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## Apple Internet Router: Memory Issues Using with AppleShare

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Security: Everyone

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TOPIC -----

I have this configuration:

Macintosh SE/30  
Dove internal Ethernet card (note--internal card, not the SCSI box)  
AppleShare File Server  
AppleShare Print Server  
Apple Internet Router

All three applications are running on this machine.

- 1) With the AppleShare File Server and Printer Server and the Internet Router running, is 2MB the proper amount of memory for this configuration? Is there any benefit to having more?
- 2) Is this, in general, a recommended configuration? Can I expect the Internet Router to perform reliably on the Macintosh SE/30 with the Dove card? Are there any problems with the Internet Router on the Macintosh SE/30 with any Ethernet card?

DISCUSSION -----

### 1) Memory considerations

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- In general 1MB of RAM is sufficient for running the router. However, you should consider the following exceptions:
    - You must use 2MB of RAM when running the router concurrently with the AppleShare File Server. You can add memory beyond 2MB, but that only increases performance of the file server and not of the router. The reason is that the file server uses all additional memory for its RAM cache.

- It is recommended that you use 2MB of RAM to run the router and the AppleShare Print Server or the router and a mail server package concurrently. As long as you have 2MB of RAM, you can also run the router, the AppleShare File Server, and any single foreground application, like a print server.
- To avoid memory problems, do not use MacroMaker on a 1MB router machine.
- Be aware that having MacsBug (or any other debugger) active reduces the amount of memory available to the router. Do not run MacsBug on a 1MB router machine or on a router that is also running the AppleShare File Server.
- To avoid memory problems, do not use 32-Bit QuickDraw on a 1MB router machine.
- Best use of memory can be obtained by minimizing the INITs and desk accessories that run concurrently with the router.
- Because of the way MultiFinder runs desk accessories, we recommend that you run the router in Finder. MultiFinder runs desk accessories in the system heap. This means that when you use the router desk accessory under MultiFinder, you are more likely to run out of memory because the router driver and any other concurrently running process take memory from the system heap.

2) As long as you have 2MB of RAM, you can also run the router, the AppleShare File Server, and any single foreground application, like a print server.

The AppleTalk Internet Router was tested with a variety of third-party Ethernet cards, including Dove's. At this time, we cannot recommend their use in a Macintosh acting as a router because of driver anomalies.

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