

Engineering Mobile Workstations Compared

		Eurocom P150HM Racer (2.70GHz Intel Core i7-2960XM quad-core CPU, NVIDIA Quadro 5010M, 16GB RAM)	HP EliteBook 8560w (2.30GHz Intel Core i7-2820QM quad-core CPU, NVIDIA Quadro 2000M, 16GB RAM)	Eurocom Panther 3.0 (3.46GHz Intel Xeon 5690 six-core CPU, NVIDIA Quadro 5010M, 12GB RAM)	Eurocom D900F Panther (3.3GHz Intel Xeon X5680 six-core CPU, NVIDIA Quadro FX 3800M, 12GB RAM)		HP Elitebook 8540w with DreamColor display (1.60GHz Intel Core i7 QM720 quadcore CPU, NVIDIA Quadro FX 1800M, 8GB RAM)		Dell Precision M6500 (2.00GHz Intel Core i7 X920 CPU, NVIDIA Quadro FX 380M, 4GB RAM)		HP EliteBook 8530w (2.53GHz Intel Core 2 Duo T9400 CPU, NVIDIA Quadro FX770M, 4GB RAM)		Lenovo ThinkPad W700 (2.53GHz Intel Core 2 Quad Core Q9300 CPU, NVIDIA Quadro FX3700M, 4GB RAM)
Price as tested		\$4,933	\$4,063	\$8,027	\$7,467		\$3,657		\$4,430		\$2,822		\$3,524
Date tested		5/1/12	5/1/12	8/20/11	1/14/11		12/13/10		4/23/10		12/18/08		10/22/08
Operating System		Windows 7	Windows 7	Windows 7	Windows XP	Windows 7	Windows XP	Windows 7	Windows XP	Windows 7	Windows XP	Windows Vista	Windows XP
SPECviewperf	higher												
3dsmax-04		77.46	71.23	74.50	75.97	79.11	43.31	56.10	49.56	52.35	33.38	32.21	34.23
catia-02		104.07	80.96	95.31	85.23	82.83	53.08	59.43	64.31	61.72	42.41	39.75	45.01
ensight-03		108.74	63.97	101.50	66.02	60.10	41.52	41.05	58.28	47.75	37.42	34.24	43.31
maya-02		413.45	233.93	407.90	290.35	236.55	204.12	159.95	283.64	212.05	149.21	108.33	165.87
proe-04		111.08	74.69	95.73	84.84	77.09	57.51	57.06	70.91	61.96	42.92	39.33	45.67
SW-01		203.03	138.60	198.76	178.01	163.34	109.6	102.93	152.41	132.68	67.98	59.75	90.01
tcvis-01		94.65	47.24	91.18	47.36	42.28	29.84	27.15	47.71	39.44	21.42	19.19	28.34
ugnx-01		86.39	37.16	86.62	43.18	39.34	27.75	28.10	39.60	33.64	19.85	18.11	30.91
SPECapc SolidWorks	lower												
Score	seconds	123.33 ²	131.17 ²	n/a	135.63	n/a	198.16	n/a	175.72	n/a	182.63	n/a	187.27
Graphics	seconds	42.36 ²	44.76 ²	n/a	51.94	n/a	67.55	n/a	58.99	n/a	62.16	n/a	60.87
CPU	seconds	38.78 ²	39.37 ²	n/a	29.22	n/a	45.42	n/a	37.62	n/a	39.99	n/a	44.40
I/O	seconds	42.19 ²	47.04 ²	n/a	58.76	n/a	89.8	n/a	83.48	n/a	83.69	n/a	96.66
SPECapc SolidWorks	higher												
Score	ratio	3.67 ²	3.67 ²	n/a	5.66	n/a	4.08	n/a	4.75	n/a	4.75	n/a	4.47
Graphics	ratio	4.21 ²	4.37 ²	n/a	3.61	n/a	2.69	n/a	3.09	n/a	3.26	n/a	3.15
CPU	ratio	3.16 ²	3.11 ²	n/a	10.19	n/a	7.1	n/a	8.58	n/a	8.07	n/a	7.27
I/O	ratio	3.35 ²	3.01 ²	n/a	5.14	n/a	3.53	n/a	3.79	n/a	3.78	n/a	3.65
Autodesk Render Test	lower												
Time	seconds	76.66	89.83	53.3 ¹	57.16	51.83	188.5	146.81	168.33	180.16	318.4	324.60	162.00
Battery Test	higher												
Time	hours: min	1:50	2:37	0:38	n/a	1:17	1:28	1:21	2:06	2:05	3:21	3:00	2:15

Numbers in blue indicate best recorded results. Numbers in red indicate worst recorded results. 1=Hyper-threading enabled. 2=Results based on SPECapcSW2007 benchmark.