

Sheet1

Performance Tests: Super VGA Graphics Adapters

640-by-480 Resolution, 256 Colors

(Lower scores represent better performance)

	Aligned BitBlt Average Time (milliseconds)	Nonaligned BitBlt Average Time (milliseconds)	Screen- to-Screen BitBlt Average Time (milliseconds)
Genoa SuperVGA 6400VC	198.46	199.21	1202.52
Ahead VGA Wizard/Deluxe 5.0	179.7	179.62	474.38
Everex VRAM VGA	94.18	94.25	963.92
Prism Excelsior	87.8	87.85	641.21
PCGC Photon Ultima Turbo	68.27	71.36	125.49
ATI VGA Integra	61.34	121.48	337.38
Trident Impact III	61.15	66.47	120.68
Focus 2 the Max VGA 4000	39.18	76.06	633
ATI VGAWonder XL	37.28	37.93	72.11
SigmaVGA Legend	36.11	69.59	629.45
Cardinal VGA732	35.5	68.32	630.6
STB PowerGraph Ergo-VGA	35.37	68.36	636.06
Boca SuperVGA	35.1	67.77	623.48
Micro-Labs Ultimate VGA/HiColor	31.61	61.55	629.65
Diamond SpeedSTAR HiColor VGA	31.4	60.28	622.35
United Ultra-Image HiColor	31.26	59.77	622.29
SOTA LightningVGA	31.14	60.35	595.52
Orchid ProDesigner IIs	30.99	60.01	616.44
Micro Express VGA/72 Hz	27.79	53.36	627.69
Desktop Quikdraw VGA	22.58	45.5	142.41
Video Seven VRAM II	22.44	80.12	110.79

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Memory-to-Screen BitBlt Average Time (milliseconds)	Random Rectangles Average Time (milliseconds)	Dialog Boxes Average Time (milliseconds)	Aligned-Text Scroll Average Time (milliseconds)	Nonaligned-Text Scroll Average Time (milliseconds)	Rectangular Clipping Average Time (milliseconds)
182.03	16.96	752.89	161.94	161.93	4.31
162.61	15.16	741.67	148.52	148.68	5.07
147.39	10.21	578.12	76.44	76.63	3.72
144.13	22.55	516.9	73.57	73.7	3.66
141.88	10.66	580.63	59.52	62.44	4.17
392.74	8.66	1135.09	55.92	107.45	4.08
141.58	10.09	573.29	54.01	57.93	4.03
134.1	6.65	564.04	36.06	64.78	3.72
133.48	6.36	512.9	35.46	36.36	3.75
130.43	6.49	539.95	34.02	59.6	3.65
131.6	6.71	547.9	33.33	58.83	3.79
131.64	6.64	547.16	35.22	58.4	3.75
130.15	6.64	543.01	32.61	57.92	3.72
131.19	6.57	533.39	30.46	54.02	3.7
129.59	6.49	525.68	30.08	53.91	3.62
129.55	6.43	527.55	30.12	53.98	3.64
129.61	6.45	525.88	29.93	54.04	3.68
133.64	6.35	539.71	29.42	54.92	3.55
129.21	6.43	521.05	26.98	46.38	3.65
140.11	7.85	382.25	21.3	21.61	2.3
109.58	6.48	438.98	22.94	23.35	3.74