Legal Information

Today's presentations contain forward-looking statements. All statements made that are not historical facts are subject to a number of risks and uncertainties, and actual results may differ materially. Please refer to our most recent Earnings Release and our most recent Form 10-Q or 10-K filing for more information on the risk factors that could cause actual results to differ.

If we use any non-GAAP financial measures during the presentations, you will find on our website, intc.com, the required reconciliation to the most directly comparable GAAP financial measure.

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Performance tests and ratings are measured using specific computer systems and/or components and reflect the approximate performance of Intel products as measured by those tests. Any difference in system hardware or software design or configuration may affect actual performance. Buyers should consult other sources of information to evaluate the performance of systems or components they are considering purchasing. For more information on performance tests and on the performance of Intel products, reference www.intel.com/software/products.

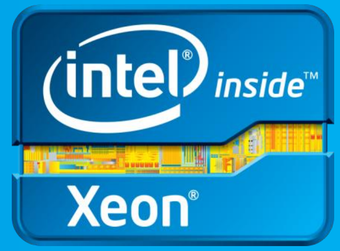
Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may 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.

Built to Scale: Introducing the Intel® Xeon® Processor E5 Family

Diane Bryant

Vice President
General Manager, Datacenter and Connected Systems Group

The Heart of a Flexible, Efficient Data Center




More Devices
More Data
More Options
More Users
More Connections
intel

Compelling
User Experiences













IT: **Support** the Business

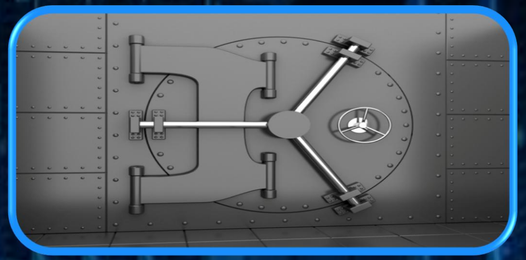
IT: **Be** the Business

IT Must Scale!

Responsive

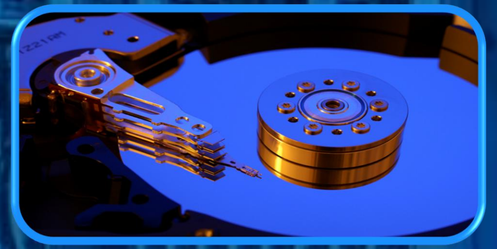
Energy Efficient

Security



Self Service

Storage



Network

Mario Müller, March 2012

CLOUD COMPUTING AND CONNECTED DRIVE – ACCESS OF BMW GROUP VEHICLES TO THE BMW DATACENTER.

LAUNCH INTEL XEON PROCESSOR E5 FAMILY, SAN FRANCISCO.

BMW GROUP

Rolls-Royce Motor Cars Limited

SUSTAINABLE GROWTH THRU ATTRACTIVE PRODUCTS.

A LOOK INSIDE BMW GROUP IT.

WHO WE ARE?

2.700	IT Employees
> 300	Projects in parallel every year
2.100	Applications
9	Datacenter
50	IT Locations in 26 countries
95.000	Notebooks, Desktops
4.500	Engineering workstations
25.000	Production clients
3.800	Smartphones
48.000	Mobile phones
35.000	Landline phones

WHO WE SUPPORT?

95.453 BMW Group Employees

Globale Supplier network with more than 1.200 supplier

25 Production and Assembly plants in 14 countries

Sales- and Financial Services subsidiaries in 43 countries

Research and development network in 5 countries

EMPOWERING CONNECTEDDRIVE.
CUSTOMER SERVICES.

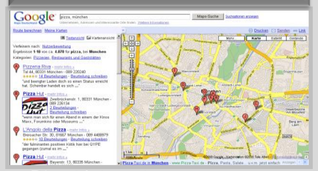
BMW Assist

- Operator assisted services,
- eCall, Concierge Services,
- Remote Services, ...

BMW Online

- BMW specific online content,
- news, weather, stock exchange, route download, ...

Internet



- Direct Internet access.
- Fast performance due to server side re-rendering of content.

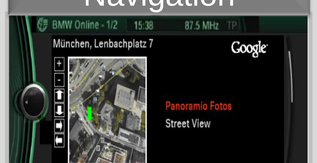
BMW TeleServices

- Remote diagnostics and remote help over the air.

BMW Tracking

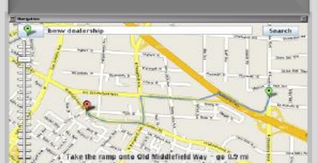
- Tracking of stolen vehicles.

Connected Navigation



- Google Maps, Google Earth, Google Panoramio, Google Suggest, ...

IntelligentDrive



- RTTI over IP
- Extended Floating Car Data
- Hybrid / Offboard Navigation

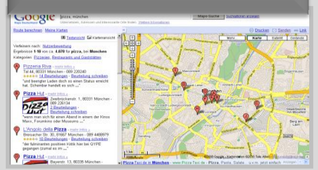
A4A

- Applications for Automotive, Remote HMI, ...

Fleet Management

- Management solution, enabling reports for all vehicles of a fleet, e.g. fuel consumption, mileage.

