IBM CICS Batch Application Control for z/OS V1.1 simplifies sharing resources among CICS and batch applications

Overview

CICS® Batch Application Control (CICS BAC) is the newest member of IBM’s growing CICS Tools portfolio. This new program makes it easier to manage batch processes that have to coexist and share resources with one or more CICS online transaction systems.

Many customers have to schedule batch processing around the online CICS Service. In this environment, the tasks that the CICS systems administrator has to handle have become increasingly complex, especially when dealing with many CICS systems running on many processors in a complex network. Often several terminals are needed to access all the information required to control the CICS systems, and these terminals can be remotely located.

CICS BAC can dynamically take related groups of files throughout the enterprise off-line for batch processing and bring them online again when the batch processing has completed. While doing this, CICS BAC disables associated transactions and writes audit records.

This automation frees operators and system programmers for more vital tasks. It may reduce the time required for the nightly batch window or remove the need to take down the CICS region, thereby moving CICS applications closer to 24 x 7 operation.

Key prerequisites

- OS/390® 2.10 or z/OS 1.2, or later
- CICS Transaction Server for OS/390, V1.3 (5655-147)
- CICS Transaction Server for z/OS®, V2 (5697-E93)
- Microsoft™ Windows™ 2000 or Windows XP (for the administration client)

Planned availability date

November 26, 2004

At a glance

CICS Batch Application Control (BAC) gives users dynamic control of CICS resources. Using CICS BAC with a running CICS system, you can create batch jobs that:

- Use control requests that release and later re-allocate resources associated with CICS applications
  - Issuing control requests that process either individual resources or groups of resources
  - Invoking processes that use the resources while they are released
  - Optionally invoking CICS programs and transaction, including CEMT

CICS BAC

- Can run within a CICSPlex®, managing resources for any CICS system within that CICSPlex
- Provides an easy-to-use Batch Request Utility and workstation client for administration
- Provides audit reporting capability

For ordering, contact:
Your IBM representative, an IBM Business Partner, or the Americas Call Centers at 800-IBM-CALL

Reference: LE001
CICS BAC makes it easier to manage batch processes that have to coexist and share resources with one or more CICS online transaction systems.

Much of the most valuable commercial data in the world is processed primarily through CICS transactions. The most critical data is also usually the most-used, and this means there is potential for contention over data access. From time to time, a CICS user will need to take resources offline from CICS to perform batch processes. IBM has received many requests from customers for a product, based on current technology, to help manage this process. CICS BAC is a product that meets the most commonly expressed needs.

CICS BAC does the following:

- Enables a batch job step to change the state of all relevant CICS resources in all CICS systems on the network
- Tracks state change requests regardless of the source of the request (that is, including CICS application programs, CICS SPI, CEMT commands, or batch job steps)
- At CICS region start-up, sets resources to their correct state

The core of CICS BAC is the batch request utility, which runs as part of a standard batch job and enables you to control the states of CICS resources within multiple CICS regions. By invoking CICS BAC in successive batch job steps, and by scheduling multiple batch jobs throughout the working day, you can optimize the way resources are managed in your particular environment.

You set up CICS BAC options, and specify resources to be managed, through an easy-to-use workstation administration client with a GUI.

CICS BAC allows you to control the following kinds of CICS resource:

- Files (VSAM data sets)
- Transient data queues
- Transactions
- Programs

CICS BAC allows you to set a variety of VSAM access options to enable and disable all of these resource types. In addition it allows you to open and close both VSAM data sets and transient data queues.

This first release of CICS BAC does not support VSAM record-level sharing (RLS) datasets. It provides no control over database manager (for example IMS™ or DB2®) resources.

In addition to allowing you to control individual CICS resources, CICS BAC also allows you to control groups of related resources. Using this capability you can process at one time all resources used by a particular application, so operations departments can more easily manage applications without having to worry about what resources are part of each application. The "application group" can be maintained by a single person knowledgeable of the application resources. Furthermore, you can process groups of groups collectively using an application list function.

CICS BAC provides audit reporting.

**Accessibility by people with disabilities**

CICS BAC for z/OS, V1.1 is operated via the keyboard using standard 3270 panels and the Workstation Administration Client GUI, which have been tested for use by people with visual impairment using the JAWS screen reader. The product documentation is provided in softcopy (PDF) format.

**Section 508 of the U.S. Rehabilitation Act**

CICS BAC is capable, as of November 26, 2004, when used in accordance with IBM’s associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

**Value Unit-based pricing**

Value Unit-based pricing will help align the prices of these products to the principle of the PSLC pricing curve, which provides for a lower price per MSU (millions of service units per hour) for larger capacities.

There is also a price benefit when customers grow their capacity. Additional capacity will be based on the number of Value Units (MSUs) the customer has already installed; for example, additional capacity will not be priced starting at the base with a higher price per unit but on the capacity that is already installed.

