



IBM AIX 5.2 Workload Partitions for AIX 7, V1.1 enables you to run legacy applications in PowerVM workload partition

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At a glance

Using AIX® 5.2 Workload Partitions for AIX 7, you can now run legacy applications on IBM® AIX 5.2 in a PowerVM™ workload partition.

AIX 5.2 Workload Partitions adds a kernel compatibility layer that allows 5.2 commands and libraries running in the workload partition to function correctly (5.2 behavior) when run on AIX 7.1.

Now you will be able to take advantage of the latest IBM Power Systems™ hardware enhancements sooner by running your legacy applications in a virtualized workload partition environment.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Overview

AIX 5.2 Workload Partitions for AIX 7 is supported on AIX 7.1 for POWER7™.

This program provides the capability to create a workload partition (WPAR) that provides an AIX 5.2 TL10 SP8 runtime environment for the workload running in the WPAR. This allows a simple migration path for an AIX 5.2 workload running on older hardware to move to POWER7 systems. All that is required is to create a mksysb image of the AIX 5.2 system and then provide this image when creating the WPAR on AIX 7.1 running on POWER7 hardware.

This offering also supports Live Application Mobility of the AIX 5.2 WPAR between POWER7 systems running AIX 7.1.

The Software Maintenance Agreement for the AIX 5.2 Workload Partitions for AIX 7 product includes:

- Support for the AIX 5.2 Workload Partitions for AIX 7 product. This includes subscription for future releases of the product.
- Limited support for the AIX 5.2 operating system running in this environment, which may include:
 - Phone support. Clients can call IBM Support for questions about how to use AIX 5.2 in this environment.

- Fixes for critical security and data integrity problems discovered in AIX 5.2 when running in this environment.

Restrictions on the limited support for AIX 5.2:

- Customers must be utilizing AIX 5.2 at Technology Level 10 Service Pack 8.
- Support is available only for AIX 5.2 running in this WPAR environment. Support for AIX 5.2 running in legacy environments is available through a separate purchase from IBM through support extensions to the standard AIX 5.2 Software Maintenance Agreement.

Key prerequisites

- AIX 7 running on IBM POWER7 processor-based systems.
- AIX V5.2 TL10 SP8.
- Live Application Mobility requires IBM PowerVM Workload Partitions Manager™ for AIX V2.2.

Planned availability date

September 10, 2010

Description

Accessibility by people with disabilities

A U.S. 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

Section 508 of the U.S. Rehabilitation Act

AIX 5.2 Workload Partitions for AIX 7, when used in accordance with IBM's associated documentation, satisfies the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) can be requested at

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

Program number

Program number	VRM	Program name
5765-H38	1.1.0	AIX 5.2 workload Partitions for AIX 7

Product identification number

Program PID number	Maintenance 1-year PID number	Maintenance 3-year PID number
5765-H38	5771-H38 5771-H39 (ALC)	5773-H38

Offering Information

Product information is available via the Offering Information Web site

<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).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=210-197>

Publications

The IBM Publications Center

<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. Payment options for orders are via credit card (in the U.S.) or customer number for 50 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

Hardware requirements

IBM systems that run the IBM POWER7 processors.

Software requirements

- AIX V7.1, or later.
- For use with AIX V5.2 with the 5200-10 Technology Level Service Pack 8.
- For additional information about the Programs Specified Operating Environment, including restrictions when running the AIX operating system in a Workload Partitions environment, refer to the program documentation.

Limitations

For additional information, refer to usage restrictions in the [Terms and conditions](#) section of this announcement, or to the License Information document that is available on the IBM Software License Agreement Web site

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

The operating environment for an AIX 5.2 Workload Partition for AIX 7 is a WPAR on an AIX 7 system. Some AIX functionality is limited within a WPAR; therefore, that same functionality is limited from within an AIX 5.2 WPAR on AIX 7.1. These restrictions include but are not necessarily limited to the following:

- PowerHA™ is not supported within a WPAR.
- RSCT is not supported within a WPAR.
- NFS Server is not supported within a WPAR.
- WLM controls are not supported within a WPAR.