Assistants (CCU)



- Complex Connected Use-Cases, e.g. multimodal routing assistant, charging assistant, ...

BMW Entertainment

- Personal Radio, Web Radio, ...

Status 2012 :

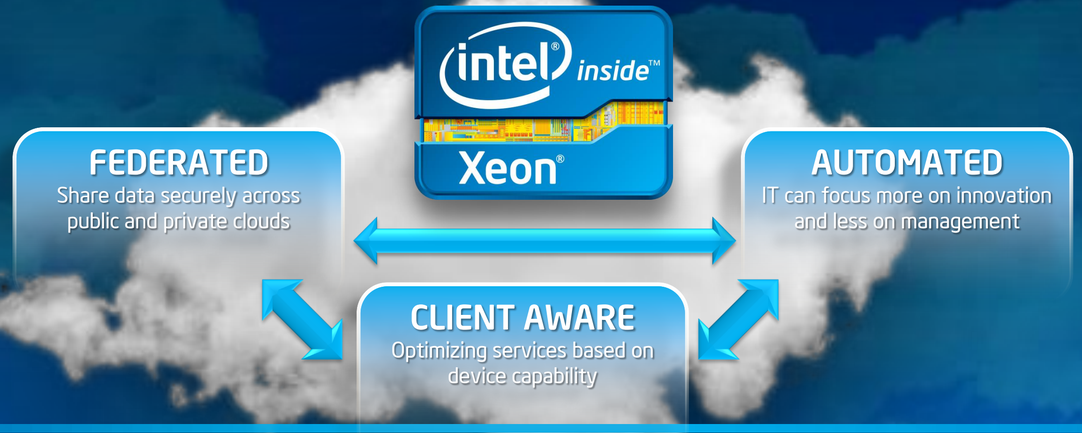
~1M vehicles connected worldwide
>1M requests/day
600MB data volume/day

Outlook 2018:

> 10M vehicles connected worldwide
> 100M Requests/day
> 1TB data volume/day

THANK YOU VERY MUCH.

On Track For Cloud 2015 Vision



Solutions to Help You Scale

Open, Industry Standards

OPEN VIRTUALIZATION ALLIANCE

DMTF distributed management task force, inc.

OPEN DATA CENTER ALLIANCE

OPEN Compute Project

CSA cloud security alliance SM

Intel Cloud Builders Partners

Reference Architectures Available for Intel® Xeon® Processor E5 Family

acer, AMAX, DELL, DEPO computers, inspur 浪潮, intel, Microsoft, NetApp, Neusoft, Parallels, PowerLeader 宝德, Piston Cloud Computing, Sugon 中科曙光, TARO X, Visual Data Center, vmware

Additional Reference Architectures

BingoCloud™, CITRIX, CLOUDSWITCH, CANONICAL, CISCO, EMC², enomaly elastic computing, Eucalyptus Systems, esage, FUJITSU, gproxy, hadoop, hp, HUAWEI, HyTrust Virtualization Under Control, IBM, Joyent, joulex, lenovo FOR THOSE WHO DO., 龙存科技 LoongStore, NETSUITE, nexenta, nimbula, Novell, NTT DATA, openstack CLOUD SOFTWARE, ORACLE, Platform Computing, redhat, RES software, sgi, StackIQ, stoneware, Telefónica Telefónica Investigación y Desarrollo, uit United Information Technology, UNIVA, ZZNode

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

intel

IT Needs the Best Combination of Performance, Built-in Capabilities, and Cost-effectiveness

THE DAILY NEWS

THE WORLD'S FAVORITE NEWSPAPER

Intel Increases Performance!

>100X Improvement Since 2000[1]

To Scale IT Must Address:

I/O Bottlenecks

Security Challenges

Energy Efficiency

Storage & Switching Constraints

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1 Intel Internal Assessment and Estimates on an Integer Throughput benchmark from 2000 to 2012.

For more information go to http://www.intel.com/performance

Introducing the Intel® Xeon® Processor E5 Family

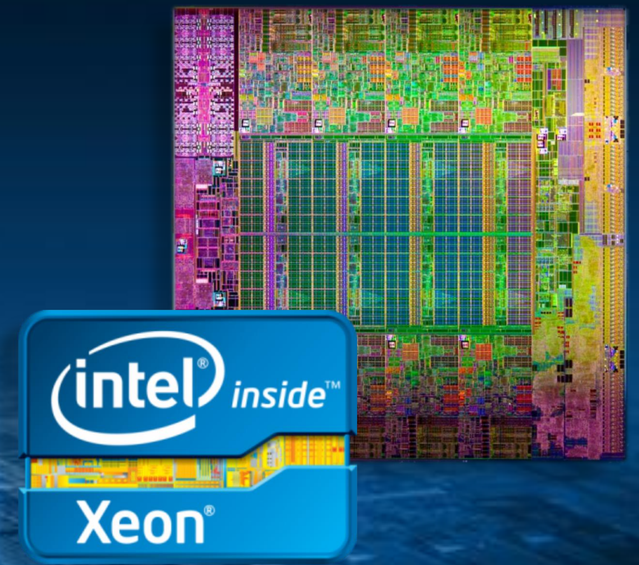
The Heart of a Flexible, Efficient Data Center Built to Scale