Note that Value Units of a given product cannot be exchanged, interchanged, or aggregated with Value Units of another product.

**IBM Program License Agreement (PLA) and subscription and support considerations**

PLA licenses can be transferred from one machine to another within, but not limited to an enterprise. The customer may aggregate the capacity for all the processors the product is operated on to achieve a more economic price. This will result in a single Proof of Entitlement. It is the customer’s responsibility to manage the distribution of Value Units within the limits of the entitlement of the product license.

Subscription and Support must cover the same capacity as the product license entitlement. Subscription and Support will be available in the country in which the agreement is made.

**Product positioning**

CICS BAC is a one-time charge (OTC) program which can help you reduce the cost of ownership of z/OS and OS/390 platforms.
In many CICS installations, systems programmers need to run batch programs while CICS Transaction Processing applications are also running. CICS BAC can automatically and dynamically deallocate CICS files, allowing batch programs to run without interruption or failure. Following batch execution, CICS files are automatically reallocated to the CICS applications.

Key customer benefits include:

- Reduced cost of maintaining complex CICS environments
- Automated and less error-prone capabilities to CICS Systems Programmers to release and re-allocate resources used by both batch and CICS programs.
- Increased overall availability of CICS applications
- Reduced demands on highly skilled CICS Systems Programmers during off-shift operations

CICS tools complement the extensive portfolio of IBM @server zSeries® tools. This portfolio includes Data Management tools (DB2 Performance Monitor for OS/390, DB2 SQL Performance Analyzer for OS/390), application development tools, (IBM Fault Analyzer for z/OS and OS/390, IBM File Manager for z/OS and OS/390, plus the Debug Tool for z/OS and OS/390), and system-management tools together with other IBM tools help customers reduce the total cost of ownership and improve efficiency of the z/OS and OS/390 platforms.

**Trademarks**

IMS and MVS are trademarks of International Business Machines Corporation in the United States or other countries or both.

CICS, OS/390, z/OS, CICSPlex, DB2, the e-business logo, and zSeries are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Microsoft and Windows are trademarks of Microsoft Corporation.

Other company, product, and service names may be trademarks or service marks of others.
Education support

No education course is available for this product. However, an online technical presentation is available from

http://www.ibm.com/CICS/tools

Offering Information

Product information is available via the Offering Information Web site

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

Publications

The hardcopy publication CICS® Batch Application Control for z/OS® — Program Directory (GI10-2574) is shipped with this product.

The following publications are available only in PDF format, softcopy:

<table>
<thead>
<tr>
<th>Title</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CICS Batch Application Control for z/OS — User’s Guide</td>
<td>SC34-6321</td>
</tr>
<tr>
<td>CICS Batch Application Control for z/OS — Workstation User’s Guide</td>
<td>SC34-6322</td>
</tr>
</tbody>
</table>

All publications are available in PDF format and provided by download from the IBM Publications Center Web site, at

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

If either of these publications are required in hardcopy, they can be printed from the PDF file.

They will also be available as part of the CICS Transaction Server Information Center. (SK3T-6965)

Technical information

Hardware requirements: CICS BAC for z/OS, V1.1 runs on any S/390® or IBM @server zSeries® machine on which the applicable CICS Transaction Server will run.

Software requirements: CICS BAC for z/OS, V1.1 requires:

- OS/390® 2.10 or z/OS 1.2, or later
- Microsoft® Windows® 2000 or Windows XP (for the administration client) plus either,
- CICS Transaction Server for OS/390, V1.3 (5655-147)
- CICS Transaction Server for z/OS, V2 (5697-E93)

Packaging

- IBM International Program License Agreement (IPLA) in multi-language booklet (Z125-3301)
- License Information for CICS Batch Application Control for z/OS, V1.1 (GC34-6323) in multiple languages
- Proof of Entitlement
- Program Directory for CICS Batch Application Control for z/OS, V1.1, GI10-2574
- 3480 1/2-inch tape cartridge, containing a Customized Offering (CBPDO or ServerPac) delivery of all components of the product.

Security, auditability, and control

CICS BAC for z/OS, V1.1 uses the security and auditability features of the base CICS Transaction Server for OS/390 or CICS Transaction Server for z/OS with which it is operating. 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

CICS BAC for z/OS, V1.1 is a mainframe product licensed by the IBM International Program License Agreement (IPLA). It has a single charge unit, based on Value Units.

New licensees: The CFSW configurator stand-alone path for 5697-I94 will be updated to support price proposals on November 2, 2004. For 5697-I94, media is only shipped via Customized Offerings (ServerPac, SystemPac®, and CBPDO). CFSW configuration and order entry capability will commence with CBPDO on November 23, 2004.

