

z/VSE Business, Status and Strategy Update

VM Workshop 2022

—
Rene Trumpp
Manager z/VSE Business, Development & Service



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How everything started



System/360 – Announced April 7, 1964

In the most important product announcement in company history to date, IBM introduces the IBM System/360 - a new concept in computers which creates a "family" of small to large computers incorporating IBM-designed Solid Logic Technology (SLT) microelectronics and uses the same programming instructions. The concept of a compatible "family" of computers transforms the industry.



“(System/360) was the biggest, riskiest decision I ever made, and I agonized about it for weeks, but deep down I believed there was nothing IBM couldn’t do.”

Father, Son & Co. 1990

Tom Watson, Jr.

IBM President 1952

IBM President and CEO 1956

IBM Chairman and CEO 1961-1971

How it began

Plan was to deliver a single operating system, OS/360

OS/360 project was falling behind schedule

When finally released, a year late,
it required at least 64 KB of memory

Model	Announced	First Shipped
30	April 7, 1964	June, 1965
40	April 7, 1964	April, 1965
50	April 7, 1964	August, 1965

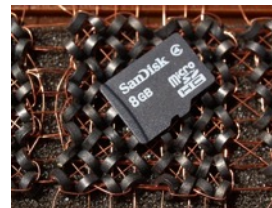
IBM System/360 Model 30

Typical arithmetic operations per second:

- Decimal add (5 + 5 digits) 13,300
- Fixed point add (32 bits) 34,500

Memory sizes:

- 8K, 16K, 32K, 64K



Source: Wikipedia



DOS/360 – the first S/360 operating system

DOS/360 became available in 1965

- Designed for use of little memory
- Required approximately 6KB for system residence (supervisor)
- A minimum configuration consisted of
 - Model 30 with 16K memory
 - IBM 1052 printer keyboard
 - Card reader
 - Printer
 - Punch
 - One IBM 2311 disk drive (7.25 MB removable pack)
- User programming in
 - Macro Assembler
 - COBOL
 - Fortran
 - PL/I (designed for 32K systems)
 - RPG (Report Program Generator)
- One partition
 - Up to three with release 3
 - BTAM for telecommunications added with release 3

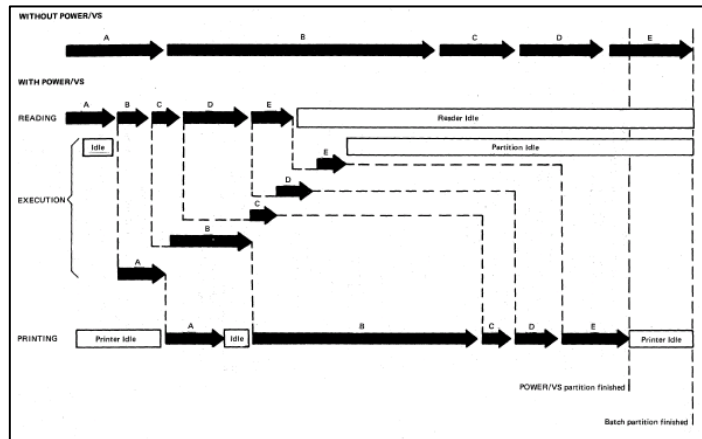


The image shows a page from the 'IBM System/360 Reference Data' manual, specifically the 'MACHINE INSTRUCTIONS' section. The table lists various instructions with their names, mnemonics, codes, and formats. The instructions include arithmetic operations like ADD, AND, and MVS; control flow instructions like BCR, BCT, and BR; and data handling instructions like LAR, LARL, and LARL. The table is organized into columns for NAME, MNEMONIC, CODE, and FORMAT.

