Diese war der erste Versuch vom 22.12.09!!!

```
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
Out:   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
STB7100-REF> set serverip 192.168.0.197;set gatewayip 192.168.0.1;set ipaddr 192
.168.0.190;set netmask 255.255.255.0;tftp a4100000 u986.flash;tftp a4900000 u987
.flash
Using MAC Address 00:50:FD:FF:00:2C
TFTP from server 192.168.0.197; our IP address is 192.168.0.190
Filename 'u986.flash'.
Load address: 0xa4100000
Loading: T #################################################################
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```

```
	##############
done
Bytes transferred = 8388608 (800000 hex)
Using MAC Address 00:50:FD:FF:00:2C
TFTP from server 192.168.0.197; our IP address is 192.168.0.190
Filename 'u987.flash'.
Load address: 0xa4900000
Loading: T #################################################################
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	##############
done
Bytes transferred = 8388608 (800000 hex)
STB7100-REF> prot off all;erase a0000000 a001FFFF;cp.b a4100000 a0000000 0x20000
;erase a0020000
Un-Protect Flash Bank # 1
.....
.....Un-Protect Flash Bank # 2
.....
..... done

.. done
Erased 2 sectors
Copy to Flash... .done
Usage:
erase   - erase FLASH memory

STB7100-REF>
Un-Protect Flash Bank # 1
```

.....
.....Un-Protect Flash Bank # 2
.....
..... done

.. done
Erased 2 sectors
Copy to Flash... .done
Usage:
erase   - erase FLASH memory

STB7100-REF> boot
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=41m bigphysarea=26
00 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=41m bigphysar
ea=2600 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: 8192 (order: 3, 32768 bytes)
Inode-cache hash table entries: 4096 (order: 2, 16384 bytes)
Memory: 27704k/41984k available (2849k kernel code, 14260k reserved, 360k data,
88k 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: 512 (order: -1, 2048 bytes)
TCP established hash table entries: 2048 (order: 1, 8192 bytes)
TCP bind hash table entries: 1024 (order: 0, 4096 bytes)
TCP: Hash tables configured (established 2048 bind 1024)
TCP reno registered
bigphysarea: Allocated 2600 pages at 0x847b9000.
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] = 0
s_env_mac[13] = 0
s_env_mac[14] = :
s_env_mac[15] = 2
s_env_mac[16] = c
get ether addr = 0, 50, fd, ff, 0, 2c
mac hi address = 2c00, 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   = 0x00002C00
SMSC:   mac_addr_lo32   = 0xFFFD5000
SMSC:   debug_mode      = 0x00000007
SMSC:   tx_fif_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: Mounted root (cramfs filesystem) readonly.
Freeing unused kernel memory: 88k freed
/etc/init.d/rcS running...
Remounting root file system in read-write mode...mount: Can't find / in /etc/fst
```

```
ab
: Success
mount: Mounting / on (null) failed: Success
[FAILED]
/etc/rcS.d/S200mountfs: /etc/rcS.d/S200mountfs: 91: cannot create /etc/mtab: Rea
d-only file system
mount: Can't find / in /etc/fstab
: Success
mount: Mounting / on (null) failed: Success
Mounting other file systems...[  OK  ]
Bringing up the loopback interface...[  OK  ]
Setting up hostname...(none)
[  OK  ]


BusyBox v1.1.0 (2006.03.02-09:48+0000) Built-in shell (ash)
Enter 'help' for a list of built-in commands.

insmod: /lib/modules/2.6.17.14_stm22_0037: No such file or directory
insmod: vfd_driver.ko: no module by that name found
TestModMgr::CheckTestMode CmdLine = console=ttyAS0,115200 root=/dev/mtdblock3 me
m=41m bigphysarea=2600 coprocessor_mem=2m@0x04000000,2m@0x04200000

CMDLINE = console=ttyAS0,115200 root=/dev/mtdblock3 mem=41m bigphysarea=2600
cop
rocessor_mem=2m@0x04000000,2m@0x04200000

CMDLINE = console=ttyAS0,115200 root=/dev/mtdblock3 mem=41m bigphysarea=2600
cop
rocessor_mem=2m@0x04000000,2m@0x04200000

cannot fine test mode
/config/start.sh exists .... running /config/start.sh
SMSC: -->Smsc911x_open(dev=0x846E45CC)
SMSC: -->Lan_Initialize(dwIntCfg=0x00000011)
SMSC: <--g_GpioSetting set
SMSC: <--Lan_Initialize
SMSC: Testing ISR using IRQ 2
SMSC: ISR passed test using IRQ 2
SMSC: Mac Address is set by parameter to 0x2C00FFFD5000
SMSC: -->Phy_Initialize
SMSC: dwPhyId==0x00C0001C,bPhyModel==0x0D,bPhyRev==0x01
SMSC: Successfully Verified Loop Back Packet
SMSC: Passed Loop Back Test
SMSC: <--Phy_Initialize, result=TRUE
SMSC: Tx will use PIO
SMSC: Rx will use PIO
SMSC_WARNING: Gpt_CancelCallBack: Failed
SMSC: <--Smsc911x_open, result=0
SMSC: Multicast: enable dwBitNum=31,addr=01 00 5E 00 00 01
SMSC_WARNING: Gpt_CancelCallBack: Failed
```

SMSC: Multicast: enable dwBitNum=31,addr=01 00 5E 00 00 01
/config # SMSC_WARNING: Gpt_CancelCallBack: Failed
SMSC: Link is now UP at 100Mbps FD
SMSC: LAN911x: ASYMP,SYMP ,100FD,100HD,10FD ,10HD
SMSC: Partner: ASYMP,SYMP ,100FD,100HD,10FD ,10HD

