



IBM System Storage DCS3700 delivers new performance features for 1818-80C

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At a glance

IBM® Storage offers new technology controller updates for IBM Storage DCS3700, 1818-80C, disk controller systems. The new Performance Module feature offers increased processor speeds, very large memory capacities, and double the scalability of disk drive expansion and premium feature functions. The DCS37000 with the Performance Modules takes advantage of the capabilities of the enhanced disk drive technologies such as Dynamic Disk Pooling, to offer exceptional processing abilities to high performance computing (HPC) industries such as oil and gas, life sciences, and media applications in large corporate and government labs.

Overview

The new IBM Performance Module features provide new controller canisters for the DCS3700 with increased processor speeds, larger cache memory capacities, and double the scalability of the original offering. Designed for use with HPC computing environments, the DCS3700 with Performance Modules increases the processing capability and storage capacity for HPC uses in the oil and gas industries, media applications, and life sciences with installation in large corporate data centers and government labs.

Each performance module brings four 8Gb Fibre Channel (FC) host ports, dual gigabit Ethernet ports, and a 6Gb SAS expansion connection to the DCS3700. A slot is available for additional host interface cards, such as a new 4 port 8Gb FC host interface card (HIC). There are three slots for DDR3 memory DIMMs in 2, 4, and 8 GB capacities, for a total of up to 6, 12, or 24 GB of memory for the canister, for a total of up to 12, 24, or 48 GB for the DCS3700 system with Performance Modules.

In addition to the increased memory scalability, the DCS37000 outfitted with performance modules will have increased scalability in drive capacity, with two 6Gb SAS ports to redundantly connect to up to five EXP3700 expansion enclosures, doubling the current number of attached disks to 360. Using the 3 TB NL SAS drive options yields over 1 PB of raw disk capacity.

Increased scalability applies as well to the premium features that bring exceptional functionality. Loaded with the latest code, the base DCS3700 with the Performance Modules uses Dynamic Disk Pooling to provide thin provisioning and larger volumes. Disk pooling brings more efficient FlashCopies, roll back FlashCopies, and consistency groups. The Performance Modules allow double the number of FlashCopy® instances, up to 2048. With the Performance Module, a special bundle of FlashCopy and VolumeCopy offers up to 2048 FlashCopies and up to 511 Volume copies per array.

Key prerequisites

The DCS3700 with the Performance Module is supported for attachment to selected:

- IBM System x® , IBM BladeCenter® , and IBM Power® System servers and blades
- Intel™ and AMD processor-based servers

Refer to the IBM System Storage® Interoperation Center (SSIC) for additional details

<http://www.ibm.com/systems/support/storage/config/ssic>

Planned availability date

September 14, 2012

Description

The DCS3700 with Performance Modules now offers the following features:

- 12, 24, or 48 GB of cache memory
- 360 drives in the controller enclosure and up to 5 expansion enclosures for over 1 PB of raw disk capacity
- Eight or sixteen 8Gb Fibre Channel Host interface ports
- 2048 instances of FlashCopies per array
- 511 VolumeCopies per array

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Product number

Description	Machine type	Model	Feature number
Performance Module Controllers	1818	80C	3100
12GB Cache	1818	80C	3110
24GB Cache	1818	80C	3111
48GB Cache	1818	80C	3112
Upgrade Cache to 24GB	1818	80C	3116
Upgrade Cache to 48GB	1818	80C	3117
Two 4-port 8Gb FC HIC	1818	80C	3130
Licensed Functions			
8 to 256 Partition Upgrade	1818	80C	3514
8 to 512 Partition Upgrade	1818	80C	3515
64 to 256 Partition Upgrade	1818	80C	3541
128 to 256 Partition Upgrade	1818	80C	3551
128 to 512 Partition Upgrade	1818	80C	3552
256 to 512 Partition Upgrade	1818	80C	3561
Volume Copy plus Enhanced FlashCopy bundle - 2048 PiTs/array and 1024/array VC (DCS3700+)	1818	80C	3905

Publications

No publications are shipped with these options. Refer to the publications that shipped with your base system for information.

Publications and product documentation are available at the IBM System Storage Support site

<http://www.ibm.com/systems/support/storage/>

Services

Global Technology Services

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an On Demand Business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or visit

<http://www.ibm.com/services/>

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or visit

<http://www.ibm.com/services/continuity>

For details on education offerings related to specific products, visit

<http://www.ibm.com/services/learning/index.html>

Select your country, and then select the product as the category.

Technical information

Specified operating environment

Physical specifications

- Height: 17.6 cm (6.9 in)
- Width: 48.3 cm (19.0 in)
- Depth: 86.6 cm (34.1 in)
- Approximate weight:
 - DCS3700 Storage System:
 - Empty: 46.0 kg (101.4 lbs)
 - Fully configured: 102.3 kg (225.5 lbs)
 - DCS3700 Expansion unit:
 - Empty: 46.0 kg (101.4 lbs)
 - Fully configured: 104.1 kg (222.6 lbs)

To assure installability and serviceability in non-IBM industry-standard racks, review the DCS3700 publications for any product-specific installation requirements.

Compatibility

Refer to the IBM System Storage Interoperation Center (SSIC) for a comprehensive list of supported environments, devices, and configurations

<http://www.ibm.com/systems/support/storage/config/ssic>

Planning information

Customer responsibilities

Physical configuration and installation planning are customer responsibilities. Refer to the *IBM Systems Storage DCS3700 Installation, User's, and Maintenance Guide* for additional information.

You are responsible for downloading or obtaining from IBM , and installing designated Machine Code (microcode, basic input/output system code (called BIOS), utility programs, device drivers, and diagnostics delivered with an IBM machine) and other software updates in a timely manner from an IBM Internet website or from other electronic media, and following the instructions that IBM provides. You may request IBM to install Machine Code changes; however, you may be charged for that service.

Cable orders

No cables required.

Security, auditability, and control

This product uses the security and auditability features of host hardware, host software, and application software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings, for the efficient installation, implementation, and/or integration of this product.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

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The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM . Early knowledge about potential problems

enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

<http://www.ibm.com/support/electronic>

Terms and conditions

Warranty period

One year

An IBM part or feature installed during the initial installation of an IBM machine is subject to a full warranty effective on the date of installation of the machine. An IBM part or feature that replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. An IBM part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty effective on its date of installation. Unless specified otherwise, the warranty period, type of warranty service, and service level of a part or feature are the same as those for the machine in which it is installed.

Pricing

For all local charges, contact your IBM representative.

Announcement countries

All European, Middle Eastern, and African countries.

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