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STMicroelectronics STb7100 Marusys MSS-5000 Custom board initialisation

STb7100 version 3.x

Built 1 zonelists

Kernel command line: console=ttyAS0,115200 root=/dev/ram0 ramdisk_size=2688 mem=32m bigphysarea=4000 coprocessor_mem=2m@0x04000000,2m@0x04200000

st-coprocessor: Failed to reserve memory at 0x04000000

st-coprocessor: Failed to reserve memory at 0x04200000

PID hash table entries: 256 (order: 8, 4096 bytes)

Calculated peripheral clock value 67126432 differs from sh_pclk value 66000000, fixing..

PLL1 : 531.00MHz

PLL2 : 399.00MHz

ST40 CPU : 265.50MHz

ST40 BUS : 132.75MHz

ST40 PER : 66.37MHz

SLIM : 265.50MHz

ST231 : 399.00MHz

STBUS : 199.50MHz

EMI : 99.75MHz

LMI : 199.50MHz

FSYN0_CHAN1 : 108.008MHz

FSYN0_CHAN2 : 36.866MHz

FSYN0_CHAN3 : 32.768MHz

FSYN1_CHAN1 : 27.002MHz

FSYN1_CHAN2 : 150.008MHz

FSYN1_CHAN3 : 27.002MHz

FSYN1_CHAN4 : 48.000MHz

CLK_PIX_HD : 108.008MHz

CLK_PIX_SD : 27.002MHz

CLK_DISP_HD : 13.501MHz

CLK_DISP_ID : 13.501MHz

CLK_GDP2 : 27.002MHz
CLK_656 : 27.002MHz
CLK_PIPE : 150.008MHz
CLK_PP : 27.002MHz
CLK_IC_150 : 150.008MHz
CLK_DAA : 32.768MHz
CLK_DSS : 36.866MHz
CLK_LPC : 46.875KHz
CLK_BCH_HDMI : 108.008MHz
CLK_TMDS_HDMI: 27.002MHz
CLK_PIX_HDMI : 13.501MHz
CLK_DVP : VIDINCLK
CLK_RTC : 27.002MHz
Console: colour dummy device 80x25
Dentry cache hash table entries: 8192 (order: 3, 32768 bytes)
Inode-cache hash table entries: 4096 (order: 2, 16384 bytes)
Memory: 12344k/32768k available (2586k kernel code, 20380k reserved, 1218k data,
96k init)
Mount-cache hash table entries: 512 (order: 0, 4096 bytes)
CPU: STb710x
checking if image is initramfs...it isn't (no cpio magic); looks like an initrd
Freeing initrd memory: 952k freed
NET: Registered protocol family 16
SCSI subsystem initialized
usbcore: registered new driver usbfs
usbcore: registered new driver hub
SH Virtual Bus initialized
bigphysarea: Allocated 4000 pages at 0x84839000.
JFFS2 version 2.2. (C) 2001-2003 Red Hat, Inc.
Initializing Cryptographic API
Device probe found data for platform device lirc
lirc_dev: IR Remote Control driver registered, at major 61
lirc_dev: lirc_register_plugin: sample_rate: 0
STM LIRC plugin has IRQ 125
Lirc STM: Using IRB mode
STMicroelectronics LIRC driver configured
STPIO layer initialised
Device probe found data for platform device wdt
STM watchdog initialized
STMicroelectronics ASC driver initialized
asc_init: check the clock
ttyAS0 at MMIO 0xb8032000 (irq = 121) is a asc
asc_init: check the clock
ttyAS1 at MMIO 0xb8033000 (irq = 120) is a asc
io scheduler noop registered
io scheduler anticipatory registered
io scheduler deadline registered
io scheduler cfq registered
RAMDISK driver initialized: 16 RAM disks of 2688K size 1024 blocksize
loop: loaded (max 8 devices)
Generic ST boards onboard flash device: 0x01000000 (16.0Mb) at 0x00000000

