

Precision Workstation Special Interest Group DST2014

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Precision Workstation Avalon Performance

How do they perform

- Precision Avalon series launched September 9th
- Tower 7910
- Tower 7810
- Tower 5810

The many enhancements on the Avalon platform makes them the most powerful fixed Workstations on the market.

I've benchmarked the Tower models in PASSMARK and Cinebench

How much more powerful they are is what I'm going to show on this slot.



Precision Workstation Avalon Performance

Refresh on the new features before we enjoy the benchmark results;

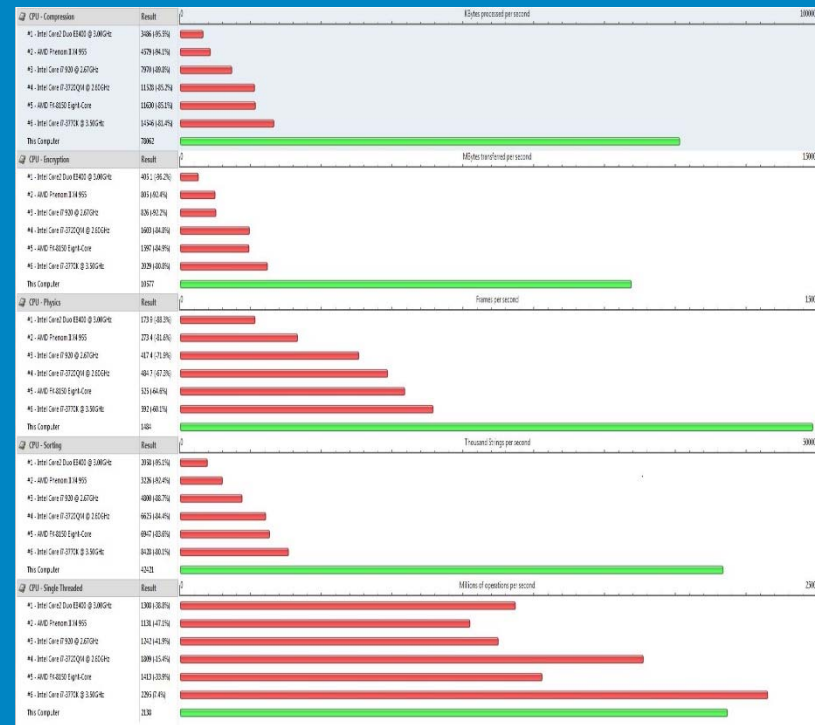
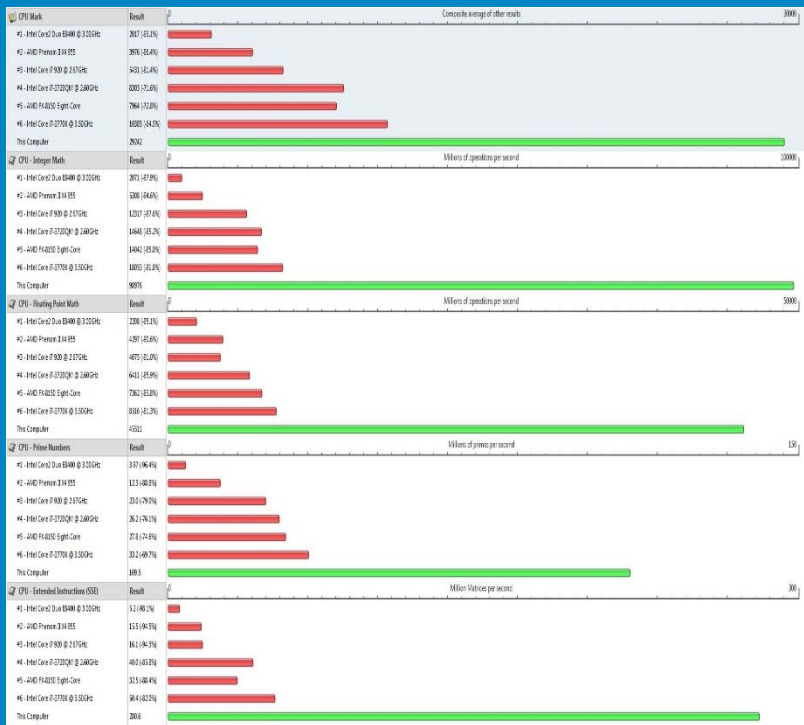
Xeon EP V3

