

# HOW CAN SERVERS HELP YOU DO MORE?

It could be time for an upgrade.

Servers, a key foundation to your business, should be increasing business productivity, run smoothly 24/7 and keep data protected. You need a versatile platform to meet a broad range of business needs. Technology advancements have made today's hardware more powerful, secure, and reliable, which means it might be the right time to consider an upgrade.

## ARE YOU EXPERIENCING ANY OF THE FOLLOWING ISSUES?

YES

NO

Software Performance		
When you process large amounts of data do you find it takes a long time?		
Do you need your existing business applications to be more responsive?		
Do you have plans to upgrade important software applications?		

Security & Reliability		
Do you trust your existing servers to protect your data from ransomware and other attacks?		
Are you confident your server's storage can reliably store, retrieve, and deliver media and large data sets that your business uses on a daily basis?		
Do you have plans to upgrade important software applications?		

Server & OS Milestones		
Do you have plans to upgrade your operating system in the coming year?		
Is your server(s) more than 4 years old?		

# THE INTEL® XEON® PROCESSOR E3-1200 V5 FAMILY: POWERFUL, RELIABLE, SECURE

If you answered yes to any of the previous questions, your business could benefit by upgrading your server. A small investment can make a big difference in being more productive and keeping your company's data easily accessible and better protected. The following will help you learn more about the Intel® Xeon® E3-1200 v5 processor to help you determine if an affordable server based on this technology is the right choice for your business.



Designers, engineers and/or animators can be more productive with up to 2.26x faster performance on their graphics-intensive apps.<sup>1,2</sup>



Your business-critical apps can run 1.43x faster with adaptive performance that spikes when your workload needs it when run on an Intel Xeon processor based server.<sup>1,2</sup>

Downtime can be reduced using error-correcting code memory that automatically checks for errors.<sup>3</sup>



In case of hard drive failure, redundant storage helps you avoid disaster and allows for quick data recovery.<sup>3</sup>

Encryption and decryption of sensitive data and files can be accelerated and the performance of a wide range of security applications can be enhanced with Intel® Data Protection Technology.<sup>3</sup>



Better protect your system from unauthorized updates or changes with Intel® Platform Protection Technology.<sup>3</sup>

Do you need added reliability and security from an Intel® Solid State Drive?

An Intel® Solid State Drive is 2.57x less likely to fail than a traditional hard drive<sup>4</sup> and when paired with Intel Xeon E3-1200 v5, you can improve performance, reduce power use, and lower total cost of ownership.<sup>4</sup>



Do you need to optimize for Windows\* Server 2016 in the coming year?

If you plan to upgrade your OS, the Intel Xeon E3-1200 v5 paired with Windows Server 2016 is optimized to provide the performance, security, and cloud-readiness your business needs to thrive and grow.

## WONDERING IF YOU NEED CLOUD SERVICES OR A PRIVATE SERVER? THE ANSWER IS PROBABLY BOTH. A WINNING COMBINATION FOR GROWTH

Pairing a private server and a cloud solution together for your infrastructure offers an ideal foundation to protect and grow your business. For best performance in the cloud, make sure to ask your cloud service provider for servers powered by Intel® Cloud Technology. This table is a guide for which tools and data are ideal for each.

Best for:	On-site Server	Cloud
High application performance, supporting data-intensive workloads	✓	
Rich control over your environment, including data and settings	✓	
Independence from Internet connectivity	✓	
Easy manageability when you have limited IT resources		✓
Access to large-business capabilities and services		✓
Flexibility to scale up and down to meet your changing business needs		✓
Databases	✓	
Real-time file sharing and print services	✓	
Collaboration applications	✓	
Enterprise resource planning (ERP)	✓	
Data analytics	✓	
Engineering and design tools	✓	
E-mail		✓
Backup and recovery		✓
Customer relationship management (CRM)		✓
Human resources		✓
Video streaming		✓
Accounting		✓
Redundancy	✓	
Compliant with governmental data mandates to secure data onsite (geographically dependent)	✓	

**As an Intel® Technology Provider, understanding servers is our business. Let us show you how a server based on the Intel® Xeon® processor E3-1200 v5 family can help get your business more productive, secure and protected.**

1. Software and workloads used in performance tests may have been optimized for performance only on Intel® microprocessors. Performance tests such as SYSmark® and MobileMark® are measured using specific computer systems, components, software, operations, and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products.

2. Baseline system: Intel® Xeon® Processor E3-1275 v2, Intel HD graphics P400, 16GB (4x4GB DDR3-1600MHz ECC UDIMM), Western Digital WD2000FYYZ HDD, RHEL v6.3-2.6.32-278, ACRVMBY1.86C, IC13. Previous generation: Intel Xeon Processor E3-1276 v3 Supermicro 813M-3, X10SLM+-LN4f, Intel HD graphics P4600, 16 GB (4 x 4GB DDR3-1600MHz ECC UDIMM), Western Digital WD500GBHDD, RHEL6.5-2.6.32-431, 1.1a, IC14.

New Configuration: Intel Xeon Processor E3-1275 v5, RVP8 Skylake Reference Board, Intel HD Graphics P530, 16GB (2 x 8GB DDR4-2133MHz ECC UDIMM), Intel SSD 530 Series 120GB model SSD5C2BW120A4, CentOS 7 - 3.10.0-123.el7.x86\_64, SKLSE2R1.R00.X092.B00.1507130736, IC14.

3. Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software, or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer, or learn more at intel.com.

4. . Baseline comparable system: HGST HDS722020ALA330 2TB Hard Drive(1.57% AFR) as measured by Backblaze® May 2016 article "One Billion Drive Hours and Counting: Q1 2016 Hard Drive Stats", <https://www.backblaze.com/blog/hard-drive-reliability-stats-q1-2016/>.

Baseline Intel® SSD: DC S3510 1.6TB (0.44% AFR) as measure in the Intel SDD Data Center Family for SATA product brief [http://www.intel.com/content/www/us/en/solid-state-drives/ssd-dc-s3x10-series-brief.html\(1.57-0.44\)/0.44=2.57](http://www.intel.com/content/www/us/en/solid-state-drives/ssd-dc-s3x10-series-brief.html(1.57-0.44)/0.44=2.57)

\*Other names and brands may be claimed as the property of others.

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