

## **Stockage : IBM annonce de nouvelles innovations**

**Paris - 07 oct. 2010:**

*La compagnie continue de s'investir dans l'innovation en matière de stockage afin d'améliorer la vitesse de restitution des données pour de nouvelles charges de travail telles que le traitement de transactions et l'analyse de données*

Le monde se noie aujourd'hui dans un flot de données. On estime à 1 trillion les appareils connectés à Internet dans le monde d'ici peu. Chaque jour, 15 petabytes de nouvelles informations sont générés (soit huit fois plus d'informations que contient l'ensemble des bibliothèques des Etats-Unis). Cette année, on s'attend à ce que la quantité d'information digitale générée atteigne 988 exabytes : soit autant d'information que si des livres étaient empilés le long de l'aller-retour entre le Soleil et Pluton !

Selon la société de recherche IDC, le nombre mondial de données excède déjà l'espace de stockage disponible – et le besoin en capacité de stockage va continuer à augmenter à un taux annuel cumulé de plus de 43% les trois prochaines années. Depuis les médias et les divertissements jusqu'à la vente et les services financiers, les possibilités d'une gamme de nouveaux services améliorés pouvant augmenter notre niveau de vie sont innombrables.

Dans ce contexte, les entreprises sont confrontées à deux problématiques. Dans un premier temps, elles doivent faire face à la croissance des données en prenant en compte les aspects de sécurité et de coût. Par ailleurs, elles doivent également parvenir à transformer ce flot de données en informations intelligentes afin de devenir plus compétitives et de pouvoir innover sur leur marché. L'investissement continu d'IBM dans la recherche (6 milliards de dollars alloués à la recherche et au développement chaque année) lui permet d'apporter sans cesse de nouvelles réponses à ce genre de problématiques.

IBM présente ainsi aujourd'hui un ensemble de nouvelles solutions dont une baie de stockage de gamme intermédiaire : IBM Storwize.

### **IBM Announces New Storage Systems to Increase Efficiency; Optimized for Workloads such as Transaction Processing & Analytics**

*Continues to Invest in Storage Innovation to Help Clients Speed Delivery of Data for New Workloads*

ARMONK, NY -- October 7, 2010 -- IBM today announced innovative new storage systems that are optimized for workloads such as transaction processing and real-time analytics, reflecting the company's \$6 billion annual investment in R&D.

Among the new products is a midrange disk storage system, called the IBM Storwize V7000, designed to more

efficiently and cost effectively manage the torrent of data flowing into companies so it can be swiftly delivered for such workloads as transaction processing -- like the growing volume of transactions completed from the Web and mobile and embedded devices.

The IBM Storwize V7000 system simplifies administrative tasks such as set up and management. The new system reduces storage rack space by up to 67% when compared with competitive offerings, allowing room for clients' future growth(1). It also includes a highly-integrated set of advanced software for storage efficiency that frees clients from buying piece-parts or making trade-offs between price and capability.

Demand for storage capacity worldwide continues to grow at a compound annual growth rate of more than 43 percent from 2008-2013(2). Businesses are struggling with the volume and evolving nature of the data they're already collecting. They're under tremendous pressure to turn this data into insight, and grappling with how they're going to store and secure it all. IBM continues to develop innovative storage technologies, using its significant R&D spending to help clients not only manage data proliferation, but harness data to create insights for competitive advantages.

The new storage systems IBM is announcing today build on other storage innovations from IBM -- driven by billions of dollars spent on R&D and strategic storage acquisitions. They include technologies that eliminate the need to repeatedly back up and make copies of the same data; scale-out storage to support growth -- particularly of unstructured data like video and photos -- and high-performance workloads like cloud computing; and technologies to place the most critical data on fast, dynamic storage devices so it can be more quickly made available for workloads like analytics and mobile transaction processing. Examples include:

