



Firmware & HMC Version Updates

V1.3

Reporting & Inventory

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Agenda

- System p Support Website
- Subscription Services
- IBM Prerequisite
- POWER Code Matrix
- Additional Resources



System p Support Website

www.ibm.com/systems/support/p

The screenshot shows the IBM System p Support Website interface. At the top, there is a navigation bar with the IBM logo, a country/region selector, and a search bar containing the text "AIX 5L and Linux servers support". Below the navigation bar is a breadcrumb trail: "IBM Systems > Support > Support for IBM System p AIX 5L and Linux servers".

On the left side, there is a vertical menu with categories: System p servers, Hardware, Operating system, Software, Solutions, Success stories, Storage, Services, Support, Developers, Education, Library, Literature, and Press. The "Support" category is expanded, showing sub-links like "Support search", "Submit & Track problems", and "Feedback".

The main content area features a "Select your product" section with dropdown menus for "Hardware" (System p) and "Software" (AIX), and a "Go" button. Below this is a "Support news" section with links to "New e-Learning courses", "New Systems Information Center", "AIX O/S updated to support 2007 DST change", "Latest AIX 5.3 installation tips", and "[archive]". To the right of the news is a "Popular links" section with a list of links including "AIX updates", "Best practices", "Cluster updates", "Fix Level Recommendation Tool", "Help database for AIX", "Help database for Cluster", "HMC updates", "Microcode updates", "Product documentation libraries", "Product e-learning", "Subscription Services", and "Virtualization updates".

On the right side, there are several promotional boxes: "Personalized support" with "Sign in" and "Register" links; "Tell us what you think" with a "Help us improve your visit" button; "Announcement" featuring a "POWER6 technology" box with a "Learn more" link; and "Break down Linux barriers" with an image of people.

Annotations with orange arrows point to specific elements: "domain search" points to the search bar; "inventory based links generator" points to the "Personalized support" box; "Most widely used quick list" points to the "Popular links" section; and "News about tools, content and special notices. WW only." points to the "Announcement" box.

Show Me

Subscription Service – email notifications

Home | Products | Services & solutions | Support & downloads | My account

Subscription service

Feedback

Subscription service

for UNIX servers

Overview | Bulletins | **Subscribe / Setup** | Unsubscribe

Features of this service

This service provides technical information for IT professionals who maintain pSeries, p5 and OpenPower servers.

As support bulletins are released, you receive email containing links to the bulletins. Emails are available in HTML or plain text format.

Customers can select one or more operating systems, topics and categories. You can choose to have new topics automatically added to your preferences. You will be notified on a daily basis of updates to your subscribed topics.

Customers with p5 servers running i5/OS may also want to subscribe to [V5R3 bulletins](#).

Show Me

AIX

- Security advisories
- Maintenance package announcements
- Critical fixes
- Latest software fixes
- Installation tips
- PTFs in error
- High impact
- Software upgrade notifications

Product list

More hardware and software

- Microcode updates
- Hardware Management Console (HMC)
- Cluster on POWER
- Virtualization on POWER

Linux on POWER

No topics available at this time.

Red Hat

SUSE Linux portal

All environments should have at least one administrator who is signed up for firmware, software and HMC alerts through subscription services

<https://www14.software.ibm.com/webapp/set2/subscriptions/pqvcמיד>

IBM Prerequisite

- The versatile IBM Prerequisite site provides you the answers for your compatibility questions. You can use the search functions within this site to quickly find compatibility information. The site is broken into two separate sections:
 - **Hardware** - Select the Hardware tab if you are looking for compatibility information regarding a hardware feature, machine type, or model. You can search for feature codes directly, or for all of the hardware features that are supported on a specific machine type or model.
 - **Software** - Select the Software tab if you are looking for compatibility information regarding a software feature or operating system. You can search for software features directly, or you can search to find the features that are compatible with a specific operating system.