80% Performance Gain[1]

Breakthrough I/O Innovation

Trusted Security

Best Data Center Performance per Watt[2]



"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.
1: Performance comparison using best submitted/published 2-socket server results on the SPECfp®_rate_base2006 benchmark as of 6 March 2012. Configuration details in backup
2: Performance comparison using SPEC_Power results published as of March 6th, 2012. See back up for configuration details.
For more information go to intel.com/performance"

Performance for Everything You Do

Best for Virtualization

VMmark* 2

SPECvirt_sc*2010

Best for Enterprise Infrastructure

SPECpower*_ssj2008,
SAP* Server Power 2-Tier

SAP-SD* 2-Tier,
TPC* Benchmark E

Best for the Web

SPECjbb*2005

SPECjEnterprise*2010

Best for Technical Computing

SPECompL*_base2001

SPECapc* for
3ds Max* 2011

15 New Dual Socket x86 Records on E5-2600!

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.
Source: Best available submissions and publications as of 6 March 2012. Please see slide speaker notes for source details.
For more information go to http://www.intel.com/content/www/us/en/benchmarks/server/xeon-e5-2600-summary.html
* Other names and brands may be claimed as the. property of others

Intel® Advanced Vector Extensions

"The new Xeon processor E5-2600 with Intel® AVX allowed us to enable full stereo dual stream video processing in real time at high frame rates required for surgery."

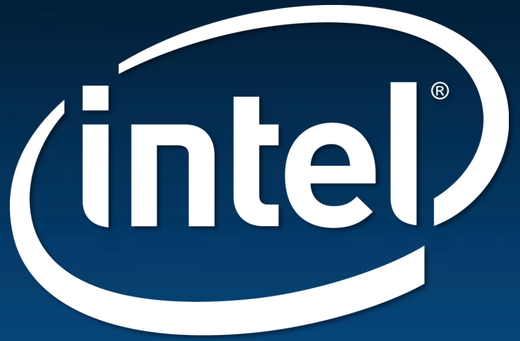
— Alex Chanin, President and CEO, Visionsense

"Facial recognition solutions must process huge amounts of digital photo uploads accurately and at manageable costs. Using the Intel® Xeon® processor E5 family with Intel® AVX, we were able to reach a photo processing throughput unmatched by any world-class facial recognition solution."

