

<http://groups.google.com/d/topic/comp.dcom.modems/2xyANA6Sjw8/discussion>
comp.dcom.modems >

Modem Line Corruption

36 posts by 7 authors

Rob

1/10/02

I have an internal hardware modem (USR 3CP-5610A) and run Solaris 8 x86 4/01 version with aspppd.

Most of the time the modem works great, but occasionally it hangs and starts spitting out garbage characters to the parent window and nothing I do short of rebooting the machine will correct the problem. I generally use tip to send an at&f1 reset to the modem, but most of the time this will not correct the problem.

Has anyone had this problem and what did you do to correct it?

Thanks in advance for any comments.

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Rob

Floyd Davidson

1/10/02

Rob <rro...@earthlink.net> wrote:

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>Thanks in advance for any comments.

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>--

>Rob

Personally, I'd say the fix is to purchase an external modem... which can be power cycled without rebooting the whole box.

--

Floyd L. Davidson <<http://www.ptialaska.net/~floyd>>
Ukpeagvik (Barrow, Alaska) fl...@barrow.com

Rick Collins

1/10/02

"Rob" <rro...@earthlink.net> wrote in message news:3C3E4E46.C6E44B51@earthlink.net...

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> Thanks in advance for any comments.

That's usually caused by the modem's DTE (modem to terminal) speed and the terminal's port speed being different. I'd check your setup to ensure the comm application isn't switching the port speed after the connect.

Hooda Gest

1/11/02

"Rob" <rro...@earthlink.net> wrote in message
news:3C3E4E46.C6E44B51@earthlink.net...

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> generally use tip to send an at&f1 reset to the modem, but most of the
> time this will not correct the problem.

When does it hang and start putting out garbage characters? During a connection, immediately upon connecting? While sitting idle?

If immediately upon connection, it's likely a misconfiguration of the terminal program. As Rick mentioned, if the terminal program is in "autobaud" mode, it will change the DTE rate in an attempt to match the DCE rate and the result is gibberish. It can also give gibberish if the terminal program is set to a different parity than the remote end.

If it's during the connection or when just sitting idle, you may have a defective modem.

You can do a harder reset (similar to a power cycle) by using an ATZ rather than an AT&F1.

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Hooda Gest

"In a New York minute, everything can change..."

Rob

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It varies, but it happens generally after sitting idle for awhile after a session disconnect.

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> program is set to a different parity than the remote end.

Sorry, but you've lost me here. How can I check for this?

> defective modem.

I use removable SCSI hard drives in this machine and this problem does not occur with Windows NT4. Only Solaris.

I personally think it's a problem with Solaris' supposedly dodgy aspppd but can someone verify this? I have downloaded the latest source files for pppd but have had some problems compiling them with gcc 2.95.3. Would using this new utility fix the problem? Are pre-compiled executables available for pppd somewhere?

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> You can do a harder reset (similar to a power cycle) by using an ATZ rather than an AT&F1.

Unsuccessfully tried that too.

--
Rob

Hooda Gest

1/11/02

"Rob" <rro...@earthlink.net> wrote in message

news:3C3F0567.4D04E24B@earthlink.net...

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> a session disconnect.

There is a difference between "during a connection" and "idle". By idle, I mean offline, not connected to another modem. If get gibberish on the screen when in that state, the modem is defective.

If there's no pattern to this appearance of gibberish then the modem is likely to be defective.

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By checking your terminal program setup. The modem's default of &f1 leaves it with a locked DTE rate. That rate is set by the first AT it receives (terminal set to 38400bps, send at&f1 to modem, modem DTE rate set to 38400bps, for example). If the terminal program is set to adjust to connect speed then the modem's DTE rate and the terminal's DTE rate may mismatch. In those cases, I usually see no characters at all not gibberish so I wouldn't suspect this to be the problem.

But here's an example of what happens...

1. terminal program set to autobaud and DTE rate set initially to 115200bps

rate of 115200
3. Modem is instructed to dial up a service.
4. Modem connects at 19200bps (poor connection)
5. Terminal program reads connect and resets DTE rate to 19200bps.
6. Modem continues to send data to DTE at 115200bps

Big mismatch.

>
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Look at the software driving the port or the software used to dial and maintain connections.

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> but can someone verify this? I have downloaded the latest source files
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> Unsuccessfully tried that too.

Then the likely problem is software related.

--

Hooda Gest
"In a New York minute, everything can change..."

Franc Zabkar

1/11/02

On Thu, 10 Jan 2002 22:39:17 -0500, "Rick Collins"
<r.co...@sympatico.ca> put finger to keyboard and composed:

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This doesn't make sense for internal modems, unless they are using
real UARTs. Is the 3CP-5610A one of these?

-- Franc Zabkar

Richard Collins

1/11/02

"Franc Zabkar" <franc...@dinggoblue.net.au> wrote in message
news:3c3f5cd2.5694490@news.dingoblue.net.au...

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It makes complete sense, Franc. If the modem has a command to switch the port rate to the DCE rate, then obviously the modem will do that - even if the UART is emulated.

Franc Zabkar

1/12/02

On Fri, 11 Jan 2002 19:08:03 -0500, "Rick Collins"

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