Diese ist der Versuch vom 23.12.09

Erased 64 sectors
STB7100-REF> setenv ethaddr 00:50:fd:ff:78:ce
STB7100-REF> setenv autoload n
STB7100-REF> setenv serverip 192.168.0.197
STB7100-REF> setenv gatewayip 192.168.0.1
STB7100-REF> setenv ipaddr 192.168.0.190
STB7100-REF> setenv netmask 255.255.255.0
STB7100-REF> setenv defbootargs "console=ttyAS0,115200 root=/dev/mtdblock3 mem=3
2m bigphysarea=1024 coprocessor_mem=2m@0x04000000,2m@0x04200000"
STB7100-REF> setenv bootmtd=set "bootargs ;boot"
STB7100-REF> setenv bootargs "console=ttyAS0,115200 root=/dev/mtdblock3 mem=32m
bigphysarea=1024 coprocessor_mem=2m@0x04000000,2m@0x04200000"
STB7100-REF> setenv filesize
STB7100-REF> setenv monitor_base
STB7100-REF> setenv monitor_len
STB7100-REF> setenv monitor_sec
STB7100-REF> setenv load_addr
STB7100-REF> setenv unprot
STB7100-REF> setenv update
STB7100-REF> setenv bootcmd bootm a0040000
STB7100-REF> saveenv
Saving Environment to Flash...
env buffer crc = f2e1e2a7, data = 85e0000c
..

Un-Protected 2 sectors
Erasing Flash...
.. done
Erased 2 sectors
Writing to Flash... .done
..

Protected 2 sectors
STB7100-REF> loadb a40000000
Ready for binary (kermit) download to 0x40000000 at 115200 bps...
Total Size   = 0x0025fd56 = 2489686 Bytes
Start Addr   = 0x40000000
STB7100-REF> bootm a4000000

```
## Booting image at a4000000 ...
Bad Magic Number
STB7100-REF> bootm a40000000
## Booting image at 40000000 ...
Bad Magic Number
STB7100-REF> bootm a40000000
## Booting image at 40000000 ...
Bad Magic Number
STB7100-REF>

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
Out:   serial
Err:   serial
pll0 freq 531
pll1 freq 399
Net:   VFD_Driver Init
VFD_Controller Type : NEW Kathrein VFD
board_version = 0
Button_value = 6
Boot From Emergency Root File System Upate Appliction
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/mtdblock5 mem=32m bigphysarea=10
24 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/mtdblock5 mem=32m bigphysar
ea=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: 24912k/32768k available (2849k kernel code, 7836k 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
bigphysarea: Allocated 1024 pages at 0x847a1000.
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   = 0xFFFD5000
SMSC:   debug_mode      = 0x00000007
SMSC:   tx_fif_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: Mounted root (cramfs filesystem) readonly.
Freeing unused kernel memory: 88k freed
/etc/init.d/rcS running...
Remounting root file system in read-write mode...[  OK  ]
/etc/rcS.d/S200mountfs: /etc/rcS.d/S200mountfs: 91: cannot create /etc/mtab: Rea
d-only file system
Mounting other file systems...[  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: version magic '2.6.11.12_stm20-33 preempt SH4LE gcc-3.4' should be '2.6.
17.14_stm22_0037 preempt mod_unload SH4LE gcc-4.1'
insmod: cannot insert `/app/button.ko': Invalid module format (-1): Exec format
error
vfd_driver: version magic '2.6.11.12_stm20-33 preempt SH4LE gcc-3.4' should be '
2.6.17.14_stm22_0037 preempt mod_unload SH4LE gcc-4.1'
insmod: cannot insert `/app/vfd_driver.ko': Invalid module format (-1): Exec for
mat error
sysconf: version magic '2.6.11.12_stm20-33 preempt SH4LE gcc-3.4' should be '2.6
.17.14_stm22_0037 preempt mod_unload SH4LE gcc-4.1'
insmod: cannot insert `/app/sysconf.ko': Invalid module format (-1): Exec format
 error
mknod: /dev/stpio_dev: File exists
mknod: /dev/vfd: File exists
sh: .: 1: Can't open /app/update.sh
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: ramfs busy - remounted read-only
umount: Cannot remount ramfs read-only
umount: Couldn't umount /var: No such file or directory
The system is going down NOW !!
Sending SIGTERM to all processes.
Sending SIGKILL to all processes.
Please stand by while rebooting the system.
Restar

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
Out: 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 bigphysarea=10
24 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 bigphysar
ea=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: 24912k/32768k available (2849k kernel code, 7836k 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
bigphysarea: Allocated 1024 pages at 0x847a1000.
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   = 0xFFFD5000
SMSC:   debug_mode      = 0x00000007
SMSC:   tx_fif_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.
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pegasus: v0.6.13 (2005/11/13), Pegasus/Pegasus II USB Ethernet driver
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usb 1-1: Product: USB2.0 Hub
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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
attempt to access beyond end of device
mtdblock3: rw=0, want=4612, limit=4608
UDF-fs: No VRS found
No filesystem could mount root, tried:  ext3 ext2 cramfs msdos vfat iso9660 romf
s udf
Kernel panic - not syncing: VFS: Unable to mount root fs on unknown-block(31,3)
```

Ich habe noch viel mehr versuche gestartet, diese aber nicht aufgezeichnet. Was mich verwundert hat ist, das beim zweiten Versuch alles bis zu dem Moment, wo ich dann den USB Stick mit Notfall 1.03 reingesteckt habe und über den Befehl „booten“ starten wollte, nichts ging. Sieht man auch im Protokoll. Dann habe ich einfach über die AN- und Menutasten drücken Methode es versucht, auch nichts. Bin einfach am Ende!