The latest HP EliteDesk 800 desktop with Intel Optane vs. last generation's model with more RAM:[1]

Which HP EliteDesk 800 desktop delivered better performance and lower cost?

Intel® Optane™ memory can boost system responsiveness more than adding extra RAM

Better desktop performance at a lower cost

We performed tasks using two HP EliteDesk 800 Series desktops:[2]

EliteDesk 800 G3
with 32GB RAM

EliteDesk 800 G4 with 16GB RAM +
16GB Intel Optane memory

The G4 with Intel Optane…

Took up to
86% less time
to perform everyday tasks

Opening Adobe® Photoshop® and launching a project:

**EliteDesk 800 G4
16GB RAM +
16GB Intel Optane**

 8.6s

**EliteDesk 800 G3
32GB RAM**

 64.9s

Had an
11% lower
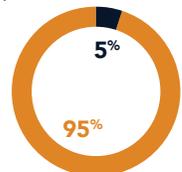### purchase price[3]

$1,926

$1,706

$

$

EliteDesk 800
G3 32GB RAM

EliteDesk 800 G4 16GB RAM + 16GB Intel Optane

Could deliver savings of
over $4 million
across 1,000 users over three years

1y 2y 3y

Estimated desktop hardware savings
$220,000
Estimated staff productivity savings
$4,541,738

5%

95%

$4,761,738

Dive into the details of our research at http://facts.pt/rj2uojy

1 Intel Optane memory (cache) is sold separately. Intel Optane memory system acceleration does not replace or increase the DRAM in your system. Available for HP commercial desktops and notebooks and for select HP workstations (HP Z240 Tower/SFF, Z2 Mini, ZBook Studio, 15 G5, and 17 G5) and requires a SATA HDD, 7th Gen or higher Intel Core® processor or Intel Xeon® processor E3-1200 V6 product family or higher, BIOS version with Intel Optane supported, Microsoft® Windows 10 version 1703 or higher, M.2 type 2280-S1-B-M connector on a PCH Remapped PCIe Controller and Lanes in a x2 or x4 configuration with B-M keys that meet NVMe Spec 1.1, and an Intel Rapid Storage Technology (Intel RST) 15.5 driver.

2 Complete configurations for both systems appear in the science addendum to the test report http://facts.pt/36uqui7.

3 HP online store, accessed October 25, 2018, https://store.hp.com/us/en.

DISCLAIMER: The January 2019 Principled Technologies reports were commissioned by HP. We have based the results of the calculations on a combination of a variety of features and functionalities under comparison and use industry figures and/or costs to determine the potential ROI savings customers may derive from the use of the HP products. We present these values not to represent actual savings a customer may expect to see but solely to illustrate potential savings. Many factors and variables may affect whether any customer sees any potential savings.