— Yaniv Taigman, CTO of face.com


DREAMWORKS
ANIMATION SKG®

Processing an Animated Film



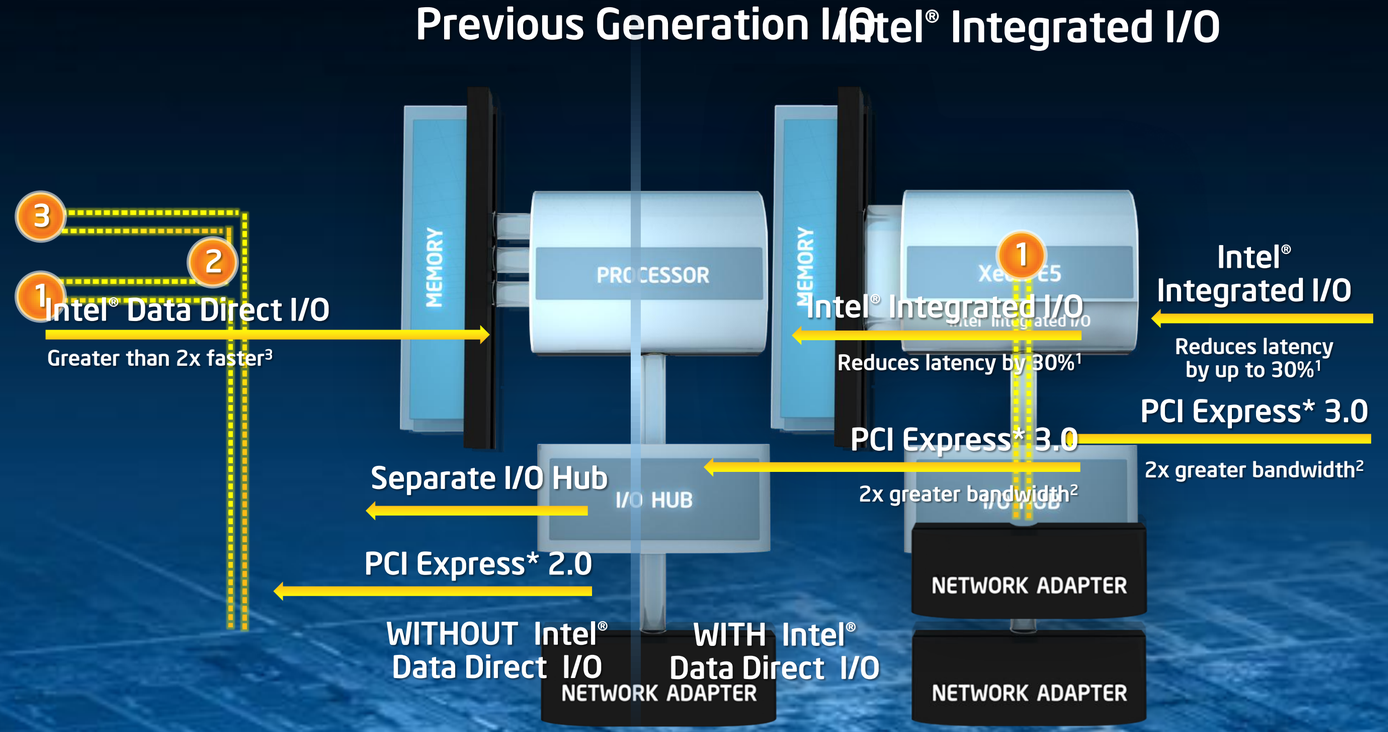
A History of Collaboration


A Future with
Intel Xeon Processor
E5 Family

In Theatres June 8


DREAMWORKS
ANIMATION SKG®

Improve I/O bandwidth up to 3X[4] with Intel® Integrated I/O



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1 Source: Intel internal measurements of average time for an I/O device read to local system memory under idle conditions comparing Intel® Xeon® processor E5-2600 product family (230 ns) vs. Intel® Xeon® processor 5500 series (340 ns). See notes in backup for configuration details

2 Source: www.PciSig.Com/news_room/november_18_2010_press_release

3 Up to 2.3x I/O performance is 1S with a Xeon processor 5600 series vs. 1S Xeon Processor E5-2600 data for L2 forwarding test using 8x10GbE ports .See notes in backup for configuration details

4 Intel internal measurements of maximum achievable I/O R/W bandwidth (512B transactions, 50% reads, 50% writes) comparing Intel® Xeon® processor E5-2680 based platform with 64 lanes of PCIe* 3.0 (66 GB/s) vs. Intel® Xeon® processor X5670 based platform with 32 lanes of PCIe* 2.0 (18 GB/s).

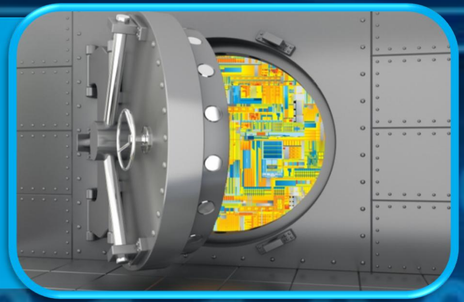
Trusted Security

Intel® Trusted Execution Technology

Cybercrime annual cost >$100B, as much as $1T by 2020[1]
Aggregate security product spend >$200B between 2010 and 2015[2]

Intel® Advanced Encryption Standard New Instructions

HTTPS AES requests have increased by 60% in the last 11 quarters[3]



1 Source: www.symantec.com/about/news/release/article.jsp?prid=20110907_02;; www.staysafeonline.org/blog/new-mcafee-report-reflects-past-present-and-future-cybercrime
2 Source: IDC Market Analysis Perspective: Worldwide Security Products, 2011
3 Source: Akamai Second Quarter 2011 'State of the Internet' Report. See details and report at: http://www.akamai.com/html/about/press/releases/2011/press_102411.html

Trusted Security

"Intel® TXT as part of our Xeon-based servers provides added levels of security and a hardware root of trust that enhances our compliance monitoring capabilities."

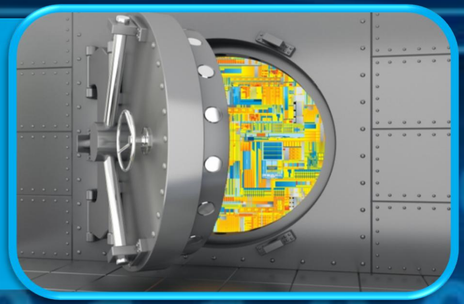
Hai Zhu, PhD, Manager, DuPont Central Research & Development

DUPONT The miracles of science™

"We need a way to scale our encryption capabilities to handle more data, from more customers, without affecting end-user performance. Using Intel AES-NI, we can scale our services and protect information while sustaining high performance."

Janakan Rajendran, CIO, GNAX Health

GNAX HEALTH Healthcare Technology. Delivered.

