












Frame-Buffer RAM Type Affects Performance

■ We tested the performance of frame-buffer RAM type using a 16MB Gateway P5-133. Matrox provided a new Millennium driver that appeared to boost the board's Winstone 96 performance considerably, but we received the driver too late for retesting.












BUSINESS APPLICATIONS

Frame-buffer RAM type makes little difference when running business apps. Tested using Winstone 96.

		8-BIT COLOR DEPTH	16-BIT COLOR DEPTH	24-BIT COLOR DEPTH
STB POWERGRAPH 64 VIDEO	EDO DRAM	 66.5	 57.9	N/A
DIAMOND STEALTH 64 VIDEO 3400XL	VRAM	 65.3	 58.7	 49.7
NUMBER NINE IMAGINE 128	VRAM	 68.7	 63.6	 54.0
MATROX MILLENNIUM	WRAM	 55.2	 52.8	 49.6

GRAPHICS PERFORMANCE

Using the graphics portion of our WinMark 96, WRAM provided the best performance, especially with 24-bit modes.

		8-BIT COLOR DEPTH	16-BIT COLOR DEPTH	24-BIT COLOR DEPTH
STB POWERGRAPH 64 VIDEO	EDODRAM	 17.1	 14.7	N/A
DIAMOND STEALTH 64 VIDEO 3400XL	VRAM	 22.8	 18.8	 14.2
NUMBER NINE IMAGINE 128	VRAM	 22.0	 19.2	 15.7
MATROX MILLENNIUM	WRAM	 25.7	 22.9	 19.3

Longer bars indicate better performance.