



IBM DB2 Analytics Accelerator for z/OS, V5.1 drives real-time business insight and action

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At a glance

IBM^(R) DB2^(R) Analytics Accelerator for z/OS^(R), V5.1 transforms your mainframe into a highly-efficient transactional and analytics processing environment. This enables you to exploit your z SystemsTM data at the right time to take advantage of new opportunities to improve efficiency and drive smarter outcomes. DB2 Analytics Accelerator offers the following benefits:

- Delivers dramatic improvement in response time on unpredictable, complex, and long-running query workloads.
- Eliminates movement of data off the z Systems platform, enabling the delivery of timely information from the most accurate and trusted data.
- Enables a secure analytics platform that takes advantage of the renowned built-in secure access of z Systems, adding advanced security for both data at rest and in motion.
- Delivers a real-time analytics solution on a single, integrated system for transactional data, historical data, and predictive analytics.

For ordering, contact your IBM representative or an IBM Business Partner. For more information, contact the Americas Call Centers at: 800-IBM-CALL (426-2255).

Reference: LE001

Overview

DB2 Analytics Accelerator for z/OS is a high-performance appliance that integrates the IBM z SystemsTM infrastructure with IBM PureDataTM System for Analytics, powered by IBM Netezza^(R) technology. It delivers a cost-effective, high-speed query engine to run business-critical reporting and complex business analytics workloads. These queries can now be executed orders of magnitude faster than was previously possible. The performance and cost of the Accelerator open up unprecedented opportunities for organizations to make use of their data on the z Systems platform.

DB2 Analytics Accelerator continues to evolve to support new and innovative use cases. Version 5.1 enables faster, more sophisticated reporting and deep analytics application integration, delivering sophisticated analytics on the z Systems platform. It supports the full lifecycle of a real-time analytics solution on a single, integrated system that combines transactional data, historical data, and predictive analytics. Ultimately, this drives insight based on real-time data.

Version 5.1 of DB2 Analytics Accelerator delivers a new dimension of analytical processing by introducing in-database analytics, in-database transformation, and accelerator-only tables.

In-database analytics capabilities enable acceleration of predictive analytics applications. This helps enable SPSS/Netezza Analytics data mining and in-database modeling to be processed within the Accelerator.

In-database transformation supports the consolidation of ETL/ELT processing in DB2 for z/OS to enable a more cost-effective, simplified architecture.

Accelerator-only tables can benefit statistics and analytics tools that use temporary data for reports. The high velocity of execution enables these tools to quickly gather all required data.

Accelerator-only tables can also be used to accelerate data transformations, which are implemented via SQL statements. To take full advantage of the product's high-speed capabilities, you can now store all interim results in accelerator-only tables. This enables subsequent queries or data transformations to process all relevant data on the accelerator, and to implement high-speed in-database transformations.

The introduction of accelerator-only tables extends the value of DB2 Analytics Accelerator to the following additional usage scenarios:

- Deeper insight into operational status through faster reporting: Support for multistep reporting applications, DB2 Query Management Facility™ (QMF™), and homegrown applications. Minimizes latency and reduces complexity while enabling better business agility.
- Accelerated campaign tuning for IBM Campaign (Unica[®]): Improved performance for iterative campaign tuning. Enables a significant reduction in campaign processing time frames and improves time to market.
- Simplified data-transformation processes: Delivering in-database transformation within DB2 Analytics Accelerator. Helps reduce complex layers of transformation technology to lower cost, minimizes latency, and delivers swift business insight.
- In-database analytics to accelerate predictive analytics: Improves the quality of models, speeds calculations, and delivers real-time, actionable business processes.
- Simpler data integration: DB2 Analytics Accelerator Loader for z/OS, loading non-DB2 for z/OS data. Assimilates more data sources for analytics to shorten development cycles and speeds integration efforts, providing information when it is needed.
- Deeper insight into customers and markets: Data scientist work area is an environment to efficiently, continuously test and improve analytics results to achieve better customer understanding.
- Data mart consolidation through flexible data infrastructure: Host data marts on z Systems, where the data originates. Decisions are made on trusted, accurate data for improved business performance.

