

Benchmarking the HP xw8600 Workstation

		HP xw8600 workstation (two 3.4GHz Intel Xeon X5492 quad core CPUs, NVIDIA Quadro FX 4800, 4GB RAM)		Lenovo Thinkstation S10 workstation (2.66GHz Intel Core 2 Q6700 quad core CPU, NVIDIA Quadro FX 4600, 2 GB RAM)	Alienware Area-51 ALX Crossfire workstation (Intel Core 2 Extreme 9650 quad core 3.0GHz CPU overlocked to 4.0 GHz, 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)
Price as tested		\$9,307.00		\$2,589.00	\$6,163.00	\$6,915.00	\$4,611.00	\$2,319.00	\$9,217.00
Date tested		12/22/08		6/30/08	3/24/08	12/24/07	12/21/07	12/20/07	12/27/07
Operating System		Windows XP	Windows Vista	Windows XP	Windows Vista	Windows XP	Windows XP	Windows XP	Windows XP
SPECviewperf	higher								
3dsmax-04		52.24	54.61	37.88	19.61	35.26	33.16	37.37	19.23
catia-02		63.17	62.48	48.25	17.06	46.11	43.01	46.98	25.30
ensight-03		54.44	50.82	43.33	24.88	41.89	31.03	30.01	38.74
maya-02		234.50	193.15	191.10	32.16	175.60	111.20	111.40	128.50
proe-04		52.73	57.15	48.86	13.04	40.46	38.27	43.98	21.82
SW-01		109.91	119.29	90.90	28.64	74.28	55.44	62.12	40.32
tcvis-01		29.84	27.58	24.46	6.26	23.57	15.34	15.06	24.24
ugnx-01		34.17	31.14	27.04	12.75	25.25	14.90	14.29	31.80
SPECcap SolidWorks	lower								
Score	seconds	164.71	n/a	188.01	n/a	174.62	184.36	167.24	282.78
Graphics	seconds	54.18	n/a	60.13	n/a	57.97	61.52	57.46	89.03
CPU	seconds	44.36	n/a	41.48	n/a	50.52	50.03	40.40	69.12
I/O	seconds	69.96	n/a	90.18	n/a	69.96	77.04	73.43	125.34
SPECcap SolidWorks	higher								
Score	ratio	4.84	n/a	4.56	n/a	4.46	4.28	4.82	2.98
Graphics	ratio	3.55	n/a	3.15	n/a	3.33	3.11	3.29	2.15
CPU	ratio	7.27	n/a	7.72	n/a	6.39	6.45	7.99	4.67
I/O	ratio	4.52	n/a	3.51	n/a	4.52	4.11	4.31	2.53

Numbers in **blue** indicate best recorded results. Numbers in **orange** indicate worst recorded results. Results are shown separately for portable and desktop workstations.