- Up to dual as fast as Xeon IVB
 - On some measurements 12x
 - Up to doubled CPU Cache
 - Smarter SmartCache (!!)
 - 10% Core shrinkage -> more cores
 - Increased base Ghz
 - Increased GT/S performance
- Other vital refreshments
 - DDR4 2166 Mhz
 - Double as fast SATA bus
 - Onboard from 3 to 6 GBps
 - RAID from 6 to 12 GBps
 - Relaunching Ubuntu LTS as OS
 - Dell MAXX Audio Pro on Tower models too!
 - Thunderbolt
 - Still cost free! Drivers! Still only drivers on the market PXE Certified!
 - Dell Performance Optimzer V2 -> More profiles + autotuning
 - Reliable Memory Technology
 - QRL code for service window shortage
 - Intel CAS-W



Precision Workstation Avalon Performance

Tower 7910, Dual Xeon E5 – 2697 v3 28 C @ 2,60 Ghz, 64 GB DDR4 RAM, Passmark CPU results



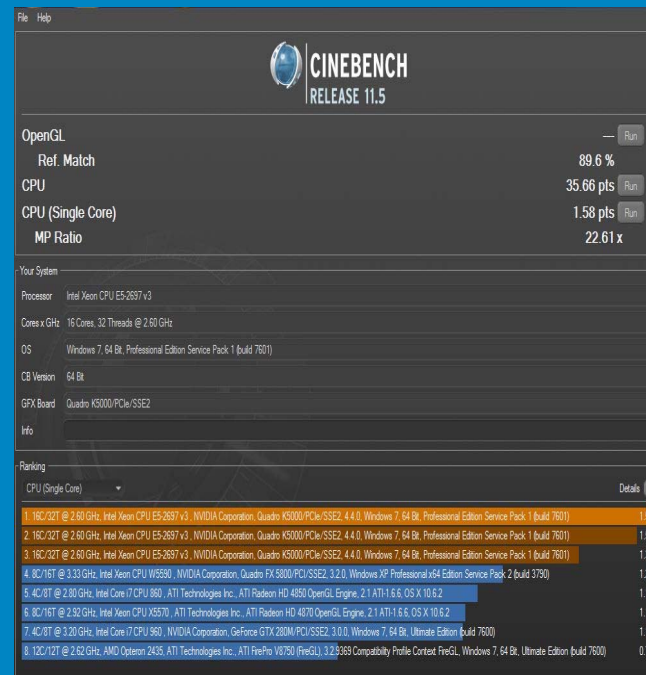
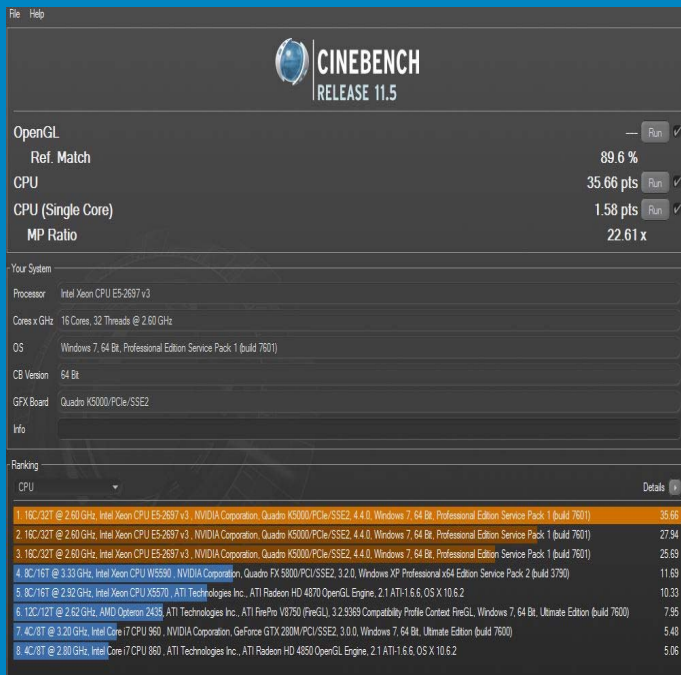
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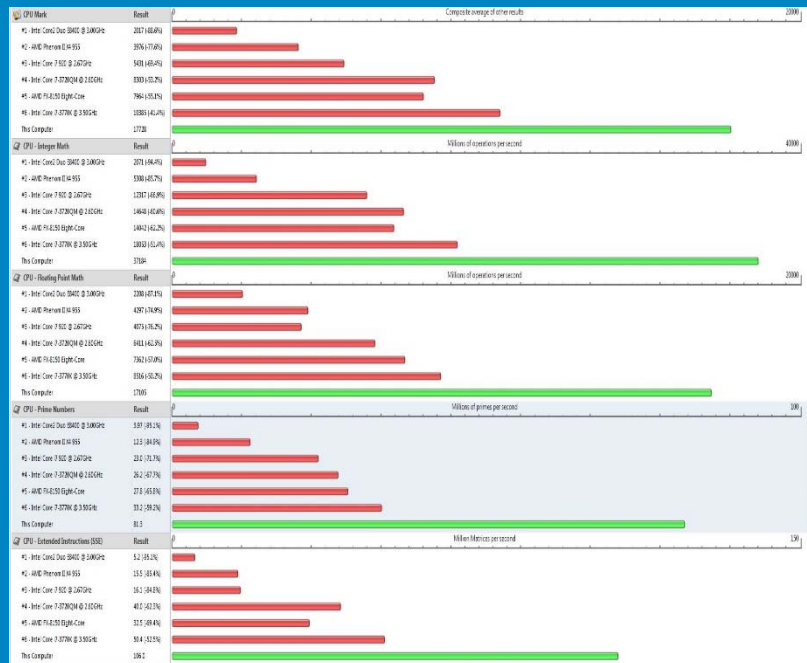
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Tower 7910, Dual Xeon E5 – 2697 v3 28C @ 2,60 Ghz, 64 GB DDR4 RAM, Cinebench CPU Rendering Results