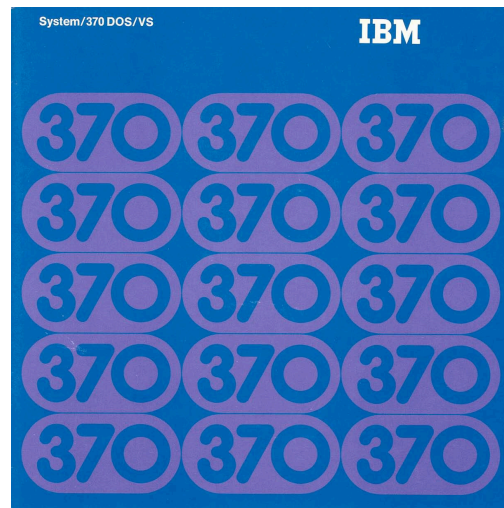
NAME	MNEMONIC	CODE	FORMAT
Add I/2	AI	1A	RR R1,R2
Add I/2	AI	5A	RR R1,D2(X),R21
Add Decimal I/2/2	AD	7A	DD D1,I1,D2(I),2,R21
Add Halfword I/2	AI	4A	RR R1,D2(X),R21
Add Logical I/2	ALR	1E	RR R1,R2
Add Logical I/2	AL	5E	RR R1,D2(X),R21
AND I/2	NR	1A	RR R1,R2
AND I/2	N	5A	RR R1,D2(X),R21
AND I/2	N	5A	SI D1(I),I2
AND I/2	NE	5A	DD D1,I1,D2(I),R21
Branch and Link	BALR	95	RR R1,R2
Branch and Link	BAL	95	RR R1,D2(X),R21
Branch and Store I/2	BSBR	9D	RR R1,R2
Branch and Store I/2	BS	9D	RR R1,D2(X),R21
Branch on Condition	BCR	07	RR R1,R2
Branch on Condition	BC	47	RR R1,D2(X),R21
Branch on Count	BCTR	06	RR R1,R2
Branch on Count	BCT	46	RR R1,D2(X),R21
Branch on Index High	BIH	36	RR R1,R3,D2(I),R21
Branch on Index Low or Equal	BILE	87	RR R1,R3,D2(I),R21
Compare I/2	CR	19	RR R1,R2
Compare I/2	C	59	RR R1,D2(X),R21
Compare Decimal I/2/2	CF	F9	DD D1,I1,D2(I),2,R21
Compare Halfword I/2	CH	49	RR R1,D2(X),R21
Compare Logical I/2	CLR	19	RR R1,R2
Compare Logical I/2	CL	59	RR R1,D2(X),R21
Compare Logical I/2	CILC	05	DD D1,I1,D2(I),R21
Compare Logical I/2	CLL	55	SI D1(I),I2
Convert to Binary	CVB	4F	RR R1,D2(X),R21
Convert to Decimal	CVD	4E	RR R1,D2(X),R21
Display I/2	DI	10	RR R1,R2
Display	D	50	RR R1,D2(X),R21
Display Decimal I/2/2	DP	F0	DD D1,I1,D2(I),2,R21
Edit I/2/2	ED	0E	DD D1,I1,D2(I),R21
Edit and Mark I/2/2	EDM	0F	DD D1,I1,D2(I),R21
Exclusive OR I/2	XR	17	RR R1,R2
Exclusive OR I/2	X	57	RR R1,D2(X),R21
Exclusive OR I/2	XI	97	SI D1(I),I2
Exclusive OR I/2	XI	07	DD D1,I1,D2(I),R21
Execute	EX	44	RR R1,D2(X),R21
Half I/O I/2/2	HIO	9E	SI D1(I),I2
Insert Character	IC	43	RR R1,D2(X),R21
Insert Storage Key I/2/2	ISK	09	RR R1,R2
Load	LR	18	RR R1,R2
Load	L	58	RR R1,D2(X),R21
Load Address	LA	41	RR R1,D2(X),R21
Load and Test I/2	LTR	12	RR R1,R2
Load Complement I/2	LCR	13	RR R1,R2
Load Halfword	LH	48	RR R1,D2(X),R21
Load Multiple	LM	58	RR R1,R3,D2(I),R21
Load Multiple Control I/2/2	LMC	88	RR R1,R3,D2(I),R21
Load Negative I/2	LNR	11	RR R1,R2
Load Negative I/2	LPR	51	RR R1,R2
Load PDR I/2/2	LPR	82	SI D1(I),I2
Load PDR I/2/2	LPA	81	RR R1,D2(X),R21
Move	MV	93	SI D1(I),I2
Move	MVC	22	DD D1,I1,D2(I),R21
Move Numeric	MVN	91	SI D1(I),D2(I),R21
Move with Offset	MVW	F1	DD D1,I1,D2(I),2,R21
Move Zoned	MVZ	03	SI D1(I),D2(I),R21
Multiply	MR	1C	RR R1,R2
Multiply	M	5C	RR R1,D2(X),R21
Multiply Decimal I/2	MP	4C	DD D1,I1,D2(I),2,R21
Multiply Halfword	MH	4C	RR R1,D2(X),R21
OR I/2	OR	16	RR R1,R2
OR I/2	O	56	RR R1,D2(X),R21
OR I/2	OI	96	SI D1(I),I2