- WPARs cannot be created within a WPAR.
- Only a subset of symbols referenced through /dev/kmem are accessible from processes within a WPAR.
- Kernel performance tunables are not modifiable from within a WPAR.
- Kernel extensions can only be loaded and unloaded if the global system administrator enables the loading.
- If local storage devices are used for the WPAR, JFS file systems are not supported. JFS file systems from the AIX 5.2 environment will be converted to JFS2 file systems when local storage devices are used for the AIX 5.2 WPAR.

If the licensed program product (WPAR Manager) is also installed, AIX 5.2 Workload Partitions for AIX 7 have additional restrictions if the WPAR is enabled for live mobility. These restrictions include but are not necessarily limited to the following:

Mobility restrictions

- WPAR manager's list of restrictions
http://publib.boulder.ibm.com/infocenter/director/v6r1x/index.jsp?topic=/wparlpp_210/compatibility-testing.html
- Must either be a rootvg WPAR or completely NFS-based WPAR.
- Cannot have Kerberos-protected NFS mounts.
- DMAPI use is not supported with mobility.
- Applications using raw logical volume or disks are not mobile.
- WPARs that have kernel extensions exported to them are not mobile.
- Mobility is not allowed if an mmaped file is unlinked at the time of mobility.
- Mobility is not allowed if there are any STOPPED threads (for example, process being debugged).
- Mobility is not supported if processes were started using the clogin command.
- Mobility is supported for an AIX 5.2 WPAR only if APAR IZ72315 is applied to the AIX 5.2 WPAR.

AIX 5.2 Workload Partition-specific restrictions

- Adapters may not be exported to AIX 5.2 Workload Partitions.
- Some commands from the AIX 7.1 environment that need to be WPAR-aware replace commands from the AIX 5.2 environment, including, but not limited to these types of commands:
 - Performance commands
 - Logical volume commands
 - File system commands

Planning information

Packaging

Your Proof of Entitlement (PoE) for this program is a copy of a paid sales receipt, purchase order, invoice, or other sales record from IBM or its authorized reseller from whom you acquired the program, provided that it states the license charge unit (the characteristics of intended use of the program, number of processors, number of users) and quantity acquired.

Information about how you may obtain program services will be provided by the party (either IBM or its authorized reseller) from whom you acquired the program.

Security, auditability, and control

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

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/>

Ordering information

Charge metric

Program name	Part number or PID number	Charge metric
IBM AIX 5.2 Workload Partitions for AIX 7	5765-H38	Per Processor Core on Small, Medium, or Large Server

Processor

A processor (commonly called a *CPU* or *core*) is the unit of measure by which this program is licensed. It is a functional unit within a computing device that interprets and executes instructions. A processor consists of at least an instruction control unit and one or more arithmetic or logic unit. With multicore technology, each core is considered a processor. A Proof of Entitlement (PoE) must be obtained for the appropriate number of processors based on the level of all processor cores activated and available for use by the program on the server.

As of this announcement, the server products in the table below are associated with the small, medium, or large licenses as indicated.

Orders may be placed beginning with configurator availability.

For new orders, select from the following table:

AIX 5.2 Workload Partitions for AIX 7, V1.1 (5765-H38): SWMA PIDs and features support this new offering.

AIX 5.2 workload Partitions for AIX 7 (5765-H38)

Description	OTC feature number
Per Processor Core - Small	0001
Per Processor Core - Medium	0002
Upgrade small to medium	0003
Per Processor Core - Large	0004
Upgrade small to large	0005
Upgrade medium to large	0006

Software Maintenance

This software license offers Software Maintenance, previously referred to as Software Subscription and Technical Support.

Extending coverage for a total of three years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after license feature number.

Note: Software Maintenance renewals and out-year contracts for AIX 5.2 Workload Partitions for AIX 7, V1.1 via IBM Global Services contracts will be available for ordering on September 10, 2010.