In addition, DB2 Analytics Accelerator for z/OS, V5.1 offers the following new functions:

- Load and continuous operation improvements within the incremental update better support enterprise clients.
- Augmented security and improved performance with new PureData[®] technology extend advanced security with encryption of data at rest and of data in motion while taking advantage of the legendary built-in security of System z[®].
- Enhanced systems management capabilities enable faster data synchronization and data load (incremental update) as well as improved serviceability with automatic call home capability.

Key prerequisites

Refer to the [Hardware requirements](#) and [Software requirements](#) sections for details.

Planned availability date

November 27, 2015

Description

DB2 Analytics Accelerator complements DB2 for z/OS, which is built for transactional workloads. The Accelerator delivers a cost-effective, high-speed query engine to run business-critical reporting and complex business analytics workloads. As part of its unique design, the DB2 Analytics Accelerator includes breakthrough technologies to reroute complex, data-intensive queries to the integrated IBM PureData System for Analytics appliance. Thereby, DB2 Analytics Accelerator turns DB2 for z/OS into a universal database management system, capable of handling both transactional and analytical workloads. DB2 Analytics Accelerator, together with DB2 for z/OS, forms a new, self-managing, and hybrid workload-optimized database management system that runs each query workload in the most efficient way, so that each query is executed in the most optimal environment for maximum speed, execution, and cost efficiency.

DB2 Analytics Accelerator for z/OS delivers improved data insights to an organization, providing the following benefits:

Speed

- Dramatically improves query response (up to 2000 times faster) to support time-sensitive decisions.
- Eliminates movement of data off the z Systems platform to deliver timely information from fresh, trusted, and accurate data.

Savings

- Minimizes data proliferation, thus reducing storage, security, and systems management costs.
- Reduces z Systems resource usage, freeing computing capacity for additional processing.
- Improves access to and lowers the cost of storing, managing, and processing historical data.

Simplicity

- Exploits renowned mainframe capabilities for business analytics applications with a nondisruptive installation and an easy migration of days (not weeks or months).
- Simplifies infrastructure, eliminates data marts, and reduces ETL and data movement off the z Systems platform to accommodate all departmental requirements on a single, centralized infrastructure.

Security

- Extends DB2 for z/OS qualities of service and security to analytic workload.
- Keeps data on platform to ensure that your most critical asset (corporate data) is protected, secured, and governed.

DB2 Analytics Accelerator is a purpose-built, workload-optimized software appliance designed as an extension to the secure DB2 for z/OS environment. Acceleration

occurs transparently to applications that submit queries to DB2 for z/OS without incurring z Systems usage charges. The DB2 for z/OS optimizer determines whether a query will run more efficiently in native DB2 or within the Accelerator and will direct the query accordingly.

DB2 Analytics Accelerator exploits two of the major trends in data warehousing and business analytics technology: massively parallel processing and efficient data filtering by early SQL projections and restrictions through Field Programmable Gate Arrays.

DB2 Analytics Accelerator helps you support your ever-changing analytic requirements, giving you the insight you need to maximize business performance. Clients using DB2 Analytics Accelerator can realize significant value within the following use cases:

- Rapidly accelerating business-critical queries to deliver cost savings and improved performance.
- Simplifying complex infrastructures and minimizing ETL to deliver timely information based on trusted, accurate data while lowering overall TCO.
- Deriving insight from z/OS transaction systems within one integrated, hybrid environment that is optimized to run mixed-workload concurrently, efficiently, and cost-effectively.
- Improving access to historical data and lowering storage costs to enable high-speed analysis of online and historical data while driving cost reduction.

These use cases deliver real business value by better fraud detection and prevention, improved cross-sell and up-sell capabilities, increased customer acquisition, reduced customer churn, and more.

DB2 Analytics Accelerator continues to evolve to support new and innovative use cases such as in-database transformation and advanced predictive analytics. These enhancements enable faster and more sophisticated reporting and allow for deep analytics application integration.

This hybrid approach brings analytics closer to the transactional source data, providing the following advantages:

- Minimizing the need to move data across platforms
- Reducing data latency, cost, and complexity
- Improving data governance and reducing risk

Therefore, business users across the enterprise have access to more timely, accurate, and near real-time insight for improved decision making.