DOS/VS - DOS with Virtual Storage support

- Releases 28 → 34
- Up to 16 MB virtual storage
- 5 partitions (up to 7 in release 34)
- Linkage Editor, Relocation Loader for effective multiprogramming
- POWER for I/O spooling
(Priority Output Writers, Execution Processors, and Input Readers)
- New VSAM file system
- 'DBDC' → CICS and DL/I



Processing Jobs A – E Without and With POWER/VS



DOS/VSE – “extended” version of DOS/VS

- Up to 12 partitions
- ICCF - Interactive Interface as an integral part of VSE
- ACF/VTAM became a component of VSE
- Maintain System History Program (MSHP) to install programming packages, APAR/local fixes, and service tapes
- Support of FBA disk devices
- Last free version of DOS
- Use of punched cards began to fade

In 1979, an imaginary DOS/VSE customer might have

- a 4331 system with 512K bytes main memory
- 6 IBM 3310 FBA disk drives (65 MB per drive) or
- 4 IBM 3340 CKD disk drives (35/70 MB removable packs)
- 2 IBM 8809 reel-to-reel tape drives
- 1 IBM 3203 line printer



IBM 3310



IBM 3340 disk pack

SSX/VSE - Small System Executive

A pre-generated, pre-configured VSE operating system for the 4321, 4331, 4341, and 4361 systems

Designed for ease of installation, operation and use

SSX/VSE consists of VSE components and unique prompts and aids

Tested as a single product including

- Assembler, POWER, CICS/VS, ICCF, IPF, ACF/VTAM, VSE/VSAM, Sort/Merge, DITTO, Fast Copy, OCCF, IPCS, COBOL
- plus optional products

SSX integration approach was too rigid for most customers

VSE/SP refined the concept

Installing an IBM 4321 or 4331?

Ask your IBM salesman about SSX.

Ask your MSA salesman about System 43.

The only interactive family of business software for IBM's SSX System.

Now there's a complete family of business application systems for your IBM 4321 or 4331 computer that gives you the power of mainframe software without programmers. It's System 43™ from MSA. The first application software designed especially for IBM's new SSX (Small System Executive) operating system for the 4321 or 4331.

Improves productivity dramatically
How? Simple. With MSA's System 43, you get a system that's designed from the ground up to be used by your financial and accounting people without programmer assistance. You don't need a highly qualified system operator. And even installation can be handled by anyone with a minimum of data processing experience.

Important breakthrough
IBM's new SSX operating system is the most important development in user-friendly software ever. And with System 43, you can make the most of it.

To bring you System 43, MSA began with extensive pre-release field testing as a beta site for SSX. Then we developed special versions of our own line of user-friendly business application software.

And with more than 6800 of our systems installed around the world, MSA

software is user-proven and highly refined. Put it all together and you've got System 43. You can only get it from MSA.

The only business application system you'll need
You get a complete menu of business application software designed specifically to operate with SSX.

System 43 eliminates the problems you face in evaluating and purchasing systems from different suppliers. You don't have to worry about incompatibility between mismatched software systems. The application components available with System 43 function together to give you the information you need in a smooth, problem-free operating environment.

Documentation is concise and easy-to-understand because it's written in plain English.

At MSA, we offer the most comprehensive line of business application packages currently available from one source. So you get a wider choice of application packages. And MSA Industry Specialist can show you how these systems will fit your company's software requirements.

These application components include all the same interfaces and online capabilities that come with other MSA systems.

You get more than software
When you choose System 43 software, you also get the software company. At MSA, we know it takes a lot more than a great software package to give our customers the kind of service they need.

