IBM ISPF Productivity Tool V6.1 helps improve the performance and productivity of ISPF users

At a glance

ISPF Productivity Tool for z/OS® V6.1 delivers the following benefits:

- Helps improve performance and productivity using ISPF tools by minimizing the keystrokes and panel navigation required to perform specific tasks
- Provides additional tools designed to help increase productivity
- Includes extensive search capabilities
- Provides automatic and integrated access to files and objects
- Delivers drill-down capabilities to navigate to and locate volumes and data sets, with extended functions at all levels

1 IBM® Interactive System Productivity Facility

Overview

IBM ISPF Productivity Tool for z/OS V6.1 turns IBM Interactive System Productivity Facility (ISPF) into a centralized, object-oriented control center by consolidating functions, providing new facilities, enhancing existing facilities, and dramatically improving the performance of all of your ISPF users.

ISPF Productivity Tool for z/OS is an add-on tool for developers, systems programmers, technical support, and operations and control personnel alike. It boosts productivity for users across the spectrum from those who have worked with ISPF for many years and know their way around the panels quickly, to those who are new to the IBM z/OS environment and were trained in workstation tools and interfaces. Both types of users need tools that offer time-saving advantages, and both will find them in ISPF Productivity Tool for z/OS.

What's new in V6.1

- Support for z/OS Extended Address Volumes (EAV)
- New partitioned data set (PDS) library deleted members map, browse, edit, and restore (undelete)
- Enhanced quick search string functions to support double byte character set (DBCS) characters, case-sensitivity, hexadecimal, and from-to column settings
- Support for extended-size member name patterns
- New command shortcuts
- Customization wizard improvements
Key prerequisites

- z/OS V1.7, or later
- ISPF V5.2, or later

Planned availability date

March 27, 2009

Description

New in V6.1

**Object List (OLIST) enhancements**

- New MAPPDS command displays a map of all existing and deleted members of a PDS library. Deleted members may be browsed, viewed, and restored into the directory.
- New COPYALL command expeditiously invokes the IEBCOPY command to copy all members of a partitioned library concatenation into another library.
- New MOVEALL command expeditiously invokes the IEBCOPY command to copy all members of a partitioned library concatenation into another library, and then deletes all successfully copied members from the original library.
- New command SHOWMIG may be used to automatically hide/reveal migrated datasets from any OLIST display of cataloged datasets.
- The user setting of SHOWMIG and SHOWCMD is now saved in the user's profile.
- MEMFIND command supports unrestricted member name patterns (not just by common prefix). FINDMEM and FM are valid aliases of MEMFIND.
- FINDTEXT command now supports hexadecimal and case-sensitive SBCS as well as DBCS search strings. It also supports a restricted width via a from-to column setting.
- FINDTEXT handling of ampersand (&) characters in search strings is streamlined to conform to ISPF EDIT conventions.
- OLIST titles and comment lines can include DBCS character strings.
- When @H is specified as target of Copy/Move command, the prompt panel (IQICOPY2 or IQICOP2S) supports FIND/RFIND command to locate target dataset.
- New CLIST IQIDEL allows for OLIST Group Delete command to be executed without a confirmation prompt for each dataset.
- OLIST RESET command now supports "Type" and "CLAss" argument.
- The reminder about the "A" (assist) appears only on first OLIST per session.

**Member Selection List (MSL) enhancements**

- New MAP command displays a map of all existing and deleted members of a PDS library. Deleted members may be browsed, viewed, and restored into the directory.
- New COPYALL command expeditiously invokes the IEBCOPY command to copy all members of a partitioned library concatenation into another library.
- New MOVEALL command expeditiously invokes IEBCOPY to copy all members of a partitioned library concatenation into another library, and then deletes all successfully copied members from the original library.
- New ALIAS command adds an alias name to an existing member.
- BROWSE/EDIT/VIEW entry panels now accept and support extended size (15 characters) member name patterns.
- BROWSE/EDIT/VIEW entry panels now accept and support a GDG format name, (Dsn) ((Gen#)), in the "Other data set" field.
- FINDTEXT and GLOBAL FIND commands now support hexadecimal and case-sensitive SBCS as well as DBCS search strings. Both support a restricted width via a from-to column setting.
• FINDTEXT and GLOBAL handling of ampersand (&) characters in search strings is streamlined to conform to ISPF EDIT conventions.
• FIND command also supports, in addition to member name, a search text string (quoted) parameter, like the FINDTEXT command.
• Any GLOBAL CHANGE and/or EDIT prompts for a confirmation before proceeding to process all members.
• MSL always invokes the IEBCOPY command for load-module members in order to provide complete Binder format integrity across different partitioned libraries. When copying a group of members from an unconcatenated library, MSL invokes the IEBCOPY command with COPYGRP control statement in order to copy all relevant aliases.
• MSL line commands can be stacked while scrolling through multiple pages of the member list. Multiple (scattered) line commands such as, Delete, Z (stats), Copy and/or Move are grouped together and executed as, "Group Delete", "Group Stats", "Group Copy", or "Group Move".
• ZUNIX file names that end with "+" make MSL display a prompt panel for entering a fully qualified ZUNIX file name (1023 characters).
• EDIT COMP no longer invokes COMPRESS.
• MSL display of load libraries properly shows Large-Program-Objects sizes.
• The reminder about the "A" (assist) appears only on first MSL per session.

