International Technical Support Organization

IBM System z9 - Closing

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IBM ITSO - International Technical Support Organization

z9-109 New Functions and Features

- Five new hardware models
- Faster Uni Processor
- Up to 54 customer PUs
- Up to 512 GB memory
- Up to 60 LPARs
- CBU for IFL, ICF and zAAP
- Separate PU pool management
- Redundant I/O interconnect
- Enhanced Driver maintenance
- Enhanced Book availability
- Dynamic oscillator switchover
- 54 additional hardware Instructions

- Hot pluggable/ maintainable MBA/STI fanout cards
- Up to 16 2.7 GB STIs per book
- MIDAW facility
- Multiple Subchannel Sets per LCSS
- 63.75K Subchannels for Set-0
- Increased Number of FICON Express2 Features
- N_Port ID Virtualization
- IPv6 Support for HiperSockets
- OSA-Express2 1000BASE-T
- OSA-Express2 OSN (OSA for NCP)
- Enhanced CPACF with AES, PRNG and SHA-256
- Configurable Crypto Express2

Preview*
Server Time Protocol

*This statement represents IBM's current intentions. IBM development plans are subject to change or withdrawal without further notice.

IBM System z9 and eServer zSeries

IBM eServer zSeries 900 – z900 (2064)

- Announced 10/00 – first 64-bit zSeries
- 42 models – Up to 16-way
- Specialty Engines
  - CP, IFL, ICF
- On Demand Capabilities
  - CUoD, CIU, CBU
- Memory – up to 64 GB
- Channels
  - Up to 256 ESCON channels
  - FICON Express, Parallel
  - Token-Ring, FDDI, Ethernet, ATM
  - Coupling Links
- Crypto coprocessors, accelerators
- Parallel Sysplex clustering
- HiperSockets – up to 4
- Up to 15 logical partitions
- Operating Systems
  - z/OS, z/VM, VSE/ESA, z/VSE, TPF, z/TPF, Linux on zSeries

IBM eServer zSeries 800 – z800 (2066)

- Announced 2/02 – first 64-bit zSeries for mid market
- 10 models – Up to 4-way
- Specialty Engines
  - CP, IFL, ICF
- On Demand Capabilities
  - CUoD, CIU, CBU
- Memory – up to 32GB
- Channel
  - Up to 240 ESCON Channels
  - FICON Express
  - Networking Adapters(OSA)
  - Coupling Links
- Cryptographic Coprocessors
- Parallel Sysplex clustering
- HiperSockets – up to 4
- Up to 15 partitions
- Operating Systems
  - z/OS, z/VM, VSE/ESA, z/VSE, TPF, z/TPF, Linux on zSeries

IBM eServer zSeries 990 – z990 (2084)

- Announced 5/03 – first zSeries Superscalar Server
- 4 models – Up to 32-way
- Specialty Engines
  - CP, IFL, ICF, zAAP
- On Demand Capabilities
  - CUoD, CIU, CBU, On/Off CoD
- Memory – up to 256 GB
- Channels
  - Four LCSSs
  - Up to 1024 ESCON channels
  - Up to 240 FICON Express2 channels
  - Token-Ring, GbE, 1000BASE-T Ethernet
  - Coupling Links
- Crypto Express2
- Parallel Sysplex clustering
- HiperSockets – up to 16
- Up to 30 logical partitions
- Operating Systems
  - z/OS, z/VM, VSE/ESA, z/VSE, TPF, z/TPF, Linux on zSeries

IBM eServer zSeries 890 – z890 (2086)

- Announced 4/04 – zSeries Superscalar Server for mid market
- 1 model – Up to 4-way
  - 28 capacity settings
- Specialty Engines
  - CP, IFL, ICF, zAAP
- On Demand Capabilities
  - CUoD, CIU, CBU, On/Off CoD
- Memory – up to 32 GB
- Channel
  - Two LCSSs
  - Up to 420 ESCON channels
  - Up to 80 FICON Express2 channels
  - Networking Adapters(OSA)
  - Coupling Links
- Cryptographic Coprocessors
- Parallel Sysplex clustering
- HiperSockets – up to 16
- Up to 30 partitions
- Operating Systems
  - z/OS, z/VM, VSE/ESA, z/VSE, TPF, z/TPF, Linux on zSeries

IBM zSystem z9 (z9-109) (2094)

- Announced 6/05
- Superscalar Server
- 5 models – Up to 54-way
- Specialty Engines
  - CP, IFL, ICF, zAAP
- On Demand Capabilities
  - CUoD, CIU, CBU, On/Off CoD
- Memory – up to 512 GB
- Channels
  - Four LCSSs
  - Multiple Subchannel Sets
  - MIDAW facility
  - 63.75 subchannels
  - Up to 1024 ESCON channels
  - Up to 336 FICON channels
  - 10 GbE, GbE, 1000BASE-T
  - Coupling Links
- Configurable Crypto Express2
- Parallel Sysplex clustering
- HiperSockets – up to 16
- Up to 60 partitions
- Enhanced Availability
- Operating Systems
  - z/OS, z/VM, VSE/ESA, z/VSE, TPF, z/TPF, Linux on zSystem