Value Unit exhibit VUE007

<table>
<thead>
<tr>
<th>MSUs minimum</th>
<th>MSUs maximum</th>
<th>Value Units/MSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Tier A</td>
<td>4</td>
<td>45</td>
</tr>
<tr>
<td>Tier B</td>
<td>46</td>
<td>175</td>
</tr>
<tr>
<td>Tier C</td>
<td>176</td>
<td>315</td>
</tr>
<tr>
<td>Tier D</td>
<td>316</td>
<td>+</td>
</tr>
</tbody>
</table>

Value Units for non MSU-based S/390 processors:

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Value Units/machine</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP3000 H30</td>
<td>6</td>
</tr>
<tr>
<td>MP3000 H50</td>
<td>8</td>
</tr>
<tr>
<td>MP3000 H70</td>
<td>12</td>
</tr>
<tr>
<td>ESL Models</td>
<td>2</td>
</tr>
</tbody>
</table>

Ordering example: The total number of Value Units is calculated according to the following example.

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.
If the customer has installed 1,500 MSUs, the applicable Value Units would be:

<table>
<thead>
<tr>
<th>Translation from MSUs to Value Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSUs * Value Units/MSU = Value Units</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Base 3 * 1.00 = 3.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier A 42 * .45 = 18.90</td>
</tr>
<tr>
<td>Tier B 130 * .36 = 46.80</td>
</tr>
<tr>
<td>Tier C 140 * .27 = 37.80</td>
</tr>
<tr>
<td>Tier D 1,185 * .20 = 237.00</td>
</tr>
<tr>
<td>Total 1,500 = 343.50</td>
</tr>
</tbody>
</table>

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

**Example:** In the above ordering example, for the product running on a machine with 1,500 MSUs requiring 344 Value Units, order feature number: Entitlement entity S01121N

**Ordering z/OS through the Internet**

ShopzSeries (formerly SHOPS390) 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 Requisite®s are satisfied). ShopzSeries is available in the U.S. and several countries in Europe. In countries where ShopzSeries is not available yet, please contact your IBM representative (or Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries Web site at


<table>
<thead>
<tr>
<th>Description</th>
<th>Program number</th>
<th>OTC feature number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CICS Batch Application Control for z/OS, V1 Entitlement Entity</td>
<td>5697-I94</td>
<td>S01121N</td>
</tr>
</tbody>
</table>

**Subscription and Support**

To receive voice technical support via telephone during normal business hours, and upgrades at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the support program number (in this case, 5697-I95), and feature number 9001 for asset registration. IBM is also providing subscription and support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Support (IAAS). This Offering:

- Includes and extends the support services provided in the base support to include technical support via telephone during normal business hours.
- Entitles customers to product upgrades at no additional charge. Note that the customer is not entitled for new products.

Once subscription and support is ordered, the charges will renew automatically annually unless cancelled by the customer.

**Value Units for IBM 9672 processors will be based upon the full capacity of these systems. This is applicable to all S/390-based systems that are measured on MSU capacity. Information on MSU capacities can be found in the IBM System/370®, System/390®, and zSeries Machine Exhibit, Z125-3901.**

Value Units for zSeries will be based upon full MSU capacity as defined in the Machine Exhibits.

A tool will be available that provides support for transforming the MSU-based capacities of S/390 systems to new Value Units by calculating the applicable number of Value Units for a given number of MSUs.

**Basic license:** To order, specify the program number, feature number 9001 for asset registration, and the one-time charge (OTC) feature number. Also specify the feature number of the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.
Sub-capacity charges for an eligible tool is based on the z/OS product defined capacity. To obtain charges at less than full machine capacity for eligible tools, the customer is required to:

- Determine the MSUs needed for each machine on which the tools will run. Only machines on which the customer has implemented sub-capacity Workload License Charges (WLC) according to the above terms and conditions, are eligible for charges at less than full machine capacity for the tools.
- Use the product defined capacity for z/OS (as specified on the Sub-Capacity Reports submitted to IBM for sub-capacity WLC) as the sub-capacity (MSUs) for each tool.
- Submit any additional MSUs or Value Units required for each product along with the current entitlement in Value Units for each product.

**Sub-capacity charges for tools**

To be eligible for sub-capacity charges for tools, the machine on which the tools are running must be eligible for WLC sub-capacity charges terms and conditions. The customer must have signed the Attachment for zSeries WLC-Pre-ILM, Z125-6516, and submitted at least one Sub-Capacity Report to IBM as defined in the attachment.

