

# IBM Update: @server zSeries 800

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# Agenda

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## IBM @server zSeries

- Multiprise 3000 IFL
- z800 Product Line
  - Highlights
  - Operating System Support
- z/OS.e
- zSeries Offering for Linux
- z800 Summary
- Related WAVV Presentations



**New!**

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# Multiprise 3000 Integrated Facility for Linux

IBM *@server* zSeries

- Addl capacity exclusively for Linux workloads (z/VM supports IFL)
  - IFL engines lower price than standard engines
  - traditional S/390 (ie. VSE) software charges unaffected
  - based on G5 processor design
  - 4 GB of processor storage
- IFL feature for H30 & H50 (with upgrades for existing H30/H50 users)

Model	Processors
H30	SubUni (Std) + Uni (IFL) H30 (ie. VSE) + H50 (Linux) performance
H50	Uni (Std) + Uni (IFL) H50 (ie. VSE) + H50 (Linux) performance



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# Introducing the IBM @server zSeries 800

IBM @server zSeries

*The best of zSeries in a smaller, more affordable package*



- The mainframe Qualities of Service you need
- The flexibility to respond to business priorities
- Consolidation on zSeries drives out costs

*zSeries technology - Not just for the biggest data centers*

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# z800 Highlights

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IBM **@server** zSeries



- **z/Architecture: 64-bit**
  - same functionality as z900 (incl 31-bit mode)
  - up to 15 LPARs
  
- **Flexible Models**
  - 8 general purpose models
  - special Coupling Facility (CF) model
  - special Linux model
  
- **Granular Upgrades within z800**
  
- **I/O Subsystem**
  - Advanced connectivity - ie. OSA Express
  - High bandwidth
  - No OSA2 or Parallel Channels
  - No internal disk
  
- **Availability Built In**
  - Redundancy
  - Bullet Proof Security

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# z800 Models

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- 8 General Purpose Models (80 <-> 636 MIPS)
  - Spare PUs can be configured as ICF, IFL, or spare
  - IFL and ICF engines always at full capacity
- 2 Specialty Models
  - Linux Facility model 0LF
  - Coupling Facility Model 0CF

Model	MSU Values	Engines PU + SAP	Spares
0A1	13	SubUni 1+1	3
0B1	20	SubUni 1+1	3
0C1	25	SubUni 1+1	3
001	32	1+1	3
0A2	44	SubDyadic 2+1	2
002	60	2+1	2
003	84	3+1	1
004	108	4+1	0

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# z800 (and z900) Operating System Support

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Operating System	ESA/390 (31-bit)	z/Arch (64-bit)
VSE/ESA V2 R4 and later	yes	no
z/VM V4 R1 and later	yes	yes
z/VM V3 R1	yes	yes
VM/ESA V2 R4	yes	no
Linux for zSeries	no	yes
Linux for S/390	yes	no
z/OS V1 R1, R2, R3, R4, R5	no	yes
z/OS.e (z800 only)V1 R3	no	yes
OS/390 V2 R10	yes	yes
OS/390 V2 R8, R9	yes	no
TPF V4 R1	yes	no

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# z/ELC Pricing - What is it?

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- New model-based software pricing structure
  - Only applicable to z800 servers
  - Similar to GOLC pricing structure for Multiprise 3000
  - No MOSP
  
- Does zELC pricing affect how VSE/ESA is priced?
  - Yes, VSE/ESA is priced with zELC.
  - zELC also applies to middleware that runs on VSE/ESA.
  
- Does zELC pricing affect how z/VM V3 is priced?
  - Yes, z/VM V3 is priced with zELC.
  - zELC also applies to middleware that runs on z/VM V3.
  
- Does zELC pricing affect how z/VM V4 is priced?
  - No, z/VM V4 is IPLA/OTC priced per engine.



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# z/OS.e - What is it?