Field Descriptions

- **Machine types supported** ★
 - the machine types that the feature can be used with.
- **Feature code** ★
 - the number associated with a particular feature. Each feature has a different code for identification purposes.
- **Description**
 - provides a short explanation of the feature.
- **Models supported** ★
 - provides the models that the feature can be used with.
- **End of marketing**
 - the time at which the feature code will no longer be marketed by IBM.
- **End of service** ★
 - the time at which the feature code is no longer supported by IBM.
- **Replacements**
 - provides the different feature codes that you can use in place of a feature code that is no longer supported.
- **Information last updated**
 - represents when the information on this page was last updated.
- **Other information**
 - miscellaneous details that pertain to the feature code.
- **Code type/OS** ★
 - includes the different codes and operating system(s) that the feature can be used with.
- **Version/Release** ★
 - the minimum level of code or the minimum level of operating system that is required for the feature code to work successfully.
- **Fix level** ★
 - the minimum levels of fixes that must be installed to ensure the feature code will work properly.
- **Other info**
 - miscellaneous information related to the different codes or operating system(s).

Screen Shots

Feature prerequisite information	
Machine type(s) supported	9110, 9111, 9113, 9115, 9116, 9117, 9118, 9119, 9131, 9133
Feature code	2591
Description	External USB 1.44 MB Diskette Drive
Model(s) supported	510, 520, 550, 505, 561, 570, 575, 590, 595, 52A, 55A
Withdrawn model info	
Feature announce date	01 Jul 2004
End of marketing	
End of service	
Replacements (if no longer supported)	
Information last updated	04 May 2006 11:33 AM
Other information	

OS information			
Code type/OS	Version/Release	Fix level	Other information
server firmware	FW2.2.0	SF220_045	
RHEL	3 U3		
SLES	9		
AIX 5L Version 5.2	5200-04		
AIX 5L Version 5.3	5300	IY58143	

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http://www-912.ibm.com/e_dir/eserverprereq.nsf

POWER Code Matrix

Country/region [select] | Terms of use

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POWER5 code matrix

POWER code matrix

Latest release levels for IBM System i and System p

Latest release levels | Supported code combinations | Terminology

For POWER6 processors | For POWER5 processors

Latest release levels to support latest features and function

IBM will periodically list recommended levels for the System firmware and Hardware management console.

It should not be assumed that these are the only supported combinations, but rather the recommended level for the date of release.

[This page updated September 21, 2007]

310 Release	
Component	Version
System firmware	EM310_048
Power subsystem firmware	Not applicable
Hardware Management Console	Version 7 Release 3.1.0 + MH01015 (required fix)
Operating System Dependencies	AIX / SUSE LINUX / Red Hat Linux

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Did you know?
You can quickly find APARs marked PE or HIPER in the [Technical help database for AIX](#)
Simply add the word YesPE or YesHIPER to your query.

Related updates

- [Firmware](#)
- [HMC](#)
- [Virtualization software](#)
- [Cluster software](#)

POWER Code Matrix con't

Supported HMC and Server Release combination

The following table lists currently supported firmware (FW) Release Levels for POWER5 systems, as well as the compatibility of HMC FW levels with system FW levels.

HMC levels	POWER 5 system firmware levels (iSeries and pSeries)			
	240 Release	235 Release	230 Release	225 Release
HMC V7R3 Minimum HMC level to support POWER6. Also supports POWER5 systems at Release Level SF240_299 and above	Supported combination for Service Pack SF240_299 and higher	Not a recommended or supported combination	Not a recommended or supported combination	Not a recommended or supported combination
HMC V6R1 Recommended HMC Level	Recommended HMC and system firmware combination for the SF240 Release Level.	Supported HMC and system firmware combination. There are currently no planned releases of Service Packs for this Release Level (SF235). Recommend upgrading to Release Level SF240.	Supported HMC and system firmware combination. There are currently no planned releases of Service Packs for this Release Level (SF235). Recommend upgrading to Release Level SF240.	Recommend upgrading to Release Level SF240.
HMC V5R2 Minimum HMC Level required to support POWER5 Release Level SF240. Recommend upgrading HMC Level to V6R1	Recommend upgrading HMC Level to V6R1.	There are currently no planned releases of Service Packs for this Release Level (SF235). Recommend upgrading to Release Level SF240 and HMC Level V6R1.	There are currently no planned releases of Service Packs for this Release Level (SF230). Recommend upgrading to Release Level SF240 and HMC Level V6R1.	Recommend upgrading to Release Level SF240 and HMC Level V6R1.
HMC V5R1 Minimum HMC level required to support POWER5 Release Level 235. Recommend upgrading HMC Level to V6R1	Not a supported combination.	There are currently no planned releases of Service Packs for this Release Level (SF235). Recommend upgrading to Release Level SF240 and HMC Level V6R1.	There are currently no planned releases of Service Packs for this Release Level (SF230). Recommend upgrading to Release Level SF240 and HMC Level V6R1.	Recommend upgrading to Release Level SF240 and HMC Level V6R1.
HMC V4R5 Minimum HMC level required to support POWER5 Release Level 230 Recommend upgrading HMC Level to V6R1	Not a supported combination.	Not a supported combination.	There are currently no planned releases of Service Packs for this Release Level (SF235). Recommend upgrading to Release Level SF240 and HMC Level V6R1.	Recommend upgrading to Release Level SF240 and HMC Level V6R1.