Data set list (DSLIST) enhancements
• The XV display supports EAV architecture volumes. It also supports sorting by any column.
• The DSDLIST entry panel now accepts and supports a GDG format name, (Dsn)((Gen#)), in the "Dsname Level" field.

Command shortcuts
• New shortcut IPTNEW command displays the "What's New" information for all current ISPF Productivity Tool releases.
• New shortcut OLDA (or OLDASD) command displays a list of volumes by pattern, similar to the "XV" option of DSDLIST main menu.
• New shortcut PLIST command is an alias of OLIST command.

IPT SET updates
• Option to include member names in dataset history list
• Option to suppress "FIND string" prompt after FINDTEXT or GLOBAL FIND
• Option to disable/enable Double-Byte-Character-Set (DBCS) support
• Option to enable/disable DBCS case-sensitive search strings
• Specification of maximum capacity of TSO-Shell Permanent and History command lists
• Specification of threshold count for detailed VOLUME list display by new command shortcut OLDASD

IQIWIZRD updates
• Option to have IPT disabled by default at startup. Each user may dynamically override it with IPTON command shortcut to enable IPT.

Note: IPTON/IPTOFF saves the IPT enable/disable state in the user PROFILE.
• Specification of maximum size of permanent OLIST.
• Specification of maximum size of temporary OLIST.
• Specification of maximum size of Dataset-History list.
• Specification of temporary OLIST prompt threshold count.
• Option to suppress "FIND string" prompt after FINDTEXT or GLOBAL FIND.
• Specification of implicitly created OLIST library UNIT name.
• Specification of implicitly created utility work files UNIT name.
• Specification of a secondary archival volume name (for example, ARCIVE).
• Specification of maximum capacity of TSO-Shell Permanent and History command lists.
• Option to disallow accidental job submission via J-line command of MSL.
• Option to disallow modifying of a member’s ISPF statistics via STATS command.

Value Unit-based pricing

Value Unit pricing for eligible IBM System z® IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each System z IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three digit code and referred to using the nomenclature VUExxx, where xxx is the three digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each System z IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for a System z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each System z IPLA program with Value Unit pricing, you should:

• Determine the required license capacity, in MSUs
• Aggregate the MSUs across the enterprise
• Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
• Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool Web site

http://ibm.com/zseries/swprice/vuctool

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

To determine the required license capacity for the System z IPLA program you selected, refer to the section.
Product positioning

ISPF Productivity Tool for z/OS is an enhancement to the TSO-ISPF environment its productivity and performance. It integrates seamlessly into the most-frequently used ISPF functions, including BROWSE, EDIT, VIEW, and DLIST.

Object types

ISPF Productivity Tool for z/OS extends the functions provided by ISPF for standard data sets to other objects, including Virtual Storage Access Method (VSAM) files, IBM z/OS UNIX® System Services files, PC files, IBM DB2® tables, as well as other object classes. It supports files stored in source-code library systems, such as IBM Software Configuration and Library Manager (SCLM), CA-Librarian and CA-Panvalet, allowing the extended functions to be available while you manage your source code.

List options

ISPF Productivity Tool for z/OS provides expanded functions for the Member List option, the DLIST option and a new powerful object browser called OLIST. OLISTs look and function much like DLISTs. They can contain references to a wide variety of object classes in the same list, where they can be edited, viewed or browsed using a single command from a single screen. This allows the resulting member, data set and object lists to become powerful platforms, where you can perform many tasks without navigating to other utilities.

