



### AppleTalk

#### #1: Identifying AppleTalk

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This Technical Note describes the correct methods for identifying AppleTalk under ProDOS 8 and GS/OS, as the ATLK ROM signature is no longer used.

**Changes since July 1989:** Added warning concerning ProDOS 8, version 1.4.

To determine if an application has been launched over the network, refer to the `NetLaunch` code fragment found in the *AppleShare Programmer's Guide for the Apple IIGS*.

Under ProDOS, to identify both AppleTalk and the slot with which it is associated for printing, refer to Apple II AppleTalk Technical Note #4, *Printing Through the Firmware*.

To identify AppleTalk under ProDOS 8:

1. Issue an AppleShare `GetInfo` call.
2. If there is no error result, AppleTalk is installed.

```
InfoParams    DB $00                ;Synchronous only
              DB $02                ;GetInfo call number
InfoResult    DS 13                ;<- results returned here

CheckATalk    JSR $BF00
              DB $42                ;$42 command # for AppleTalk
calls
              DW InfoParams         ;Parameter list address
              BCS NoATalk           ;handle the error
IsATalk.      ...                  ;AppleTalk installed when here
NoATalk       ...                  ;AppleTalk not installed when
here
```

**Warning:** Due to a bug in ProDOS 8, version 1.4, using the \$42 call crashes ProDOS 8 if AppleTalk is not installed. Applications that use this routine to check for AppleTalk should ship with ProDOS 8 version 1.5 or greater, thus avoiding this bug. (ProDOS 8 Technical Note #21, *Identifying ProDOS Devices* contains a routine which correctly identifies the presence of AppleTalk under all versions of ProDOS 8.)

To identify AppleTalk protocols and AppleShare file system under System Software 5.0:

1. Set up the parameter block for a GS/OS `GetFSTInfo` call using `fstNum = 1`.
2. Issue the `GetFSTInfo` call.
3. If the `fileSysID` is `$0D` the AppleShare FST and AppleShare are present.
4. If a parameter out of range error (`$53`) results, the AppleShare file system is not present.
5. Otherwise, if steps 3 and 4 are inconclusive, increment the `fstNum` and loop back to step 2.

To identify AppleTalk protocols, including LAP through PFI but excluding the file system, under System Software 5.0:

1. Set up the parameter block for a GS/OS `DInfo` call using device number one.
2. Issue the `DInfo` call.
3. If the `deviceID` is `$1D`, the AppleTalk main driver and AppleTalk are present.
4. If a parameter out of range error (`$53`) results, the AppleTalk protocols are not present.
5. Otherwise, if steps 3 and 4 are inconclusive, increment the device number and loop back to step 2.

To identify AppleTalk protocols, including LAP through ASP but excluding the file system, under System Software 4.0:

1. Issue an `SPGetStatus` call
2. If the call returns without error, AppleTalk is present.

**Note:** With the release of System Software 5.0, earlier versions are not supported.

### Further Reference

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- *Inside AppleTalk*
- *AppleShare Programmer's Guide for the Apple IIGS*
- *GS/OS Reference*
- Apple II AppleTalk Technical Note #4, Printing Through the Firmware
- ProDOS 8 Technical Note #21, Identifying ProDOS Devices