Feature description	Program number	OTC feature number
SW Maintenance Regist/7x24 Support 1 Year	5771-H38	
Per Processor Core - Small Registration		1594
Per Processor Core - Small 7x24		1595
Per Processor Core - Medium Registration		1596
Per Processor Core - Medium 7x24		1597
Per Processor Core - Large Registration		1598
Per Processor Core - Large 7x24		1599
SW Maintenance After License Charge	5771-H39	
Per Processor Core - Small ALC		1588
Per Processor Core - Medium ALC		1590
Per Processor Core - Large ALC		1592
SW Maintenance Regist/7x24 Support 3 Year	5773-H38	
Per Processor Core - Small Registration		1311
Per Processor Core - Small 7x24		1312
Per Processor Core - Medium Registration		1314
Per Processor Core - Medium 7x24		1315
Per Processor Core - Large Registration		1316
Per Processor Core - Large 7x24		1317

Orders may be placed beginning with configurator availability.

This software license includes Software Maintenance, previously referred to as Software Subscription and Technical Support.

Extending coverage for a total of three years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after license feature number.

Expedite feature for licensed programs and SWMA programs:

Program number	Description	Feature number
5765-H38	AIX 5.2 workload Partitions for AIX 7 V1.1	3445
5771-H38	AIX 5.2 workload Partitions for AIX 7 V1 for AIX 5.2 SWMA 1 yr	3445
5773-H38	AIX 5.2 workload Partitions for AIX 7 V1 for AIX 5.2 SWMA 3 yr	3445
5771-H39	AIX 5.2 workload Partitions for AIX 7 V1 for AIX 5.2 ALC	3445

System Program Order (SPO): An order for SPO 5692-A6P is mandatory for shipments of program distribution. The individual licensed program orders are for registration and billing purposes only. No shipment occurs under these orders.

Specify feature number 3435

Machine-readable materials are only available on CD-ROM. To receive shipment of machine-readable materials, the order needs to include SPO 5692-6P. The individual

licensed program order (for example, 5765-H38) must still be ordered but will be for registration and billing purposes only and will not result in shipment of materials.

Program number	Program/Function name	Feature number
5692-A6P	AIX 5.2 workload Partitions for AIX 7, v1.1	2269

Terms and conditions

Use of AIX 5.2 with this program (AIX 5.2 Workload Partitions for AIX 7): If you have a license to AIX Version 5.2, this program enables you to use AIX Version 5.2 with the 5200-10 Technology Level Service Pack 8 running in an AIX 7 Workload Partition on POWER7 systems. Your use of AIX 5.2 operating system with this program is subject to the following.

Use of Application Mobility

To use Live Application Mobility with the program, you must have a license to IBM PowerVM Workload Partitions Manager for AIX Version 2.2.1, or later, and this program must be installed on the source and target AIX systems that the WPAR running AIX 5.2 will be relocated between. There are PTFs that will be provided with the LPP (updates to AIX 5.2) that must be installed before Mobility is supported. The APAR number associated with those PTFs is IZ72315.

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.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) agreement applies for subscription and support (also referred to as Software Maintenance) and does not require customer signatures.

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. IBM includes one year of Software Subscription and Support with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available. 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.

License Information form number

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

<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).

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)

Yes. Contact your IBM representative.

Passport Advantage applies

No

Software Subscription and Support applies

Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult your IBM Software Support Handbook at

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

Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

For more information about the Passport Advantage Agreement, visit the Passport Advantage Web site at

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

IBM Operational Support Services -- SoftwareXcel

No

System i Software Maintenance applies

No

Variable charges apply

Yes

Educational allowance available

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

IBM Electronic Services

Electronic Service Agent™ and the IBM Electronic Support Web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support all at no additional cost to you.

Now integrated into the base operating system of AIX 5.3, AIX 6.1, and AIX 7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support Web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type "smitty esa_main", and select "Configure Electronic Service Agent." In addition, ESA now includes a powerful Web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

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

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

Increased uptime: The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting

and uploading system information to IBM Support. This can translate to less wasted time monitoring the "symptoms," diagnosing the error, and manually calling IBM Support to open a problem record. Its 24 x 7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

Security: The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool securely transmits either via the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by the customer and IBM. The customer's business applications or business data is never transmitted to IBM.

More accurate reporting: Since system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, customers are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

Customized support: Using the IBM ID entered during activation, customers can view system and support information in the "My Systems" and "Premium Search" sections of the Electronic Support Web site at

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

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with the customer's IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been collected from your system, customers are able to see search results that apply specifically to their systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

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

Prices

For additional information and current prices, contact your local IBM representative.