Command shortcuts

ISPF Productivity Tool for z/OS offers a set of command shortcuts that can be entered from a panel. The shortcut names are intentionally intuitive, providing a quick way to invoke most ISPF Productivity Tool for z/OS functions on the spot. However, to avoid conflicts, each of the verbs for the shortcuts can be either disabled or changed to a different name by the user.

TSO option

An expanded TSO option is available, which can store all TSO commands in one of two user-defined libraries:

- History command list area
- Persistent table library

The library can be dynamically allocated or disabled. The history command list area stores the last 999 commands issued, while up to 999 frequently used commands can be stored instead in the persistent table library. Both command lists can be edited, browsed, saved and restored. Selecting the TSO command option then presents users with a screen, where they can enter a new command or select a previously stored command from command lists.

Search capabilities

ISPF Productivity Tool for z/OS provides more-extensive search capabilities that are faster and more intuitive than ISPF by itself. You can easily search for volumes, data sets, members and text within members. ISPF Productivity Tool for z/OS also furnishes automatic drill-down system navigation to pinpoint volumes, data sets and members.

Action prompting

In addition to ISPF point-and-shoot capabilities, ISPF Productivity Tool for z/OS has facilities that prompt actions upon cursor selection:

- Hotbars (user-defined fields that run commands)
- Field-sensitive areas in MSLs and OLISTs

Additional enhancements
• Cut-and-paste allowing up to 200 separate clipboards, which can be saved permanently across ISPF sessions
• Print functions used to control the output destination, group different print requests together and so on
• ISPF dialog development

All this adds up to a significant improvement in your productivity when using ISPF Productivity Tool for z/OS.

Product identification number

<table>
<thead>
<tr>
<th>Program PID Number</th>
<th>Subscription and Support PID Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>5698-R21</td>
<td>5698-S89</td>
</tr>
</tbody>
</table>

Program number

<table>
<thead>
<tr>
<th>Program number</th>
<th>VRM</th>
<th>Program name</th>
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</thead>
<tbody>
<tr>
<td>5698-R21</td>
<td>V6.1</td>
<td>IBM ISPF Productivity Tool for z/OS</td>
</tr>
<tr>
<td>5698-S89</td>
<td>V1.1</td>
<td>IBM ISPF Productivity Tool for z/OS Subscription and Support</td>
</tr>
</tbody>
</table>

Education support

For information on educational resources available for ISPF Productivity Tool for z/OS, refer to the IBM Education Assistant Web site

http://publib.boulder.ibm.com/infocenter/ieduasst/stgv1r0/index.jsp

Offering Information

Product information is available via the Offering Information Web site

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

Publications

The Program Directory (GI11-9127) and License Information (GI11-9126) are shipped automatically with the basic machine-readable material. No other hardcopy publications are shipped with the product.

The following optional publications will be available after product availability:

• User's Guide (SC14-7221)
• Installation and Configuration Guide (SC14-7222)

The product publications are also available at the product Web site

http://www.ibm.com/software/awdtools/ispfproductivitytool/
Technical information

Specified operating environment

**Hardware requirements**

ISPF Productivity Tool for z/OS runs on any hardware configuration supported by the specified required licensed programs listed in the **Software requirements** section.

**Software requirements**

**Required licensed programs**

- z/OS V1.7, or later (5694-A01)
- ISPF V5.2, or later (5694-A01)

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**

IBM ISPF Productivity Tool for z/OS is available only in U.S. English.

Planning information

**Packaging**

The ISPF Productivity Tool for z/OS V6.1 package includes:

- Basic machine-readable material on the customer-selected distribution medium
- Program Directory (GI11-9127)
- License Information (GI11-9126)

**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, or integration of this product.

Ordering information

Consult your IBM representative.

**Charge metric**

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Program Number</th>
<th>Charge Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISPF Productivity Tool for z/OS V6.1</td>
<td>5698-R21</td>
<td>Value Units</td>
</tr>
<tr>
<td>ISPF Productivity Tool for z/OS</td>
<td>5698-S89</td>
<td>Value Units</td>
</tr>
</tbody>
</table>

**Value Unit**

Value Unit (VU) is the unit of measure by which this program is licensed. VU entitlements are based on the quantity of a specific designated measurement, either users or resources, for the given program. A Proof of Entitlement (PoE) must be obtained for the appropriate number of VU required for your environment as defined by the specific program terms. The VU entitlements
are specific to the program and may not be exchanged, interchanged, or aggregated with VU entitlements of another program. To understand these benefits of VU licensing, and to determine how many VUs to obtain for the program, contact your IBM representative.

