

Educational System p Lease and Purchase Options



The System p™ 520 Express with its one, two or four 4.2 GHz POWER6™ processor cores delivers outstanding performance at compelling low prices for use as a distributed application server, small database server, or in a high transaction environment based on the Java™ platform. The flexibility of the p520 Express to utilize both the leading-edge IBM AIX® and Linux® operating systems (OSs) broadens the application offerings available and increases the ways clients can manage growth, complexity and risk. IBM energy management and browser-based virtualization software makes it easier than ever to achieve increased server utilization and energy efficiency by utilizing the innovative capabilities of EnergyScale technology and optional PowerVM Editions (formerly Advanced POWER Virtualization (APV)). Exceptional reliability, availability and serviceability (RAS) features are designed to deliver near-continuous application availability and allow more work to be processed with less operational disruption.

The System p 520 Express is packaged as a deskside or 4U (EIA Units) rack-mount server and is designed to continue the tradition of its predecessors, the IBM POWER5+™ processor-based System p5™ 520 and 520Q Express servers, by delivering outstanding performance and reliability at compelling low prices. The p520 supports single- or dual-core POWER6 modules on a single- or dual-chip planer. Each POWER6 module has 8 MB of L2 cache. In a 4-core configuration, the system can contain up to 64 GB of memory via eight DDR2 memory DIMM slots. The p520 can contain six 3.5" SAS disk bays, which can accommodate up to 1.8 TB of disk storage. All disk bays are direct dock and hot-pluggable. The server offers two Ethernet 10/100/1000 Mbps ports or optionally four Ethernet 10/100/1000 Mbps or two 10 Gigabit Ethernet ports.

AIX

AIX® is IBM's strategic operating system for the UNIX® market. As an open standards UNIX solution, AIX allows you to meet the needs of an expanding business by providing outstanding performance and flexibility. Features of the latest release, AIX Version 6.1, such as Workload Partitions and Live Application Mobility can provide even more flexibility, reliability, security and performance. AIX operates on IBM Systems based on Power Architecture™ technology.

Linux on System p

Get leadership 64-bit performance and available IBM virtualization technologies, capabilities and offerings for your Linux® operating system applications with IBM Power Architecture™ technology-based System p™ servers and BladeCenter® blade servers. These systems offer a highly reliable foundation for the thousands of Linux applications natively ported to Power Architecture technology and support for the new PowerVM™ Lx86 feature which is designed to install and run most x86 Linux applications using a supported Linux operating system.

BladeCenter

Please contact the Academic Initiative team at powerskills@us.ibm.com if you would like to add one of the following Blades to your configuration.

- 7988-61X: POWER6 BladeCenter JS22 Processor
- 7988-J21: BladeCenter JS21 Processor
- 7989-BHC: BladeCenter H Chassis

Educational Lease and Purchase Options

Through the IBM Power Systems Academic Initiative program, schools in the United States may lease or purchase a variety of System p models. We have developed a sample configuration that will work for many schools, detailed below. Contact us at powerskills@us.ibm.com if you would like information on the additional models available.

Hardware

Lease Option

The school may lease a Model 520 and IBM provides the latest version and release level operating system and software available, along with a 3-year software subscription. The Model 520 is what we recommend for the majority of our schools. It is possible to make slight changes to this configuration – there may be additional charges based on the changes.

The configuration of this processor as well as the software configuration follows. Additional hardware features may be added at an additional cost depending on availability.

* Installation of the System p is the responsibility of the school. Installation manuals are included with the shipment of the system.

Terms of Monthly Lease: 24 months. If you decide to discontinue the lease after 12 months, a 30-day written termination notice is required. Please contact the Academic Initiative for more details.

End of Lease Options:

- ◆ Continue existing lease on a month-to-month basis, invoices will be at the leased rate. This option happens automatically at the end of your 24-month lease unless your system is returned and you enter into a new 24-month lease. No action is required if you choose the month-to-month option.
- ◆ Upgrade system with new 24-month lease to remain current with technology.
- ◆ Purchase equipment at the fair market value.
- ◆ Return equipment to IBM Global Financing. It is the school's responsibility to pay return shipping costs.

Purchase Option

If you choose not to lease the latest technology, the sponsored school may purchase a Model 520 at a 50% discount off the list price of the hardware and IBM provides the latest version and release level operating system and software available, along with a 3-year software subscription.

Software

If the educational institution already owns a System p, IBM Academic Initiative will provide the most current software available. For those schools obtaining an educational lease or purchase through our program the software configuration listed is included at no additional cost.

If the configuration is changed there may be an additional price for preloading your software on the system prior to shipping.

Software Maintenance (SWMA)

Software Maintenance (SWMA) allows you to update your software on demand to the latest versions, releases or modifications. It also gives you both voice and electronic support. Three years of SWMA is included at no charge with your new hardware order so that your school can take advantage of these offerings.

As you are becoming familiar with your new System p you will have the capability to use SWMA for problem determination and resolution, interpretation of publications, analysis of system data, and basic installation, usage and configuration questions.

Please contact powerskills@us.ibm.com if you have any questions on this offering.

Note: SWMA covers a selected set of software products. For a complete listing of covered products go to <http://www-132.ibm.com/webapp/wcs/stores/servlet/HelpDisplay?storeId=1&catalogId=-840&langId=-1&subject=2591112>

*Questions regarding the hardware or software opportunities
may be sent to powerskills@us.ibm.com*

System Configuration

Model 520 – AIX Only

Modifications can be made to best suit your needs, however price may change depending on requested modifications.