Onboard_Flash: Found 1 x16 devices at 0x0 in 16-bit bank
Onboard_Flash: Found 1 x16 devices at 0x800000 in 16-bit bank
Amd/Fujitsu Extended Query Table at 0x0040
Onboard_Flash: CFI does not contain boot bank location. Assuming top.
number of CFI chips: 2
cfi_cmdset_0002: Disabling erase-suspend-program due to code brokenness.
Creating 8 MTD partitions on "Onboard_Flash":
0x00000000-0x00020000 : "Boot firmware : 0xA000.0000-0xA001.FFFF"
0x00040000-0x00200000 : "Kernel - 0xA004.0000-0xA01F.FFFF"
0x00200000-0x002a0000 : "Config FS - 0xA020.0000-0xA029.FFFF"
0x002a0000-0x004e0000 : "Root FS- 0xA02A.0000-0xA04D.FFFF"
0x004e0000-0x00ae0000 : "APP_Modules 0xA04E.0000-0xA0AD.FFFF"
0x00ae0000-0x00c00000 : "EmergencyRoot 0xA0AE.0000-0xA0BF.FFFF"
0x00c00000-0x01000000 : "OtherData 0xA0C0.0000-0xA0FF.FFFF"
0x00020000-0x00040000 : "BootConfiguration 0xA002.0000-0xA003.FFFF"
ST40_start_host_control
ST40_start_host_control proceeding
drivers/usb/host/ehci-stcore.c: ehci_hcd (ST40) at 0xb91ffe00,irq 169

ST40-ehci ST40-ehci2: new USB bus registered, assigned bus number 1
ST40-ehci ST40-ehci2: park 0
ST40-ehci ST40-ehci2: USB 0.0 initialized, EHCI 1.00, driver 10 Dec 2004
hub 1-0:1.0: USB hub found
hub 1-0:1.0: 1 port detected
out
Initializing USB Mass Storage driver...
usbcore: registered new driver usb-storage
USB Mass Storage support registered.
i2c /dev entries driver
stssc layer initialized
STMicroelectronics - Coprocessors st231 Init
st231-0 Coprocessor -----
flags 0001 RAM start at 0xa4000000 size 0x00200000
cop. addr 0x04000000
Channels : Not defined
IRQ : not used

st231-1 Coprocessor -----
flags 0001 RAM start at 0xa4200000 size 0x00200000
cop. addr 0x04200000
Channels : Not defined
IRQ : not used

NET: Registered protocol family 2
IP: routing cache hash table of 512 buckets, 4Kbytes
TCP established hash table entries: 2048 (order: 2, 16384 bytes)
TCP bind hash table entries: 2048 (order: 1, 8192 bytes)
TCP: Hash tables configured (established 2048 bind 2048)
NET: Registered protocol family 1
RAMDISK: Compressed image found at block 0
usb 1-1: new high speed USB device using ST40-ehci and address 2

hub 1-1:1.0: USB hub found
hub 1-1:1.0: 4 ports detected
VFS: Mounted root (ext2 filesystem) readonly.
Freeing unused kernel memory: 96k freed
/etc/init.d/rcS running...
**Remounting root file system in read-write mode...mount: Mounting 211.235.241.247
:/ on / failed: Invalid argument
[FAILED]
/etc/rcS.d/S200mountfs: /etc/rcS.d/S200mountfs: 91: cannot create /etc/mtab: Rea
d-only file system
Mounting other file systems...Eep. No valid nodes for ino #1
Eep. No valid nodes for ino #1
[OK]
Bringing up the loopback interface...ifconfig: applet not found
[FAILED]
Setting up hostname...hostname: applet not found
[FAILED]
Setup Ethernet HW Address... : skipped
Setup Ramfs... : skipped
Invoking Telnet Server...
telnetd: applet not found
Telnet Server Started...**

BusyBox v1.1.0 (2006.10.27-04:04+0000) Built-in shell (ash)
Enter 'help' for a list of built-in commands.

button: module license 'unspecified' taints kernel.
DVB-PVR Button Device Driver(by Marusys Co.)

