

# Smart ROI from the Dell Precision T1600



If your job requires you to do professional 2D CAD (Computer Aided Drafting), entry-level 3D CAD or 2D design such as photo editing or web development, then you know the demanding performance you require from your computer. Maybe you've considered a workstation in the past but couldn't justify the additional cost. Now with the Dell Precision™ T1600 you can afford a productivity-boosting workstation without breaking your budget. The data below will show you that although the up-front cost of a workstation is higher the increase in productivity makes for a smart return on investment.

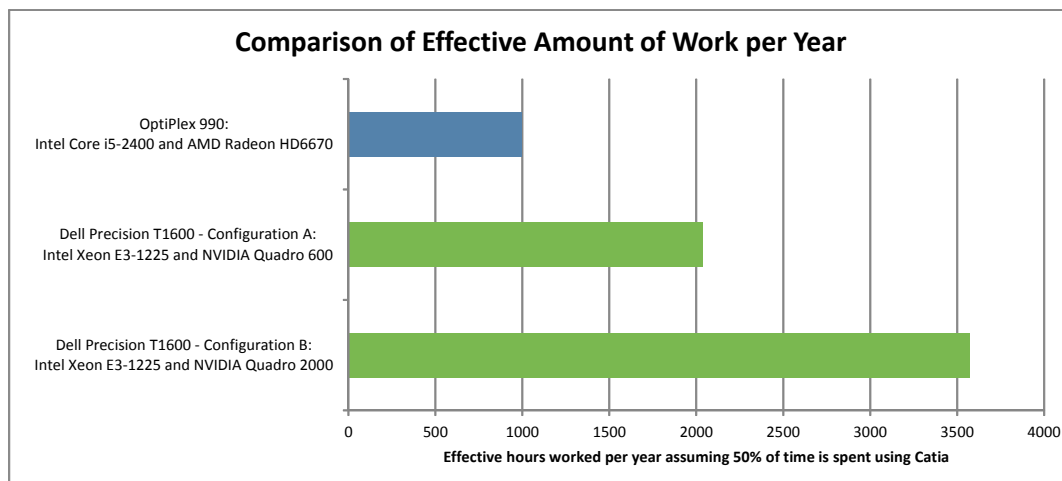
The table below compares the performance of two configurations of the Dell Precision T1600 workstation to our premier standard desktop, the OptiPlex™ 990. The benchmark we used was SPECviewperf® 11 Catia viewset which mimics a real world scenario of a user running Dassault Systèmes Catia®. At the time of testing the price of the Dell Precision T1600 was \$1488 and \$1898. The price of the OptiPlex 990 was \$1442; a difference of \$46 and \$456 respectively.<sup>1</sup>



Platform	OptiPlex 990	Dell Precision T1600 Configuration A	Dell Precision T1600 Configuration B
BIOS settings	Defaults	Defaults	Defaults
Processor	Intel Core i5-2400	Intel Xeon E3-1225	Intel Xeon E3-1225
Processor details	Turbo=ON	Turbo=ON	Turbo=ON
Memory configuration	4GB (2x2GB) 1333MHz NECC	4GB (2x2GB) 1333MHz NECC	4GB (2x2GB) 1333MHz NECC
HDD details	250GB SATA 7200RPM	250GB SATA 7200RPM	250GB SATA 7200RPM
OS details	Microsoft® Windows® 7 Ultimate 64-bit	Microsoft Windows 7 Ultimate 64-bit	Microsoft Windows 7 Ultimate 64-bit
Graphics adapter details	AMD Radeon™ HD 6670	NVIDIA Quadro® Q600	NVIDIA Quadro Q2000
<b>Viewperf 11 Catia-03 performance<sup>2</sup></b>	<b>8.34</b>	<b>17.02</b>	<b>29.80</b>
<b>Price<sup>1</sup></b>	<b>\$1442.00</b>	<b>\$1488.00</b>	<b>\$1898.00</b>

Based on the above statistics, the Dell Precision T1600 entry-level workstation with the NVIDIA Quadro 600 (Configuration A) performed 104% faster and the T1600 with the NVIDIA Quadro 2000 (Configuration B) performed 257% faster than the standard desktop, the Dell OptiPlex 990. This means project time related to system CAD performance can be reduced by up to 51% with configuration A and by as much as 72% with configuration B. If we assume that an average CAD employee like yourself earns \$35 per hour and spends 50% of their time using Catia the \$46-\$456 difference in up-front cost can be recouped in as little as 6-37 hours. If you earn more per hour, then the cost can be recovered in even less time.

Viewed another way, the below chart compares the effective hours worked per year using a Dell Precision T1600 versus an OptiPlex 990 assuming 50% of your time is spent using Catia.



As you can see, the additional cost of a Dell Precision T1600 entry-level workstation helps increase your productivity, which means faster project completion, increased project iterations and decreased overtime providing a great return on your investment.

**Learn more about the Dell Precision T1600 at [Dell.com/Precision](http://Dell.com/Precision).**

<sup>1</sup> Prices from Dell.com website on March 29th, 2011. <sup>2</sup> Testing performed by Dell labs, February 2011. Actual performance will vary based on configuration, usage and manufacturing variability.