New Technical Notes

Macintosh



Developer Support

Opening AppleTalk Networking

M.NW.OpenAppleTalk

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This Technical Note describes the most effective, safe, and compatible way to open the AppleTalk drivers, .MPP and .ATP.

The process of opening the AppleTalk drivers, .MPP and .ATP, can be greatly simplified. The AppleTalk Manager chapters of *Inside Macintosh* describe the calls MPPOpen and ATPLoad for use by high-level languages. They also describe the process of examining low-memory globals SPConfig and PortBUse before calling _Open for assembly language use of AppleTalk.

Starting with the 128K ROM, the .MPP driver already has all the code built in for checking the low-memory globals SPConfig and PortBUse before trying to complete the _Open call. Furthermore, the .MPP driver will automatically open the .ATP driver as part of its opening process. Therefore, since all of the required checks are made inside the driver itself, we recommend that a simple _Open call be made to the .MPP driver when you need to use AppleTalk. In a high-level language like Pascal, this call would look like the following:

```
result := OpenDriver('.MPP', refnum);
In C:
      result = OpenDriver("\p.MPP", &refnum);
And in assembly language:
openAT
             SUB. W
                          #ioQElSize,SP ; Make space for paramblock on stack
                                              ; since Open is always synchronous.
                                 ; Using .W is slightly more efficient
                                             ; and is safe since ioQElSize is small.
             MOVE.L
                          SP,A0
                                              ; Point AO to paramblock.
                          mppName,A1
                                             ; Point A1 to driver name.
             LEA
             MOVE.L
                          Al, ioFileName(A0) ; Put pointer to name in paramblock.
             CLR.B
                          ioPermssn(A0)
                                              ; Clear so won't look like OpenDeskAcc.
             Open
             MOVE.W
                          ioRefNum(A0),D1
                                             ; You might want this later. Who knows?
             ADD.W
                          #ioQElSize,SP
                                              ; Reclaim space on stack.
             RTS
                                              ; D0 contains result code.
             DC.B
mppName
             DC.B
                          '.MPP'
```

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By using just the simple	_Open call to the .MPP dr	river, you can ensure tha	your code will be compa	tible with future versions	of AppleTalk tha
might not make use of lo	w-memory globals.				

Further Reference:

•	Inside Macintosh,	Volumes II-261,	IV-229, & V-507.	The AppleTalk Manager