

## FreeNAS - Bug #26357

### Report PCI UARTs to recognize serial cards

10/26/2017 07:55 AM - Barry Moore

<b>Status:</b> Resolved	
<b>Priority:</b> Important	
<b>Assignee:</b> Alexander Motin	
<b>Category:</b> Middleware	
<b>Target version:</b> 11.1-RC1	
<b>Seen in:</b> 11.0-U4	<b>Needs Merging:</b> Yes
<b>Severity:</b> New	<b>Needs Automation:</b> No
<b>Reason for Closing:</b>	<b>Support Suite Ticket:</b> n/a
<b>Reason for Blocked:</b>	<b>Hardware Configuration:</b>
<b>Needs QA:</b> No	<b>ChangeLog Required:</b> No
<b>Needs Doc:</b> Yes	
<b>Description</b>	
<p>I have a serial card that is recognized by FreeBSD, but FreeNAS doesn't recognize it.</p> <p>The only option on the Serial Port Pulldown on the System/Advanced Tab of the web GUI is 0x2F8, and there isn't a port at that address.</p> <p>Details of the card in question:</p> <p>From dmesg pci7: &lt;ACPI PCI bus&gt; on pcib7 uart2: &lt;Lava Computer mfg DSerial-PCI Port A&gt; port 0xb090-0xb097 irq 17 at device 0.0 on pci7 uart3: &lt;Lava Computer mfg DSerial-PCI Port B&gt; port 0xb080-0xb087 irq 17 at device 0.1 on pci7</p> <p>From lspci <del>vv</del> 07:00.0 Serial controller: Lava Computer mfg Inc Lava DSerial-PCI Port A (prog-if 02 [16550]) Control: I/O+ Mem BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx- Status: Cap- 66MHz- UDF- FastB2B+ ParErr- DEVSEL=slow &gt;TAbort- &lt;TAbort- &lt;MAbort- &gt;SERR- &lt;PERR- INTx- Interrupt: pin A routed to IRQ 17 Region 0: I/O ports at b090</p> <p>07:00.1 Serial controller: Lava Computer mfg Inc Lava DSerial-PCI Port B (prog-if 02 [16550]) Control: I/O+ Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B- DisINTx- Status: Cap- 66MHz- UDF- FastB2B+ ParErr- DEVSEL=slow &gt;TAbort- &lt;TAbort- &lt;MAbort- &gt;SERR- &lt;PERR- INTx- Interrupt: pin A routed to IRQ 17 Region 0: I/O ports at b080</p> <p>From pciconf -lbcevV pci0:7:0:0 uart2@pci0:7:0:0: class=0x070002 card=0x00000000 chip=0x01101407 rev=0x00 hdr=0x00 vendor = 'Lava Computer mfg Inc' device = 'Lava DSerial-PCI Port A' class = simple comms subclass = UART bar [10] = type I/O Port, range 32, base 0xb090, size 8, enabled</p> <p>From pciconf -lbcevV pci0:7:0:1 uart3@pci0:7:0:1: class=0x070002 card=0x00000000 chip=0x01111407 rev=0x00 hdr=0x00 vendor = 'Lava Computer mfg Inc' device = 'Lava DSerial-PCI Port B' class = simple comms subclass = UART bar [10] = type I/O Port, range 32, base 0xb080, size 8, enabled</p>	

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## Associated revisions

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### Revision af4cdeba - 10/26/2017 01:52 PM - Alexander Motin

Relax filter of what to count as UART I/O ports.

PCI uses different resource names, so PCI UARTs were not reported here. Probably the only things we should really filter out here are IRQs.

Ticket: #26357

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## History

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### #1 - 10/26/2017 07:55 AM - Barry Moore

- File *debug-freenas-20171026105533.txz* added

### #2 - 10/26/2017 08:21 AM - Dru Lavigne

- Assignee changed from *Release Council* to *Alexander Motin*

- Seen in changed from *Unspecified* to *11.0-U4*

### #3 - 10/26/2017 08:30 AM - Alexander Motin

- Status changed from *Unscreened* to *15*

- Priority changed from *No priority* to *Important*

Could you please attach full `devinfo -u`` command output? Most likely it is WebUI bug, not a card detection.

### #4 - 10/26/2017 08:32 AM - Alexander Motin

- Category changed from *1* to *Middleware*

### #5 - 10/26/2017 09:08 AM - Barry Moore

- File *FreeNAS\_devinfo-u.txt* added

### #6 - 10/26/2017 12:02 PM - Dru Lavigne

- Status changed from *15* to *Screened*

### #7 - 10/26/2017 02:00 PM - Alexander Motin

- Status changed from *Screened* to *19*

- Target version set to *11.1-BETA1*

I've found the problem. Next nightly build should fix it. Please try it, if you can, and report whether it works, since we rarely see PCI UARTs.

### #8 - 10/26/2017 02:41 PM - Dru Lavigne

- File *deleted (debug-freenas-20171026105533.txz)*

### #9 - 10/26/2017 02:41 PM - Dru Lavigne

- File *deleted (FreeNAS\_devinfo-u.txt)*

### #10 - 10/26/2017 02:42 PM - Dru Lavigne

- Target version changed from *11.1-BETA1* to *11.1-RC1*

- Private changed from *Yes* to *No*

**#11 - 10/26/2017 02:43 PM - Dru Lavigne**

- Subject changed from *Serial card recognized by FreeBSD but not FreeNAS. to Report PCI UARTs to recognize serial cards*

**#12 - 10/26/2017 06:40 PM - Barry Moore**

- Target version deleted (11.1-RC1)

Thanks for quick response - I will be away and not able to test for about a week.

Sorry for the really noob question:

Is there a way I easily test without damaging my production system?

**#13 - 10/26/2017 06:43 PM - Eric Loewenthal**

To be absolutely safe, you can disconnect your disks and install to a new USB flash drive. Afterwards, switch back to your old boot device and reconnect your disks.

**#14 - 10/27/2017 08:00 AM - Dru Lavigne**

- Target version set to 11.1-RC1

**#15 - 10/31/2017 08:32 AM - Dru Lavigne**

- Status changed from 19 to Resolved

**#16 - 10/31/2017 07:11 PM - Barry Moore**

- QA Status Test Passes FreeNAS added

- QA Status deleted (Not Tested)

Loaded a manual update of V11.1RC1.

The non-existent port no longer appears in the drop down menu, and the correct addresses are automatically populated.

After setting the correct serial parameters and rebooting, and the serial port works perfectly from the time the Grub menu is displayed.

Great work - thanks for your speedy resolution to this issue and your patience with my inexperience.

**#17 - 11/09/2017 09:36 AM - Joe Maloney**

- Needs QA changed from Yes to No