

Compact Workstations Compared

Dell Precision 3240 Compact workstation

(one 3.7GHz Intel Xeon W-1290 10-core CPU, NVIDIA Quadro RTX 3000, 32GB RAM, 1TB SSD)

HP Z2 Small Form Factor G4 workstation

(one 3.8GHz Intel Xeon E-2174G Intel Xeon E-2174G quad-core CPU, NVIDIA Quadro P1000, 32GB RAM, 256GB Z Turbo SSD, 1TB SATA HD)

Lenovo ThinkStation P320 Tiny workstation

(one 2.90GHz Intel Core i7-7700T Intel Core i7-7700T quad-core CPU, NVIDIA Quadro P600, 16GB RAM, 512GB SSD)

HP Z2 Mini G3 workstation

(one 3.2GHz Intel Core i7-6700 quad-core CPU, NVIDIA Quadro M620, 32GB RAM, 250GB SSD and 1TB SATA HD)

Price as tested	\$2,893.00	\$1,949.00	\$1,479.00	\$1,698.00
Date tested	12/19/20	8/26/18	9/8/17	1/20/17
Operating System	Windows 10 Pro	Windows 10 Pro 64	Windows 10 Pro	Windows 10 Pro
SPECviewperf 13.0 (higher is better)				
3dsmax-06	116.11	61.02	n/a	n/a
catia-05	170.30	89.74	n/a	n/a
creo-02	171.61	75.51	n/a	n/a
energy-02	22.82	4.56	n/a	n/a
maya-05	175.54	78.69	n/a	n/a
medical-02	64.72	15.05	n/a	n/a
showcase-02	63.78	23.62	n/a	n/a
snx-03	192.66	107.91	n/a	n/a
sw-04	115.63	94.57	n/a	n/a
SPECapc SolidWorks 2015 (higher is better)				
Graphics Composite	4.28	4.17	2.59	2.51
Shaded Graphics Sub-Composite	2.86	3.13	1.99	2.04
Shaded w/Edges Graphics Sub-Composite	3.48	4.05	2.46	2.58
Shaded using RealView Sub-Composite	3.21	3.46	2.17	1.94
Shaded w/Edges using RealView Sub-Composite	3.68	3.92	2.60	3.33
Shaded using RealView and Shadows Sub-Composite	3.64	3.87	2.25	1.73
Shaded with Edges using RealView and Shadows Graphics Sub-Composite	3.83	4.08	2.55	2.84
Shaded using RealView and Shadows and Ambient Occlusion Graphics Sub-Composite	11.51	6.03	3.97	2.21
Shaded with Edges using RealView and Shadows and Ambient Occlusion Graphics Sub-Composite	10.89	6.75	4.49	3.37
Wireframe Graphics Sub-Composite	2.90	3.89	2.05	3.46
CPU Composite	2.53	2.53	1.67	2.78
SPEC Workstation v3 (higher is better)				
Media and Entertainment	1.18	n/a	n/a	n/a
Product Development	1.33	n/a	n/a	n/a
Life Sciences	1.11	n/a	n/a	n/a
Financial Services	0.85	n/a	n/a	n/a
Energy	0.76	n/a	n/a	n/a
General Operations	1.18	n/a	n/a	n/a
GPU Compute	2.57	n/a	n/a	n/a
Time				
AutoCAD Render Test (in seconds, lower is better)	70.40	45.10	109.90	62.40

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