_a3700\_init

----> Enter mvebu\_dram\_init

<---- Exit mvebu\_dram\_init

U-Boot 2015.01-00530-gb29fb79 (Nov 23 2015 - 16:16:36) Marvell version: 2015\_T3

.0.eng\_drop\_v5

I2C: ready

DRAM: 512 MiB

Board: DB0-MV-ARMADALP

CPU @ 200 [MHz]

L2 @ 800 [MHz]

TClock @ 200 [MHz]

DDR @ 200 [MHz]

Now running in RAM - U-Boot at: 1ff58000

U-Boot DT blob at : 000000001fa45520

SF: Detected N25Q128A with page size 256 Bytes, erase size 64 KiB, total 16 MiB

U-Boot SPL 2015.01-00530-gb29fb79 (Nov 23 2015 - 16:16:36)

COMPHY setup:

Lane # Speed Type

-----------------------------------

0 2.5Gbps PEX0

1 2.5Gbps USB3\_HOST0

----> Enter comphy\_a3700\_init

Initialize serdes number 0

Serdes type = 0x1

----> Enter comphy\_pcie\_power\_up

<---- Exit comphy\_pcie\_power\_up

Initialize serdes number 1

Serdes type = 0xd

----> Enter comphy\_usb3\_power\_up

<---- Exit comphy\_usb3\_power\_up

----> Enter comphy\_dedicated\_phys\_init

No USB node in DT

----> Enter comphy\_sata\_power\_up

<---- Exit comphy\_sata\_power\_up

SATA PHY init succeed

No SDIO/eMMC node in DT

<---- Exit comphy\_dedicated\_phys\_init

<---- Exit comphy\_a3700\_init

----> Enter mvebu\_dram\_init

<---- Exit mvebu\_dram\_init

U-Boot 2015.01-00530-gb29fb79 (Nov 23 2015 - 16:16:36) Marvell version: 2015\_T3

.0.eng\_drop\_v5

I2C: ready

DRAM: 512 MiB

Board: DB0-MV-ARMADALP

CPU @ 200 [MHz]

L2 @ 800 [MHz]

TClock @ 200 [MHz]

DDR @ 200 [MHz]

Now running in RAM - U-Boot at: 1ff58000

U-Boot DT blob at : 000000001fa45520

SF: Detected N25Q128A with page size 256 Bytes, erase size 64 KiB, total 16 MiB

\*\*\* Warning - bad CRC, using default environment

advk\_pcie\_pio\_read\_config(225): wait for PIO time out

advk\_pcie\_pio\_read\_config(225): wait for PIO time out

PCIE-0: Bus(0) Link width(x1) Speed(2.5GHz)

SCSI: SATA link 0 timeout.

AHCI 0001.0300 32 slots 1 ports 6 Gbps 0x1 impl SATA mode

flags: ncq led only pmp fbss pio slum part sxs

scanning bus for devices...

Invalid port number 2

Invalid port number 3

Invalid port number 4

Invalid port number 5

Invalid port number 6

Invalid port number 7

Found 0 device(s).

Net: advk\_pcie\_pio\_read\_config(225): wait for PIO time out

advk\_pcie\_pio\_read\_config(225): wait for PIO time out

advk\_pcie\_pio\_read\_config(225): wait for PIO time out

neta0, neta1

Error: neta1 address not set.

Hit any key to stop autoboot: 0

neta0 Waiting for PHY auto negotiation to complete................. TIMEOUT !

neta0: No link.

Phy 1 not found

PHY reset timed out

\*\*\* ERROR: `serverip' not set

\*\*\* ERROR: `serverip' not set

Bad Linux ARM64 Image magic!

Marvell>>