Precision Workstation Avalon Performance

Tower 7810, Xeon E5 – 2670 v3 24C @ 2,30 Ghz, 16 GB DDR4 RAM, Passmark CPU Results



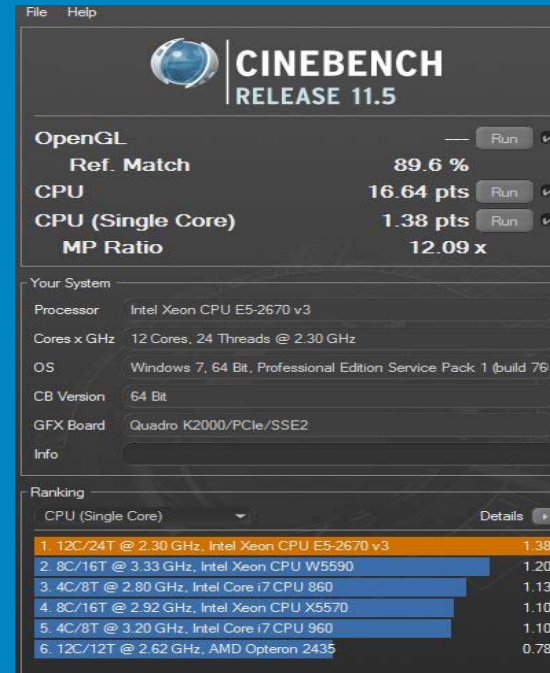
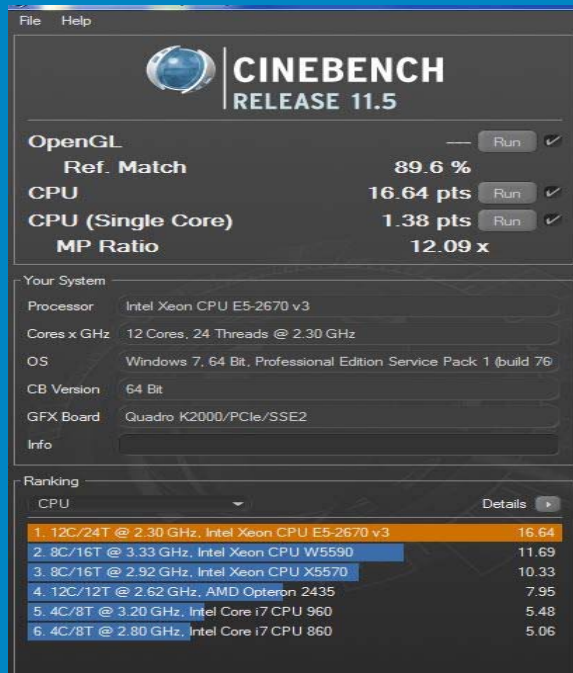
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Tower 7810, Xeon E5 – 2670 v3 24C @ 2,30 Ghz, 16 GB DDR4 RAM, Passmark RAM Results



