

CTRL-T Bootup Self Test Results:

empeg-car bootstrap v1.00 20000601 (hugo@empeg.com)
If there is anyone present who wants to upgrade the flash, let them speak now,
or forever hold their peace...
0000 empeg-car board test version 0.04 <hugo@empeg.com>
0100 ram test starting
0110 testing ic 1 (0-3mb, low word)
0120 testing ic 2 (0-3mb, high word)
0130 testing ic 3 (4-7mb, low word)
0140 testing ic 4 (4-7mb, high word)
0150 testing ic 19 (8-11mb, low word)
0160 testing ic 32 (8-11mb, high word)
01f0 ram test done
0200 ide detect
0210 command issued
0220 drive id IC25N080ATMR04-0
02f0 ide ok
0300 dsp/i2c test
03f0 dsp/i2c ok
0400 temperature detect
0410 temperature is 25
04f0 temperature ok
0500 usb detect
0510 usb rev 1012
05f0 usb ok
0600 ethernet detect
0610 ethernet rev 334b
06f0 ethernet ok
0700 cs4231 detect
0710 cs4231 rev a0
07f0 cs4231 ok
00f0 tests complete

1ST Boot After Building Drive:

empeg-car bootstrap v1.00 20000601 (hugo@empeg.com)
If there is anyone present who wants to upgrade the flash, let them speak now,
or forever hold their peace...it seems not. Let fly the Penguins of Linux!

e000 v1.04
Copying kernel...
Calling linux kernel...
Uncompressing Linux..... done, booting the kernel.
Linux version 2.2.14-rmk5-np17-empeg49 (mac@aphex.internal.empeg.com) (gcc versi
on 2.95.3 20010315 (release)) #130 Mon Oct 22 18:52:07 BST 2001
Processor: Intel StrongARM-1100 revision 11
NetWinder Floating Point Emulator V0.94.1 (c) 1998 Corel Computer Corp.
empeg-car player (hardware revision 7, serial number 80000278)
Command line: mem=12m
Calibrating delay loop... 207.67 BogoMIPS
Memory: 10968k/12M available (964k code, 20k reserved, 332k data, 4k init)
Dentry hash table entries: 2048 (order 2, 16k)
Buffer cache hash table entries: 16384 (order 4, 64k)
Page cache hash table entries: 4096 (order 2, 16k)
POSIX conformance testing by UNIFIX

Linux NET4.0 for Linux 2.2
Based upon Swansea University Computer Society NET3.039
NET4: Linux TCP/IP 1.0 for NET4.0
IP Protocols: ICMP, UDP, TCP
TCP: Hash tables configured (ehash 16384 bhash 16384)
IrDA (tm) Protocols for Linux-2.2 (Dag Brattli)
Linux-IrDA: IrCOMM protocol (revision:Tue May 18 03:11:39 1999)
ircmm_tty: virtual tty driver for IrCOMM (revision:Wed May 26 00:49:11 1999)
Starting kswapd v 1.5
SA1100 serial driver version 4.27 with no serial options enabled
ttyS00 at 0xf8010000 (irq = 15) is a SA1100 UART
ttyS01 at 0xf8050000 (irq = 17) is a SA1100 UART
ttyS02 at 0xf8030000 (irq = 16) is a SA1100 UART
Signature is 67706d65 'empg'
Scheduling custom logo.
empeg display initialised.
empeg dsp audio initialised
empeg dsp mixer initialised
empeg dsp initialised
empeg audio-in initialised, CS4231A revision a0
empeg remote control/panel button initialised.
empeg usb initialised, PDIUSB12 id 1012
empeg state support initialised 0089/88c1 (save to d0005a00).
empeg RDS driver initialised
empeg power-pic driver initialised (first boot)
RAM disk driver initialized: 16 RAM disks of 4096K size
empeg single channel IDE
Probing primary interface...
hda: IC25N080ATMR04-0, ATA DISK drive
hda: IC25N080ATMR04-0, ATA DISK drive
hda: IC25N080ATMR04-0, ATA DISK drive
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hda: IC25N080ATMR04-0, ATA DISK drive
hda: IC25N080ATMR04-0, ATA DISK drive
ide0 at 0x000-0x007,0x038 on irq 6
hda: IC25N080ATMR04-0, 76319MB w/7884kB Cache, CHS=9729/255/63
empeg-flash driver initialized
smc chip id/revision 0x3349
smc9194.c:v0.12 03/06/96 by Erik Stahlman (erik@vt.edu)

