

# AMD EPYC 7642 Benchmarks: The Rome 48 Core CPU That Easily Takes On Intel's Xeon Platinum 8280

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Since the AMD EPYC 7002 series "Rome" launch at the beginning of August, it's been known how AMD's top-end (aside from the newly-announced EPYC 7H12) EPYC 7742 easily outperforms the Intel Xeon Platinum 8280 in most real-world benchmarks. The EPYC 7742 not only outperforms the Xeon Platinum 8280 in raw performance but also at a significantly lower cost and it gets even better with the EPYC 7642. We have been testing the EPYC 7642 48-core processors and even there the performance is generally ahead of a Xeon Platinum 8280 while being about half the cost of that flagship non-AP Intel Xeon Scalable Cascadelake processor.

Complementing our recent EPYC 7302 and EPYC 7402 benchmarks, today we are focused on the EPYC 7642 as the Rome 48-core / 96-thread processor. This 48 core processor has a 2.3GHz base clock and 3.3GHz boost clock while having 256MB of L3 cache, eight DDR4-3200 memory channels, 128 PCIe 4.0 lanes, and other features in common with the EPYC 7742 and other Rome processors. The EPYC 7642 carries a 50MHz base clock speed advantage over the 64 core EPYC 7742 but a 100MHz lower boost clock speed as the principal differences aside from the core/thread

count. Both of these CPUs carry a 225 Watt TDP.

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