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Macintosh LC: VRAM Memory Map Correction

Article Created: 25 March 1991
Article Last Reviewed: 23 July 1992
Article Last Updated:

TOPIC -----

The memory map in the "Macintosh LC Computer Developer Note" shows the VRAM space as \$FC 0000-\$FF FFFF. This gives 256K of memory. How does the 512K VRAM SIMM map into this smaller area?

DISCUSSION -----

The "Macintosh LC Computer Developer Note" is wrong.

The memory spaced used by VRAM is in the following ranges:

24-bit mode	32-bit mode
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\$F4 0000 to \$FB FFFF	\$50F4 0000 to \$50FB FFFF

With the 512K VRAM SIMM installed, the entire range from \$F4 0000 to \$FB FFFF (24-bit mode) or \$50F4 0000 to \$50FB FFFF (32-bit mode) is used. (\$FB FFFF minus \$F4 0000 is \$07 FFFF, which equals 512K.)

With the 256K VRAM SIMM installed, the range from \$F4 0000 to \$F7 FFFF (24-bit mode) or \$50F4 0000 to \$50F7 FFFF (32-bit mode) is used; \$FB FFFF minus \$F7 0000 is \$03 FFFF, which equals 128K.

Note: The range from \$F8 0000 to \$FB FFFF (24-bit mode) or \$50F8 0000 to \$50FB FFFF (32-bit mode) maps to the range from \$F4 0000 to \$F7 FFFF (24-bit mode) or \$50F4 0000 to \$50F7 FFFF (32-bit mode). In other words, if a change is made to \$F8 0000, the same change will be made to \$F4 0000. The reverse holds true as well: a change to \$F4 0000 will reflect in \$F8 0000.

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Keywords: <None>

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19960215 11:05:19.00

Tech Info Library Article Number: 7819