Agenda …

- Position et Stratégie d'IBM
- Nouveautés de la gamme des systèmes Power
- Les systèmes Power Linux
- La famille Pure Systems
- IBM i 7.1 et Technology Refresh TR6
- **AIX 7.1**
- Solutions sur Power

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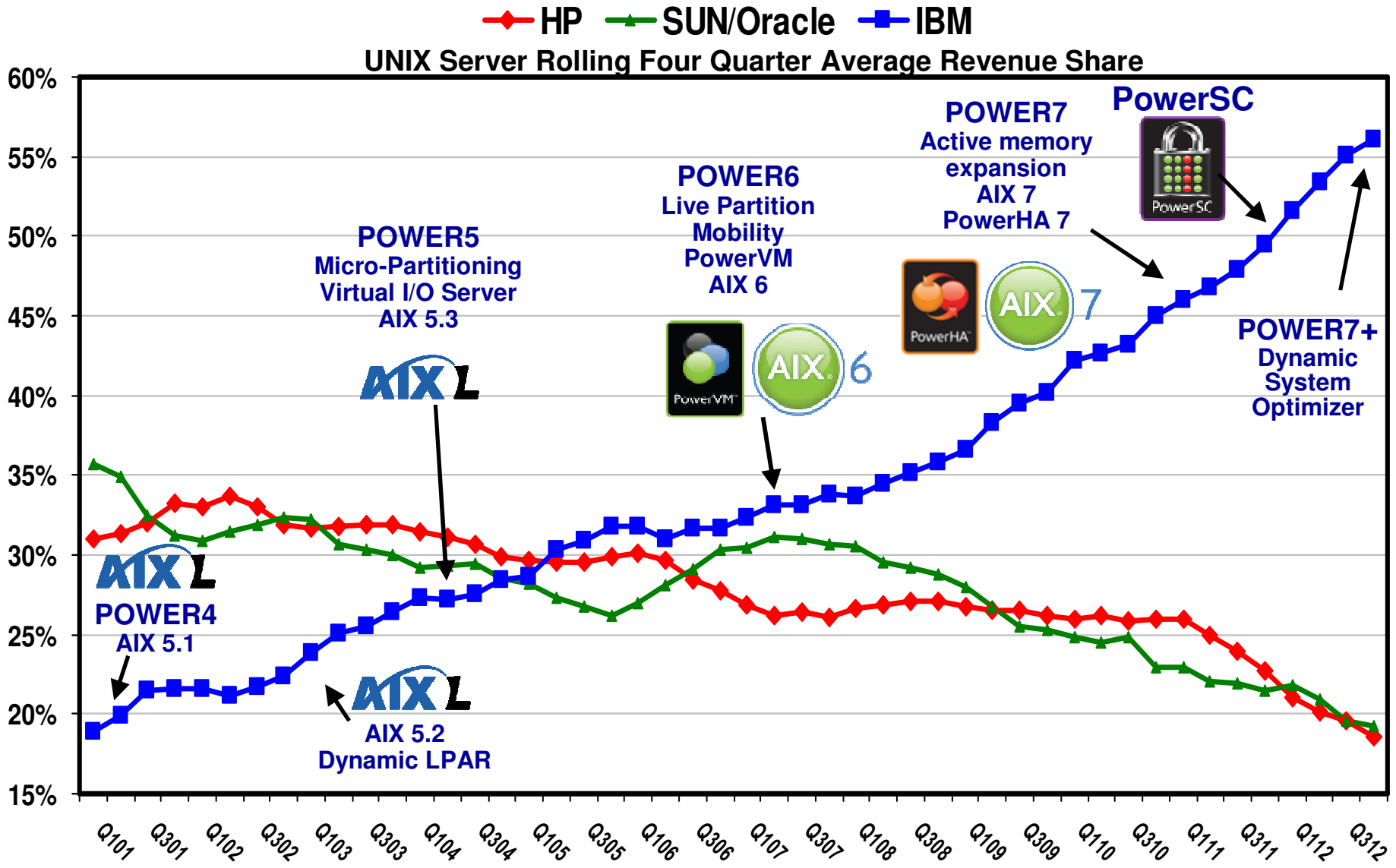
IBM Power UNIX Leadership



