

BENCHMARKING THE ALIENWARE AREA-51 M15X

		Alienware Area-51 m15x mobile workstation (2.8GHz Intel Core 2 Extreme CPU, NVIDIA GeForce 8800M, 4GB RAM)	Dell Precision M6300 mobile workstation (Intel Core 2 Duo T9500 2.60GHz CPU, NVIDIA Quadro FX 3600M, 2GB RAM)	HP Compaq 8710w mobile workstation (Intel Core 2 Duo T9500 2.60GHz CPU, NVIDIA Quadro FX 3600M, 2GB RAM)	Levono ThinkStation S10 workstation (Intel Core 2 Q6700 quad core 2.66GHz CPU, NVIDIA Quadro FX 4600, 2GB RAM)	Alienware Area-51 ALX Crossfire workstation (Intel Core 2 Extreme 9650 quad core 3.0GHz CPU overlocked to 4.0GHz, two ATI Radeon HD 3870, 4GB RAM)	HP xw8600 workstation (two 3.16GHz Intel quad core CPUs, NVIDIA Quadro FX 4600, 4GB RAM)	HP xw6600 workstation (two 3.0GHz Intel quad core CPUs, NVIDIA Quadro FX 1700, 2GB RAM)	HP xw4600 workstation (3.0GHz Intel dual-core CPU, NVIDIA Quadro FX 1700, 2GB RAM)	Appro Xtreme WH 5548 workstation (four 1.9GHz AMD Opteron quad-core CPUs, NVIDIA Quadro FX 5600, 32GB RAM)	Alienware MJ-12 8550L workstation (two 2.66GHz Intel Xeon 5355 CPUs, NVIDIA FX 4600, 4GB RAM)	Polywell A680X2 SLI4 (two 3.0GHz Athlon 64 FX-74, NVIDIA FX 5500, 2GB RAM)	TriStar StarStation III (2.934GHz Core 2 Extreme, NVIDIA FX 3500, 4GB RAM)
Price as tested		\$4549.00	\$3,051.00	\$3,726.00	\$2,589.00	\$6,163.00	\$6,915.00	\$4,611.00	\$2,319.00	\$9,217.00	\$8,866.00	\$5,799.00	\$3,989.00
Date tested		10/22/08	8/28/08	7/31/08	6/30/08	3/24/08	12/24/07	12/21/07	12/20/07	12/27/07	6/15/07	4/2/07	3/16/07
SPEViewperf 8.1	higher												
3dsmax-03		24.21 ²	65.55	67.11	76.01	40.05 ¹	69.23	64.64	73.88	37.28	45.14	43.64	68.02
CATIA-01		15.84 ²	53.55	54.94	62.51	21.41 ¹	59.26	54.65	59.99	32.00	42.15	40.64	56.78
Insight-01		24.08 ²	59.75	70.14	77.08	46.1 ¹	73.65	55.22	51.64	68.32	34.87	34.03	44.23
Light-07		14.34 ²	41.57	42.25	43.66	17.6 ¹	46.41	44.55	47.87	23.34	40.05	37.60	48.49
Maya-01		28.68 ²	90.07	92.54	0.00 ³	25.43 ¹	97.45	94.19	104.20	50.43	55.77	54.73	100.60
ProE-03		19.66 ²	102.70	103.30	119.00	31.03 ¹	103.10	91.32	101.80	53.66	49.32	58.57	88.24
SW-01		16.38 ²	88.08	88.18	93.06	24.53 ¹	83.65	59.27	65.09	44.62	41.26	39.51	54.44
UGS-04		19.03 ²	90.10	90.10	89.86	21.76 ¹	89.86	49.86	53.45	106.20	39.95	49.68	55.87
SPEViewperf 9.0	higher												
3dsmax-04		12.12 ⁴	33.25	34.22	37.88	19.61 ¹	35.26	33.16	37.37	19.23	n/a	n/a	n/a
catia-02		13.64 ⁴	41.85	42.57	48.25	17.06 ¹	46.11	43.01	46.98	25.30	n/a	n/a	n/a
insight-03		15.03 ⁴	39.91	40.40	43.33	24.88 ¹	41.89	31.03	30.01	38.74	n/a	n/a	n/a
light-08		11.58 ²	33.47	34.15	31.83	15.56 ¹	37.88	36.34	38.86	19.45	n/a	n/a	n/a
maya-02		25.37 ⁴	168.00	166.70	191.10	32.16 ¹	175.60	111.20	111.40	128.50	n/a	n/a	n/a
proe-04		10.28 ⁴	40.98	41.04	48.86	13.04 ¹	40.46	38.27	43.98	21.82	n/a	n/a	n/a
SW-01		17.19 ⁴	81.50	82.03	90.90	28.64 ¹	74.28	55.44	62.12	40.32	n/a	n/a	n/a
tcvis-01		4.48 ⁴	23.93	23.91	24.46	6.258 ¹	23.57	15.34	15.06	24.24	n/a	n/a	n/a
ugnx-01		4.18 ⁴	24.34	24.34	27.04	12.75 ¹	25.25	14.90	14.29	31.80	n/a	n/a	n/a
SPECapc SolidWorks 2005	lower												
Score	seconds	794.62 ²	192.92	194.23	188.01	543.91 ²	174.62	184.36	167.24	282.78	233.97	222.61	212.61
Graphics	seconds	654.28 ²	68.10	69.82	60.13	453.77 ²	57.97	61.52	57.46	89.03	97.06	90.85	80.98
CPU	seconds	48.78 ²	43.81	43.21	41.48	35.65 ²	50.52	50.03	40.40	69.12	54.55	50.80	56.40
I/O	seconds	102.65 ²	85.57	86.14	90.18	61.25 ²	69.96	77.04	73.43	125.34	87.70	85.28	80.20
SPECapc SolidWorks 2005	higher												
Score	ratio	1.33 ²	4.29	4.24	4.56	1.89 ²	4.46	4.28	4.82	2.98	3.07	3.24	3.28
Graphics	ratio	0.31 ²	2.86	2.78	3.15	0.44 ²	3.33	3.11	3.29	2.15	1.76	1.84	2.03
CPU	ratio	6.61 ²	7.37	7.47	7.72	9.05 ²	6.39	6.45	7.99	4.67	5.92	6.35	5.72
I/O	ratio	3.08 ²	3.70	3.67	3.51	5.17 ²	4.52	4.11	4.31	2.53	3.61	3.71	3.95
Autodesk 2007 Render Test	lower												
Time	seconds	n/a	302.40	401.60	216.80	97.2 ²	81.00	85.80	260.00	96.80	82.00	148.00	269.00
Autodesk 2008 Render Test	lower												
Time	seconds	291.6 ²	319.40	317.60	153.20	95.2 ¹	72.20	76.00	265.80	60.00	n/a	n/a	n/a

Numbers in blue indicate best recorded results. Numbers in orange indicate worst recorded results. Tests run on Windows XP except as noted.

Footnotes: 1. Tests run on Windows Vista with Aero features disabled. 2. Tests run on Windows Vista. 3. Dataset would not run on this system. 4. Tests run on Windows Vista using Viewperf 10.0.