

Mobile Engineering Workstations Compared

		Eurocom D900F Panther mobile workstation (3.3GHz Intel Xeon X5680 six-core CPU, NVIDIA Quadro FX 3800M, 12GB RAM)		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 Ge- Force 8800M, 4GB RAM)	
Price as tested		\$7,467		\$3,657		\$4,430		\$2,822		\$3,524		\$4,549	
Date tested		1/14/11		12/13/10		4/23/10		12/18/8		12/22/08		10/22/08	
Operating System		Windows XP	Windows 7	Windows XP	Windows 7	Windows XP	Windows 7	Windows XP	Windows Vista	Windows XP	Windows Vista	Windows XP	Windows Vista
SPECviewperf	higher												
3dsmax-04		75.97	79.11	43.31	56.10	49.56	52.35	33.38	32.21	34.23			12.12
catia-02		85.23	82.83	53.08	59.43	64.31	61.72	42.41	39.75	45.01			13.64
ensight-03		66.02	60.10	41.52	41.05	58.28	47.75	37.42	34.24	43.31			15.03
maya-02		290.35	236.55	204.12	159.95	283.64	212.05	149.21	108.33	165.87			25.37
proe-04		84.84	77.09	57.51	57.06	70.91	61.96	42.92	39.33	45.67			10.28
SW-01		178.01	163.34	109.6	102.93	152.41	132.68	67.98	59.75	90.01			17.19
tcvis-01		47.36	42.28	29.84	27.15	47.71	39.44	21.42	19.19	28.34			4.48
ugnx-01		43.18	39.34	27.75	28.10	39.60	33.64	19.85	18.11	30.91			4.18
SPECapc SolidWorks	lower												
Score	seconds	135.63	n/a	198.16	n/a	175.72	n/a	182.63	n/a	187.27			n/a
Graphics	seconds	51.94	n/a	67.55	n/a	58.99	n/a	62.16	n/a	60.87			n/a
CPU	seconds	29.22	n/a	45.42	n/a	37.62	n/a	39.99	n/a	44.40			n/a
I/O	seconds	58.76	n/a	89.8	n/a	83.48	n/a	83.69	n/a	96.66			n/a
SPECapc SolidWorks	higher												
Score	ratio	5.66	n/a	4.08	n/a	4.75	n/a	4.75	n/a	4.47			n/a
Graphics	ratio	3.61	n/a	2.69	n/a	3.09	n/a	3.26	n/a	3.15			n/a
CPU	ratio	10.19	n/a	7.1	n/a	8.58	n/a	8.07	n/a	7.27			n/a
I/O	ratio	5.14	n/a	3.53	n/a	3.79	n/a	3.78	n/a	3.65			n/a
Autodesk Render Test	lower												
Time	seconds	57.16	51.83	188.5	46.3 ¹	168.33	180.16	318.4	324.60	162.00			291.60
Battery Test	higher												
Time	hours:min	n/a	1:17	1:28	1:21	2:06	2:05	3:21	3:00	2:15			1:20

Numbers in **blue** indicate best recorded results. Numbers in **red** indicate worst recorded results.