Source: IDC Server Tracker, 4Q12

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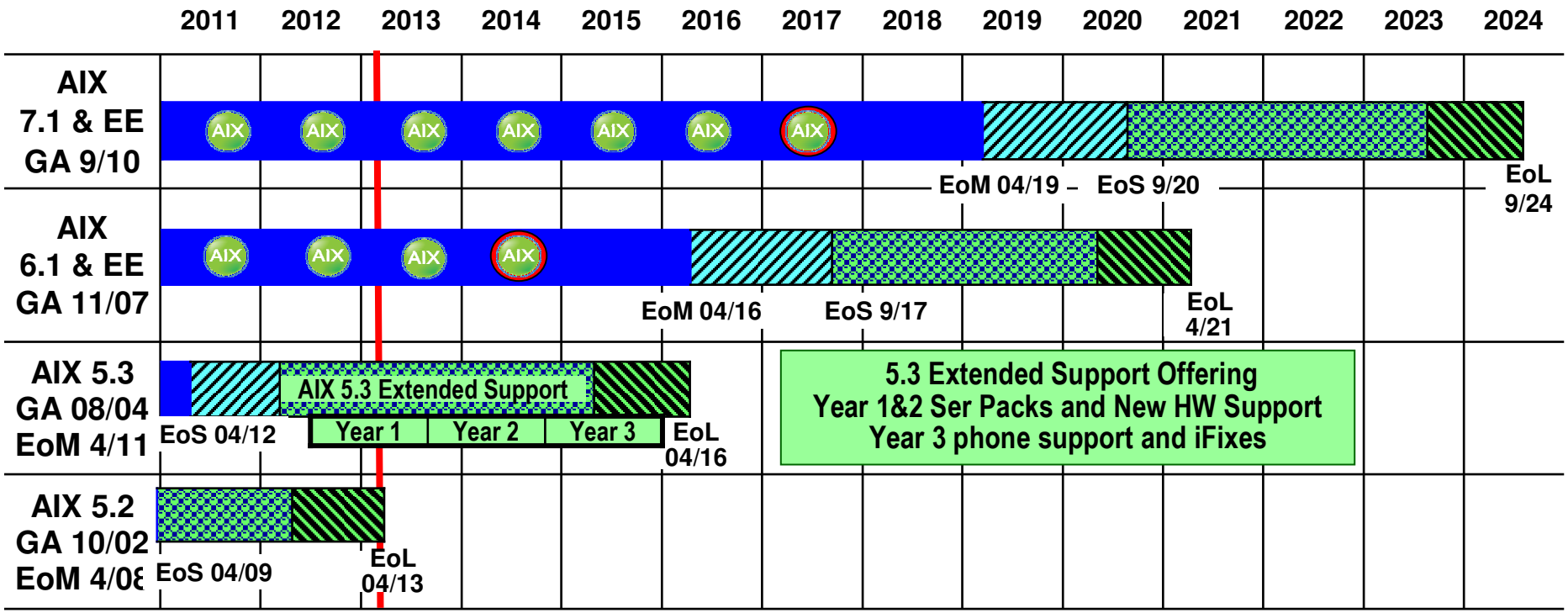
Roadmap AIX



-Marketed & serviced

-Serviced only

AIX -Technology Level Update

AIX -Last TL Update

-Fee-based service extension

-Web support only

*All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

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Améliorations AIX …

AIX 7.1 TL2, 6.1 TL8

- Support serveurs à base de POWER7+
- **Virtual Processor Management Scaled Throughput** Option - améliore le ratio de débit des workload
- **LPAR to WPAR migration tool** – pour migrer les workloads depuis LPAR vers WPAR.
- **Exploitation des Accélérateurs Crypto POWER7+** – activation des encrypted File Systems & IPsec
- **Active System Optimizer** disponible à partir de AIX 6.1 TL8
- **AIX Enterprise Edition** qui inclut désormais
  - **PowerSC** pour simplifier la gestion de la sécurité et de la conformité
  - **SmartCloud Entry Bundle** pour déployer et gérer aisément des Cloud privés

