



# Tech Info Library

## A/UX: How To Recover dev/syscon

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Security: Everyone

A/UX: How To Recover "dev/syscon"

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### Article Change History

- 08/31/92 - REVIEWED
  - For technical accuracy.
- 08/31/92 - Updated
  - Removed obsolete information.

### TOPIC -----

This article discusses what happens when the "dev/syscon" file is corrupted and two ways to recover.

#### --- problem description -----

On system startup, the system went to the point where it checks the total amount of memory and hung. It didn't get to the point where it asks if a check of the file system should be made.

Running "esch -v" returned the system messages:

```
Running autorecovery esch -v
fscheck - dev/dsk/c5d0s0
```

The system completed phases 1, 2, and 3 of the file system check with no problems. Then, in phase 4, it found problems:

```
free inode count wrong and superbk -- fixed
file system modified
```

It went through a few other file systems. Then, in the section where A/UX starts validating the files, it showed a permissions error on major/minor device number. Then, it showed replacing "/dev/syscon".

It started validating other files. Then, it bombed leaving these messages:

```
/dev/syscon was not replaceable
exiting file check.
```

After this, you cannot get his kernel up and running nor can you launch on "/newunix".

DISCUSSION -----

Most likely, the "/dev/syscon" file was corrupted. There are two ways you might be able to recover it from SASH:

Here are the two ways:

- a. Directly copy /dev/syscon from one of the Eschatology partitions.

For example:

```
pname -s 3 "Eschatology 1"
rm -f /dev/syscon /dev/console /dev/systty
cp (0,0,3)/dev/syscon /dev/syscon
ln /dev/syscon /dev/console
ln /dev/syscon /dev/systty
```

- b. Create /dev/syscon from scratch.

```
rm -f /dev/syscon /dev/console /dev/systty
mknod /dev/syscon c 7 0
chmod 722 /dev/syscon
ln /dev/syscon /dev/console
ln /dev/syscon /dev/systty
```

Note that "/dev/console", "/dev/syscon", and "/dev/systty" are all hard-linked.

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