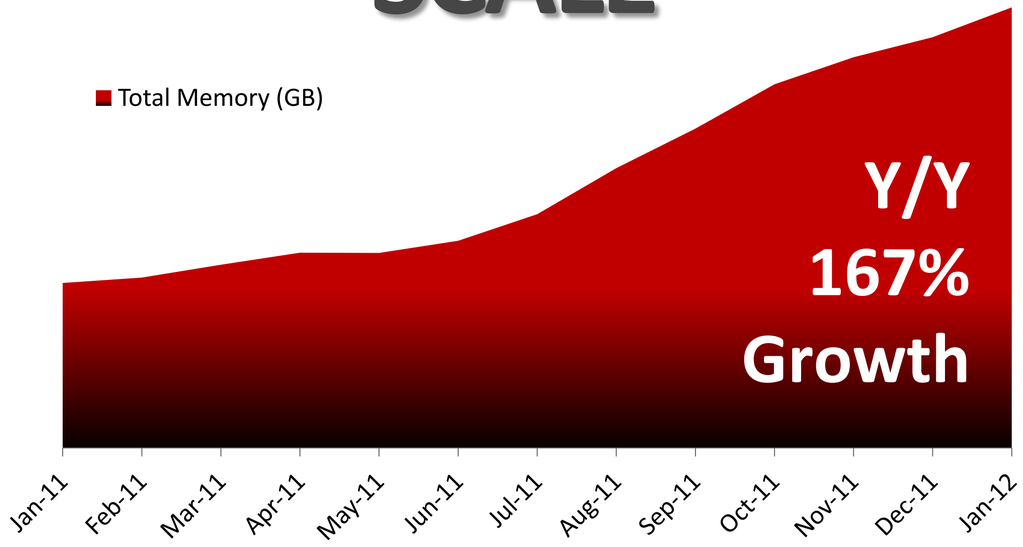


intel

CLOUD BUILDING

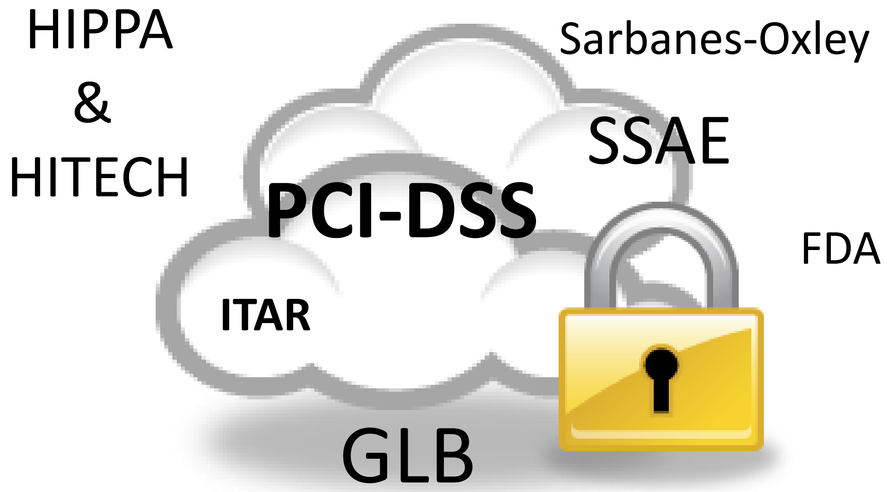
Scaling and Securing The Dynamic Cloud

SCALE



And Continuing to Accelerate…

SECURE

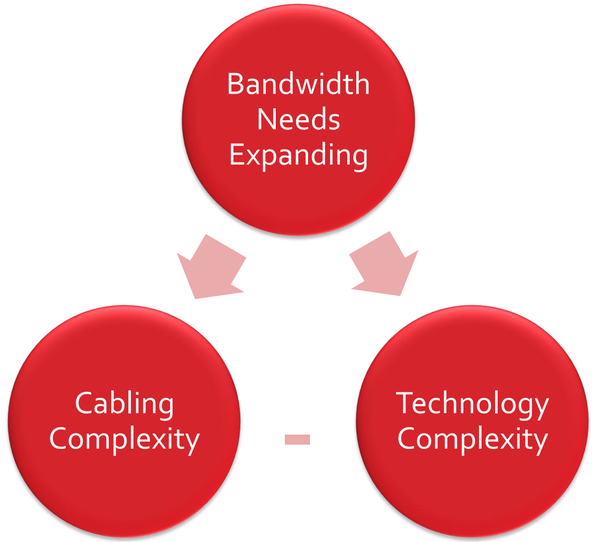


And Continuing to Regulate…

expedient
COMMUNICATIONS

Unified Data Transit with 10Gb Ethernet

CHALLENGES



BENEFITS

23%
Reduction in Cables and Switch ports

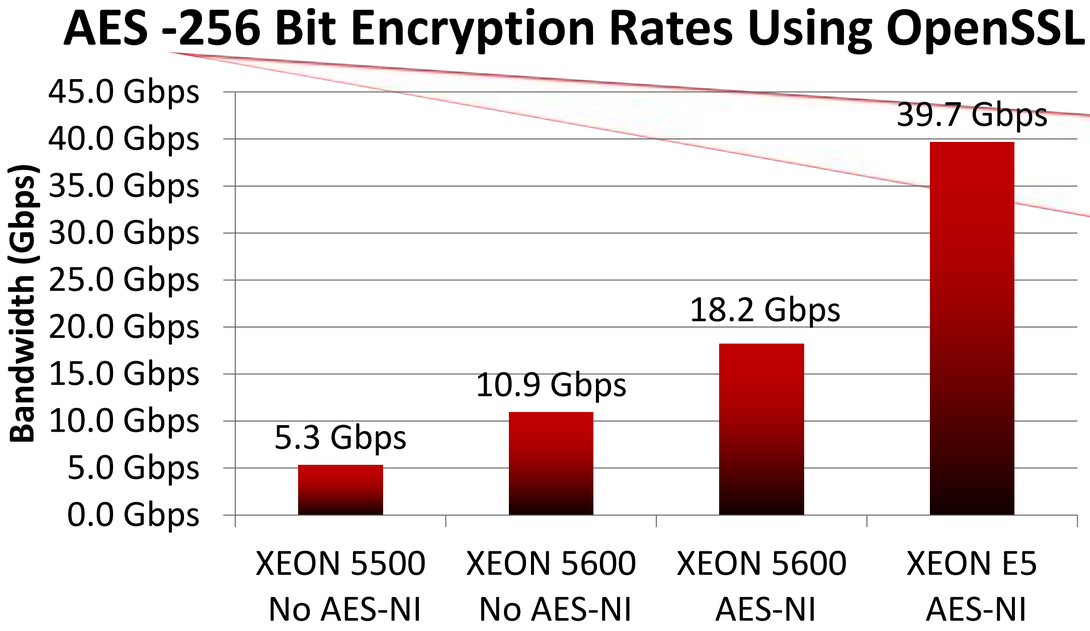
14%
Reduction in Infrastructure Costs

150%
Improved Bandwidth per Server

Simplified Technical Architecture

expedient COMMUNICATIONS

Secure: Encryption with Intel® AES-NI



118% ENCRYPTION PERFORMANCE INCREASE WITH E5!

Level Set: 256 Bit Encryption

*If a device existed that could perform 2^256 (72 **quadrillion**) attempts per second*

At These Rates Dual Socket System Can 256 Bit Encrypt..

A DVD	The Library Of Congress	ALL THE DATA IN AND OUT OF ANY OF OUR DATA CENTERS
50,955,671,114,250,072,156,962,268,275,658,377,809,920,	It would take 135,085 YEARS to force a 256 bit key	
0.9 Seconds	13.4 Hours	

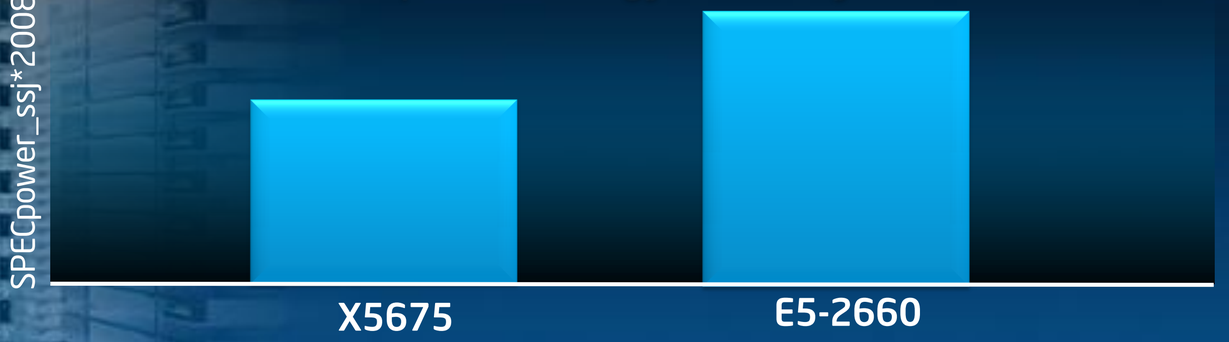
expedient COMMUNICATIONS


expedient
COMMUNICATIONS

Xeon® Processor Energy Efficiency

Up to 50%[1]

Improved Energy Efficiency



Best Data Center Performance per Watt[1]

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1 Performance comparison using best SPECpower_ssj*2008 results submitted/published as of March 6th, 2012. See www.spec.org or www.fujitsu.com for further configuration details.