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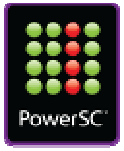
AIX Enterprise Edition

AIX Enterprise Edition is a single offering that brings together AIX with key service management capabilities that are designed to:

- Improve availability through access to relevant real-time information and predictive monitoring to avoid future problems
- Simplify security management and compliance measurement
- Easily deploy and manage private clouds



- **AIX Enterprise Edition includes:**
  - **AIX 6.1 or 7.1**
  - **WPAR Manager**
  - **IBM Tivoli Monitoring**
  - **IBM System Director Standard**
  - **VMControl Enterprise**
  - **Network Control**
  - ***PowerSC***
  - ***SmartCloud Entry***
  - ***Storage Control***

	Small Tier	Medium Tier	Large Tier
Total List Price for AIX EE Components	**$2,140**	**$4,628**	**$7,975**
AIX EE List Pricing	**$1,055**	**$2,655**	**$5,275**
% off list	**51%**	**43%**	**34%**

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PowerHA SystemMirror Enterprise Edition v7

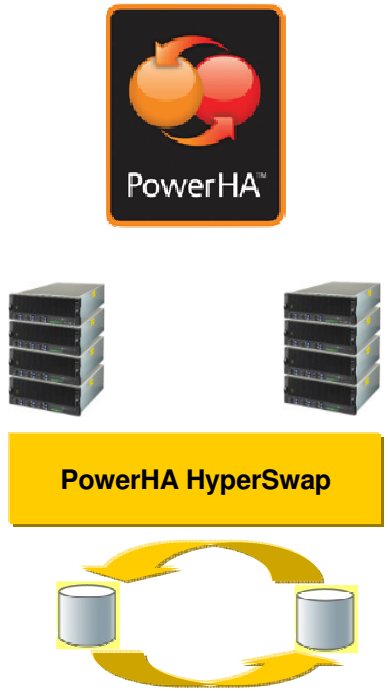
Data Ready

Une interface améliorée

- Une interface plus simple dans IBM Systems Director
- Une mise en oeuvre aidée par un assistant de configuration
- Une gestion directe par le kernel d'AIX : Cluster Aware AIX

Des possibilités étendues pour mieux satisfaire vos besoins

- clusters liés (linked clusters) et Clusters étendus (stretched clusters) apportant différents scénarios de configuration
- Basculement instantané du stockage par le support d'HyperSwap sur les baies DS8800
- Tiebreaker multi-site pour éviter le scénario du site isolé (split-brain syndrom)



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PowerSC – Sécurise, simplifie et réduit les coûts

Security Ready

Security Compliance Automation

- Simplifiez l'application de règles de sécurité officielles (Sarbanes-Oxley, COBIT, etc)

Trusted Boot

- Garantissez la fiabilité de l'image de boot, du système d'exploitation et des applications au moyen de la technologie virtual Trusted platform module (TPM)

Trusted Firewall

- Sécurisez les VLAN entre VM d'une même machine sans sortir sur le réseau physique. Configurez un pare-feu interne au Virtual IO server, économisez la bande passante de votre réseau !