VFD_Driver Init
VFD_Controller Type : NEW Kathrein VFD
SysConf device Init
mknod: /dev/stpio_dev: File exists
mknod: /dev/vfd: File exists
sh: .: 1: Can't open /app/update.sh
VFD_Driver Init
VFD PIO Already Opened
VFD PIO Already Opened
VFD PIO Already Opened
VFD_Controller Type : NEW Kathrein VFD
START_UPDATE
One More Try!
umount: Couldn't umount /mnt/usb/0: Invalid argument
Rebooting
Rebooting
umount: none busy - remounted read-only
umount: ramfs busy - remounted read-only
umount: Cannot remount ramfs read-only
umount: Couldn't umount /var: No such file or directory
umount: /proc busy - remounted read-only

The system is going down NOW !!
Sending SIGTERM to all processes.
Sending SIGKILL to all processes.
Please stand by while rebooting the system.
Res

Board: STb7100-mboard

U-Boot 1.1.2 (STLINUX_2_0p1) (Feb 23 2008 - 17:07:31)

DRAM: 32 MB
write time out = 1, clock = 40
write time out = 1, clock = 40
Flash: 16 MB
In: serial
Ot: serial
Err: serial
pll0 freq 531
pll1 freq 399
Net: VFD_Driver Init
VFD_Controller Type : NEW Kathrein VFD
board_version = 0
Button_value = 7
Hit any key to stop autoboot: 0
Booting image at a0040000 ...
Image Name: Linux 2.6
Image Type: SH-4 Linux Kernel Image (gzip compressed)
Data Size: 1714625 Bytes = 1.6 MB
Load Address: 84401000
Entry Point: 84402000
Verifying Checksum ... OK
Uncompressing Kernel Image ... OK

Starting kernel console=ttyAS0,115200 root=/dev/mtdblock3 mem=32m
igphysarea=1024 coprocessor_mem=2m@0x04000000,2m@0x04200000 - 0x00000000 - 0 ...

Linux version 2.6.17.14_stm22_0037 (kdhong@linux.localdomain) (gcc version 4.1.1
(STMicroelectronics/Linux Base 4.1.1-23)) #124 PREEMPT Fri Nov 30 14:10:08 KST
2007

STMicroelectronics STb7100 Reference board initialisation
STb7100 version 3.x

Built 1 zonelists

Kernel command line: console=ttyAS0,115200 root=/dev/mtdblock3 mem=32m
igphysarea=1024 coprocessor_mem=2m@0x04000000,2m@0x04200000

st-coprocessor: Failed to reserve memory at 0x04000000

st-coprocessor: Failed to reserve memory at 0x04200000

PID hash table entries: 256 (order: 8, 1024 bytes)

