Technical Note NW510
AppleTalk Filing Protocol Q&As

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This Technical Note contains a collection of archived Q&As relating to a specific topic - questions sent the Developer Support Center (DSC) along with answers from the DSC engineers. Current Q&A's can be found on the Macintosh Technical Q&A's web site.

[Oct 01 1990]

AFP error codes -5060,-5061, -5062, and -5063

Date Written: 1/18/93

Last reviewed: 6/14/93

What's AppleTalk error -5062? It seems to be an AppleTalk Filing Protocol error of sorts but I can't find it documented anywhere.

Error -5062 is an `afpAlreadyMounted` error. You'll get it from the AppleShare external file system if you try to mount an AppleShare volume that's already mounted with `PBVolumeMount`. The three `PBVolumeMount`-related functions were added to System 7 very late during development, so `afpAlreadyMounted` (-5062), `afpBadDirIDType` (-5060), `afpCantMountMoreSrvrs` (-5061), and `afpSameNodeEr` (-5063) never made it into the public interface files.

References:

Inside Macintosh Volume VI, pages 25-49 and 25-50

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How an AFP volume's allocation block size is calculated

Date Written: 8/15/91

Last reviewed: 8/16/91

The AppleTalk Filing Protocol (AFP) doesn't appear provide a way to learn about the allocation block size of a server volume. So, how is the allocation block size determined on AFP server volumes? I noticed that the Macintosh Finder seems to calculate "size on disk" erratically for files on some AFP server volumes. Is that a related problem?

All the workstation can get from an AFP server is the Bytes Total and Bytes Free (returned by `FPGetVolParms` and `FPOpenVol`), so the AFP workstation code estimates the value it uses in the allocation block size field (`vcbAlBlkSiz`) of the volume control block (VCB). The workstation code comes up with a value for `vcbAlBlkSiz` from the Bytes Total value returned to `FPOpenVol` when the volume is opened. The calculation used is:

This is the same value a local HFS volume would use. If an AFP server is not running on a Macintosh (and then, probably not using HFS), then this value may not be what the server platform is actually using. And yes, the Finder uses the allocation block size in its calculations to decide how much space is used by a file, so the "size on disk" may not exactly reflect the amount of disk space actually used.

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Inside Macintosh Volume VI PBGetVolMountInfoSize typo

Date Written: 1/22/92

Last reviewed: 6/14/93

When I call `PBGetVolMountInfoSize` to get the size of an AppleShare volume's mounting information record, the function returns with no errors but `ioBuffer` points to garbage instead of the size of an `AFPVolMountInfo` record.

The problem you're having with `PBGetVolMountInfoSize` is a typo in *Inside Macintosh* Volume VI on page 25-48. In that call, the `ioBuffer` field should be a pointer to a word (2-byte) size variable, not a long (4-byte) size variable.

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AFP 2.0 FPRead NewLine Mask change

Date Written: 5/3/89

Last reviewed: 11/21/90

I'm confused about the changes to `FPRead` in AFP (AppleTalk Filing Protocol) version 2.0. How do I use the `NewLine` Mask?

The difference between AFP 1.1 and AFP 2.0 as far as the `NewLine` Mask is concerned is that, in AFP 1.1, the only legal values of `NewLine` Mask are $00 and $FF, whereas in AFP 2.0, all values of `NewLine` Mask are allowed. The `NewLine` Mask is logically ANDed with a copy of each byte read. If the result matches the `NewLine` character, the read terminates. The NewLine character is returned as the last byte of data that was read from the fork.

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