

Mobile Workstations Compared	Dell Precision 5750	Dell Precision 5550	Lenovo ThinkPad P1 G2 OLED	Lenovo ThinkPad X1 Extreme G2 OLED	HP Zbook 17 G6	Dell Precision 7540
	17.3-in. mobile workstation (2.40GHz Intel Xeon W-10885M 8-core CPU, NVIDIA Quadro RTX 3000 w/Max-Q Design, 32GB RAM, 1TB NVMe PCIe SSD)	15.6-in. mobile workstation (2.30GHz Intel Core i7-10875H 8-core CPU, NVIDIA Quadro T2000, 32GB RAM, 1TB NVMe PCIe SSD)	15.6-in. mobile workstation (2.80GHz Intel Xeon E-2276M 6-core CPU, NVIDIA Quadro T2000, 32GB RAM, 1TB NVMe PCIe SSD)	15.6-in. mobile workstation (2.60GHz Intel Core i7-9850H 6-core CPU, NVIDIA GeForce GTX 1650, 32GB RAM, 1TGB NVMe PCIe SSD)	17.3-in. mobile workstation (2.40GHz Intel Xeon E-2286M 8-core CPU, NVIDIA Quadro RTX 5000, 32GB RAM, 512GBB NVMe PCIe SSD)	15.6-in. mobile workstation (2.40GHz Intel Core i9-9980H 8-core CPU, NVIDIA Quadro RTX 3000, 32GB RAM, 512GBB NVMe PCIe SSD)
Price as tested	\$5,219	\$4,355	\$3,133	\$2,794	\$5,654	\$3,646
Date tested	8/28/20	6/24/20	2/16/20	2/16/20	1/24/2019	10/25/2019
Operating System	Windows 10 Pro 64	Windows 10 Pro 64	Windows 10 Pro 64	Windows 10 Pro 64	Windows 10 Pro 64	Windows 10 Pro 64
SPECviewperf 13.0 (higher is better)						
3dsmax-06	132.73	91.74	76.32	85.73	185.09	155.08
catia-05	173.75	147.96	126.46	56.36	279.31	209.89
creo-02	159.58	116.59	101.20	75.12	243.95	187.29
energy-02	29.78	17.31	17.11	6.37	42.15	31.69
maya-05	153.66	112.25	102.12	100.62	272.88	183.66
medical-02	73.08	51.11	47.95	24.57	91.59	63.63
showcase-02	74.54	43.99	36.50	36.83	93.46	78.72
snx-03	189.01	144.50	191.81	11.29	361.04	217.45
sw-04	110.18	100.81	86.57	53.45	158.92	130.57
SPECapc SolidWorks 2015 (higher is better)						
Graphics Composite	3.82	3.43	2.81	n/a	5.24	4.27
Shaded Graphics Sub-Composite	1.94	1.77	1.41	n/a	3.23	2.55
Shaded w/Edges Graphics Sub-Composite	2.88	2.67	2.03	n/a	4.21	3.37
Shaded using RealView Sub-Composite	2.62	2.42	1.91	n/a	3.90	3.08
Shaded w/Edges using RealView Sub-Composite	3.47	3.28	2.60	n/a	4.54	3.83
Shaded using RealView and Shadows Sub-Composite	3.04	2.85	2.23	n/a	4.48	3.42
Shaded with Edges using RealView and Shadows Graphics Sub-Composite	3.67	3.45	2.76	n/a	4.85	3.92
Shaded using RealView and Shadows and Ambient Occlusion Graphics Sub-Composite	9.86	7.51	6.92	n/a	13.41	11.30
Shaded with Edges using RealView and Shadows and Ambient Occlusion Graphics Sub-Composite	10.68	8.64	7.79	n/a	13.20	11.13
Wireframe Graphics Sub-Composite	3.85	3.53	3.13	n/a	4.00	3.91
CPU Composite	3.55	3.09	3.19	n/a	3.06	3.76
SPEC Workstation v3 (higher is better)						
Media and Entertainment	2.20	1.93	1.63	1.70	1.87	1.88
Product Development	2.29	2.09	1.62	1.57	1.81	1.91
Life Sciences	2.15	1.59	1.54	1.31	1.94	1.67
Financial Services	2.13	1.54	1.53	1.17	1.96	1.75
Energy	1.43	1.30	0.99	0.99	1.32	1.36
General Operations	1.92	1.96	1.90	1.84	1.55	1.72
GPU Compute	3.09	1.91	1.79	1.84	3.34	3.20
Time						
AutoCAD Render Test (in seconds, lower is better)	35.60	38.9	49.00	44.10	35.40	34.80
Battery Life (in hours:minutes, higher is better)	10:30	10:22	7:14	6:45	4:45	7:51