Matrix Key:

	Latest Release Level
	Maximum Stability Release Level
	Reduced Fix support
	End of Service Pack support

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<https://www14.software.ibm.com/webapp/set2/sas/f/power5cm/home.html>

POWER Code Matrix con't

POWER5 code matrix

Recommended levels for new function and new hardware

Home | Products | Services & solutions | Support & downloads | My account

Power 5 code matrix
Feedback

POWER5 code matrix

Latest release levels and supported code combinations

Latest release levels | Supported code combinations

Latest release levels to support latest features and functions

IBM will periodically list recommended levels for the System firmware Hardware management console.

It should not be assumed that these are the only supported combinations but rather the recommended level for the date of release.

[This page updated April 2006]

240 Release

Component	Version
System firmware	SF240_219
Power subsystem firmware	BP240_179
Hardware Management Console	Version 5.2.1 OR MH00594
CSM - Service Level Update for AIX	1.5.0.2
Operating System Dependencies	AIX / SUSE LINUX / Red Hat Linux / i5OS

List of new hardware and functionality

Note:

This package provides new firmware for i5, OpenPower, p5 Servers and IntelliStation 285, EXCEPT for the following systems: 9119-590 and 9119-595 and 9406-595.

Model 9119-590, 9119-595, and 9406-595 systems shipping from the factory will continue to ship at firmware release level SF235 until April, 2006.

Field upgrades of 9119-590, 9119-595 and 9406-595 systems currently at firmware release level SF230 or below to firmware release level SF240 are not supported at this time. If you have any questions, please contact your next level of support.

235 Release

Component	Version
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240 Release

New hardware and functionality

1.9 GHz processor cards on the model 9406-570.
4, 8, and 16 GB memory cards with 0% initial activation, and 1 GB activation increments, on model 590 and model 595 systems.
Two CUoD DDR2 memory features on the model 570: a 4/8 GB feature, and an 8/16 GB memory feature.
Mixing CoD-capable DDR2 memory with DDR2 memory that is not CoD-capable in a system.
Collection (and viewing on the HMC) of logical partitions' utilization of processor and memory resources.
"Quiet office" acoustic insulation package on pSystem 521 and pSystem 521Q servers.
Enhanced model 575.
Huge pages (16 GB) in the Advanced System Management Interface (ASMI) menus.
Enhancements to the "Restore to factory default" option, CoD options, time-of-day, and firmware update policy menu on the ASMI menus.
Enhancements to the memory deconfiguration menu interface in the ASMI menus.
The option to set the number of virtual LAN (VLAN) switches was added to the ASMI menus.
The maximum number of I/O towers on a loop is increased to six on an iSeries model 595.

Related updates

- Microcode
- HMC
- Virtualization software
- Cluster software
- AIX updates
- Linux updates
- i5/OS updates
- eServer Prerequisite tool
- Other software



Additional Resources



Education and skills enhancement

- Customized education roadmap

- <http://www-304.ibm.com/jct03001c/services/learning/ites.wss/us/en?pageType=page&c=a0000048>

- No charge online education sessions

- <http://www-128.ibm.com/developerworks/aix/training/>
- http://www-128.ibm.com/developerworks/offers/techbriefings/?S_TACT=105AGX01&S_CMP=HP

- Resources available from the ITSO Redbooks team

- Redbooks, redpieces, workshops, how-tos and more
- <http://www.redbooks.ibm.com/>

Web-based Education

System p Support [dropdown] Search

Home | Products | Services & industry solutions | Support & downloads | My IBM

Product e-learning, training services for System p servers

Pointers to many online learning resources for those wishing to learn more about specific technologies and procedures to manage IBM System p servers.