With sub-capacity charges, the charge for an eligible tool is based on the z/OS product defined capacity. To obtain charges at less than full machine capacity for each eligible tool for each machine, the customer should:

- Determine the MSUs needed for the machine on which the tools will run. In a data sharing environment, determine the aggregate MSUs needed on the machine where the tools run. Use the product defined capacity (MSUs) for z/OS (as specified on the Sub-Capacity Reports submitted to IBM for sub-capacity WLC) as the sub-capacity (MSUs) for each Tool.
- Submit any additional MSUs or Value Units required for each product along with the current entitlement in Value Units for each product.
- If the use of sub-capacity pricing terms for tools results in a reduced requirement for Value Units, thus freeing up entitlements, customers can reallocate the entitlement difference by distributing the Value Units across a larger or different set of systems, or reserve them for future growth. There will be no refunds for these freed up Value Units. Subscription and Support volumes and entitlements for existing contracts will continue to be at the same levels as the acquired licenses.

Management of the Value Unit entitlements continues to be a customer responsibility. If one of the following occur on a machine to which tools are licensed, the customer must determine if additional Value Units and Subscription and Support need to be ordered for those tools to cover the increase:

- The z/OS defined capacity is increased.
- The requirements for WLC sub-capacity charges are no longer met.

**Sub-capacity reference products:** CICS Transaction Server for z/OS V2.2 or later (5697-E93) or CICS Transaction Server for OS/390 V1.3 or later (5655-147)
**Sub-capacity pricing terms and conditions**

To be eligible for Sub-Capacity Pricing, the machine on which the eligible products are installed and running must be eligible for Sub-Capacity pricing terms and conditions. Software pricing at less than full machine capacity for eligible products apply when running

- AIX 5L V5.1, or later, on an IBM @server pSeries 690 or equivalent partition capable operating system and machine
- OS/400® V5.1, or later, running on an IBM @server iSeries Server
- Linux™ running in an LPAR under AIX 5L V5.1, OS/400 V5.1, or in a partition on an equivalent partition capable operating system and Server

Sub-Capacity Pricing for eligible products is based on the current Program pricing methodology but the number of processors will be determined based on the sum of processors for all partitions where the Program is defined (used). To obtain pricing at less than full machine capacity for eligible products, you are required to:

- Install and use, when available, IBM’s license use management program which installs with eligible IBM programs.
- Install available updates to the operating system and eligible products such that license use can be accurately managed.
- If the use of Sub-Capacity Pricing terms results in a reduced requirement for entitlements, you can reallocate the entitlement difference by distributing entitlements across a larger or different set of systems, or reserve them for future growth. There will be no refunds for these “freed up” entitlements. Subscription, Software Maintenance and Support volumes and entitlements for existing contracts will continue at the same levels as the acquired licenses.

**On/Off Capacity on Demand**

To be eligible for On/Off Capacity on Demand pricing, customers must be enabled for temporary capacity on the corresponding hardware, and the required contract — Z125-6611, Attachment for Customer Initiated Upgrade and IBM eServer® On/Off Capacity on Demand — Software — must be signed before use.

**Prices**

<table>
<thead>
<tr>
<th>Description</th>
<th>Program number</th>
<th>Entitlement entity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CICS Batch Application Control for z/OS, V1</td>
<td>5697-I94</td>
<td>S01121N</td>
</tr>
<tr>
<td>Subscription and Support</td>
<td>5697-I95</td>
<td>S01121S</td>
</tr>
</tbody>
</table>

**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, both from 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

IBM Global Financing offerings are provided through IBM Credit LLC in the United States and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer’s credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

**Financing offering/capabilities:** IBM Global Financing makes it easier for you to acquire the technology you need, faster.

As you implement complex business solutions such as e-business transformation, enterprise resource planning, supply chain management, business intelligence and customer relationship management, financing offerings from IBM Global Financing can help you control expenses, match cash flow to business benefits, and conserve cash for other strategic investments.

**Order now**

To order, contact the Americas Call Centers, your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

| Phone: | 800-IBM-CALL (426-2255) |
| Fax: | 800-IBM-FAX (242-6329) |
| Internet: | ibm_direct@vnet.ibm.com |
| Mail: | IBM Americas Call Centers |
| Dept: | IBM CALL, 11th Floor |
| 105 Moatfield Drive |
| North York, Ontario |
| Canada M3B 3R1 |

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**

System/370, iSeries, MVS, and z/Architecture are trademarks of International Business Machines Corporation in the United States or other countries or both. CICS, z/OS, S/390, the z-business logo, zSeries, OS/390, SystemPac, Requisite, System/390, Passport Advantage, AIX, pSeries, OS/400, and eServer are registered trademarks of International Business Machines Corporation in the United States or other countries or both. Microsoft and Windows are trademarks of Microsoft Corporation. UNIX is a registered trademark of the Open Company in the United States and other countries. Linux is a trademark of Linus Torvalds in the United States, other countries or both. Other company, product, and service names may be trademarks or service marks of others.