The programs in this announcement all have Value Unit-based pricing.

Program Number    Program Name             Value Unit Exhibit
5698-R21          ISPF Productivity Tool for z/OS V6.1 VUE007
5698-S89          ISPF Productivity Tool for z/OS Subscription & Support VUE007

For each System z IPLA program with VU pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the 'required license capacity'. Your required license capacity is based upon the following factors:

- The System z IPLA program you select.
- The applicable Value Unit Exhibit.
- The applicable terms.
- Whether your current mainframes are full capacity or sub-capacity.

Value Unit exhibit VUE007

<table>
<thead>
<tr>
<th>MSUs minimum</th>
<th>MSUs maximum</th>
<th>VUs/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>
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</table>

VUs for mainframes without MSU ratings:

<table>
<thead>
<tr>
<th>Hardware</th>
<th>VUs/Machine</th>
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<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>
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</tbody>
</table>

Ordering example

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

If your required license capacity is 1,500 MSUs for your selected System z IPLA product, the applicable Value Units would be:

Translation from MSUs to Value Units

<table>
<thead>
<tr>
<th>MSUs</th>
<th>Value Units/MSU</th>
<th>Value Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>3</td>
<td>3.00</td>
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<tr>
<td>Tier A</td>
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<td>18.90</td>
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<tr>
<td>Tier B</td>
<td>130</td>
<td>46.80</td>
</tr>
<tr>
<td>Tier C</td>
<td>140</td>
<td>37.80</td>
</tr>
<tr>
<td>Tier D</td>
<td>1,185</td>
<td>237.00</td>
</tr>
</tbody>
</table>

Total 1,500 343.50

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.
Ordering z/OS through the Internet

ShopzSeries 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). ShopzSeries is available in the U.S. and several countries in Europe. In countries where ShopzSeries 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 ShopzSeries Web site at http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp

Basic license

On/Off Capacity on Demand

ISPF Productivity Tool for z/OS V6.1 is eligible for On/Off Capacity on Demand (On/Off CoD) with a Temporary Use Charge calculated based on MSUs-per day usage.

<table>
<thead>
<tr>
<th>Program Name</th>
<th>ISPF Productivity Tool for z/OS V6.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program PID</td>
<td>5698-R21</td>
</tr>
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</table>

Entitlement

<table>
<thead>
<tr>
<th>Entitlement Identifier</th>
<th>Description</th>
<th>License Option/Pricing Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>S015H33</td>
<td>ISPF Productivity Tool V6.1</td>
<td>Basic OTC, Per MSU-day TUC</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Program Name</th>
<th>ISPF Productivity Tool for z/OS V6.1</th>
</tr>
</thead>
<tbody>
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<tbody>
<tr>
<td>S015H33</td>
<td>ISPF Productivity Tool V6.1</td>
<td>Basic OTC, Per Value Unit</td>
</tr>
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</table>

Orderable Supply ID: Language Distribution Medium

S015H32                English 3480 Tape

Subscription and Support PID 5698-S89

Entitlement

<table>
<thead>
<tr>
<th>Entitlement Identifier</th>
<th>Description</th>
<th>License Option/Pricing Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>S01212X</td>
<td>ISPF Productivity Tool S&amp;S</td>
<td>Basic MSC, per Value Unit SW S&amp;S</td>
</tr>
<tr>
<td></td>
<td>No Charge, decline SW S&amp;S Per MSU SW S&amp;S Registration</td>
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</tbody>
</table>

Orderable Supply ID: Language Distribution Medium

S01216K                English Hardcopy publication

Single version charging

To elect single version charging, you must notify and identify to IBM the prior program and replacement program, and the machine the programs are operating on.
Customized Offerings

Product deliverables are shipped only via Customized Offerings (for example, CBPDO, ServerPac, SystemPac®).

CBPDO and ServerPac are offered for Internet delivery, where ShopzSeries product ordering is available. Internet delivery of ServerPac may help improve automation and software delivery time. For more details on Internet delivery, refer to the ShopzSeries help information at http://www.software.ibm.com/ShopzSeries

Media type for this software product is chosen during the Customized Offerings ordering process. Based on your customer environment, it is recommended that the highest possible density tape media is selected. Currently offered media types are:

- CBPDOs - 3480, 3480 Compressed, 3490E, 3590, and 3592*
- ServerPacs - 3480, 3480 Compressed, 3490E, 3590, and 3592*
- SystemPacs - 3480, 3480 Compressed, 3490E, 3590, and 3592*

*3592 is highest density media. Selecting 3592 will ship the fewest number of media.