Application Development training

Library	Description
Systems Support Site	System p POWER6 hardware courses
Systems Information Center	<p>AIX security and migration</p> <p>These courses focus on installation procedures to securely harden a system and how to take advantage of Network Installation Manager upgrading and updating.</p> <p>Virtualization</p> <p>Concepts on Advanced POWER Virtualization Integrated Virtualization Management, features and functions of the HMC</p> <p>IBM Director</p> <p>Introduction and use of IBM Director</p> <p>More...</p> <p>Electronic Service Agent</p> <p>Tour of functions, benefits and features</p> <p>Redbooks for System p</p> <p>Planning, tuning, how to and lots more on hardware, operating systems, middleware and more</p> <p>IT Technical Training</p> <p>Courses delivered online and in classroom worldwide</p>

Country/region [select] | Terms of use

Search

Home | Products | Services & industry solutions | Support & downloads | My account

IBM Systems > Support > System p >

System p POWER6 hardware courses: By title

Course title	Course code	Begin course...
Command Line Interface Support	CPWR6AD1	HTML Version
For Our Customers! Servicing the IBM System i and IBM System p Supporting POWER6 Technology	CPWR6AA1	HTML Version
How to Use the Hardware Management Console Supporting POWER6 Technology	CPWR6AB1	HTML Version
IBM System i and IBM System p Support Resources and Tools	CPWR6AF1	HTML Version
Performing Licensed Internal Code Maintenance	CPWR6AG1	HTML Version
Planning for Physical Installation	CPWR6AH1	HTML Version
Servicing the 7042-CR4 and 7042-C06 Hardware Management Consoles	SPWR6AB1	HTML Version

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Additional support
[IBM Systems Information Center](#)
[Access product information for IBM Systems hardware, operating systems, middleware, and more.](#)

<http://www14.software.ibm.com/webapp/set2/sas/f/genunix3/elearningdocs.html>

<https://www-01.ibm.com/servers/resourcelink/lib03030.nsf/pages/systemPHardwareCoursesbyCode?OpenDocument>

Web-based Documentation

The left screenshot shows the 'Product documentation libraries for System p servers' page. It features a sidebar menu with categories like System p servers, Hardware, Operating system, Software, Solutions, Success stories, Storage, Services, Support, Developers, Education, Library, Literature, and Press. The main content area lists documentation libraries with descriptions and links.

The right screenshot shows the 'System p POWER6 hardware publications' page. It displays a list of publications with columns for title, ID, format, and size. A red circle highlights the 'Operations Guide for the Hardware Management Console and Managed Systems' document.

Plan			
Introducing Improved Information Delivery for IBM System p Hardware	SA75-0105-01	PDF (4,64MB)	
Logical Partitioning Guide	SA75-0098-01	PDF (1,68MB)	
Site and Hardware Planning Guide	SA75-0091-01	PDF (12,09MB)	
Site Preparation and Physical Planning Guide	SA75-0103-00	PDF (3,77MB)	
System p Overview	SA75-0087-00	PDF (477KB)	
Install			
Customer-Installable Features for the IBM System p 570 (9117-MMA)	SA75-0104-00	PDF (25,31MB)	
Installation and Configuration Guide for the Hardware Management Console	SA75-0084-00	PDF (2,48MB)	
PCI Adapter Placement	SA75-0090-00	PDF (916KB)	
Use			
Advanced POWER Virtualization Operations Guide	SA75-0100-00	PDF (1,61MB)	
Functional Matrix	SA75-0088-00	PDF (376KB)	
License Agreement for Machine Code	Z125-5488-03	PDF (1,33MB)	
Operations Guide for the Hardware Management Console and Managed Systems	SA75-0085-00	PDF (6,57MB)	
Safety Inspection Guide	SA75-0122-00	PDF (521KB)	

<http://www14.software.ibm.com/webapp/set2/sas/f/genunix3/productdocs.html>

<https://www-01.ibm.com/servers/resourceLink/lib03030.nsf/pages/pHardwarePublicationsByCategory?OpenDocument>

Best Practices White Papers

<http://www14.software.ibm.com/webapp/set2/sas/f/best/home.html>



Service and support best practices

for UNIX servers

IBM provides many documents that recommend service and support strategies for IBM Systems and software. These "best practices" documents describe system planning and support procedures to improve system administration operations. The best practices documents referenced on this page provide strategies for IBM System p servers and firmware, the AIX operating system and related products, such as the Hardware Management Console and cluster software such as HACMP.

