



If you are designing an 80-column card and wish to meet these requirements, you must follow certain other considerations as well as matching the five identification bytes; the *ProDOS 8 Update Manual* enumerates these other considerations.

The *ProDOS 8 Update Manual* notes that an Apple IIGS does not switch in the 80-column firmware if it is not selected in the Control Panel. However, due to a bug in ProDOS 8 versions 1.6 and earlier, it switches in the 80-column firmware unconditionally. ProDOS 8 cannot respect the Control Panel setting for 80-column firmware in certain situations; it cannot operate in a 128K machine in a 128K configuration (including /RAM) without the presence of the 80-column firmware, since it must utilize the extra 64K. This is just one of the reasons ProDOS 8 does not recognize a card in slot 3 if it is not an 80-column card, as outlined above.

With ProDOS 8 version 1.7 and later, an Apple IIGS behaves exactly like an Apple IIe with respect to slot 3. If a card in slot 3 is selected in the Control Panel, ProDOS 8 ignores it in favor of the built-in 80-column firmware—unless the card matches the five identification bytes listed above. This works the same on a Apple IIe.

## **Further Reference**

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- *ProDOS 8 Technical Reference Manual*
- *ProDOS 8 Update Manual*
- ProDOS 8 Technical Note #11, The ProDOS 8 MACHID Byte