

Problems installing 5.1A on XP1000

Source: <http://unix.derkeiler.com/Mailing-Lists/Tru64-UNIX-Managers/2003-12/0090.html>

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To: tru64-unix-managers@ornl.gov

We recently purchased a used XP1000 system that ran FreeBSD. I am now attempting to install Tru64 UNIX 5.1A on this system and am having a problem. The drive I'm attempting an install to is an IBM DNES-318350W. The output of "show config" and "boot dqb0" from 5.1A/4.0E is given below. I have a few questions:

1. Can I install 5.1A on the XP1000 using the onboard QLogic SCSI controller?
2. What does the "init_rootdev: boot device translation failed" error I received when booting 5.1A mean?
3. If 5.1A cannot recognize a drive on the onboard QLogic controller, what SCSI card should I buy that will work with the 5.1A install cd? I tried an Adaptec 39160 card which was recognized by the SRM firmware but still 5.1A would not boot.

What's odd is that the 4.0E install cd recognized the drive from the onboard QLogic controller but the 5.1A install cd did not:

```
rz1 at scsi0 target 1 lun 0 (LID=0) (IBM-PSG DNES-318350W !# SA30) (Wide16)
```

I have also tried the 5.1B and 5.1B-1 install CDs with the same results as 5.1A.

```
>>>show config
```

```
Compaq Computer Corporation  
COMPAQ Professional Workstation XP1000
```

Firmware

SRM Console: V5.9-1 Dec 14 2000 16:19:05

PALcode: OpenVMS PALcode V1.88-27, Tru64 UNIX PALcode V1.83-22

Serial Rom: SR0M B1a

PIC: 0.36

Processor

DECchip (tm) 21264A-9 667MHz

Memory

640 MBytes of System Memory

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Bank Size Base Addr Dimms

0 128 MBytes 20000000 1111
1 512 MBytes 00000000 1111

BCache Size = 4 MBytes

Slot Option Hose 0, Bus 0, PCI

7/0 Cypress 82C693 Bridge to Bus 1, ISA
7/1 Cypress 82C693 IDE dqa.0.0.107.0
7/2 Cypress 82C693 IDE dqb.0.1.207.0
 dqb0.0.1.207.0 Compaq CRD-8322B
7/3 Cypress 82C693 USB

Slot Option Hose 1, Bus 0, PCI

3 DECchip 21143-AA ewa0.0.0.3.1 08-00-2B-87-23-15
6 QLogic ISP10x0 pka0.7.0.6.1 SCSI Bus ID 7
 dka100.1.0.6.1 IBM-PSG DNES-318350W !#
8 DECchip 21152-AA Bridge to Bus 2, PCI

Slot Option Hose 1, Bus 2, PCI

ISA

Slot Device Name Type Enabled BaseAddr IRQ DMA

0
0 MOUSE Embedded Yes 60 12
1 KBD Embedded Yes 60 1
2 COM1 Embedded Yes 3f8 4
3 COM2 Embedded Yes 2f8 3
4 LPT1 Embedded Yes 3bc 7
5 FLOPPY Embedded Yes 3f0 6 2
6 EIDE Embedded Yes 1f0 14
 3f6 15
 170
 376
7 ES1888 Embedded Yes 220 5 1
 5
8 USB Embedded Yes 10

Booting 5.1A:

```
>>>boot dqb0
/boot dqb0.0.1.207.0
block 0 of dqb0.0.1.207.0 is a valid boot block
reading 15 blocks from dqb0.0.1.207.0
bootstrap code read in
base = 200000, image_start = 0, image_bytes = 1e00
initializing HWRPB at 2000
initializing page table at 27fee000
initializing machine state
setting affinity to the primary CPU
jumping to bootstrap code
```

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UNIX boot – Wednesday August 01, 2001

Loading vmunix ...

Loading at 0xffffffff00000000

Sizes:

text = 7074304

data = 1718352

bss = 2258496

Starting at 0xffffffff000104c0

Alpha boot: available memory from 0x19fc000 to 0x27fec000

Compaq Tru64 UNIX V5.1A (Rev. 1885); Wed Aug 1 15:16:14 EDT 2001

physical memory = 640.00 megabytes.

available memory = 613.93 megabytes.