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- **Optimized price performance for many of today's hottest applications:**
  - IBM solutions: WebSphere, Domino, DB2 Intelligent Miner, Tivoli
  - industry applications
  - applications written to C/C++, Java, and Enterprise Java (J2EE)
  - supports DB2, IBM & ISV middleware, connects to CICS and IMS
  
- **z/OS.e on z800 can:**
  - run as a z/VM guest
  - occupy full z800 or individual engine(s) - LPAR mode only
  - participate in Parallel Sysplex
  
- **Same code base as z/OS V1R3:**
  - 64-bit
  - availability, maintenance, service, scalability, security, management, reporting

**No** *traditional* data processing workloads including those based on CICS, IMS, COBOL, PL/1, FORTRAN, etc. Disables some z/OS Base Elements and Features

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# zSeries Offering for Linux - What is it?

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## ■ zSeries Hardware

- z800 Model 0LF

- ✓ 1 to 4 Integrated Facility for Linux (IFL) engines

- memory pre-configured to match processor configuration

- includes FICON™ Express, OSA Express and ESCON I/O

## ■ z/VM V4

- virtualization technology

## ■ zSeries Maintenance

- 3 years hardware maintenance (1 year warranty)

- 3 years z/VM Subscription and Support License

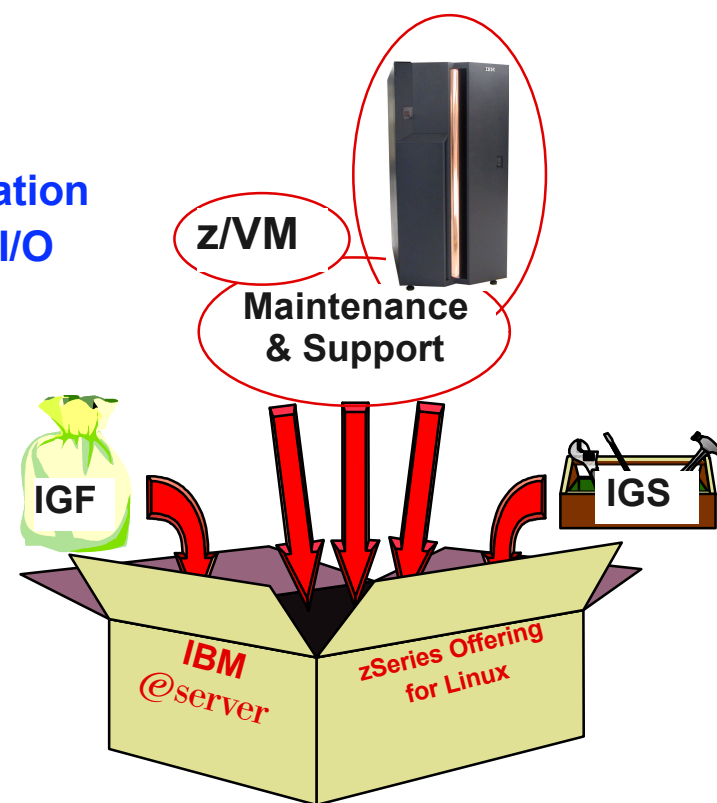
## ■ TOTAL Solution Financing - optional