That's why we provide on-going customer support that includes thorough documentation, periodic system enhancements, and continuous educational programs for your people.

Find out more
We'd like to tell you more about System 43 and other MSA systems. For more information please contact Robert Carpenter, (616) 262-2776. Or just clip the coupon below.

system software ever. And with System 43, you can make the most of it.

To bring you System 43, MSA began with extensive pre-release field testing as a beta site for SSX. Then we developed special versions of our own line of user-friendly business application software.

And with more than 6800 of our systems installed around the world, MSA

that won't confuse non-data processing personnel.

And with MSA's world-wide customer service team to support your systems, software maintenance is greatly simplified.

Talk to the software experts
Divisions of more than half of the Fortune 500 companies use MSA software systems, in addition to several thousand other organizations, many with their first computers.



At MSA, we offer the most comprehensive line of business application packages currently available from one source. So you get a wider choice of application packages. And MSA Industry Specialist can show you how these systems will fit your company's software requirements.

These application components include all the same interfaces and online capabilities that come with other MSA systems.

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MSA
1000 North Road, P.O. Box 1000
Warren, Michigan 48090
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Urheberrechtlich geschütztes Material

VSE/SP – System Product

- Integrated, pre-packaged VSE system
- ‘SIPO’ concept (System Installation Productivity Option)
- Fast Service Upgrade (FSU) made release-to-release migration simpler
- VSE/SP V3 (1987):
 - Packaging concept of ‘Base’ and ‘Optional’ products
 - ‘Base’ is an integrated package containing key, commonly used products
 - ‘Optional’ products are coordinated and shipped and serviced with the Base
 - 12 partitions
 - Virtual Address Extensions (VAE) supporting up to 9 address spaces
 - New Librarian
 - Interactive User Interface (IUI)
 - Conditional JCL

```
BG 0000 * STEP 0 EXECUTED
BG 0000 * STEP 1 EXECUTED
BG 0000 * STEP 2 EXECUTED
BG 0000 * STEP 1 EXECUTED
BG 0000 * STEP 2 EXECUTED
BG 0000 * STEP 3 EXECUTED
BG 0000 * STEP 3 EXECUTED
BG 0000 EOJ DPPETE
```

Figure 3: Console Listing Showing the Order of Program Execution

```
CATALOG PROC2.PROC REPLACE=YES DATA=YES
// GOTO &STEP
/. STEP0
* STEP 0 EXECUTED
/. STEP1
* STEP 1 EXECUTED
/. STEP2
* STEP 2 EXECUTED
// IF $RC EQ '0000' THEN
// SETPARM STEP=STEPS
// IF $RC EQ '0000' THEN
// GOTO END
/. STEP3
* STEP 3 EXECUTED
/. END
/+
CATALOG PROC3.PROC REPLACE=YES DATA=YES
// GOTO &STEP
/. STEP4
* STEP 4 EXECUTED
/. STEP5
* STEP 5 EXECUTED
/. STEP6
* STEP 6 EXECUTED
/. END
/+
```

Figure 4: Branch Forward Procedure

VSE/ESA Version 1 was introduced with the ES/9000

“Project Blue” announcement in 1990: IBM Enterprise System/9000

New ES/9000 processor family: ES/9021, ES/9121, ES/9221

– ESCON channels

Enterprise Systems Architecture (ESA)

– MVS/XA → MVS/ESA

– VM/XA SP → VM/ESA

– VSE/SP → VSE/ESA



VSE/ESA

VSE/ESA V1

- 31-bit real memory support, then added 31-bit virtual addressing
- Dynamic partitions
- Virtual storage constraint relief (VSCR)
 - Move ACF/VTAM and POWER out of shared partitions
 - Dynamic channels (XA channel subsystem)
 - Up to 1024 devices for added I/O bandwidth
- ESA exploitation (later releases)
 - ESA data spaces
 - Virtual disk in storage
 - ESA access registers
- New versions of CICS/VSE, ACF/VTAM, VS COBOL II
 - For greater MVS affinity

In 1993, an imaginary VSE/ESA customer might have

- a ES/9221-150 system with 128 MB main memory
- 8 IBM 9336 disk drives (470 MB per actuator in early models)
- IBM 3490 tape unit



