

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/uencode*
---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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Valid for 1.0, 2.0, 3.0,3.1