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AWS 95: A/UX Disk Defragmentation (7/93)

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Security: Everyone

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TOPIC -----

I just purchased an Apple Workgroup Server (AWS) 95 for file services. I regularly defragmented the hard drive on my AppleShare 3.0 server and it showed a noticeable speed increase. Will doing this help the AWS 95 UNIX partition?

1) Is it necessary to defragment the UNIX partition of the hard drive of the AWS 95, and will it help keep performance at its maximum?

2) What programs are available to do this on a UNIX partition?

DISCUSSION -----

As with most file systems it may become necessary to defragment a UNIX based file system from time to time. The UNIX based utility program "fsck" will report the percentage of fragmentation on a per file system basis. You can use the command `fsck /dev/rdisk/cx0xdxsx` replacing the x's with the appropriate information. For example:

```
macamy.support.apple.com.root # fsck /dev/rdisk/c300d0s0
** /dev/rdisk/c300d0s0
** Last Mounted on /
** Root file system
** Phase 1 - Check Blocks and Sizes
** Phase 2 - Check Pathnames
** Phase 3 - Check Connectivity
** Phase 4 - Check Reference Counts
** Phase 5 - Check Cyl groups
8056 files, 97206 used, 839119 free (1751 frags, 104671 blocks, 0.2%
fragmentation)
```

The only way to defragment a file system is to use a backup utility such as the UNIX utilities `dump`, `cpio`, `tar`, or the Macintosh OS based Retrospect

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(version 2.0ai). There is a small section on this topic included in the AWS 95 "Server Administration with A/UX 3.0.1" manual pages 230-231.

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