AIX

November 2007 [Fix Central changes supporting AIX Service Strategy \(509KB\)](#)

May 2007 [IBM AIX 5L Operating System: Release and Service Strategy Changes for 2007 \(88KB\)](#)

May 2007 [IBM AIX 5L Operating System Service Strategy Details and Best Practices \(320KB\)](#)

Firmware

August 2006 [IBM System p5 Firmware and Microcode Service Strategies and Best Practices \(968KB\)](#)

System p

April 2006 [Architectural Considerations for Production Environments Incorporating System p Servers \(404KB\)](#)

Hardware Management Console

March 2007 [Hardware Management Console External Connectivity Security for IBM POWER Processor-based Systems \(2 MB\)](#)

January 2007 [IBM Hardware Management Console \(HMC\) Best Practices p Servers \(492KB\)](#)

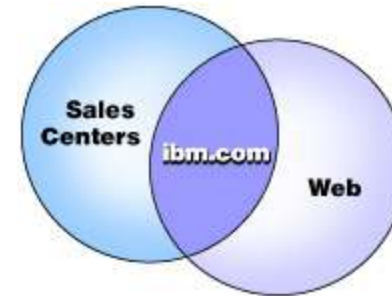
Clustering

Product Updates & Hardware Documentation

- **IBM Systems Hardware Information Center**
<http://publib.boulder.ibm.com/infocenter/eserver/v1r3s/index.jsp>
- **Facts and Features**
ftp://ftp.software.ibm.com/common/ssi/rep_sp/n/PSB00763USEN/PSB00763USEN.PDF
- **Customer Care Handbook**
<http://techsupport.services.ibm.com/guides/pseries/handbook.html>

Online Resources at IBM.COM

- Your account team can provide you with dedicated IBM.COM representatives
 - These telephone resources can assist you with your orders and configuration questions
- The [IBM.COM](http://ibm.com) website has been redesigned
 - On-line catalogs, account services and more



The screenshot shows the IBM.COM website homepage. At the top, there is a navigation bar with the IBM logo, a search bar, and links for 'United States (change)', 'Terms of use', 'Home', 'Products', 'Services & industry solutions', 'Support & downloads', 'My account', and 'Personalized settings'. The main content area features a large banner with the text: 'Most business continuity plans focus on "what." But have you thought about "who" and "how"?' followed by a link: 'Here's what you need to consider'. Below the banner are three featured articles: 'The human side of business continuity planning', 'Science and technology versus the bird flu virus', and 'IBM Business Partners solutions for mid-sized firms'. The bottom section contains five columns of links: 'Learn about' (Business consulting, On Demand Business, Solutions by industry, Medium business offerings, IT services, Software, Systems, servers and storage, Other hardware, Financing, PC products from Lenovo), 'Shop for' (Special offers, IT services, Software, Systems, servers and storage, Workstations, Printers, Upgrades, accessories and parts, IBM Certified used Equipment), 'Get support' (Downloads and drivers, Troubleshooting, Product publications, Training, Open a service request, Warranties and maintenance), 'Manage my account' (Shopping cart, Orders and delivery, Invoices and payments, Contracts, Inventory), and 'Resources for' (Industries, Small business, Medium business, Government, Developers, IBM Business Partners, Accessibility, About IBM, News and newsletters, RSS feeds, Press room, Investor relations, Jobs at IBM, IBM Research, IBM and Lenovo).

Cutting Edge Resources

- IBM DeveloperWorks Tools/Resources

- <http://www-128.ibm.com/developerworks>

- <http://www-128.ibm.com/developerworks/views/eserver/downloads.jsp>

- IBM AlphaWorks Tools/Resources

- <http://www.alphaworks.ibm.com>

- <http://www.alphaworks.ibm.com/tech/dlpar>



3rd Party Websites

- Freeware:

- <http://ppclinux.ncsa.uiuc.edu/>
- <http://pdslib4aix.seas.ucla.edu/aixpdslib>.
- <http://www.bullfreeware.com>
- http://www-frec.bull.com/cgi-bin/list_dir.cgi/download/out/
- <http://www-frec.bull.com/ospbuhp.htm>
- <http://aixpdslib.seas.ucla.edu>

- Admin and more

- <http://www.rootvg.net>
- <http://unixguide.net>
- <http://www.unixrealm.com/links/index.php?viewCat=74>
- <http://power.org>
- <http://poweraix.org>



Questions????