For more information go to intel.com/performance. * Other names and brands may be claimed as the property of others

Smart Data Center Management

Intel® Node Manager and Intel® Data Center Manager

Monitor
Power and Temperature

Limit
Maximum Power

Optimize
Workload Placement

Survive
Power & Thermal Events

"Energy efficiency is a top priority of our customers. We listened and developed the world's first complete server portfolio to adopt a standards-based power management solution. With the innovations in Dell OpenManage Power Center and Intel Node Manager, customers can control and optimize energy usage at the server, rack, row and room level from a single interface."

Sally Stevens – Vice President of Server Platform Marketing

DELL

intel

For Everything Your Datacenter Does

Server

Storage

Network

intel inside™ Xeon®

intel

Broadest Intel® Xeon® Product Line

~2X!

The partner system designs of the Xeon® processor 5500 series

Server

acer, APPRO, ASUS, BULL, CISCO, DELL, FUJITSU, HP, HITACHI Inspire the Next Hitachi Data Systems, IBM, HUAWEI, inspur 浪潮, lenovo, NEC, ORACLE, Quanta Optimize Your Datacenter, sgi, Sugon 中科曙光, SUPERMICRO, UNISYS

Storage

DataDirect NETWORKS Information in Motion, DELL, EMC², HITACHI Inspire the Next Hitachi Data Systems, hp, HUAWEI, IBM, NEC, NetApp, NEXSAN, ORACLE, X-IO, xyratex

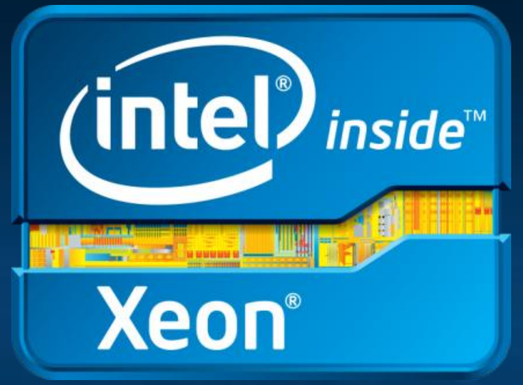
Network

ADVANTECH Enabling an Intelligent Planet, CISCO, DELL, EMERSON, hp, HUAWEI, IBM, kontron, Nokia Siemens Networks, ORACLE, radisys, ZTE中兴