- IBM System Storage Easy Tier software, which was invented by IBM Research and can improve performance by up to 200%(3). Easy Tier automatically moves the most active data (such as credit card transactions) to faster solid-state drives (SSDs) to prioritize and provide quick access to data for emerging workloads like analytics, while moving secondary data (less urgent data to be saved, for example, for regulatory requirements) to more cost-effective storage technologies;
- The ProtecTIER deduplication technology that IBM acquired in 2008 to eliminate duplicate copies of data and significantly improve storage efficiency;
- The IBM Real-time Compression Appliances -- technology that IBM acquired earlier this year to help clients reduce physical storage requirements by up to 80%(4);
- The XIV high-end disk storage architecture that IBM acquired in 2008 to provide clients with high-performance storage needed for workloads like cloud computing;
- IBM's Scale-out Network Attached Storage (SONAS), invented by IBM Research to support multiple petabytes of storage in a single file system. Clients can also use XIV and SONAS together to create a complete cloud storage solution; and
- The IBM Information Archive, which combines tape and disk storage to deliver clients a tiered storage system that protects data for long-term retention while optimizing costs.

The Storwize V7000 further demonstrates that IBM is sharing its most innovative storage technologies across its portfolio. For example, the system includes a graphical user interface (GUI) modeled after the popular XIV user interface to significantly reduce system set up and administration; Easy Tier software; and industry-leading storage virtualization software that has been shown to double productivity (5).

IBM also introduced today a range of other storage products, including:

- The IBM System Storage DS8800, which offers up to 40 percent faster performance than its predecessor, the IBM System Storage DS8700(6). The DS8800 will next year support IBM Easy Tier.
- Updated SAN Volume Controller software that includes Easy Tier, an improved administrator GUI and increased scalability;
- IBM Systems Director Storage Control software that manages storage, servers and network technology through a single interface;
- IBM Tivoli Storage Productivity Center v4.2 software that has been enhanced for midrange systems; and
- Implementation Services for Disk Systems - IBM Storwize V7000, using highly skilled storage specialists who will provide planning, implementation, configuration, testing and basic skills instruction. Using IBM services will enable clients to use in-house resources for higher priority business initiatives and accelerate the return on investment in IBM storage technology.

*"Organizations are struggling with the volume and evolving nature of the data they're already collecting. The IBM Storwize V7000 will deliver clients a new level of storage efficiency that will help them better store and secure their data,"* said Brian Truskowski, general manager of IBM storage. *"IBM is combining home-grown storage innovations like our Easy Tier technology together with acquisitions of industry leading storage technologies such as XIV to deliver our clients a truly unmatched portfolio of storage solutions."*

## **IBM**

For more information on IBM, visit [www.ibm.com](http://www.ibm.com). For more information on IBM Storage, go to [www.ibm.com/systems/storage/](http://www.ibm.com/systems/storage/).

(1) The Storwize V7000 can reduce storage rack space by up to 67% when compared against a comparable EMC offering.

(2) IDC, Worldwide Enterprise Storage Systems 2009-2013 Forecast Update, Doc # 221287, December 2009.

(3) Per a published Storage Performance Council (SPC) benchmark of a storage system using IBM System Storage Easy Tier software that reports a performance improvement of more than 200 percent by using the application to automatically migrate only 2 percent of the data from hard disk to SSDs. (Source: Storage Performance Council, April 2010:

[http://www.storageperformance.org/results/benchmark\\_results\\_spc1#a00092](http://www.storageperformance.org/results/benchmark_results_spc1#a00092))

(4) Compression data collected from installed IBM Real-time Compression Appliances. Compression rates vary by file type and content. Compressed data may not compress further with IBM's Random Access Compression Engine (RACE) technology.

(5) Total Economic Impact Study for IBM SAN Volume Controller, 2006, Jon Erickson, Forrester Research. 2006. See [http://www-03.ibm.com/systems/resources/systems\\_storage\\_software\\_virtualization\\_wpapers\\_forrester\\_svc.pdf](http://www-03.ibm.com/systems/resources/systems_storage_software_virtualization_wpapers_forrester_svc.pdf)

(6) Based on internal IBM performance testing.

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