9131-52A	AIX Only: System P5	1
0265	AIX Partition Specify	1
1905	4 GB Single-Port Fibre Channel PCI-X 2.0 DDR Adapter	2
1931	2048MB (2x1024MB) DIMMS, 276-pin	2
1971	73.4 GB 15,000 RPM Ultra320 SCSI Disk Drive Assembly	2
1979	IBM 10/100/1000 Base-TX Ethernet PCI-X Adapter	1
1993	IBM 4.7 GB IDE Slimline DVD-RAM Drive	1
5005	Software Preinstall	1
5159	AC Power Supply, 850 W	1
6574	Ultra320 SCSI 4-Pack	1
6585	DASD Locking Kit	1
6587	Acoustic Option – Rear Muffler	1
6671	Power Cord (9-foot), Drawer to IBM PDU, 250V, 10A	2
7184	IBM Deskside Cover Set	1
7271	One Processor Entitlement for Processor Feature #8316	1
7877	Media Backplane Card	1
7940	Advanced POWER Virtualization	2
8227	Tie-Down Strap Security Device	1
8316	2-core 2.1 GHz POWER5+ Processor Card	1
8481	Zero-priced Express Product Offering Processor Entitlement for #8316	1
9300	Language Group Specify – US English	1

For additional information on System p you can check out the Web page at <http://www.ibm.com/systems/p/>

Or download the following Redpaper
<http://www.redbooks.ibm.com/redpieces/abstracts/redp4403.html?Open>

System Configuration

Model 520 – AIX and Linux Only

Modifications can be made to best suit your needs, however price may change depending on requested modifications.

9131-52A	AIX and Linux Only: System P5	1
0265	AIX Partition Specify	1
0266	Linux Partition Specify	1
1905	4 GB Single-Port Fibre Channel PCI-X 2.0 DDR Adapter	2
1912	PCI-X DDR Dual Chan U320 SCSI	1
1931	2048MB (2x1024MB) DIMMS, 276-pin	2
1971	73.4 GB 15,000 RPM Ultra320 SCSI Disk Drive Assembly	4
1979	IBM 10/100/1000 Base-TX Ethernet PCI-X Adapter	1
1993	IBM 4.7 GB IDE Slimline DVD-RAM Drive	1
4267	SCSI Cab, PCI Adp 2 Hot-SW Disk	1
5005	Software Preinstall	1
5159	AC Power Supply, 850 W	1
6470	Pwr Cord (6 Foot), to Wall	1
6574	Ultra320 SCSI 4-Pack	1
6585	DASD Locking Kit	1
6587	Acoustic Option – Rear Muffler	1
6594	U320 SCSI 4 Pack for Disk Mir	1
6671	Power Cord (9-foot), Drawer to IBM PDU, 250V, 10A	2
7184	IBM Deskside Cover Set	1
7271	One Processor Entitlement for Processor Feature #8316	1
7877	Media Backplane Card	1
7940	Advanced POWER Virtualization	2
8227	Tie-Down Strap Security Device	1
8316	2-core 2.1 GHz POWER5+ Processor Card	1
8481	Zero-priced Express Product Offering Processor Entitlement for #8316	1
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Or download the following Redpaper
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5L V5.3 Software Configuration

If an equipment lease is not needed by the school, IBM Academic Initiative will provide the most current software available for your system. For those schools obtaining an educational lease or purchase through our program the software configuration listed is included at no additional cost. Please e-mail powerskills@us.ibm.com to request your copy.

5639-RHL RED HAT ENTERPRISE LINUX FOR P

0023 Per Svr Unl Skts w 3 yr std
(available only with AIX/Linux System Configuration)

5696-A5L PSERIES SPO

1005 No charge media feature
1404 Virtual I/O Server Expans Pack
2201 Virtual I/O Server v1.5
2924 English – US U/L SBCS (ENU)
3410 CD-ROM ISO 9660 Standard
3506 Ship backup media FR Preinstall

5692-A5L PSERIES SPO

0967 AIX 5L for Power V5.3
0968 AIX 5L V5.3 Expansion Pack
0970 AIX 5L Update CD
1004 Media process charge CD ROM
1403 Opt Prein 64B Kern AIX 5L V5.3
1424 Partition Load Manager
1488 Firefox
1492 TAM Client Code
2924 English – US U/L SBCS (ENU)
3410 CD-ROM ISO 9600 Standard
3506 Ship Backup Media FR Preinstall
5005 Preload (AUS feature 5005)
5924 Lng Preload Only 5924 English

5692-LOP SPO FOR LINUX ON POWER

1004 Media Process Charge CD-ROM
1479 Power VM LX86Media
2215 RHEL5 Media Kit
2244 RHEL Per Svr Unl Skts 2 3 Yrs
3410 CD-ROM ISO 9660 Standard

5765-AVE NEW MODEL DESCRIPTION

0001 Per Server PowerVM LX86

5765-G03 AIX 5L for Power V5.3

0034 AIX5L V5.3 1 CPU, D5 ValPak

5765-G31 PARTITION LOAD MANAGER V1.1

0007 PLM V1.1,1 CPU,D5

5765-G34 VIRTUAL I/O SERVER V1.3

0007 V I/O VC1.1,1 CPU,D5

5771-PLM SWMA FOR VIRTUAL I/O SERV 1YR

0844 PLM, 1Y SWMA,1 CPU,D5

5771-VIO SWMA FOR VIRTUAL I/O SERV 1YR

0846 V I/O,1Y SWMA,1 CPU,D5

5773-LNX BM OSS SUPP LINE FOR LINUX 3Y

0954 Per Server 24x7 Support, 3Year
(available only with AIX/Linux System Configuration)

5773-SM3 SW MAINTENANCE FOR AIX, 3YEARS

0458 1 Proc D5 SWMA 3Y Renew
0460 24x7 1 Prc D5 SWMA #Qy Rnw