Using tmu for system timer

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

Inode-cache hash table entries: 2048 (order: 1, 8192 bytes)
Memory: 29008k/32768k available (2849k kernel code, 3740k reserved, 360k data, 8
8k init)
PVR=04061100 CVR=30480000 PRR=00009100
I-cache : n_ways=2 n_sets=256 way_incr=8192
I-cache : entry_mask=0x00001fe0 alias_mask=0x00001000 n_aliases=2
D-cache : n_ways=2 n_sets=512 way_incr=16384
D-cache : entry_mask=0x00003fe0 alias_mask=0x00003000 n_aliases=4
Mount-cache hash table entries: 512
CPU: STb710x
NET: Registered protocol family 16
SCSI subsystem initialized
usbcore: registered new driver usbfs
usbcore: registered new driver hub
NET: Registered protocol family 2
IP route cache hash table entries: 256 (order: -2, 1024 bytes)
TCP established hash table entries: 1024 (order: 0, 4096 bytes)
TCP bind hash table entries: 512 (order: -1, 2048 bytes)
TCP: Hash tables configured (established 1024 bind 512)
TCP reno registered
JFFS2 version 2.2. (NAND) (C) 2001-2003 Red Hat, Inc.
Initializing Cryptographic API
io scheduler noop registered
io scheduler anticipatory registered (default)
io scheduler deadline registered
io scheduler cfq registered
Device probe found data for platform device lirc
lirc_dev: IR Remote Control driver registered, at major 61
lirc_dev: lirc_register_plugin: sample_rate: 0
lirc_dev: lirc_register_plugin: plugin lirc_stm owner 00000000
STM LIRC plugin has IRQ 125
Lirc STM: Using IRB mode
STMicroelectronics LIRC driver configured
STPIO layer initialised
VFD_Controller Type : NEW Kathrein VFD
STMicroelectronics ASC driver initialized
ttyAS0 at MMIO 0xb8032000 (irq = 121) is a asc
ttyAS1 at MMIO 0xb8033000 (irq = 120) is a asc
RAMDISK driver initialized: 16 RAM disks of 4096K size 1024 blocksize
s_env_mac[0] = 0
s_env_mac[1] = 0
s_env_mac[2] = :
s_env_mac[3] = 5
s_env_mac[4] = 0
s_env_mac[5] = :
s_env_mac[6] = f
s_env_mac[7] = d
s_env_mac[8] = :
s_env_mac[9] = f
s_env_mac[10] = f
s_env_mac[11] = :


```
s_env_mac[12] = 7
s_env_mac[13] = 8
s_env_mac[14] = :
s_env_mac[15] = c
s_env_mac[16] = e
get ether addr = 0, 50, fd, ff, 78, ce
mac hi address = ce78, lowaddress = fffd5000
SMSC: --> init_module()
SMSC: Driver Version = 1.21
SMSC: Compiled: Aug 11 2007, 14:46:15
SMSC: Platform: ST40 STMICRO r3
SMSC: Driver Parameters
SMSC: lan_base      = 0x00000000, driver will decide
SMSC: bus_width    = 0, driver will autodetect
SMSC: link_mode     = 0x7F, 10HD,10FD,100HD,100FD,ASYMP,SYMP,ANEG
SMSC: irq          = 2
SMSC: int_deas     = 0xFFFFFFFF, use platform default
SMSC: irq_pol      = 1, IRQ output is active high
SMSC: irq_type     = 1, IRQ output is Push-Pull driver
SMSC: rx_dma       = 256, RX will use PIO
SMSC: tx_dma       = 256, TX will use PIO
SMSC: dma_threshold = 200
SMSC: mac_addr_hi16 = 0x0000CE78
SMSC: mac_addr_lo32 = 0xFFFFD5000
SMSC: debug_mode   = 0x00000007
SMSC: tx_fifo_sz   = 0x00050000
SMSC: afc_cfg      = 0xFFFFFFFF, driver will decide
SMSC: tasklets     = 0, Tasklets disabled
SMSC: phy_addr     = 0xFFFFFFFF, Use internal phy
SMSC: max_throughput = 0xFFFFFFFF, Use platform default
SMSC: max_packet_count = 0xFFFFFFFF, Use platform default
SMSC: packet_cost  = 0xFFFFFFFF, Use platform default
SMSC: burst_period = 0xFFFFFFFF, Use platform default
SMSC: max_work_load = 0xFFFFFFFF, Use platform default
SMSC: -->Smsc911x_init(dev=0x846E45CC)
