



# Tech Info Library

## MAE: Support for 24-bit Color (1/95)

Article Created: 6 January 1995

TOPIC -----

Does MAE (Macintosh Application Environment) support 24-bit color?

DISCUSSION -----

Yes, MAE 1.0 supports 24-bit color on a Sun running Solaris or HP (Hewlett-Packard) running HP-UX workstations, as long as the underlying X display server and the window manager support 24-bit color in the X Window environment. Most X display servers on Solaris and HP-UX are X11R5 or X11R6 based, which are capable of supporting 24-bit color.

Here is a summary of MAE's graphics concept:

MAE (Macintosh Application Environment) is a software implementation of Macintosh that runs on UNIX workstations from Sun Microsystems and Hewlett-Packard. Through the use of 68LC040 emulation and some native codes, MAE provides the Macintosh System 7.1 environment in an X Window. This gives UNIX workstation users the ability to run "off-the-shelf" Macintosh applications on their workstations.

Graphics in MAE differ from graphics on an Macintosh because MAE has no physical Macintosh video card or monitor directly involved. MAE creates a virtual Macintosh monitor that applications draw to. MAE takes advantage of the fact that virtually all Macintosh applications make calls to QuickDraw to do their graphics. When the Macintosh application makes a QuickDraw call, QuickDraw updates the virtual monitor and tells MAE which part of bitmap changed; MAE then makes the appropriate X Window System calls to update the X Window.

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Keywords: ksts, knts

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19960215 11:05:19.00

Tech Info Library Article Number: 16979