



### RETURN ON INVESTMENT

Achieve payback of the upgrade cost in as few as 15 hours of resource-intensive tasks

Value calculated using increased productivity based on the SPECworkstation 3 Energy subtest score

### EVERYDAY PERFORMANCE

Accomplish day-to-day productivity tasks faster with up to 12% better system responsiveness

Based on SYSmark 2018 and HDXPRT 4 overall performance scores

### RESOURCE-INTENSIVE WORK

Get projects out the door faster with up to 82% better material preparation response times

Based on SPECworkstation 3, Cinebench R20, and PugetBench overall performance scores

## Increase output and productivity with the Dell Precision 3551 mobile workstation

### Compared to the Dell Latitude 5511 laptop

If you're tackling design, media, or photography projects, consider upgrading to a Dell™ Precision™ mobile workstation instead of a Latitude™ laptop. Mobile workstations can come with a superior processor, advanced graphics, additional memory, and are specifically designed to perform those resource-intensive tasks. This increased capability can come at a steeper price, but our research shows that, in this case, the performance benefits quickly outweigh the difference in cost.

We conducted system performance benchmark and scenario-based testing. Then, we calculated how long it could take to pay back the additional cost of the workstation for each task on these systems, both equipped with the same 1TB PCIe™ SSD storage drive during testing.\*

**Dell Precision 3551 mobile workstation** powered by a 10th Gen Intel® Core™ 19-10885H (8-core) processor with NVIDIA® Quadro™ P620 graphics and 64 GB of memory.

**Dell Latitude 5511 laptop** powered by a 10th Gen Intel Core i7-10850H (6-core) processor with NVIDIA GeForce® MX250 graphics and 16 GB of memory.

**ROI calculations:** As of December 9, 2020, the entry-level mobile workstation we tested cost \$699.73 more than the premium laptop we tested.<sup>1,2</sup> Our ROI calculations are based on the average hourly compensation for workers classified by the Bureau of Labor Statistics as 'professional and technical services' workers. These include occupations such as architects, advertising and design professionals, and CAD workers. This average compensation is \$57.18 per hour.<sup>3</sup> For a full breakdown of costs and projections, read the [science behind the report](#).



Dell Precision 3551 Mobile Workstation

## Everyday performance

Based on these performance wins from our tested tasks, you could recoup the upgrade cost in as few as 103 hours.

### SYSmark® 2018 benchmark results

**10% better responsiveness during day-to-day tasks**

Overall performance scores: **1,834** vs 1,659

### HDXPRT 4 benchmark results

**12% better responsiveness during common media tasks**

Overall scores: **111** vs 99

■ Dell Precision 3551 with an Intel Core i9-10885H processor ■ Dell Latitude 5511 with an Intel Core i7-10850H processor

## Specialized workloads

Based on these benchmark results, you could achieve payback of the upgrade cost in as few as 15 hours and an average of 44 hours when tackling these specialized workloads.

### SPECworkstation® 3 benchmark results

**Up to 82% better responsiveness across diverse tasks**

Energy subset scores: **1.13** vs 0.62

■ Dell Precision 3551 with an Intel Core i9-10885H processor ■ Dell Latitude 5511 with an Intel Core i7-10850H processor

\*The SPECworkstation 3 benchmark requires 1 TB of storage space to run, and the Latitude laptop we tested shipped with a Class 40 512 MB SSD. Because we wanted to run this benchmark on both systems, we replaced the 512MB storage in the Latitude laptop with the Class 50 1TB storage drive from the Precision, and tested the systems sequentially. We chose this path to make the test as fair as reasonably possible given the requirements of the SPECworkstation 3 benchmark.

## Resource-intensive applications

In this section, we report how long it took each system to complete two Adobe® Creative Cloud® workflows and several benchmark scores. To see the ROI figures for these results, read the [science behind the report](#).

### Adobe Photoshop® scenario-based workflow

**17% less time to complete**

Time to complete tasks: **122.6 sec** vs 147.8 sec

### Adobe Lightroom® scenario-based workflow

**19% less time to complete**

Time to complete tasks: **39.6 sec** vs 48.9 sec

### SPECviewperf 13® benchmark results

**Up to 15x better 3D graphics performance across diverse workloads**

energy-02 scores: **7.9** vs 0.4

■ Dell Precision 3551 with an Intel Core i9-10885H processor ■ Dell Latitude 5511 with an Intel Core i7-10850H processor

- 1 Dell, "Latitude 5511 Laptop," accessed December 10, 2020, <https://www.dell.com/en-us/work/shop/dell-laptops-and-notebooks/latitude-5511-laptop/spd/latitude-15-5511-laptop/ct-o31551115us?view=configurations&configurationid=c3e3d50c-474b-4d13-a9a0-0180da37ebc6>.
- 2 Dell, "New Precision 3551 Mobile Workstation," accessed December 10, 2020, [https://www.dell.com/en-us/work/shop/workstations-isv-certified/new-precision-3551-mobile-workstation/spd/precision-15-3551-laptop/xctop355115us\\_vivp?view=configurations&configurationid=4adce606-e961-4f4f-a2dc-8940e3a2c307](https://www.dell.com/en-us/work/shop/workstations-isv-certified/new-precision-3551-mobile-workstation/spd/precision-15-3551-laptop/xctop355115us_vivp?view=configurations&configurationid=4adce606-e961-4f4f-a2dc-8940e3a2c307).
- 3 U.S. Bureau of Labor "Industries at a Glance: Professional, Scientific, and Technical Services: NAICS 54," accessed December 11, 2020, <https://www.bls.gov/iag/tgs/iag54.htm>.

Read the report at <http://facts.pt/003KDol> ▶



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