

Bringing stronger, faster analytics to your organization

with SAS® Analytics on Intel® architecture

Increase your predictive decision-making with SAS and Intel

Any organization that collects data can improve its predictive power—as long as it has a strong analytics foundation. With Analytic Modernization, SAS and Intel have partnered to help you build that foundation by bringing you closer to your data so you can build a more complete, connected vision of your organization. By combining advanced analytics from SAS with modern computing and storage technologies from Intel, you can make your analytics faster, easier and more powerful.

In today's analytics economy, data, people and machines work together to accelerate the pace of innovation, allowing organizations to make more informed decisions that improve their business strategies. SAS, the premier provider of analytics solutions, and Intel, the definitive leader in computer processing, have 20 years of collaborative problem-solving experience in the world of analytics. They use that experience to deliver powerful analytics solutions for organizations whose priority is providing better service to their customers. Solutions from this partnership can help businesses across a variety of industries generate greater value from their data. And considering the unprecedented amount of available information, you need a powerful system capable of providing fast, accurate insights in order to take timely and effective actions.

Running SAS Analytics software on Intel architecture can help your organization overcome these challenges. SAS Analytics collect your business' data and provide insights on where and how to improve your

strategies. With a better understanding of the insights your data holds, you can capitalize on artificial intelligence to better predict, prevent and provide for your customers.

It only makes sense to reshape your IT infrastructure to fit the modern world. SAS and Intel can help you do just that.

Bringing value to your business

It takes equal parts analytics expertise and processing power to give your decision-makers the information they need to act. For this reason, the SAS and Intel partnership provides an innovative processing and memory architecture uniquely designed to make full use of SAS Analytics. The SAS Platform, composed of SAS 9.4 with SAS® Viya™, is adaptive to any infrastructure and level of expertise, empowering users of all knowledge levels to explore insights and giving them space for experimentation. This platform benefits from the performance and responsiveness of Intel® Xeon® Scalable processors and Intel® Optane™ SSDs for fast data storage and retrieval. The result is a cutting-edge analysis engine for real-time, predictive analytics that can bring out the best in your business.

Why the SAS® Platform makes sense

Businesses using the SAS Platform to power their analytics environments gain three immediate advantages: scalability, diversity and trust.

The SAS Platform scales from small to big data, in motion and at rest, at the edge and in the cloud. The platform also provides a rich set of interfaces that cater to users of

varying analytic experience. And because of its superior processing power optimized for analytics, the SAS Platform is built to withstand failover.

BAMA and the SAS® Viya™ Adoption Workshop: Modernize for the next era of analytics

Knowing where to begin modernizing your analytics environment can be difficult. For organizations seeking guidance, SAS offers a Business Analytics Modernization Assessment (BAMA) and SAS Viya Adoption Workshop.

The BAMA examines your business analytics requirements, processes and objectives to deliver key findings showing what you do well and where you must improve. Through interactive sessions with both business and IT teams, the BAMA provides a holistic view of your strengths and weaknesses across people, processes, data and technologies. The output delivers a series of actionable recommendations and best practices to ensure your business can implement efficient analytics solutions now and in the future.

The one-day SAS Viya Adoption Workshop helps you build on your existing investment in analytics and discover areas where SAS Viya can help shape your company's analytic future, providing an overview of how SAS Viya extends the SAS Platform into new capabilities and areas. In collaboration with business and IT, the workshop explores uses cases applicable to SAS Viya. Then, it determines the business value and success metrics for each use case so you can prioritize your future efforts.

PERFORMANCE BENEFITS FROM INTEL® XEON® SCALABLE PROCESSORS AND INTEL® OPTANE™ TECHNOLOGY¹

Two-Socket Performance Increase (Higher is Better)

- Intel® Xeon® Processor E5-2699 v4
- Intel® Xeon® Platinum 8180 Processor
- Intel Xeon Platinum 8180 Processor and Intel® Optane™ Technology



Normalized Performance



- Higher-performance, higher-capacity memory supporting up to 24 DIMMs of DDR4-2667 RAM
- Two times faster insights in SAS Business Analytics with the addition of Intel Optane technology

To build a reliable, high-performance platform for SAS Analytics, Intel Xeon Scalable processors pair with Intel SSDs featuring Intel Optane technology. This non-volatile memory technology speeds up SAS workloads and offers high endurance and increased responsiveness at a lower price point than a large-scale DRAM deployment. By taking advantage of new 3D XPoint™ memory media, Intel Optane technology can deliver high throughput even for large-scale, ongoing analytics operations, eliminating bottlenecks while improving your datacenter's overall TCO.

The Analytics Fast Track™ for SAS®: Putting your business on the road to success

If your organization is exploring new analytics initiatives, SAS and Intel offer a special program to get you up to speed. The Analytics Fast Track for SAS provides hands-on access to the latest SAS capabilities. It lowers your initial analytics investment and allows for the rapid deployment of new solutions, so you can get started prototyping and improving your analytics capabilities right away. This will allow you to begin exploiting SAS Analytics in days, not months, and empower you to focus on your key use cases.

Often, an idea for a new business project will stall if you don't have enough evidence to prove the benefits. With SAS Analytics, there's no need to guess how a new solution might impact your company. You can explore your concept and see its effect based on real data and insight. By leveraging the Analytics Fast Track for SAS, your team can provide ample evidence to make a case for new, innovative ideas.

Even your IT staff will see improvements in their work. The Analytics Fast Track for SAS requires minimal setup and configuration,

since it's pre-configured with the necessary SAS capabilities. Just turn it on and add your data to start using the system. By running this SAS software on Intel Xeon Scalable processor-powered servers, your IT staff will be able to rapidly deliver SAS Analytics without compromising their governance.

The power you need for strong analytics

SAS solutions provide an integrated environment to solve a variety of complex business problems. It's no surprise that they require strong computing performance and reliability. They get all that and more with platforms using the Intel Xeon Scalable processor and Intel SSDs with Intel Optane technology.

Intel Xeon Scalable processors are built to handle cutting-edge artificial intelligence and analytics workloads with data from many and diverse sources. Compared to the previous-generation Intel platform, they provide:

- A new cache and memory subsystem designed to handle data-intensive, predictive analytics workloads
- More cores to accelerate performance, with up to 28 cores per socket

Why SAS and Intel?

SAS is the leader in analytics. Through innovative analytics, business intelligence and data management software and services, SAS helps customers at more than 83,000 sites make better decisions faster. Since 1976, SAS has been giving customers around the world THE POWER TO KNOW®.

Intel (NASDAQ: INTC) is a world leader in computing innovation. The company designs and builds the essential technologies that serve as the foundation for the world's computing devices. Additional information about Intel is available at intel.com.

Learn more

To learn more about how SAS and Intel can help you maximize the value of your data, contact your representative or visit the SAS and Intel partner pages: sas.com/intel and intel.com/sas.



1. SAS Business Analytics™: SAS 9.4 m4 application running the 30 session SAS Mixed Analytics workload. OS: CentOS® 7.2 kernel 3.10.0. Testing by Intel and SAS, May 2017. Copyright © 2017, SAS Institute Inc. and Intel Corporation. All rights reserved. SAS and all other SAS Institute Inc. product or service names are registered trademarks or trademarks of SAS Institute Inc. in the USA and other countries. 3D XPoint, Intel, the Intel logo, the Intel Inside logo, Optane, and Xeon are trademarks of Intel Corporation in the U.S. and/or other countries. Other brand and product names are trademarks of their respective companies.

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