

Mobile Engineering Workstations Compared											
		HP Elitebook 8540w mobile workstation with DreamColor display (1.60GHz Intel Core i7 QM720 quadcore CPU, NVIDIA Quadro FX 1800M, 8GB RAM)		Dell Precision M6500 mobile workstation (2.00GHz Intel Core i7 X920 CPU, NVIDIA Quadro FX 380M, 4GB RAM)		HP EliteBook 8530w mobile workstation (2.53GHz Intel Core 2 Duo T9400 CPU, NVIDIA Quadro FX770M, 4GB RAM)		Lenovo ThinkPad W700 mobile workstation (2.53GHz Intel Core 2 Quad Core Q9300 CPU, NVIDIA Quadro FX3700M, 4GB RAM)		Alienware Area-51 m15x mobile workstation (2.8GHz Intel Core 2 Extreme CPU, NVIDIA GeForce 8800M, 4GB RAM)	Dell Precision M6300 mobile workstation (2.60GHz Intel Core 2 Duo T9500 CPU, NVIDIA Quadro FX 3600M, 2GB RAM)
Price as tested		\$3,657		\$4,430		\$2,822		\$3,524		\$4,549	\$3,051
Date tested		12/13/10		4/23/10		12/18/8		10/22/08		10/22/08	8/28/08
Operating System		Windows XP	Windows 7	Windows XP	Windows 7	Windows XP	Windows Vista	Windows XP	Windows Vista	Windows XP	
SPECviewperf	higher										
3dsmax-04		43.31	56.10	49.56	52.35	33.38	32.21	34.23	12.12	33.25	
catia-02		53.08	59.43	64.31	61.72	42.41	39.75	45.01	13.64	41.85	
ensight-03		41.52	41.05	58.28	47.75	37.42	34.24	43.31	15.03	39.91	
maya-02		204.12	159.95	283.64	212.05	149.21	108.33	165.87	25.37	168.00	
proe-04		57.51	57.06	70.91	61.96	42.92	39.33	45.67	10.28	40.98	
SW-01		109.6	102.93	152.41	132.68	67.98	59.75	90.01	17.19	81.50	
tcvis-01		29.84	27.15	47.71	39.44	21.42	19.19	28.34	4.48	23.93	
ugnx-01		27.75	28.10	39.60	33.64	19.85	18.11	30.91	4.18	24.34	
SPECapc SolidWorks	lower										
Score	seconds	198.16	n/a	175.72	n/a	182.63	n/a	187.27	n/a	192.92	
Graphics	seconds	67.55	n/a	58.99	n/a	62.16	n/a	60.87	n/a	68.10	
CPU	seconds	45.42	n/a	37.62	n/a	39.99	n/a	44.40	n/a	43.81	
I/O	seconds	89.8	n/a	83.48	n/a	83.69	n/a	96.66	n/a	85.57	
SPECapc SolidWorks	higher										
Score	ratio	4.08	n/a	4.75	n/a	4.75	n/a	4.47	n/a	4.29	
Graphics	ratio	2.69	n/a	3.09	n/a	3.26	n/a	3.15	n/a	2.86	
CPU	ratio	7.1	n/a	8.58	n/a	8.07	n/a	7.27	n/a	7.37	
I/O	ratio	3.53	n/a	3.79	n/a	3.78	n/a	3.65	n/a	3.70	
Autodesk Render Test	lower										
Time	seconds	188.5	146.81	168.33	180.16	318.4	324.60	162.00	291.60	319.40	
Battery Test	higher										
Time	hours:min	1:28	1:21	2:06	2:05	3:21	3:00	2:15	1:20	3:00	
Numbers in blue indicate best recorded results. Numbers in red indicate worst recorded results.											