- financing options available from IBM® Global Finance

## ■ IBM Global Services - optional, such as:

- IBM Support Line Software Services for Linux

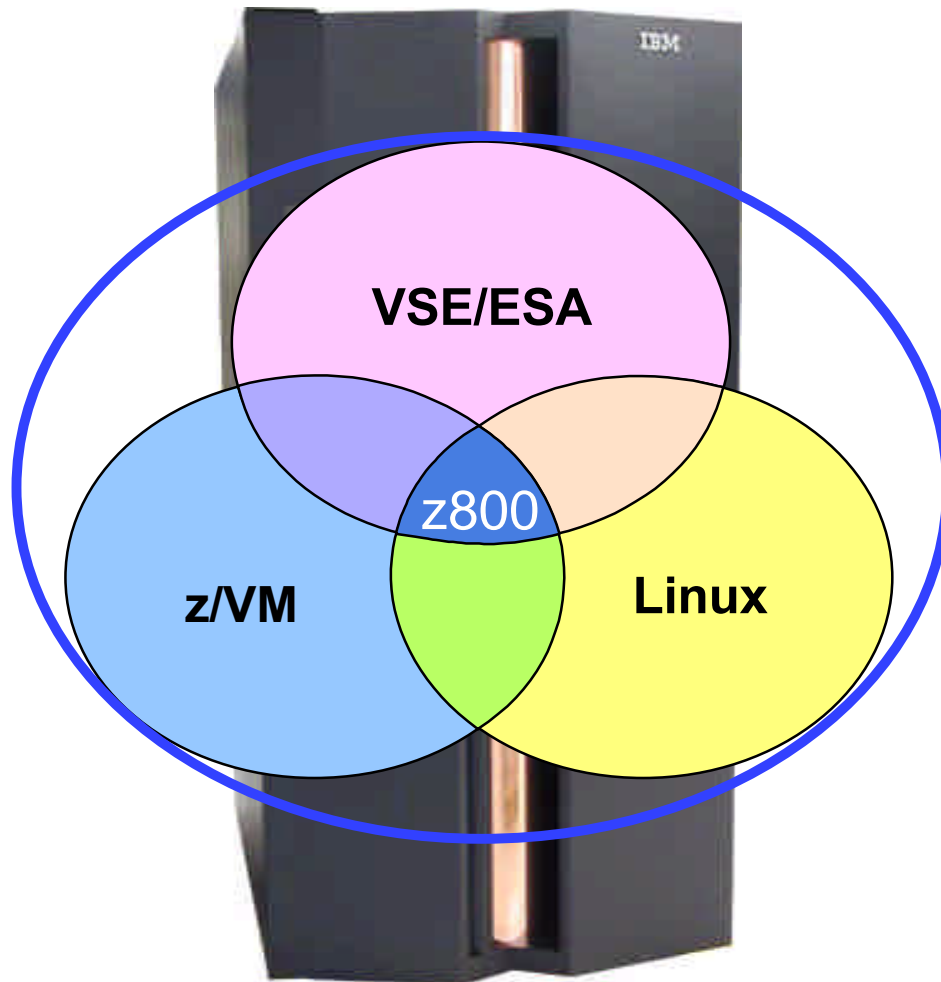
- IGS Linux Rapid Deployment Solution



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# z800 Summary

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## ■ VSE/ESA

- Protect core IT investments
- z/OS affinity
- Robust, secure enterprise server
- Cost-effective solutions
- Open connectors to network/servers

## ■ Linux on zSeries

- Large portfolio of new applications
- Platform for web application server
- IBM middleware
- Massive scalability
- Potential consolidation of many servers

## ■ z/VM

- Highly flexible, industrial strength
- Host multiple VSE and Linux images
- Comprehensive network connectivity
- Designed to exploit zSeries

**The choice and mix is up to you**

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# Recommended z800-related Sessions

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IBM @server zSeries

## ■ Long-term Mainframe Perspective

- Saturday 10:30 AM, *Future of Mainframe Based Computing* - Dr. Karl-Heinz Strassemeyer / Eric Vaughan

## ■ zSeries

- Sunday 10:30 AM, *Bridge into the Future* - Dr. Strassemeyer
- Sunday 3:00 PM, *zSeries Update* - Andy Gangone
- Sunday 5:30 PM, *ShopzSeries for VSE & VM* - Rich Fulton
- Monday 5:30 PM, *Linux Pricing* - Jim Savoie

## ■ EXPO

- z800 004 (4-way) with VSE & Linux under z/VM

## ■ IBM Business Partners

- Multiple sessions



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