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

intel

The Intel® Xeon® Processor E5 Family



80% Performance Gain[1]

Breakthrough I/O Innovation

Trusted Security

Best Data Center Performance per Watt[2]

The Heart of a Flexible, Efficient Data Center that's Built to Scale

Learn More at:
www.intel.com/datacenter

"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.
1: Performance comparison using best submitted/published 2-socket server results on the SPECfp®_rate_base2006 benchmark as of 6 March 2012. Configuration details in backup
2: Performance comparison using SPEC_Power results published as of March 6th, 2012. See back up for configuration details.
For more information go to intel.com/performance"

intel

Built to Scale: Introducing the Intel® Xeon® Processor E5 Family

Legal Information – Configuration Details

80% performance: Source: Performance comparison using best submitted/published 2-socket server results on the SPECfp*_rate_base2006 benchmark as of 6 March 2012. Baseline score of 271 published by Itautec on the Servidor Itautec MX203* and Servidor Itautec MX223* platforms based on the prior generation Intel® Xeon® processor X5690. New score of 492 submitted for publication by Dell on the PowerEdge T620 platform and Fujitsu on the PRIMERGY RX300 S7* platform based on the Intel® Xeon® processor E5-2690. For additional details, please visit http://www.spec.org. Intel does not control or audit the design or implementation of third party benchmark data or Web sites referenced in this document. Intel encourages all of its customers to visit the referenced Web sites or others where similar performance benchmark data are reported and confirm whether the referenced benchmark data are accurate and reflect performance of systems available for purchase.

(30% I/O Latency) Source: Intel internal measurements of average time for an I/O device read to local system memory under idle conditions comparing Intel® Xeon® processor E5-2600 product family (230 ns) vs. Intel® Xeon® processor 5500 series (340 ns). Baseline Configuration: Green City system with two Intel® Xeon® processor E5520 (2.26GHz, 4C), 12GB memory @ 1333, C-States Disabled, Turbo Disabled, SMT Disabled. New Configuration: Meridian system with two Intel® Xeon processor E5-2665 (2.4GHz, 8C), 32GB memory @1600 MHz, C-States Enabled, Turbo Enabled. The measurements were taken with a LeCroy* PCIe* protocol analyzer using Intel internal Rubicon (PCIe* 2.0) and Florin (PCIe* 3.0) test cards running under Windows* 2008 R2 w/SP1.

(PCIe 3.0 2X Bandwidth) Source: 8 GT/s and 128b/130b encoding in PCIe* 3.0 specification enables double the interconnect bandwidth over the PCIe* 2.0 specification. Source: http://www.pcisig.com/news_room/November_18_2010_Press_Release/

(DDIO) 1 Up to 2.3x I/O performance is 1S with a Xeon processor 5600 series vs. 1S Xeon Processor E5-2600 data for L2 forwarding test using 8x10GbE ports. Configuration details: 64B L2 Forwarding Benchmark, Rose City CRB, 8x2GB DDR3-1333MHz, 1xSNB-EP 8C B0, 2.8GHz (2.7GHz + turbo), Green City Platform, 6x2GB DDR3-1333MHz, Xeon 5680

3X I/O improvementSource: Intel internal measurements of maximum achievable I/O R/W bandwidth (512B transactions, 50% reads, 50% writes) comparing Intel® Xeon® processor E5-2680 based platform with 64 lanes of PCIe* 3.0 (66 GB/s) vs. Intel® Xeon® processor X5670 based platform with 32 lanes of PCIe* 2.0 (18 GB/s). Baseline Configuration: Green City system with two Intel® Xeon® processor X5670 (2.93 GHz, 6C), 24GB memory @ 1333, 4 x8 Intel internal PCIe* 2.0 test cards. New Configuration: Rose City system with two Intel® Xeon processor E5-2680 (2.7GHz, 8C), 64GB memory @1600 MHz, 2 x16 Intel internal PCIe* 3.0 test cards on each node (all traffic sent to local nodes).

Energy Efficient Performance) Source: Performance comparison using best submitted/published 2-socket single-node server results on the SPECpower_ssj*2008 benchmark as of 6 March 2012. Baseline score of 3,329 ssj*_ops/watt published by Hewlett-Packard on the ProLiant DL360 G7* platform based on the prior generation Intel® Xeon® processor X5675. Score of 5,093 ssj*_ops/watt submitted for publication by Fujitsu on the PRIMERGY RX300 S7* platform based on the Intel® Xeon® processor E5-2660. For additional details, please visit http://www.spec.org. Intel does not control or audit the design or implementation of third party benchmark data or Web sites referenced in this document. Intel encourages all of its customers to visit the referenced Web sites or others where similar performance benchmark data are reported and confirm whether the referenced benchmark data are accurate and reflect performance of systems available for purchase. www.spec.org.

This slide MUST be used with any slides removed from this presentation

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Intel does not control or audit the design or implementation of third party benchmarks or Web sites referenced in this document. Intel encourages all of its customers to visit the referenced Web sites or others where similar performance benchmarks are reported and confirm whether the referenced benchmarks are accurate and reflect performance of systems available for purchase.