Once a product becomes generally available, it will be included in the next ServerPac and SystemPac monthly update.

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 inclusion in ServerPac.
- SystemPac shipments will begin four weeks after inclusion in SystemPac due to additional customization, and data input verification.

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

This program is 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. This program has 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 System z Operational Support Services - SoftwareXcel is an option if you desire added services.
License information form number
GI11-9126. The program's license information will be available for review on the IBM Software License Agreement Web site


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.

Authorization for use on home/portable computer
You may not copy and use this program on another computer without paying additional license fees.

Volume orders (IVO)
No

Passport Advantage applies
No

Software Subscription and Support (Software Maintenance) applies
No. 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/sl/products

**System i Software Maintenance applies**

No

**Variable charges apply**

No

**Educational allowance available**

Yes. When ordering through the program number process, a 15% education allowance applies to qualified education institution customers.

Education Software Allowance Program applies when ordering through the program number process.

**ESAP available**

Yes, to qualified customers.

**Sub-capacity terms and conditions**

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

For more information on the Value Unit Exhibit for the System z IPLA program you selected, refer to the Ordering information section.

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program name</th>
<th>Terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>5698-R21</td>
<td>ISPF Productivity Tool</td>
<td>z/OS-based</td>
</tr>
<tr>
<td></td>
<td></td>
<td>for z/OS v6.1</td>
</tr>
</tbody>
</table>

**Full-capacity mainframes**

In cases where full capacity is applicable, the following terms apply.

Execution-based, z/OS-based, and full-machine-based: The required capacity of a System z IPLA program with these terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, visit


**Reference-based**: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.
Sub-capacity mainframes

In cases where sub-capacity is applicable, the following terms apply.

**Execution-based:** The required capacity of a System z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the System z IPLA program executes.

**z/OS-based:** The required license capacity of a System z IPLA program with these terms equals the license capacity of z/OS on the machines where the System z IPLA program executes.

**Reference-based:** The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

**Full-machine-based:** The required license capacity of a System z IPLA program with full-machine-based terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to the IBM System z Machines Exhibit (Z125-3901), or visit the Mainframes section of the System z Exhibits Web site http://ibm.com/zseries/library/swpriceinfo/

For more information on sub-capacity System z IPLA terms and conditions, refer to Software Announcement ZA04-0227, dated August 10, 2004.

For additional information for products with reference-based terms, System z IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the System z IPLA program executes.

An environment is defined as either a single or stand-alone machine or a qualified Parallel Sysplex®. You may have one or more different environments across the enterprise. To determine the required license capacity for each System z IPLA program with referenced-based terms, each environment should be assessed separately.

When a System z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the System z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one:

- That meets the criteria defined in Hardware Announcement ZA98-0120, dated January 13, 1998
- Where MLC pricing is aggregated across the sysplex

**Sub-capacity eligibility**

To be eligible for sub-capacity charging on select System z IPLA programs, you must first implement and comply with all terms of either sub-capacity Workload License Charges (WLC) or sub-capacity Entry Workload License Charges (EWLC). To implement sub-capacity WLC or EWLC, a machine must be System z (or equivalent). On that machine:

- All instances of the OS/390® operating system must be migrated to the z/OS operating systems
- Any licenses for the OS/390 operating system must be discontinued
- All instances of the z/OS operating systems must be running in z/Architecture® (64-bit) mode

For that machine, you must create and submit a sub-capacity report to IBM each month. sub-capacity reports must be generated using the sub-capacity reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, visit the System z Software Pricing Web site http://ibm.com/zseries/swprice

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the IBM Customer Agreement - Attachment for System z Workload License Charges (Z125-6516).
• The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for IBM System z 890 and 800 License Charges (Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract - Amendment for IBM System z9® and System z Programs Sub-Capacity Pricing (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous System z IPLA sub-capacity terms and conditions.

Sub-capacity utilization determination

Sub-capacity utilization is determined based on the utilization of an eligible operating system and machine (for example, z/OS running in z/Architecture (64 bit) mode on a System z (or equivalent) server).

On/Off CoD

To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for Customer Initiated Upgrade and IBM eServer™ On/Off Capacity on Demand - Software (Z125-6611) must be signed prior to use.

Announcement countries

All European, Middle Eastern and African countries.

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