SMC9194: SMC91C94(r:9) at 0x4008000 IRQ:7 INTF:TP MEM:6144b MAC 00:02:d7:10:01:16

Partition check:

hda: hda1 < hda5 hda6 > hda2 hda3 hda4
RAMDISK: ext2 filesystem found at block 0
RAMDISK: Loading 320 blocks [1 disk] into ram disk... done.
EXT2-fs warning: checktime reached, running e2fsck is recommended
VFS: Mounted root (ext2 filesystem).
empeg-pump v0.03 (19980601)
Press Ctrl-A to enter pump...VFS: Mounted root (ext2 filesystem) readonly.
change_root: old root has d_count=1
Trying to unmount old root ... okay
Freeing unused kernel memory: 4k initVFS: Can't find an ext2 filesystem on dev ide0(3,4).
mount: wrong fs type, bad option, bad superblock on /dev/hda4,
or too many mounted file systems
warning: can't open /etc/mtab: No such file or directory

```
umount: /drive0: not mounted
Making first drive...
mke2fs 1.14, 9-Jan-1999 for EXT2 FS 0.5b, 95/08/09
ext2fs_check_if_mount: No such file or directory while determining whether /dev/
hda4 is mounted.
no room for private writable mapping
error: -12
/dev/hda4: Memory allocation failed while setting up superblock
hdstress.cpp 189 ( 14): Poll result=1 on fd=5
hdstress.cpp 194 ( 14): Read a button press
hdstress.cpp 194 ( 14): Read a button press
hdstress.cpp 194 ( 14): Read a button press
hdstress.cpp 194 ( 14): Read a button press
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hdstress.cpp 194 ( 14): Read a button press
hdstress.cpp 194 ( 14): Read a button press
hdstress.cpp 189 ( 14): Poll result=0 on fd=5
Stressing /dev/hda: Spinning down.
hdstress.cpp 189 ( 14): Poll result=0 on fd=5
Stressing /dev/hda: Spinning up.
hdstress.cpp 189 ( 14): Poll result=0 on fd=5
```

Boot After Installing Developer Image:

empeg-car bootstrap v1.00 20000601 (hugo@empeg.com)
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```
e000 v1.04
Copying kernel...
Calling linux kernel...
Uncompressing Linux..... done, booting the kernel.
Linux version 2.2.14-rmk5-np17-empeg52 (rob@aphex) (gcc version 2.95.3 20010315
(release)) #11 Tue Apr 1 18:49:59 BST 2003
Processor: Intel StrongARM-1100 revision 11
NetWinder Floating Point Emulator V0.94.1 (c) 1998 Corel Computer Corp.
empeg-car player (hardware revision 7, serial number 80000278)
Command line: mem=12m
Calibrating delay loop... 207.67 BogoMIPS
Memory: 10968k/12M available (964k code, 20k reserved, 332k data, 4k init)
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Signature is 67706d65 'empg'
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hda: IC25N080ATMR04-0, ATA DISK drive
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SMC9194: SMC91C94(r:9) at 0x4008000 IRQ:7 INTF:TP MEM:6144b MAC 00:02:d7:10:01:16
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hda: hda1 < hda5 hda6 > hda2 hda3 hda4
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empeg-pump v0.03 (19980601)
Press Ctrl-A to enter pump...VFS: Mounted root (ext2 filesystem) readonly.
change_root: old root has d_count=1
Trying to unmount old root ... okay
Freeing unused kernel memory: 4k initempeg init 0.8
I see this is a developer image!
Mounting proc
Mounting first music partition
Tried to mount /dev/hda4 as reiserfs but got error 19
VFS: Can't find an ext2 filesystem on dev ide0(3,4).
Tried to mount /dev/hda4 as ext2 but got error 22
Error mounting partitions (possibly already mounted)
Remounting first music partition read-only
No primary hard disk
Remounting second music partition read-only

No secondary hard disk

Press 'q' now to go into development mode. You Have Zero Seconds To ComplùStarti
ng player

player.cpp : 385:empeg-car 2.00 2003/04/01.

! tags.cpp : 61:Failed to open tags (0xc0041002).

Prolux 4 empeg car - 2.1434 Mar 26 2003

Vcb: 0x4054d000