Trusted Logging

- Sécurisez les logs d'AIX en centralisant leur archivage temps réel sur le VIOS

Trusted Network Connect and Patch management

- Vérifiez le niveau de correctifs pour AIX et vos applications grâce à une infrastructure simple et automatisée basée sur le réseau

Trusted Surveyor

- Simplifiez la gestion des VLANs : Trusted Surveyor interroge les HMC pour découvrir les VLAN de votre réseau. Définissez vos règles d'isolement entre VLAN et assurez vous de leur bonne application

Nouveau

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OSPP Common Criteria Security Certification

- Operating System Protection Profile (OSPP) standard replaces the old CAPP/EAL4+ certification
- Evaluation included AIX 7 and the VIOS 2.2

Bundesamt für Sicherheit in der Informationstechnik

Deutsches IT-Sicherheitszertifikat
erteilt vom Bundesamt für Sicherheit in der Informationstechnik

BSI-DSZ-CC-0711-2012

IBM AIX 7 for POWER, V7.1 Technology level 7100-00-03 with optional IBM Virtual I/O Server V2.2

from	IBM Corporation
PP Conformance:	Operating System Protection Profile, Version 2.0, 01 June 2010, BSI-CC-PP-0067-2010 OSPP Extended Packages: (1) General Purpose Cryptography, (2) Integrity Verification, (3) Virtualization, (4) Advanced Management, (5) Labeled Security all Version 2.0, 28 May 2010
Functionality:	PP conformant Common Criteria Part 2 extended
Assurance:	Common Criteria Part 3 conformant EAL 4 augmented by ALC_FLR.3

Common Criteria Recognition Arrangement

Common Criteria

The IT product identified in this certificate has been evaluated at an approved evaluation facility using the Common Methodology for IT Security Evaluation (CEM), Version 3.1 for conformance to the Common Criteria for IT Security Evaluation (CC), Version 3.1.

This certificate applies only to the specific version and release of the product in its evaluated configuration and in conjunction with the complete Certification Report.

The evaluation has been conducted in accordance with the provisions of the certification scheme of the German Federal Office for Information Security (BSI) and the conclusions of the evaluation facility in the evaluation technical report are consistent with the evidence adduced.

This certificate is not an endorsement of the IT product by the Federal Office for Information Security or any other organisation that recognises or gives effect to this certificate, and no warranty of the IT product by the Federal Office for Information Security or any other organisation that recognises or gives effect to this certificate, is either expressed or implied.

Bonn, 20 August 2012
For the Federal Office for Information Security

Bundesamt für Sicherheit in der Informationstechnik - 6 -

Bernd Kowalski
Head of Department

SOGIS IT SECURITY CERTIFIED

Bundesamt für Sicherheit in der Informationstechnik
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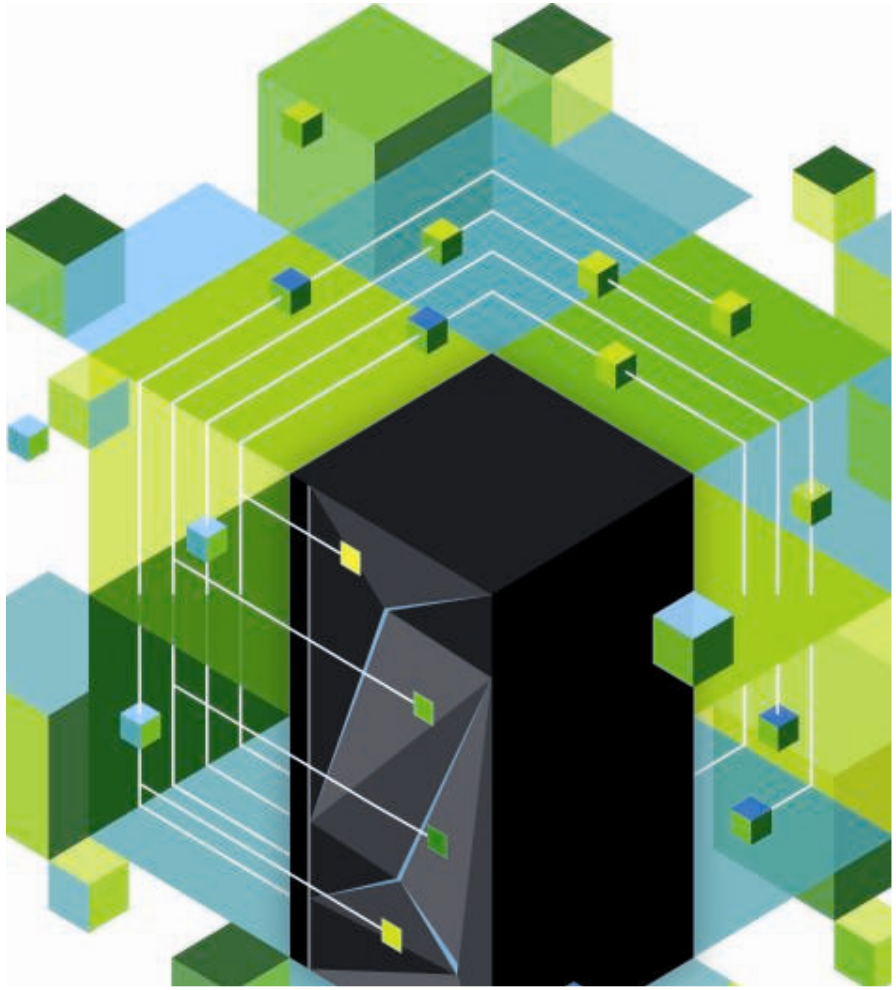
Solutions sur Power



