

DELL™ LATITUDE™ E6400 PERFORMS!



Dell commissioned Principled Technologies (PT) to test the performance and features of the Dell Latitude E6400, the HP EliteBook 6930p and the Lenovo ThinkPad T400. Below are the results of the testing:

THE LATITUDE E6400:

• **Maximum Battery Life Configurations:**

E6400 ran 20 hours 9 minutes, 5.7% longer than Dell's published 19 hour battery life claim.

Subsequently, the HP EliteBook 6930p ran 21 hours and 4 minutes; 13.9% less than HP's 24 hour claim.

• **Charge Time:**

E6400 with a 6-cell battery charged to 83% capacity in one hour.

HP and Lenovo reached only 66% charge capacity after one hour with a 6-cell battery.

• **Boot time:**

11.8% faster than HP and 29.8% faster than Lenovo systems.

• **Weight:**

Lightest of all three systems at 82 ounces (2.33kg) (6-cell configuration).

• **Delivery:**

E6400 arrived just six days after ordered; HP took 17 days, Lenovo 12 days.

• **Ease of upgrade:**

The time needed to upgrade key components was 70% faster than HP and 58% faster than Lenovo.

Principled Technologies® TEST REPORT
JANUARY 2009

Dell™ Latitude™ E6400 notebook competitive analysis

Executive summary

Dell Inc. (Dell) commissioned Principled Technologies (PT) to test the performance and features of three notebook systems:

- Dell Latitude E6400
- HP EliteBook 6930p
- Lenovo ThinkPad T400

We performed tests to determine which of the three systems

- charged most quickly
- booted most quickly
- weighed the least
- arrived most quickly after ordering
- made upgrading hardware components the easiest
- had the longest-lasting battery

As our Key Findings state, the Dell Latitude E6400 beat the other two systems on every measure except for battery life, where results ranged depending on configuration. The Test Methodology section provides detail on our tests and Appendix A details the system configurations.

KEY FINDINGS

- After one hour of charge time on a 6-cell battery, the Dell Latitude E6400 battery was 83 percent charged. Both the HP EliteBook 6930p and Lenovo ThinkPad T400 charged to 66 percent of capacity in the same period of time (see Figure 1).
- Boot time for the Dell Latitude E6400 was the fastest, coming in 11.8 percent faster than the HP EliteBook 6930p and 29.8 percent faster than the Lenovo ThinkPad T400 (see Figure 2).
- The Dell Latitude E6400 was the lightest of all three systems at 82.0 ounces (see Figure 3).
- The Dell Latitude E6400 arrived just 6 days after we ordered it, it took 17 days for the HP system to arrive, and 12 days for the Lenovo system (see Figure 4).
- Time needed to upgrade key components was 70.8 percent faster in the Dell Latitude E6400 vs. the HP EliteBook 6930p and 58 percent faster than the Lenovo ThinkPad T400 (see Figure 5).
- The Dell Latitude E6400 in its maximum battery life configuration lasted 20 hours and 9 minutes—5.7 percent longer than Dell's published claim of 19 hours (Figure 6)

Percentage battery charge after one hour

System	Percentage
Dell Latitude E6400	83.00%
HP EliteBook 6930p	66.67%
Lenovo ThinkPad T400	66.33%

Percentage battery charge after one hour

To see how quickly the three systems with a 6-cell battery charged, we measured the percentage of battery charge after one hour with the system turned off. The Dell Latitude E6400 achieved 83.00 percent of total charge capacity; a 24.5 percent improvement over the HP EliteBook 6930p's charge capacity of 66.67 percent and a 27.0 percent improvement over the Lenovo ThinkPad T400's charge capacity of 66.33 percent (see Figure 1).

Figure 1: Percentage battery charge for the standard battery for the three test systems. Higher numbers are better.

Source: Principled Technologies, "Dell Latitude E6400 notebook competitive analysis," a January 2009 report commissioned by Dell. Actual performance will vary based on configuration, usage and manufacturing variability.

For full test results and methodologies see the complete report posted at:

<http://www.principledtechnologies.com/Clients/Reports/Dell/E64001208.pdf>