VSE/ESA Version 2

- VSE/ESA V2.2 (1996)
 - Year 2000 ready
- VSE/ESA V2.3 (1997)
 - optional Turbo dispatcher, support for n-way processors
 - VSAM KSDS > 4GB
 - TCP/IP for VSE/ESA (native), offered under agreement with CSI
 - ACF/VTAM V4.2
 - LE and LE-based languages: COBOL, PL/1, C for VSE/ESA
- VSE/ESA V2.4 (1999)
 - CICS Transaction Server (TS)
 - Affinity with OS/390 CICS
- VSE/ESA V2.5 (2000)
 - Connectors (VSE and Java-based components)



Introducing the new z/VSE Strategy

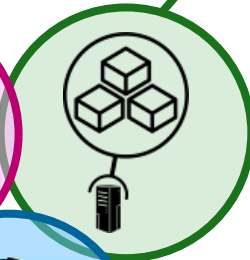
Protect existing investments

Legacy applications and data on z/VSE



Integrate with other Systems

*Connect to, and run backend System z applications
z/VSE Connectors to Java capable clients*



Extend for new workloads

Use the combination of Linux on System z and z/VSE

The basic z/VSE strategy is as simple as PIE:

- Protect
- Integrate
- Extend



z/VSE

- z/VSE V3
 - 31-bit mode only
 - No z/Architecture, no 64-bit mode
 - FCP-SCSI support
- z/VSE V4
 - 64-bit real memory addressing
 - No support of 64-bit virtual memory addressing
 - Fast Path to Linux on System z
- z/VSE V5
 - 64-bit virtual memory addressing
- z/VSE V6
 - New CICS



