

OpenBSD 3.9 and simh.

Source: <http://unix.derkeiler.com/Newsgroups/comp.unix.bsd.openbsd.misc/2007-01/msg00022.html>

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 - *Date:* Sun, 7 Jan 2007 15:09:57 +0100
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I'm trying to install OpenBSD on Simh.

But (after installing the OS) hd reboot I obtain always the same error:

```
rootdev=0x900 rrootdev=0x900 rawdev=0x902
filesystem type 0 not known.. assuming ffs
panic: cannot mount root
```

this is simh configuration file I'm using:

```
set cpu 32m
set cpu conhalt
set tto 7b
set tti 7b
deposit rq time 100
```

```
load -r ka655x.bin
```

```
;; enable this after the initial install and
;; issue the command
;; set boot dua0:
;; at the chevron prompt
;at nvr nvr.bin
```

```
set rq0 ra92
at rq0 ra92-openbsd.dsk
```

```
;set rq1 ra82
;at rq1 /dev/null
```

```
;set rq2 ra82
;at rq2 /dev/null
```

```
;set rq3 ra82
;at rq3 /dev/null
```

```
;set tq tk50
;at tq0 openbsd.tap
```

```
set dz 7b
```

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```
set dz lines=8
at -m dz0 2311

set xq mac=08-00-2b-24-72-00
at xq0 eth0
```

```
set lpt dis
set ts dis
set rl dis
```

```
:: uncomment the next three lines after the NVRAM
:: has been attached and the default boot device set
;dep bdr 0
;boot cpu
;exit
```

and this is the complete typescript of the session:
Script started on Sun Jan 7 14:58:30 2007
./vax vax.txt

```
VAX simulator V3.6-1
Invalid argument
Listening on port 2311 (socket 5)
Modem control activated
Eth: opened fxp0
sim> boot cpu
```

```
[c
KA655-B V5.3, VMB 2.7
1) Dansk
2) Deutsch (Deutschland/Vsterreich)
3) Deutsch (Schweiz)
4) English (United Kingdom)
5) English (United States/Canada)
6) Espaol
7) Frangais (Canada)
8) Frangais (France/Belgique)
9) Frangais (Suisse)
10) Italiano
11) Nederlands
12) Norsk
13) Portuguj
14) Suomi
15) Svenska
(1..15): 5
Performing normal system tests.
40..39..38..37..36..35..34..33..32..31..30..29..28..27..26..25..
24..23..22..21..20..19..18..17..16..15..14..13..12..11..10..09..
08..07..06..05..04..03..
```

Tests completed.

boot dua0:

(BOOT/R5:0 DUA0

2..
-DUA0
1..0..

OpenBSD/vax boot [1.9] [Mar 1 2006] <<
Press enter to autoboot now, or any other key to abort: ED

boot bsd

total=0x210b01 start=0x8000057c
[using 243613 bytes of bsd a.out symbol table]
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Copyright (c) 1995-2006 OpenBSD. All rights reserved.
<http://www.OpenBSD.org>

OpenBSD 3.9 (GENERIC) #293: Thu Mar 2 02:54:54 MST 2006
deraadt@xxxxxxxxxxxxxxxxx:/usr/src/sys/arch/vax/compile/GENERIC
MicroVAX 3800/3900 [0A000006 01530302]
cpu: KA655, CVAX microcode rev 6 Firmware rev 83
total memory = 33488896
avail memory = 27353088
using 434 buffers containing 1777664 bytes of memory
mainbus0 (root)
ibus0 at mainbus0
uba0 at ibus0: Q22
dz0 at uba0 csr 160100 vec 196 ipl 15
mtc0 at uba0 csr 174500 vec 508 ipl 15
mscpbus0 at mtc0: version 5 model 3
mscpbus0: DMA burst size set to 4
mt0 at mscpbus0 drive 0: TK50
mt1 at mscpbus0 drive 1: TK50
mt2 at mscpbus0 drive 2: TK50
mt3 at mscpbus0 drive 3: TK50
uda0 at uba0 csr 172150 vec 504 ipl 15
mscpbus1 at uda0: version 3 model 3
mscpbus1: DMA burst size set to 4
ra0 at mscpbus1 drive 0: RA92
ra1 at mscpbus1 drive 1: RD54
ra2 at mscpbus1 drive 2: RD54
rx0 at mscpbus1 drive 3: RX50

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```
qe0 at uba0 csr 174440 vec 500 ipl 15: delqa, address 08:00:2b:24:72:00
booted from device: ra0
root on ra0a
rootdev=0x900 rrootdev=0x900 rawdev=0x902
filesystem type 0 not known.. assuming ffs
panic: cannot mount root
Stopped at _main+0x440: movl _mountlist, r0
RUN AT LEAST 'trace' AND 'ps' AND INCLUDE OUTPUT WHEN REPORTING THIS PANIC!
DO NOT EVEN BOTHER REPORTING THIS WITHOUT INCLUDING THAT INFORMATION!
ddb> trace
panic: cannot mount root
Stack traceback :
_start+0x519(0x3ae120)
ddb> ps
PID PPID PGRP UID S FLAGS WAIT COMMAND
2 0 0 3 0x100204 pftm pfpurge
1 0 0 3 0x4 initexec swapper
* 0 -1 0 0 7 0x80204 swapper
ddb>
Simulation stopped, PC: 80175885 (BGEQ 80175880)
sim> q
Goodbye
# ^D
```

Script done on Sun Jan 7 14:59:10 2007

Thank You very much