Relative performance is calculated by assigning a baseline value of 1.0 to one benchmark result, and then dividing the actual benchmark result for the baseline platform into each of the specific benchmark results of each of the other platforms, and assigning them a relative performance number that correlates with the performance improvements reported.

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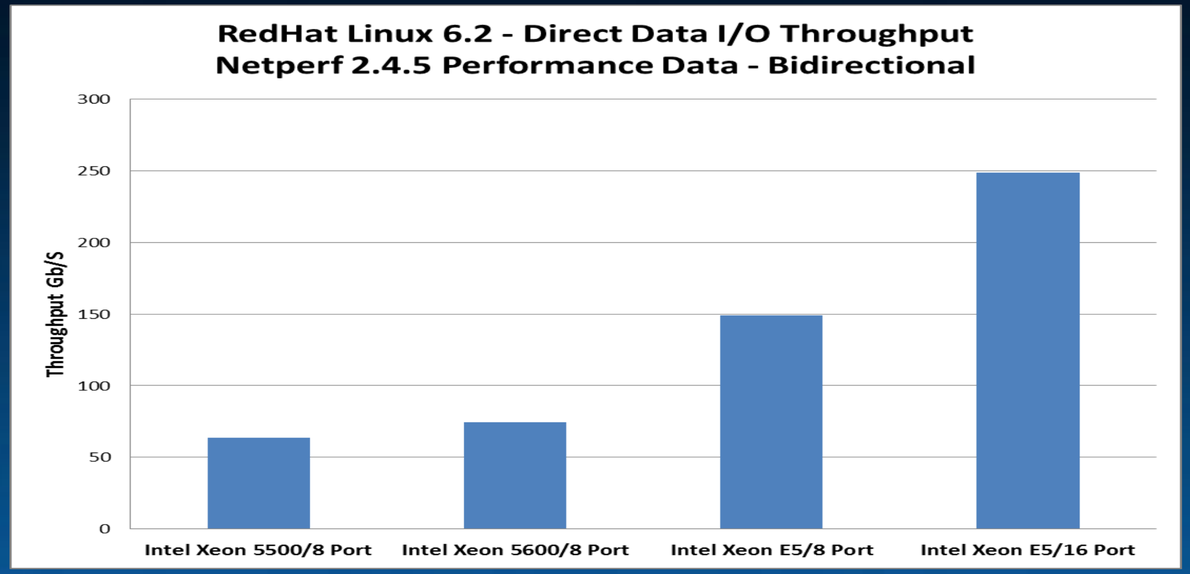
Red Hat 6.2 – Direct Data I/O Performance
Bidirectional Data



Test Configuration
Netperf version 2.4.5
RedHat Enterprise Linux 6.2
Buffer Sizes= 8KB
Interrupts Affinity – Socket
Process Affinity – Socket
Services Disabled - LLDPAD, IPTABLES, IP6TABLES, SELINUX, IRQBALANCE

SUT: GreenCity SDV
Intel® Xeon® Processor W5590 (8M Cache, 3.33 GHz, 6.40 GT/s Intel® QPI)
12GB DDR3 RAM @ 1333MHz
Intel® 5520 Chipset

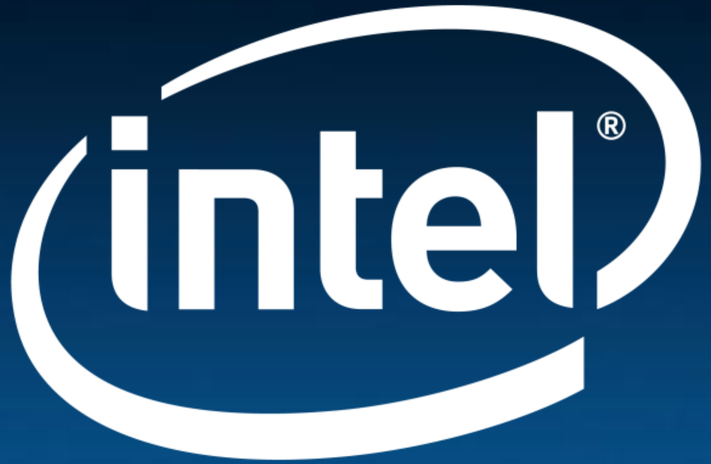
SUT: GreenCity SDV
Intel® Xeon® Processor X5680 (8M Cache, 3.33 GHz, 6.40 GT/s Intel® QPI)
12GB DDR3 RAM @ 1333MHz
Intel® 5520 Chipset

SUT: CanoePass SDV
Intel® Xeon® Processor E5 (8M Cache, 2.7 GHz, 8 GT/s Intel® QPI)
48GB DDR3 RAM @ 1333MHz
Intel® Patsburg Chipset

Clients
Intel Server System SR1600UR
2 Intel® Dual Core Xeon® processors 5570 @2.93GHz
8 GB RAM
Intel® Ethernet Server Adapter X520
RedHat Linux 6.1

Network Configuration
Cisco Nexus 5020
Clients connected @ 10000Mbps

Source: LAD Marketing - February 2012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