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IBM Solutions – Power Systems Editions June 10th

Power Solutions enable smarter industry transformations with next generation applications for Big Data & Analytics & cognitive computing

- **Power-based big data & analytics solutions for healthcare, retail and cross-industry**
  - Healthcare to improve patient care and experience, reduce healthcare costs and maximize health resource utilization
  - Retail to provide a personalized, seamless and exceptional customer retail experience
  - Cross-Industry to drive real-time data driven business decisions through advanced analytics and cognitive computing capabilities

Healthcare – Power Systems Editions

- IBM Patient Care and Insights Infrastructure Solution
- IBM Cúram Solution for Care Management – Power Systems Edition
- IBM Campaign for Healthcare – Power Systems Edition
- IBM Health Analytics Quick Start

Retail – Power Systems Editions

- IBM Campaign for Retail – Power Systems Edition

Cross-Industry - Power Systems Editions

- IBM AIX Solution Edition for Analytical Decision Management

Cognitive Computing Solutions

- Watson Engagement Advisor provides an exceptional client experience through personalized, contextual and evidence-based interactions to drive better decisions and faster outcomes

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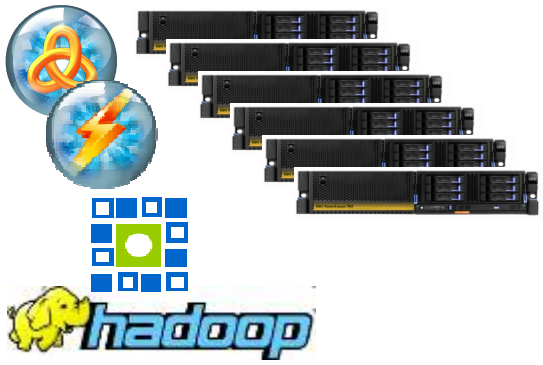
IBM Smarter Analytics Solutions on Power

Industry's best platform for compute intensive analytics workloads

Big Data Analytics Solutions

Analyze massive amounts of structured and unstructured, time-sensitive data



InfoSphere Streams
InfoSphere BigInsights
Open Source Apache Hadoop
Platform Symphony

Custom Designed Business Analytics Solutions

BI and Predictive Analytics of real-time and historical data

DB2 Web Query for i

Cognos

SPSS

sas

SAP

Expert Integrated Operational Analytics Solutions

Real-time continuous analysis of operational data streams

PureData

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AIX Solution Edition For Cognos and SPSS

Atout de l'optimisation du logiciel d'analytique prédictive métier d'IBM sur IBM Power Systems

