Cornerstone Systems, Inc.

zFrame® model *zDev*® Server

When speed is critical
Where do you find it?

Cornerstone's zDev...
will get you there fast!

The zDev® is configured specifically as a zArchitecture development system for IBM® PartnerWorld for Developer members, with models providing from 35 to 110 MIPS[1] of processing capacity in a compact and economical package.

Highlights

- Full S/390 capability, including ESA/390 features for VSE/ESA, z/VSE, VM/ESA, and OS/390, and 64 bit zSeries support for zOS and zVM
- Uses IBM provided PWD development system software for developers
- IBM xSeries® 236 or System x 3800 servers, featuring 400 or 800 MHz Front Side Bus, six PCI slots
- Standard 3.4 GB of S/390 memory, expandable to 7 GB of Error Correcting (Chipkill™) memory
- Multiple redundant hot pluggable power supplies and cooling fans ensure reliability and high availability
- Standard 160 or 330 GB of disk space, up to 1.4 TB internally (2.8 TB for zDev3) and virtually unlimited capacity in external enclosures
- RAID-5 protection of all disk storage, using IBM high performance, hot pluggable disk drives and RAID controllers with battery backed-up cache
- Very high performance 10,000 RPM Disk drives standard, for response time critical applications (15,000 RPM drives available)
- Ability to define and run multiple S/390 "images", providing a function similar to S/390 Logical Partitions
- Parallel ("Bus and Tag") and ESCON® channels available for connecting to traditional S/390 I/O devices
- Integrated Ethernet 10/100/1000 adapters and software for easy integration into your LAN environment. Additional Ethernet or Token Ring adapters can be added for increased flexibility
- Standard SDLT (160/320) tape and SCSI adapters for connection of 3480/90 compatible tape drives
- Uses FLEX-*ES*® from Fundamental Software Inc. (FSI), premier provider of S/390 emulation software
- Complete configuration, staging, and testing of every system by Cornerstone prior to delivery, and on-site installation services

zDev Delivers

Cornerstone Systems, Inc. is committed to supporting S/390 developers with outstanding technical support and services. Cornerstone can provide support for installation, operating system migration, and training and documentation for your *z*Frame Model *z*Dev. Financing is available for all hardware, components and service.

IBM Premier Business Partner

As an IBM Premier Business Partner, we are recognized for the finest customer service and level of performance in the industry. Count on us to deliver your zFrame model zDev like no one else can! Call us at **1-800-510-3004** or visit our web site at **www.csihome.com** today.

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zFrame model zDev Specifications

zDev Features	Standard	Optional
Processors	Dual or quad Pentium® IV processors provide equivalent of 35, 40, 60, 65, or 110 S/390 MIPS	The 35/40 MIPS model zDev1 can be easily upgraded to 60/65 MIPS (zDev2)
S/390 Central Storage	3.4 GB for S/390 Central, Expanded storage and disk caching	Up to 7 GB (there are some restrictions on how S/390 memory can be allocated)
I/O Channels	Ultra-SCSI controller for internal tape, RAID adapter with 256 MB NV cache	S/390 Parallel Channels (one or three channels per adapter) and ESCON® channels
Disk Storage	160 GB usable for S/390 environment (zDev1, 330 GB for zDev2 and zDev3) RAID-5	Up to 1.4 TB (2.8 TB for zDev3) internally, external expansion to more than 4 TB
Communications	Dual Ethernet 10/100/1000 integrated controllers	Additional Ethernet or Token Ring adapters, 6 port ICA emulator for BSC or SDLC
Tapes	Internal SDLT (160/320 GB)	SCSI attached 3480/90 or SDLT S/390 channel attached 3480/90, 3590
Power/Cooling	670W Dual voltage fully redundant power supplies standard (three 775W power supplies on zDev3)	UPS (1400 VA or larger recommended)
Software	SCO UnixWare® 7.1.4 or SuSE® Linux® Pro 9.3 and FSI FLEX-*ES*®	S/390 Operating Systems (VSE/ESA, zVSE, VM/ESA, OS/390, z/OS and z/VM) in IBM PWD pre-configured form
Cornerstone Services	Hardware and software configuration, initial setup and loading of S/390 environment. On-Site Installation services.	Additional customization and migration services are available

Environmentals and Physical Facilities

Power
Standard 110-240V (Auto switching)

Temperature/Cooling
Normal Office environment

Size
8.5" width, 17.3" height, 27.6" d. (5U) + space for Display and Keyboard/Mouse
17.6" width, 15.5" height, 29.8" d. (7U) + space for Display and Keyboard/Mouse for zDev3

[1] MIPS

Frequently used term meaning "Millions of Instructions Per Second". Commonly used to measure the processing capacity of S/390 type computer systems. MIPS is a very simplistic measurement however, and may not be a good indicator of overall performance. Customers should consider all aspects of system performance, including memory size and I/O capabilities, when evaluating a computer system.