

# Mobile Workstations Compared

	<b>Origin PC NT-15</b> Quadro15.6-inch 2.20GHz Intel Core i7-8750HJ 6-core CPU, NVIDIA Quadro P4200, 32GB RAM, 1TB NVMe PCIe SSD, 2TB 5400rpm SATA HD	<b>MSI WS65 8SK</b> 15.6-inch 2.90GHz Intel Core i9-8950HJ 6-core CPU, NVIDIA Quadro P3200, 32GB RAM, 512GB NVMe PCIe SSD	<b>Eurocom Tornado F7W</b> 17.3-inch 3.60GHz Intel Core i9-9900K 8-core CPU, NVIDIA Quadro P5200, 64GB RAM, 500GB NVMe PCIe SSD, 2TB HD	<b>Lenovo ThinkPad P1</b> 15.6-inch mobile 2.70GHz Intel Xeon E-2176M 6-core CPU, NVIDIA Quadro P2000, 32GB RAM, 2TB NVMe PCIe SSD	<b>Dell Precision 3530</b> 15.6-inch 2.7GHz Intel Xeon E-2176M 6-core CPU, NVIDIA Quadro P600, 32GB RAM, 512GB NVMe PCIe SSD	<b>@Xi PowerGo XT 2018</b> 17.3-inch 4.0GHz Intel Core i7-8086K 6-core CPU, NVIDIA Quadro P4200, 32GB RAM, 500GB NVMe PCIe SSD
Price as tested	\$3,938	\$3,249	\$7,346	\$3,788	\$2,738	\$4,558
Date tested	3/11/19	12/12/18	12/12/18	10/24/18	8/28/18	8/7/18
Operating System	Windows 10	Windows 10	Windows 10	Windows 10	Windows 10	Windows 10
SPECviewperf 12 (higher is better)						
catia-04	108.43	115.38	183.15	64.58	38.67	165.95
creo-01	108.98	97.82	151.79	52.95	42.99	138.65
energy-01	12.39	12.46	20.03	6.50	3.12	14.87
maya-04	75.34	91.69	139.69	41.74	38.42	128.84
medical-01	51.25	60.10	94.74	27.81	12.61	63.65
showcase-01	76.38	61.83	80.91	29.91	19.70	73.41
snx-02	118.76	137.83	214.49	61.50	37.25	172.95
sw-03	124.44	123.80	201.96	76.73	70.59	181.61
SPECapc SOLIDWORKS 2015 (higher is better)						
Graphics Composite	3.80	4.67	5.84	2.58	4.77	5.32
Shaded Graphics Sub-Composite	2.26	2.98	4.03	1.33	3.17	3.48
Shaded w/Edges Graphics Sub-Composite	3.08	3.88	4.99	1.91	4.06	4.38
Shaded using RealView Sub-Composite	2.70	3.37	4.49	1.76	3.59	3.87
Shaded w/Edges using RealView Sub-Composite	3.19	3.89	5.08	2.29	4.07	4.36
Shaded using RealView and Shadows Sub-Composite	3.13	3.87	5.11	2.05	4.10	4.46
Shaded with Edges using RealView and Shadows Graphics Sub-Composite	3.39	4.11	5.28	2.45	4.26	4.61
Shaded using RealView and Shadows and Ambient Occlusion Graphics Sub-Composite	10.11	12.97	13.83	6.35	11.20	14.75
Shaded with Edges using RealView and Shadows and Ambient Occlusion Graphics Sub-Composite	9.80	12.14	13.68	6.87	11.01	13.51
Wireframe Graphics Sub-Composite	3.50	3.69	4.45	3.06	3.85	4.15
CPU Composite	2.78	4.58	3.86	2.85	4.55	5.40
SPECwpc v2.0 (higher is better)						
Media and Entertainment	2.89	3.22	5.15	3.13	2.23	4.14
Product Development	3.05	3.22	4.95	2.94	2.29	2.70
Life Sciences	3.21	3.60	6.19	3.66	2.26	4.40
Financial Services	3.73	4.11	6.16	4.20	3.34	5.37
Energy	5.37	3.56	5.62	5.02	2.28	4.08
General Operations	1.37	1.38	1.96	1.67	1.30	1.55
Time						
Autodesk Render Test (in seconds, (lower is better)	63.80	35.50	34.10	46.40	63.10	29.30
Battery Life (in hours:minutes, higher is better)	4:05	9:01	4:40	7:08	9:26	3:56

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