SMSC: --> Platform_Initialize
SMSC: Lan Base at 0xA2000000
SMSC: <-- Platform_Initialize
SMSC: dwLanBase=0xA2000000
SMSC: LAN9115 identified, dwIdRev==0x01150002
SMSC: FPGA_REV == 0x00000000
SMSC: <--Smsc911x_init(), result=0
SMSC: Interface Name = "eth0"
SMSC: <-- init_module()
nwhw_config: device not found
ata1: SATA max UDMA/133 cmd 0xB9209000 ctl 0xB9209820 bmdma 0x0 irq 170
ata1: SATA link down (SStatus 0)
scsi0 : sata_stm
Generic ST boards onboard flash device: 0x01000000 (16.0Mb) at 0x00000000
Onboard_Flash: Found 1 x16 devices at 0x0 in 16-bit bank
Onboard_Flash: Found 1 x16 devices at 0x800000 in 16-bit bank
```

```

Amd/Fujitsu Extended Query Table at 0x0040
Onboard_Flash: CFI does not contain boot bank location. Assuming top.
number of CFI chips: 2
cfi_cmdset_0002: Disabling erase-suspend-program due to code brokenness.
Creating 8 MTD partitions on "Onboard_Flash":
0x00000000-0x00020000 : "Boot firmware :    0xA000.0000-0xA001.FFFF"
0x00040000-0x00200000 : "Kernel -      0xA004.0000-0xA01F.FFFF"
0x00200000-0x002a0000 : "Config FS -   0xA020.0000-0xA029.FFFF"
0x002a0000-0x004e0000 : "Root FS-     0xA02A.0000-0xA04D.FFFF"
0x004e0000-0x00ae0000 : "APP_Modules   0xA04E.0000-0xA0AD.FFFF"
0x00ae0000-0x00c00000 : "EmergencyRoot 0xA0AE.0000-0xA0BF.FFFF"
0x00c00000-0x01000000 : "OtherData    0xA0C0.0000-0xA0FF.FFFF"
0x00020000-0x00040000 : "BootConfiguration 0xA002.0000-0xA003.FFFF"
ST40_start_host_control
ST40_start_host_control proceeding
ST40-ehci ST40-ehci.2: ST EHCI Host Controller
ST40-ehci ST40-ehci.2: new USB bus registered, assigned bus number 1
ST40-ehci ST40-ehci.2: irq 169, io mem 0xb91ffe00
ST40-ehci ST40-ehci.2: USB 0.0 started, EHCI 1.00, driver 10 Dec 2004
usb usb1: Product: ST EHCI Host Controller
usb usb1: Manufacturer: Linux 2.6.17.14_stm22_0037 ehci_hcd
usb usb1: SerialNumber: STB7100_EHCI
usb usb1: configuration #1 chosen from 1 choice
hub 1-0:1.0: USB hub found
hub 1-0:1.0: 1 port detected
Initializing USB Mass Storage driver...
usbcore: registered new driver usb-storage
USB Mass Storage support registered.
usbcore: registered new driver libusual
pegasus: v0.6.13 (2005/11/13), Pegasus/Pegasus II USB Ethernet driver
usb 1-1: new high speed USB device using ST40-ehci and address 2
usb 1-1: Product: USB2.0 Hub
usb 1-1: configuration #1 chosen from 1 choice
hub 1-1:1.0: USB hub found
hub 1-1:1.0: 4 ports detected
usbcore: registered new driver pegasus
usbcore: registered new driver asix
usbcore: registered new driver cdc_ether
usbcore: registered new driver net1080
usbcore: registered new driver zaurus
mice: PS/2 mouse device common for all mice
i2c /dev entries driver
stssc layer initialized
STMicroelectronics - Coprocessors st231 Init
st231-0 Coprocessor -----
  flags 0001 RAM start at 0xa4000000 size 0x00200000
        cop. addr 0x04000000
  Channels : Not defined
  IRQ      : not used
-----
st231-1 Coprocessor -----

```

flags 0001 RAM start at 0xa4200000 size 0x00200000
cop. addr 0x04200000

Channels : Not defined

IRQ : not used

TCP bic registered

TCP highspeed registered

NET: Registered protocol family 1

NET: Registered protocol family 17

VFS: Cannot open root device "mtdblock3

igphysarea=1024" or unknown-block(0,0)

Please append a correct "root=" boot option

Kernel panic - not syncing: VFS: Unable to mount root fs on unknown-block(0,0)