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# AppleShare 3.0, 4.0, and Pro: Technical Differences (4/95)

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Security: Everyone

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TOPIC ----------

What are the technical differences between AppleShare 3.0, 4.0, and Pro?

DISCUSSION ----------

AppleShare 4.0 and Pro new features from AppleShare 3.0
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• Read Ahead. When a client makes a request of the server that requires reading, the server will read more than the client requested, or "read ahead". The server makes an assumption of what the next logical section of disk should be and reads it into RAM. In general, the client will ask for that section in its next network request and receive an immediate response because the data is already in RAM.

• Write Behind. After the server receives data from the network and stores it to RAM, it informs the client of write completion even though the actual write to disk has not been done at the time the server sent the notification. In theory, writes are lagging behind the messages. Because of the difference in speed between networks and high speed SCSI devices, by the time the user gets the message the write may have actually completed.

• File, directory, and icon caching. AppleShare 4.0 and Pro allow for the use of main memory as a level 3 cache.

• Number of Users. AppleShare 4.0 and Pro support an increased number of users.

• Apple II network booting is not supported.

AppleShare 4.0 and AppleShare Pro differ in the following
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• Operating System: AppleShare 4.0 runs under Mac OS, AppleShare Pro runs under

A/UX 3.01.

• Number of Users: AppleShare 4.0 supports a maximum of 150 simultaneous users; AppleShare Pro supports a maximum of 200 simultaneous users.

• Serialization: Each copy of AppleShare 4.0 will have its own unique serial number assigned at manufacturing time.

• Write behind: Since A/UX 3.01 has intelligent I/O, whenever multiple writes are pending the file system will spool several write requests, organize them in disk order, position the disk head, and then SCSI burst them all onto the disk in one pass. This makes AppleShare Pro the fastest server under heavy load and multiple write conditions.

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18 Apr 1995 - Made correction of typographical errors.

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