

Solution Brief

Medical Record Databases



Intel® Xeon® Scalable Processors Deliver up to 14.9M GREFs for Epic SMP Deployments¹

Recent changes to relicensing fees and InterSystems Caché sunsetting mean there's never been a better time to modernize your infrastructure and lower the TCO of your Epic EMR database by migrating to Intel® architecture.¹





Take electronic medical records (EMRs) to the next level with Intel-powered infrastructure that delivers the performance you need now alongside headroom to accommodate future growth. Doing more with less becomes possible with denser EMR server deployments that use fewer software licenses, require fewer trained staff, and provide more flexibility of choice for hardware and software configurations.

"Moving from the Intel® Xeon® Platinum 8280 processor running Caché to the Intel® Xeon® Platinum 8380H processor running IRIS, we saw the scalability of a single operational database server increase by 20 percent. With these gains, we expect our customers to scale further with a lower data center footprint and lower TCO."

—Epic

Opportunity: Eased migration costs open the door to more efficient infrastructure

Until recently, the ability to migrate EMR databases from AIX-based to Intel-based servers has been cost prohibitive because of relicensing fees. Now that Epic is sunsetting the InterSystems Caché database management system and waiving relicensing fees to convert from AIX to Linux, healthcare organizations can migrate to powerful and cost-efficient Intel-based servers to realize across-the-board benefits.

 <p>Low hardware costs and licensing fees with fewer and higher-density Intel-based servers</p>	 <p>Up to 14.9M GREFs¹ for SMP deployments and five nines availability with Intel® Xeon® Scalable processors</p>	 <p>Access to a bigger talent pool of x86-trained engineers and developers</p>	 <p>Broader choice of OEM and ISV partners, including Cisco, HPE, Dell, Lenovo, Nutanix, Red Hat, and VMware</p>
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Solution: Intel® Xeon® Scalable processors provide greater performance for Epic deployments

The latest-generation Intel® Xeon® Scalable processor lineup now supports the largest healthcare organizations while providing low TCO and a high ROI. Regardless of whether you support an SMP or ECP deployment, an Intel-based solution allows healthcare organizations to take advantage of the advanced analytics capabilities and cloud-like agility of the new InterSystems IRIS platform while also benefitting from the low cost and higher performance of Intel-based EMR databases.



How it works: High GREF performance at a low price point

Intel Xeon Scalable processors bring higher compute performance to move data faster, help ensure uptime, and deliver seamless EMR access to healthcare practitioners and administrators. 3rd Generation Intel® Xeon® Scalable

processors support more GREFs on fewer cores compared to previous generations, offering potential cost benefits through reduced server footprints and fewer required software licenses.

