

## Performance Tests: Super VGA Graphics Adapters

640-by-480 Resolution, 16 Colors

(Lower scores represent better performance)

	Aligned BitBlt Average Time (milliseconds)
Genoa SuperVGA 6400VC	18.59
Ahead VGA Wizard/Deluxe 5.0	15.98
Focus 2 the Max VGA 4000	15.05
Micro Express VGA/72 Hz	14.49
SigmaVGA Legend	14.46
Cardinal VGA732	14.37
Micro-Labs Ultimate VGA/HiColor	14.37
Trident Impact III	14.35
Everex VRAM VGA	14.32
United Ultra-Image HiColor	14.29
Diamond SpeedSTAR HiColor VGA	14.27
STB PowerGraph Ergo-VGA	14.24
PCGC Photon Ultima Turbo	14.17
SOTA LightningVGA	14.16
Prism Excelsior	14.14
Boca SuperVGA	14.13
Orchid ProDesigner IIs	14.11
* Compaq Deskpro 386/25e	12.75
Desktop Quikdraw VGA	11.67
ATI VGA Integra	11.24
Video Seven VRAM II	10.91
ATI VGAWonder XL	10.12

Nonaligned BitBlt Average Time (milliseconds)	to-Screen BitBlt Average Time (milliseconds)	Memory-to- Screen BitBlt Average Time (milliseconds)
116.49	114.11	87.7
86.1	88.17	66.65
75.13	81.52	60.64
68.64	74.96	56.74
75.31	82.17	59.65
72	77.38	58.68
69.21	76.12	58.22
85.32	87.3	67.21
73.68	79.79	59.18
68.46	75.71	58.07
68.15	76.32	58.79
71.32	77.42	58.72
85.01	88.53	68.14
66.96	71.79	54.6
70.87	76.1	57.79
71.01	77.57	59.07
66.24	72.32	59.72
81.43	88.63	66.93
73.83	75.8	58.94
74.02	78.15	59.94
69.7	74.6	57.92
69.28	72.49	56.05

Random Rectangles Average Time (milliseconds)	Dialog Boxes Average Time (milliseconds)	Aligned-Text Scroll Average Time (milliseconds)
5.67	421.2	17.14
4.64	366.33	14.37
4.84	354.39	13.54
4.78	341.95	13.52
4.78	350.58	13.49
4.79	350.95	13.55
4.86	347.23	13.53
4.86	378.13	13.43
4.76	348.22	13.49
4.58	330.29	12.96
4.76	341.35	13.48
4.8	350.95	13.45
4.9	377.92	13.5
4.73	335.26	13.4
4.77	345.42	13.24
4.76	346.1	13.37
4.76	354.2	12.97
4.48	366.8	12
4.25	346.86	10.98
4.07	343.33	10.8
3.88	328.64	10.34
3.87	337.02	9.94

Nonaligned- Text Scroll Average Time (milliseconds)	Rectangular Clipping Average Time (milliseconds)
36.11	1.49
31.57	1.38
30.59	1.4
30.55	1.43
31.52	1.4
30.57	1.41
30.43	1.45
30.53	1.44
31.47	1.42
31.23	1.38
31.45	1.43
30.56	1.37
31.75	1.43
26.16	1.36
30.05	1.37
31.41	1.36
27.84	1.29
30.05	0.95
23.69	1.34
23.78	1.3
23.99	1.28
22.55	1.32

Screen-