Product positioning

DB2 Analytics Accelerator is part of the end-to-end IBM z Systems analytic portfolio that offers data warehousing, data transformation and integration, business intelligence, and predictive analytics, including:

- DB2 for z/OS
- DB2 Analytics Accelerator Loader for z/OS
- InfoSphere^(R) Information Server
- InfoSphere Data Replication
- Cognos^(R) Business Intelligence
- DB2 Query Management Facility (QMF)
- Cognos TM1^(R)
- SPSS^(R) Predictive Analytics
- InfoSphere BigInsights^(R)

These solutions give organizations that have the majority of their data on z Systems the opportunity to further take advantage of the platform to support a complete and cost-effective analytics solution. They can apply the same qualities of service to their business-critical analytics as they do to their transactional systems.

Program number

Program number	VRM	Program name
5697-DA5	5.1.0	IBM DB2 Analytics Accelerator for z/OS

Product identification number

Program PID number	Subscription and Support PID number
5697-DA5	5697-SAA

Education support

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training website

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

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Offering Information

Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld ID and password are required (use IBM ID).

[BP Attachment for Announcement Letter 215-385](#)

Publications

No publications are shipped with this program.

The IBM Publications Center portal is located at

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

Services

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Technical information

Specified operating environment

Hardware requirements

DB2 Analytics Accelerator for z/OS requires an appropriately sized IBM PureData System for Analytics.

The size is determined by the required performance given the amount of data, number of users, the complexity of queries, and their arrival rate. This drives the configuration of the IBM PureData System for Analytics.

For the latest hardware requirements, refer to

<http://www-01.ibm.com/support/docview.wss?uid=swg27046305>

Software requirements

The DB2 Analytics Accelerator for z/OS software requires:

- z/OS V1.13, or later
- DB2 V10.1 for z/OS, or later
- DB2 Utilities Suite for z/OS, V10.1, or later
- XML Toolkit for z/OS, V1.10, or later
- IBM Ported Tools for z/OS, V1.2.0, or later

For details and for additional information regarding hardware and software requirements, refer to

<http://www-01.ibm.com/support/docview.wss?uid=swg27046305>

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Limitations

For additional information, refer to [Usage restriction](#) in the Terms and conditions section of this announcement, or to the license information document that is available on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

IBM Electronic Support

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement. Read about the Electronic Support portfolio of tools

<http://ibm.com/electronicssupport>

Access the IBM Support Portal

<http://ibm.com/support>

Access the online Service Request tool

<http://ibm.com/support/servicerequest>

Planning information

Packaging

DB2 Analytics Accelerator for z/OS, V5.1:

- DB2 Analytics Accelerator for z/OS, V5.1 (3590 Cartridge)
- IBM DB2 Analytics Accelerator for z/OS, V5.1.0 (License Information Agreement CD (LCD7-2644))

Direct customer support

Direct customer support is provided by IBM Operational Support Services - SoftwareXcel. This fee service enhances your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services - SoftwareXcel helps answer questions pertaining to usage and suspected software defects for eligible products. Installation and technical support is provided by Global Services. For more information call 800-IBM-4YOU (426-4968).

For technical support or assistance, contact your IBM representative or visit

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

Security, auditability, and control

IBM DB2 Analytics Accelerator for z/OS, V5.1 uses the security and auditability features of the host hardware or software.

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

Ordering information

Ordering z/OS through the Internet

Shopz provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). Shopz is available in the US and several countries in Europe. In countries where Shopz is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the Shopz website at

Charge metric

Program name	Part number or PID number	Charge metric
IBM DB2 Analytics Accelerator for z/OS, V5.1	5697-DA5	Per PVU
IBM DB2 Analytics Accelerator for z/OS, V1.1 S&S	5697-SAA	Per PVU

Processor Value Unit (PVU)

PVU is a unit of measure by which the program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU table by processor value, brand, type, and model number at the website below) and the number of processors made available to the program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip (socket). A dual-core processor chip, for example, has two processor cores. The PVU table can be found at

http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html

Licensee can deploy the program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage^(R) Sub-Capacity Licensing Terms (refer to the web page below). If using full capacity licensing, licensee must obtain PVU entitlements sufficient to cover all activated processor cores¹ in the physical hardware environment made available to or managed by the program, except for those servers from which the program has been permanently removed. If using virtualization capacity licensing, licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the program, as defined according to the Virtualization Capacity License Counting Rules at

http://www.ibm.com/software/lotus/passportadvantage/Counting_Software_licenses_using_sp_specific_virtualization_technologies.html

1 An activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Notes:

- Some programs may require licenses for the program and what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies. Rather than obtaining entitlements for the activated processor cores available to the program, licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the referenced program as if the program itself were executing everywhere the referenced program was executing, independent of the basis on which the referenced program is licensed.