AIX 5.2 Workload Partitions for AIX 7, V1.1 (5765-H38): SWMA PIDs and features support this new offering.

AIX 5.2 workload Partitions for AIX 7 (5765-H38) (5765-H38)

Description	OTC feature number
Per Processor Core - Small	0001
Per Processor Core - Medium	0002
Upgrade small to medium	0003
Per Processor Core - Large	0004
Upgrade small to large	0005
Upgrade medium to large	0006

Software Maintenance

This software license offers Software Maintenance, previously referred to as Software Subscription and Technical Support.

Extending coverage for a total of three years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after license feature number.

Note: Software Maintenance renewals and out-year contracts for AIX 5.2 Workload Partitions for AIX 7, V1.1 via IBM Global Services contracts will be available for ordering on September 10, 2010.

Feature description	Program number	OTC feature number
SW Maintenance Regist/7x24 Support 1 Year	5771-H38	
Per Processor Core - Small Registration		1594
Per Processor Core - Small 7x24		1595
Per Processor Core - Medium Registration		1596
Per Processor Core - Medium 7x24		1597
Per Processor Core - Large Registration		1598
Per Processor Core - Large 7x24		1599
SW Maintenance After License Charge	5771-H39	
Per Processor Core - Small ALC		1588
Per Processor Core - Medium ALC		1590
Per Processor Core - Large ALC		1592
SW Maintenance Regist/7x24 Support 3 Year	5773-H38	
Per Processor Core - Small Registration		1311
Per Processor Core - Small 7x24		1312
Per Processor Core - Medium Registration		1314
Per Processor Core - Medium 7x24		1315
Per Processor Core - Large Registration		1316
Per Processor Core - Large 7x24		1317

Expedite feature for licensed programs and SWMA programs:

Program number	Description	Feature number
5765-H38	AIX 5.2 workload Partitions for AIX 7 V1.1	3445
5771-H38	AIX 5.2 workload Partitions for AIX 7 V1 for AIX V5.2 SWMA 1 yr	3445
5773-H38	AIX 5.2 workload Partitions for AIX 7 V1 for AIX V5.2 SWMA 3 yr	3445
5771-H39	AIX 5.2 workload Partitions for AIX 7 V1 for AIX V5.2 ALC	3445

The individual licensed program order (for example, 5765-H38) must still be ordered but will be for registration and billing purposes only and will not result in shipment of materials.

Program number	Program/Function name	Feature number	
5692-A6P	AIX 5.2 workload Partitions for AIX 7, V1.1	2269	
Program number	Feature number	Description	List price
5765H38	0001	Per Proc Core - Small	\$ 60
5765H38	0002	Per Proc Core - Medium	170
5765H38	0003		110

		Upgrade small to medium	
5765H38	0004	Per Proc Core - Large	310
5765H38	0005	Upgrade small to large	250
5765H38	0006	Upgrade medium to large	140
5771H38	1594	Per Proc Core - Small Reg	115
5771H38	1595	Per Proc Core - Small 7x24	8
5771H38	1596	Per Proc Core - Medium Reg	320
5771H38	1597	Per Proc Core - Medium 7x24	22
5771H38	1598	Per Proc Core - Large Reg	600
5771H38	1599	Per Proc Core - Large 7x24	42
5773H38	1311	Per Proc Core - Small Reg	311
5773H38	1312	Per Proc Core - Small 7x24	22
5773H38	1314	Per Proc Core - Medium Reg	864
5773H38	1315	Per Proc Core - Medium 7x24	60
5773H38	1316	Per Proc Core - Large Reg	1,620
5773H38	1317	Per Proc Core - Large 7x24	113
5771H39	1588	Per Proc Core - Small ALC	230
5771H39	1590	Per Proc Core - Medium ALC	640
5771H39	1592	Per Proc Core - Large ALC	1,200

Order now

To order, contact the Americas Call Centers or 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: 800-2IBM-FAX (242-6329)

For IBM representative: callserv@ca.ibm.com

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

Mail: IBM Teleweb Customer Support
ibm.com® Sales Execution Center, Americas North
3500 Steeles Ave. East, Tower 3/4
Markham, Ontario
Canada
L3R 2Z1

Reference: YE001

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.

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For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

<http://www.ibm.com/planetwide/us/>