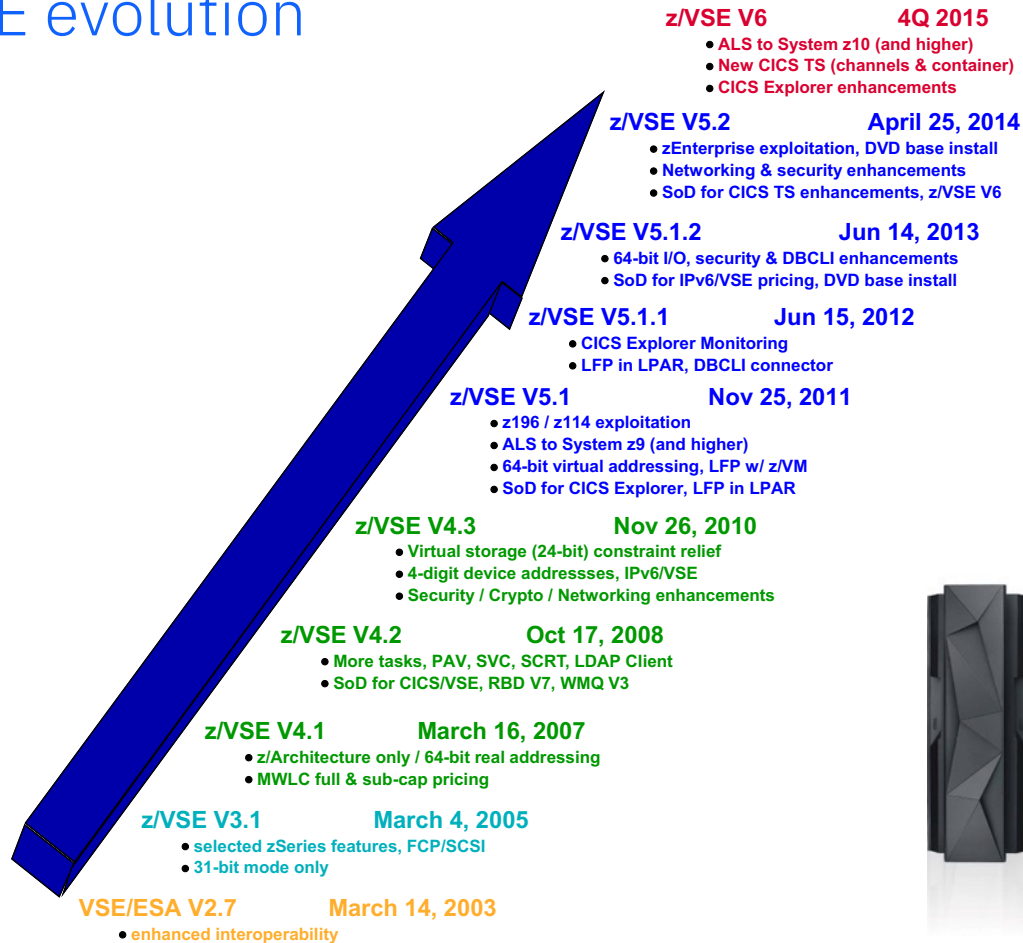
Virtual Addressing

With z/VSE: From 24-Bit to 64-Bit

By Ingolf Salm

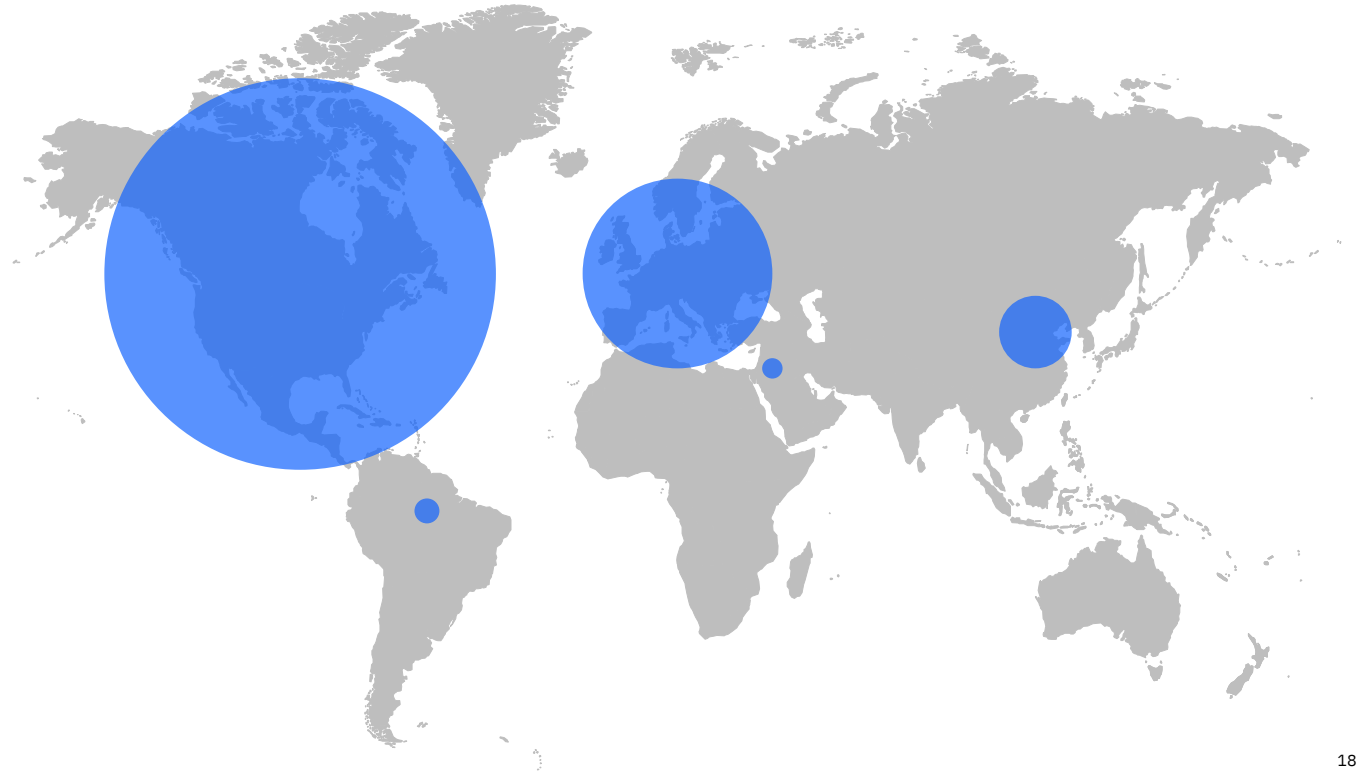
The 64-bit virtual support introduced in z/VSE 5.1, available since November 2011, lifts a boundary and provides more options for growth and new applications. Before we consider how 64-bit virtual is implemented and what it provides, let's examine the evolution of real and virtual addressing in VSE. >