Basic license

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program name: IBM DB2 Analytics Accelerator for z/OS, V5.1

Program PID: 5697-DA5

Entitlement identifier	Description	License option/Pricing metric
S017RZK	IBM DB2 Analytics Accelerator for z/OS, V5.1	Basic OTC, per PVU
Orderable supply ID	Language	Distribution medium
S017RZJ	English	3590 tape

Subscription and Support PID: 5697-SAA

Entitlement identifier	Description	License option/Pricing metric
S017323	IBM DB2 Analytics Accelerator for z/OS, V1.1 S&S	Basic ASC, per PVU
		No charge, decline SW S&S
Orderable supply ID	Language	Distribution medium
S017322	English	Paper media

Customized Offerings

Product deliverables are shipped only via CBPDO and ServerPac. These customized offerings are offered for Internet delivery in countries where Shopz product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the Shopz help information at

<http://www.software.ibm.com/ShopzSeries>

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options include:

- 3590
- 3592

Most products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered via CBPDO and ServerPac at general availability. Many products will also be orderable in a Product ServerPac without also having to order the z/OS operating system or subsystem.

Shopz and CFSW will determine the eligibility based on product requisite checking. For more details on the product ServerPac, visit the Help section on the Shopz website at

<http://www.software.ibm.com/ShopzSeries>

For additional information on the Product ServerPac option, refer to Software Announcement [212-272](#), dated July 7, 2012.

Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Agreement for Acquisition of Software Maintenance

The following agreement applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures: IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect. IBM z Systems Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information number

L-PGAA-9WXHVP

The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

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

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program support

Enhanced support, called Subscription and Support, includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Passport Advantage applies

No

Usage restriction

Yes

For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Software Subscription and Support applies

Yes. During the S&S period, for the unmodified portion of a Program, and to the extent problems can be recreated in the specified operating environment, IBM will provide the following:

- Defect correction information, a restriction, or a bypass.
- Program updates: Periodic releases of collections of code corrections, fixes, functional enhancements and new versions and releases to the Program and documentation.
- Technical assistance: A reasonable amount of remote assistance via telephone or electronically to address suspected Program defects. Technical assistance is available from the IBM support center in the Customer's geography.

Additional details regarding Technical Assistance, that includes IBM contact information, are provided in the *IBM Software Supportat*

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

S&S does not include assistance for:

- The design and development of applications
- Customer's use of programs in other than their specified operating environment, or
- Failures caused by products for which IBM is not responsible under the IBM Agreement for Acquisition of Software Maintenance.

S&S is provided only if the program is within its support timeframe as specified in the Software Support Lifecycle policy for the Program.

For operating system software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

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

IBM Operational Support Services - SoftwareXcel

Yes

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education institution customers.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

Information on charges is available at

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

Choose the option entitled Purchase/upgrade tools.

Program name: IBM DB2 Analytics Accelerator for z/OS, V5.1

Program PID: 5697-DA5

Entitlement identifier	Description	License option/Pricing metric
S017RZK	IBM DB2 Analytics Accelerator for z/OS, V5.1	Basic OTC, per PVU

Subscription and Support PID: 5697-SAA

Entitlement identifier	Description	License option/Pricing metric
S017323	IBM DB2 Analytics Accelerator for z/OS, V1.1 S&S	Basic ASC, per PVU
		No charge, decline SW S&S

IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

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

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Financing from IBM Global Financing helps you preserve cash and credit lines, enables more technology acquisition within current budget limits, permits accelerated implementation of economically attractive new technologies, offers payment and term flexibility, and can help match project costs to projected benefits. Financing is available worldwide for credit-qualified customers.

For more financing information, visit

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

Order now

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Phone: 800-IBM-CALL (426-2255)

Fax: 800-2IBM-FAX (242-6329)

For IBM representative: callserv@ca.ibm.com

For IBM Business Partner: pwcs@us.ibm.com

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Markham, Ontario
Canada L3R 2Z1

Reference:

LE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

Trademarks

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