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## GS/OS 6.0 and HyperCard GS: Memory Requirements

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TOPIC -----

If I have ROM 01 IIGS, how much memory do I need to use a GS/OS application if I boot from my file server (no floppy used)?

I need to know how much memory it takes to run an Apple IIGS under GS/OS 6.0 with the following parameters:

- Full OS and a hard drive
- Boot GS/OS only, but run ProDOS applications
- Boot GS/OS and run a GS/OS application (not HyperCard)
- Boot diskette containing Local Network Startup and everything else from the server

Under 5.0.4, most things worked in 1 or 1.25MB, but I'm confused about the requirements for 6.0.

DISCUSSION -----

The minimum configurations for GS/OS 6 are the same as for 5.0.4, although increasing RAM to 2MB will provide better performance. We don't have configuration information for the specific cases you mentioned. However, published information about GS/OS 6.0 system requirements provides the following information:

### System Requirements

Standalone Apple IIGS System 6 software requires an Apple IIGS personal computer with at least 1MB of RAM, ROM version 01 or 03 and one 3.5-inch disk drive, although configurations of 2MB of RAM and a hard drive is recommended for optimal performance. Networked systems require Apple IIGS computers with at least 768K RAM, ROM version 01 or 03 and appropriate LocalTalk cables.

Exact memory requirement definition is rather dynamic because (like the Macintosh OS) you can add a variety of extensions. This makes the size of the GS/OS System file grow and shrink.

Use the "About the Finder..." menu item under the GS/OS 6 Apple Menu to find memory usage information. The About... box contains information about total memory, available memory, Finder memory usage, System, Desk Accessories and Setup files.

For example, using the "Easy Update" button in the GS/OS Installer to create a startup disk provided the following memory usage (via the About... box) in a 1MB RAM (no memory expansion card) ROM 03 Apple IIGS:

Total Memory	:	1152K
Available Memory	:	480K
Finder	:	299K
System	:	295K
Desk Accessories	:	13K
Setup Files	:	62K

The same startup disk on a ROM 01 IIGS with a 1MB RAM expansion card showed the following usage:

Total Memory	:	1280K
Available Memory	:	549K
Finder	:	299K
System	:	359K
Desk Accessories	:	13K
Setup Files	:	57K

Customize the installation to allow a larger Available Memory area and reduce the System area. The "Easy Update" installs drivers that you may not use, such as AppleDisk5.25, SCSI.Manager, SCSIHD.Driver. Not installing these would provide an additional 37K of Available Memory. You can add another 23K to Available Memory by removing all the installed CDEVs; the ROM-based Desk Accessories can handle the functions of the Easy Update CDEVs.

HyperCard GS requires 1.5MB of RAM to run on the Apple IIGS.  
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