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How can I debug my PPP dynamic or manual outbound dialup connection?

Keywords

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Release

SCO OpenServer Enterprise System Release 5.0.0, 5.0.2, 5.0.4, 5.0.5
SCO OpenServer Desktop System Release 5.0.0, 5.0.2, 5.0.4, 5.0.5
SCO OpenServer Host System Release 5.0.0, 5.0.2, 5.0.4, 5.0.5
SCO OpenServer Internet FastStart Release 5.0.4
SCO Internet FastStart Release 1.0.0, 1.1.0

Problem

When I try to connect with another PPP endpoint using a **modem**, I can't tell if my **modem** is establishing a connection.

Solution

Two convenient methods for debugging outbound PPP **modem** configuration and login mechanisms with other systems are detailed below:

1. Start the **pppd(ADMN)** daemon with a debug value of "6" or greater. This value will also be passed to the UUCP **modem** configuration and dialing mechanisms which are used to establish PPP endpoints via dialup connections. (See **Devices(F)**).

A value of "6" allows the UUCP dialer to output sufficient debugging information to the SCO console, usually /dev/tty01 (see **multiscreen(M)**). The debugging information can only be displayed on the main console.

To set a debug level for the ppp daemon, you can do one of the following:

- Add a "-d 6" argument to the pppd startup in /etc/S85tcp.

- Increase the debugging level by 1 each time you send the parent pppd process a SIGUSR1 signal (see [signal\(S\)](#)). Send it 6 SUGUSR1s to set the necessary debug level.

- Terminate (kill) the current pppd processes and restart from a privileged command prompt (as the root user) with the command "pppd -d 6", just as you did for /etc/rc2.d/S85tcp (above).

Note: The amount of debugging information produced by pppd at a debug level of 6 is much less than that of a /etc/ppphosts "debug=2" parameter, and contains different types of information. They are not related parameters, and should be used independently of each other as needed.

The remaining information not related to physical **modem** dialup negotiations is logged by [syslogd\(ADM\)](#) and usually placed into the file /usr/adm/syslog.

2. The other method is to use "/usr/lib/uutry -r -x6 <attach-name>" (see [uutry\(ADM\)](#)). <attachname> is the "uucp=" designation in the /etc/ppphosts file and must also be present in the /usr/lib/uucp/Systems file (see [Systems\(F\)](#)).

This method allows the UUCP debugging information to be displayed on the same tty on which uutry was invoked. It does not allow the actual PPP interface to be established. It only verifies the endpoint-> **modem**-> connect-> login-> endpoint sequence, and will not offer a PPP connection if it succeeds. It allows you to easily test **modem** configuration and login sequences (chat-scripts) useful for initial setup of a new endpoint and periodic testing.

Note

The -d "debug level" is NOT related to the "debug=" value in the /etc/ppphosts file (see [ppphosts\(F\)](#)). The debug value in /etc/ppphosts hosts logs information between specific PPP endpoints and the data being passed between those connections, but not the UUCP **modem** dialup negotiations and chat-scripts.

Once the debugging level has been increased or set, there is no known way to decrease the debugging level, besides restarting pppd.

See Also

[ppphosts\(SFF\)](#)

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