Cognos SPSS

POWER7 BUILT ON Power

- AIX édition Standard ou Entreprise
- PowerVM édition Standard ou Entreprise
- **Cognos POWER7+** (commande en 1 clic)
- **SPSS POWER7+**

NEW NEW

Power 710, 720, 730, 740

Accélérer les aperçus

Performances **accrues de 40%** avec Cognos BI V10.1.1 sous POWER7/AIX 7.1, par rapport à Windows 2008 sous x86[1]

Accélérer la prévision des résultats

Performances **accrues de 22%** avec SPSS Collaboration and Deployment Services V4.2 sous POWER7/AIX 7.1, par rapport à Windows 2008 sous x86[2]

Offre de matériel :

- Activations ½ processeur sans frais
- 50% de réduction sur les licences AIX

Pour plus d'informations : http://www.ibm.com/systems/power/hardware/solutioneditions/aix/index.html

[1] https://review.boulder.ibm.com/webapp/iwm/web/signup.do?source=stg-web&S_PKG=us-en-po-wp cognosbi&test=Y

[2] **Basé sur des tests IBM internes. Voir les notes de l'orateur.**

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New! Speed of Thought Analytics - with DB2 BLU Acceleration

IBM Research and Development Lab Innovations

- **Dynamic In-Memory**
  In-memory columnar processing with dynamic movement of unused data from storage
- **Actionable Compression**
  Industry's first data compression that preserves order so that the data can be used without decompressing
- **Parallel Vector Processing**
  Multi-core and SIMD parallelism (Single Instruction Multiple Data)
- **Data Skipping**
  Skips unnecessary processing of irrelevant data

BLU Acceleration

Analyze More Data, Faster

In internal testing, some queries within a analytic workload achieved over 1000x performance improvement[1]

Testing has shown storage savings of 1.6x to 2.6x compared to DB2 10.1[2]

[1] Based on internal IBM tests of analytic workloads comparing queries accessing row-based tables on DB2 10.1 vs. columnar tables on DB2 10.5. Results not typical. Individual results will vary depending on individual workloads, configurations and conditions, including size and content of the table, and number of elements being queried from a given table.
[2] Based on IBM internal testing and reported beta client testing. Individual results will vary depending on individual workloads, configurations and conditions, including table size and content.

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Fast on Fast: DB2 with BLU Accelerations on Power

Customer	Average Query Speed Up
Large Financial Services Company	46.8x
Global ISV Mart Workload	37.4x
Cognos Analytics	18.0x
Consumer Package Goods Vendor	14.0x

10x-25x improvement is common

Some queries have experienced over 1000x

"It was amazing to see the faster query times compared to the performance results with our row-organized tables. ***The performance of four of our queries improved by over 100-fold! The best outcome was a query that finished 137x faster by using BLU Acceleration."***

- Kent Collins, Database Solutions Architect, BNSF Railway

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AIX Solution Edition for Analytical Decision Management

Combine predictive analytics with business rules to determine the "*next best action*" in real time.

The base offering:

Middleware: DB2 Enterprise Server with BLU Acceleration, WebSphere Application Server

System Software: AIX Standard or Enterprise Edition([1]) and PowerVM Standard or Enterprise

Sftware pre-load options:

Modeler Server Professional: Industry-leading data mining workbench that allows organizations to uncover the hidden insight in their structured data.

Collaboration & Deployment Support: A foundation for real-time scoring and deploying analytics results to people and systems.

Decision Management: Drives the answer to the point of impact and recommends an action that is consistent with organizational strategy

Power7+ server pre-load options:

Power 710, 720, 730, 740

(1/2 of processors activated at no charge)[1]

Predicting Outcomes Faster

Up to 50% faster scoring
with SPSS Collaboration and Deployment Services V5.0
on POWER7+/AIX 7.1,
over Windows 2008 on x86[2]

[1] For more information: http://www.ibm.com/systems/power/hardware/solutioneditions/aix/index.html

[2] Based on internal testing. Details to be added to speaker notes.

