

ThinkStation D20 Workstation Benchmark

		Lenovo D20 workstation (two 2.66GHz Intel Xeon X5550 quad core CPUs, NVIDIA Quadro FX 4800, 8GB RAM)		Dell Precision T3500 workstation (one 2.27GHz Intel Xeon E5520 quad core CPU NVIDIA Quadro FX 3800, 4GB RAM)		Lenovo S20 workstation (one 2.93GHz Intel Xeon W3540 quad core CPU, NVIDIA Quadro FX 4800, 4GB RAM)		HP Z800 workstation (two 3.2GHz Intel Xeon X5580 quad core CPUs, NVIDIA Quadro FX 4800, 12GB RAM)		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)
Price as tested		\$5,943		\$2,544		\$3,885		\$10,604		\$9,307		\$2,589
Date tested		1/11/10		7/30/09		7/29/09		4/24/09		12/22/08		6/30/08
Operating System		Windows XP	Windows Vista	Windows XP	Windows Vista	Windows XP	Windows Vista	Windows XP 64	Windows Vista 64	Windows XP	Windows Vista	Windows XP
SPECviewperf	higher											
3dsmax-04		50.38	51.21	39.91	42.75	48.43	52.59	50.55	51.51	52.24	54.61	37.88
catia-02		61.79	62.01	51.85	53.33	60.40	60.61	62.10	61.66	63.17	62.48	48.25
ensight-03		55.26	53.51	47.26	47.84	51.74	55.33	53.99	53.62	54.44	50.82	43.33
maya-02		250.41	223.73	220.79	199.04	232.92	207.87	213.80	209.74	234.50	193.15	191.10
proe-04		64.83	63.66	55.67	55.54	61.56	64.49	63.59	61.48	52.73	57.15	48.86
SW-01		144.17	145.19	123.28	120.57	136.81	139.54	135.24	128.08	109.91	119.29	90.90
tcvis-01		40.55	39.51	28.71	28.07	29.17	38.76	28.93	28.29	29.84	27.58	24.46
ugnx-01		34.93	34.52	33.40	32.27	33.41	33.19	33.34	32.38	34.17	31.14	27.04
SPECapc SolidWorks	lower											
Score	seconds	141.59	n/a	178.39	n/a	140.42	n/a	145.17	n/a	164.71	n/a	188.01
Graphics	seconds	41.48	n/a	62.99	n/a	47.33	n/a	41.31	n/a	54.18	n/a	60.13
CPU	seconds	33.00	n/a	36.68	n/a	31.01	n/a	32.68	n/a	44.36	n/a	41.48
I/O	seconds	67.73	n/a	83.35	n/a	65.86	n/a	71.94	n/a	69.96	n/a	90.18
SPECapc SolidWorks	higher											
Score	ratio	6.28	n/a	4.66	n/a	5.91	n/a	6.38	n/a	4.84	n/a	4.56
Graphics	ratio	4.68	n/a	2.92	n/a	3.92	n/a	4.85	n/a	3.55	n/a	3.15
CPU	ratio	9.78	n/a	8.80	n/a	10.41	n/a	9.87	n/a	7.27	n/a	7.72
I/O	ratio	4.67	n/a	3.80	n/a	4.81	n/a	4.40	n/a	4.52	n/a	3.51
Autodesk Render Test	lower											
Time	seconds	64.00	63.60	118.20	125.00	99.00	117.60	59.00	52.00	64.40	67.60	153.20

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