



**Where do you put 1,000,000,000,000 DNA base pairs?
Could you quickly find one CT scan in a million?**

HP StorageWorks 9100 Extreme Data Storage System,
for the Health & Life Sciences industries.



Could you quickly find one CT scan in a million?

HP StorageWorks 9100 Extreme Data Storage System, for the Health & Life Sciences industries.

Data is doubling every six to eight months.

Where do you put it all?

“With ever-tighter budgets, new investments are channelled into research, and not the IT infrastructure. Yet data is exploding and our researchers demand that it be easily accessible. Every new device we buy is hungry for more storage.”

“Of course we want data availability and reliability. Yet, IT staff of medical and research facilities also prize simplicity – that is, a system that’s simple to configure, manage and install.”

“It’s not just the acquisition cost of new hardware. It’s also the management, space and environmental cost of terabytes of new storage that need to be addressed.”

From better data mining techniques to faster algorithms, as new technologies facilitate the collection and analysis of vast quantities of data, the health and life sciences industries are becoming increasingly quantitative. From CT scans and X-rays, to angiograms and DNA sequencers, new equipment generates ever-more granular data, so files increase in complexity and size. Whether in biomedical research or patient care, industry professionals need real-time, on-demand access to files to maximise the outcomes of their day.

From HP, ideal for the Health and Life Sciences industries.

The ExDS9100 is a new storage appliance from HP that represents an extreme commitment to your industry’s demands for managing rapid data growth. New 256 slice CT scanners? Whatever the source of your in-house data explosion, low overall operational costs mean you can more affordably cater to your specific storage needs. Even more gene sequencer output or medical images? Copy data straight to the file-based storage to reduce complexity, and further reduce costs. The HP ExDS9100 is also massively scalable, allowing you to easily add or upgrade your storage, as you need.

Your story?

A leading cancer research institute invested in a modest storage resource, yet had to add 180 nodes within the following 9 months in order to support one sequencer.

Another research facility has 10 of the newest Illumina Genome Analyzer II gene sequencers. Every standard 4-day sequencing run from each sequencer generates 4.8TB of data. This is a 50x increase in data over the previous sequencers. Data centre managers could let their DAS environment continue to grow with all its inefficiencies – or consolidate onto one low-cost, highly scalable system.

Simple, dense, affordable storage.

HP StorageWorks 9100 Extreme Data Storage System.

Big science needs big storage. We'd like you to meet a system so massive that it only starts at 164 terabytes – and so dense that it fits up to 820 terabytes into the space of 2 x 42U racks.

Extreme Scalability

Would your users value a system that's never offline? Whether it's the tens of thousands of images produced by ultrasound or other medical imaging equipment, system performance can be enhanced, seamlessly.

- Performance and capacity can be scaled independently.
- A fully integrated appliance. Non-disruptively add and configure servers and storage online with a single command.

Unified Management

Imagine uncrating an appliance, rolling it out onto the data centre floor, and then just firing it up? You'll dramatically simplify and reduce the administration and associated costs for your medical or scientific facility.

- The system as a whole is managed from a single interface.
- This management interface allows for configuration and control, including monitoring system status, performance utilisation, and the capacity of servers and storage.

Extreme Affordability

Adding a new CT scanner? Easily cater for your institute's data explosion and only pay for the storage you need.

- Lower acquisition and management costs.
- Comes fully configured, with all hardware and software, so you can quickly store materials on a more affordable, content-on-demand system.



Our story. A history of excellence, with HP.

- The HP ExDS9100 is based on industry-standard components, ensuring the fast and easy incorporation of new parts.
- Industry-leading economies of scale drive down acquisition cost.
- A network of global support to keep you up and running.

HP works closely with strategic commercial and public domain applications developers to provide top-performing scalable, reliable and highly available solutions to life sciences customers. HP is a critical partner for researchers working to improve human health.

For more information on the HP StorageWorks 9100 Extreme Data Storage System, visit www.hp.com/XXXX

[Part Number] © Copyright 2009 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. This document is provided for informational purposes only. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

xxxx-xxxxEEE. January 2009



Technology for better business outcomes