using 800 buffers containing 6.25 megabytes of memory

Firmware revision: 5.9-1

PALcode: UNIX version 1.83-22

COMPAQ Professional Workstation XP1000

pci1 (primary bus:1) at nexus

tu0: DECchip 21143: Revision: 4.1

tu0: auto negotiation capable device

tu0 at pci1 slot 3

tu0: DEC TULIP (10/100) Ethernet Interface, hardware address: 08-00-2B-87-23-15

tu0: auto negotiation on: will advertise 100BaseTX (UTP) port: full duplex

isp0 at pci1 slot 6

isp0: QLOGIC ISP1040C

isp0: Firmware revision 5.57 (loaded by console)

scsi0 at isp0 slot 0 rad 0

pci2 (primary bus:1 subordinate bus:2) at pci1 slot 8

pci0 (primary bus:0) at nexus

isa0 at pci0

gpc0 at isa0

gpc1 not probed

ace0 at isa0

ace1 at isa0

lp0 at isa0

fdi0 at isa0

ata0 at pci0 slot 107 (slot 7, function 1)

ata0: CYPRESS 82C693

scsi1 at ata0 slot 0 rad 0

ata1 at pci0 slot 207 (slot 7, function 2)

ata1: CYPRESS 82C693

scsi2 at ata1 slot 0 rad 0

usb0 at pci0 slot 307 (slot 7, function 3)

kernel console: ace0

NetRAIN configured.

panic (cpu 0): init_rootdev: boot device translation failed

DUMP: Warning: no disk available for dump.

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DUMP: first crash dump failed: attempting memory dump...
DUMP: compressing 44136KB into 580631KB memory...
DUMP: Starting Address Ending Address Size(MB)
DUMP: -----
DUMP: 0xfffffc0027c3e000 - 0xfffffc0027febfef 3.6 (indicator)
DUMP: Writing data.. [2MB]
DUMP: crash dump complete.

halted CPU 0

halt code = 5
HALT instruction executed
PC = ffffffff002c5f30

Booting 4.0E:
>>>boot dqb0
(boot dqb0.0.1.207.0)
block 0 of dqb0.0.1.207.0 is a valid boot block
reading 16 blocks from dqb0.0.1.207.0
bootstrap code read in
base = 200000, image_start = 0, image_bytes = 2000
initializing HWRPB at 2000
initializing page table at 27fee000
initializing machine state
setting affinity to the primary CPU
jumping to bootstrap code

Digital UNIX boot - Fri Nov 13 13:15:46 EST 1998

Loading vmunix ...
Loading at 0xfffffc0000230000
Current PAL Revision <0x1001b00010158>
Switching to OSF PALcode Succeeded
New PAL Revision <0x1001600020153>

Sizes:
text = 5443120
data = 1671120
bss = 3348992
Starting at 0xfffffc0000433060

Alpha boot: available memory from 0x16e4000 to 0x27fec000
Digital UNIX V4.0E (Rev. 1091); Fri Nov 13 14:10:29 EST 1998
physical memory = 640.00 megabytes.
available memory = 617.64 megabytes.
using 816 buffers containing 6.37 megabytes of memory
emx: dynamic addressing enabled
Firmware revision: 5.9-1
PALcode: Digital UNIX version 1.83-22
COMPAQ Professional Workstation XP1000
pci1 at nexus

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```
tu0: DECchip 21143: Revision: 4.1
tu0: auto negotiation capable device
tu0 at pci1 slot 3
tu0: DEC TULIP (10/100) Ethernet Interface, hardware address: 08-00-2B-87-23-15
tu0: auto negotiation on: will advertise 100BaseTX (UTP) port: full duplex
isp0 at pci1 slot 6
isp0: QLOGIC ISP1040 (unknown version)
isp0: Firmware revision 5.57 (loaded by console)
scsi0 at isp0 slot 0
rz1 at scsi0 target 1 lun 0 (LID=0) (IBM-PSG DNES-318350W !# SA30) (Wide16)
pci2001 at pci1 slot 8
gpc0 at isa0
pci0 at nexus
ace0 at isa0
lp0 at isa0
fdi0 at isa0
ata0 at pci0 slot 107
ata0: Cypress 82C693
scsi1 at ata0 slot 0
ata1 at pci0 slot 207
ata1: Cypress 82C693
scsi2 at ata1 slot 0
rz16 at scsi2 target 0 lun 0 (LID=1) (COMPAQ CRD-8322B 1.07)
kernel console: ace0
bootdevice_parser: unknown protocol name 'IDE'
setconf: Bootdevice parser failed to translate bootdevice IDE 0 207 1 0 0 0 0.
panic (cpu 0): setconf: bootdevice_parser failed
```

```
DUMP: No primary swap, no explicit dumpdev.
       Nowhere to put header, giving up.
```

```
halted CPU 0
```

```
halt code = 5
HALT instruction executed
PC = fffffc0000434bf0
```

```
--
```

```
albert chin (china@thewrittenword.com)
```