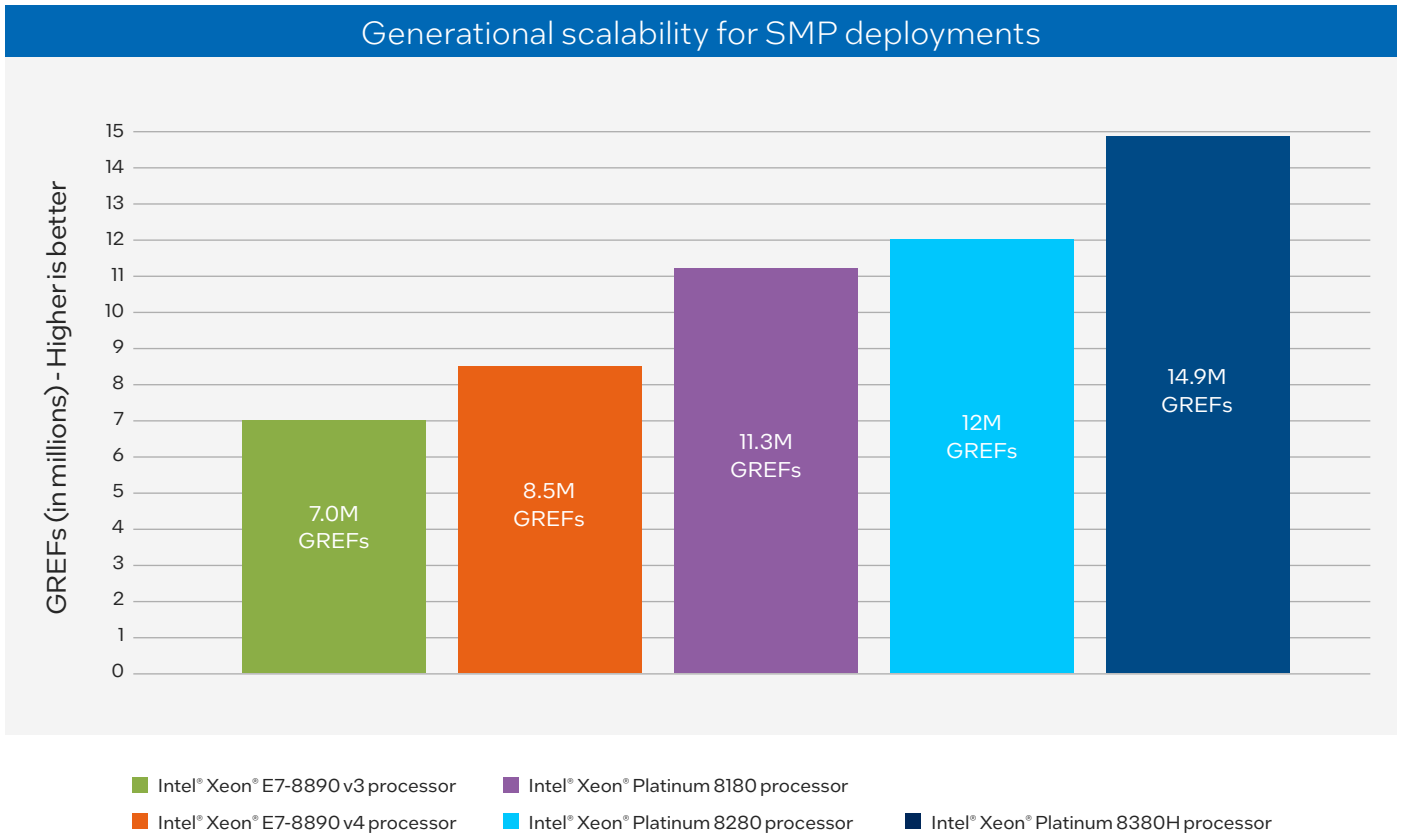


Figure 1: Gen-over-gen improvements yield a 20 percent increase in the number of GREFs supported for an SMP deployment, up to 14.9M GREFs with the Intel® Xeon® Platinum 8380H processor.¹

Unlocking the potential of single-pane-of-glass tool chains

While EMR databases are traditionally siloed from the rest of the healthcare network, a solution that consolidates all systems onto a single fabric can help reduce the administrative overhead and provide the foundation for future hyperconverged infrastructure projects. This consolidation affords healthcare IT professionals the ability to monitor, manage, and optimize operations across the entire IT infrastructure from a single pane of glass. Hospital IT departments can likewise streamline their payroll and choose from a broader talent pool of experts who prefer Intel® architecture.

Stacking hardware-enabled reliability across storage and networking layers

Reliability concerns extend beyond the processor alone, and downtime can result from errors in the storage or networking layer. For best-in-slot deployments that balance performance and TCO, Intel offers a robust combination of storage and networking solutions. Intel® Optane™ SSDs deliver high capacity and PCIe connectivity for fast I/O with a direct connection to the CPU. Intel® Ethernet 800 Series network adapters are a mainstay for enterprise-level deployments, delivering up to 100GbE connectivity and low latency. Together with Intel Xeon Scalable processors, these components support high utilization to drive more value from technology investments and help prevent data bottlenecks.

Conclusion: Intel enables Epic deployments of any size

For either SMP or ECP deployments, Intel Xeon Scalable processors support tens of millions of GREFs at a competitive price point. Now that migration costs are no longer a barrier to entry, it's the perfect time to convert to Intel-based database servers and take advantage of the performance and efficiency improvements that Intel has to offer.

Get a custom ROI analysis today

Measure the impact of deploying Intel Xeon Scalable processors for your Epic systems and ask about special pricing to make your move as cost-effective as possible. [Schedule a call for your custom ROI analysis.](#)

Get special pricing for your migration to Intel

Businesses may be eligible for meet-comp pricing for Epic-certified Intel Xeon Scalable processors when migrating from an AIX-based system for either Caché or IRIS database deployments. Special pricing is considered on a case-by-case basis and is not guaranteed. Contact your Intel sales representative to learn more.



1. Testing conducted comparing Intel® Xeon® processor E7-8890 v3, Epic 2014, and Caché 2015.1 to Intel® Xeon® processor E7-8890 v4, Epic 2014, and Caché 2015.1 to Intel® Xeon® Platinum 8180 processor, Epic 2017, and Caché 2016.1 to Intel® Xeon® Platinum 8280 processor, Epic 2018, and Caché 2017.1, Intel® Xeon® Platinum 8380H processor, Epic 2019, and IRIS 2020.1. Testing performed by Epic measuring GREF performance.

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