

Q: I'm running **uucico** and all I get is "bus error" and no other messages, even with debugging turned on to any level. What might be wrong?

A: Ensure that the **uucico** program can access the UUCP spool directory. Since the program is (supposed to be) SetUID uucp and SetGID daemon, this means the uucp user must be able to read and write the directory.

If you examine the files using the UNIX **ls(1)** command, you should see the following (dates might be different, and the size of the spool directory might be different):

```
localhost [/me]-7% ls -ldg /usr/lib/uucp/uucico /usr/spool/uucp
---s--s--x 1 uucp  daemon   90112 Nov 11 17:25 /usr/lib/uucp/uucico*
drwxr-xr-x 14 uucp  daemon   1024 Dec 22 03:30 /usr/spool/uucp/
```

If you see different results, and you're not *absolutely certain* why they're different, you can set things right with the following commands:

```
localhost [/me]-7% su
localhost-1# chown uucp.daemon /usr/lib/uucp/uucico /usr/spool/uucp
localhost-2# chmod 755 /usr/spool/uucp
localhost-3# chmod 6111 /usr/lib/uucp/uucico
```

One other thing to note: the output of the **ls** on **uucico** is the same whether the owner and the group have execute permission or not. In UNIX parlance, the mode display in the **ls** is the same whether the numeric mode is 6001, 6011, or 6111. Be *sure* it's 6111: SetUID, SetGID, and execute for user, group, and other.

By the way, the rest of the commands in the UUCP suite are likely subject to the same limitations. We have verified that **uucp** behaves like **uucico** in this situation; we have not tested the rest of the suite, but anything which needs access to the spool directory are suspect. For completeness, here's another **ls -lg**:

```
localhost [/me]-8% ls -lg /usr/bin/uu* /usr/lib/uucp/uu*
---s--s--x 1 uucp  daemon  24576 Nov 11 17:25 /usr/bin/uucp*
-rwxr-xr-x 1 uucp  daemon  16384 Nov 11 17:26 /usr/bin/uudecode*
-rwxr-xr-x 1 uucp  daemon   2984 Nov 11 17:26 /usr/bin/uuencode*
---s--s--x 1 uucp  daemon  4620 Nov 11 17:25 /usr/bin/uulog*
---s--s--x 1 uucp  daemon  5776 Nov 11 17:25 /usr/bin/uuname*
---s--s--x 1 uucp  daemon  24576 Nov 11 17:26 /usr/bin/uupoll*
---s--s--x 1 uucp  daemon  8716 Nov 11 17:26 /usr/bin/uuq*
---s--s--x 2 uucp  daemon  3548 Nov 11 17:26 /usr/bin/uusend*
---s--s--x 1 uucp  daemon  4260 Nov 11 17:26 /usr/bin/uusnap*
---s--s--x 1 uucp  daemon  24576 Nov 11 17:25 /usr/bin/uux*
---s--s--x 1 uucp  daemon  90112 Nov 11 17:25 /usr/lib/uucp/uucico*
---s--s--x 1 uucp  daemon  11136 Nov 11 17:25 /usr/lib/uucp/uuclean*
---s--s--- 1 uucp  daemon  32768 Nov 11 17:26 /usr/lib/uucp/uuxqt*
```

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