Precision Workstation Avalon Performance

Tower 7810, Xeon E5 – 2670 v3 24C @ 2,30 Ghz, 16 GB DDR4 RAM, Cinebench CPU Rendering results



Precision Workstation Avalon Performance

Tower 5810, Xeon E5 – 2670 v3 24C @ 2,30 Ghz, 16 GB DDR4 RAM, Passmark CPU results



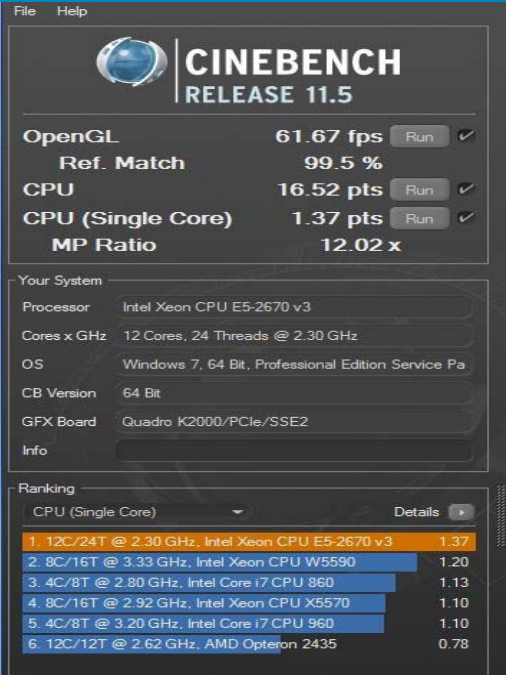
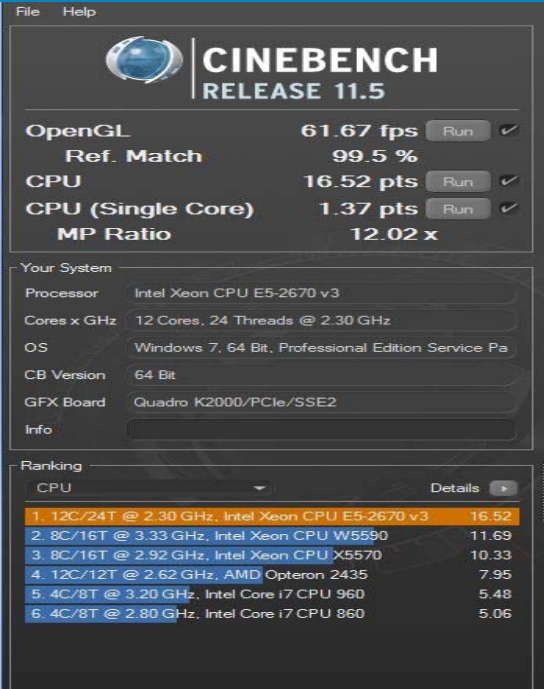
Precision Workstation Avalon Performance

Tower 5810, Xeon E5 – 2670 v3 24C @ 2,30 Ghz, 16 GB DDR4 RAM, Passmark RAM results



Precision Workstation Avalon Performance

Tower 5810, Xeon E5 – 2670 v3 24C @ 2,30 Ghz, 16 GB DDR4 RAM, Cinebench CPU Rendering results



Precision Workstation Avalon Performance

- Some of our customers have asked for the possibility to testrun the Avalon Series Evaluation Units.
- We ordered a bunch of them and our distinguished game developer DICE of Battlefield, Battleforce and Mirror's Edge fame ran 2 versions of Tower 5810
 - Here are some of their impressions;
 - " CPU performance is really wicked"
 - "The new chipset, cpu and memory adds to the impression that these are very competent systems"



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That's all folks!

Please contact me for a closer look at the results

There are many more benchmarks to discover

Many thanks for the time spent at the Precision
slots today!