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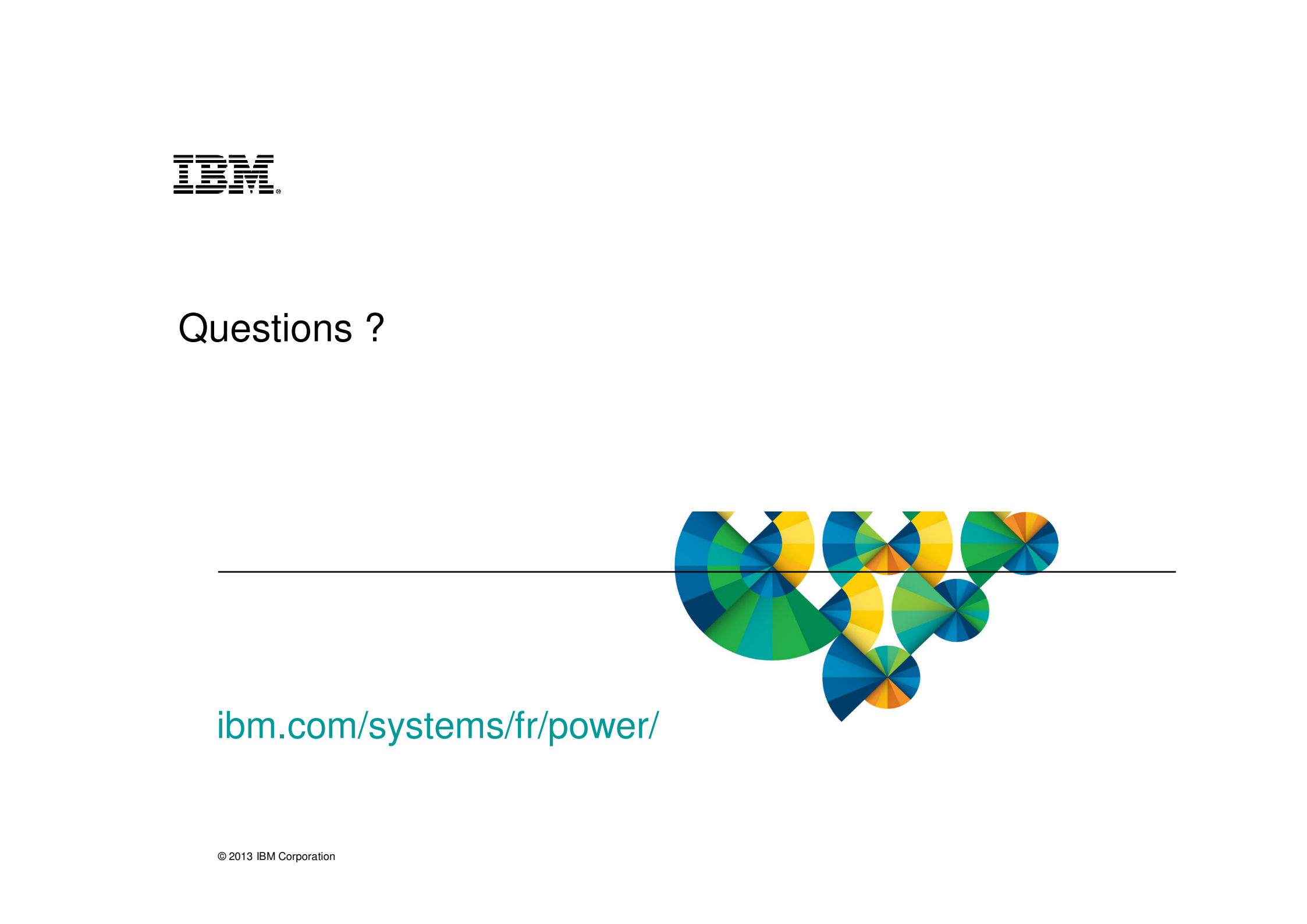

Questions ?

ibm.com/systems/fr/power/

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