z/VSE evolution



Business Worldwide

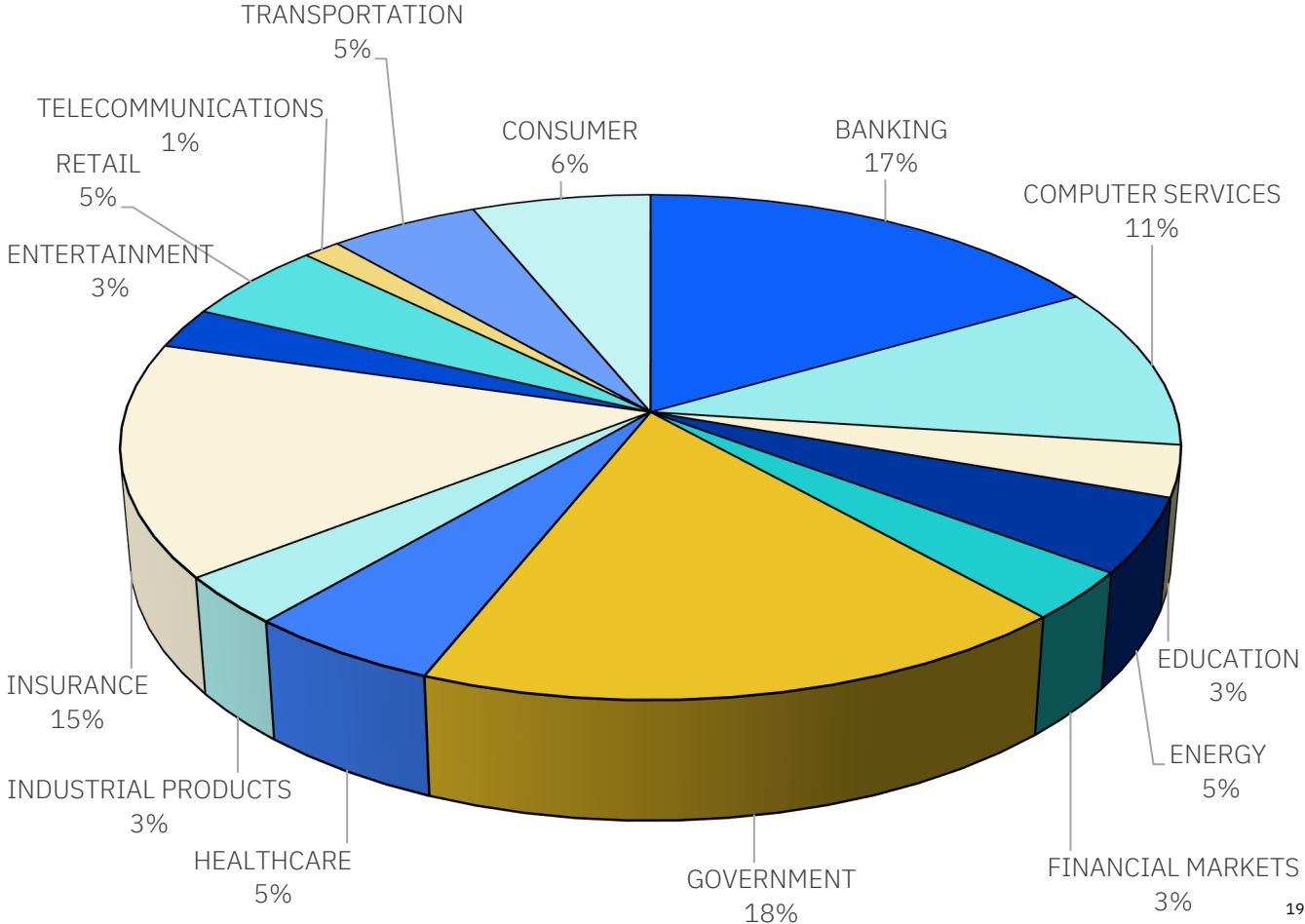
z/VSE drives the
business everywhere*.



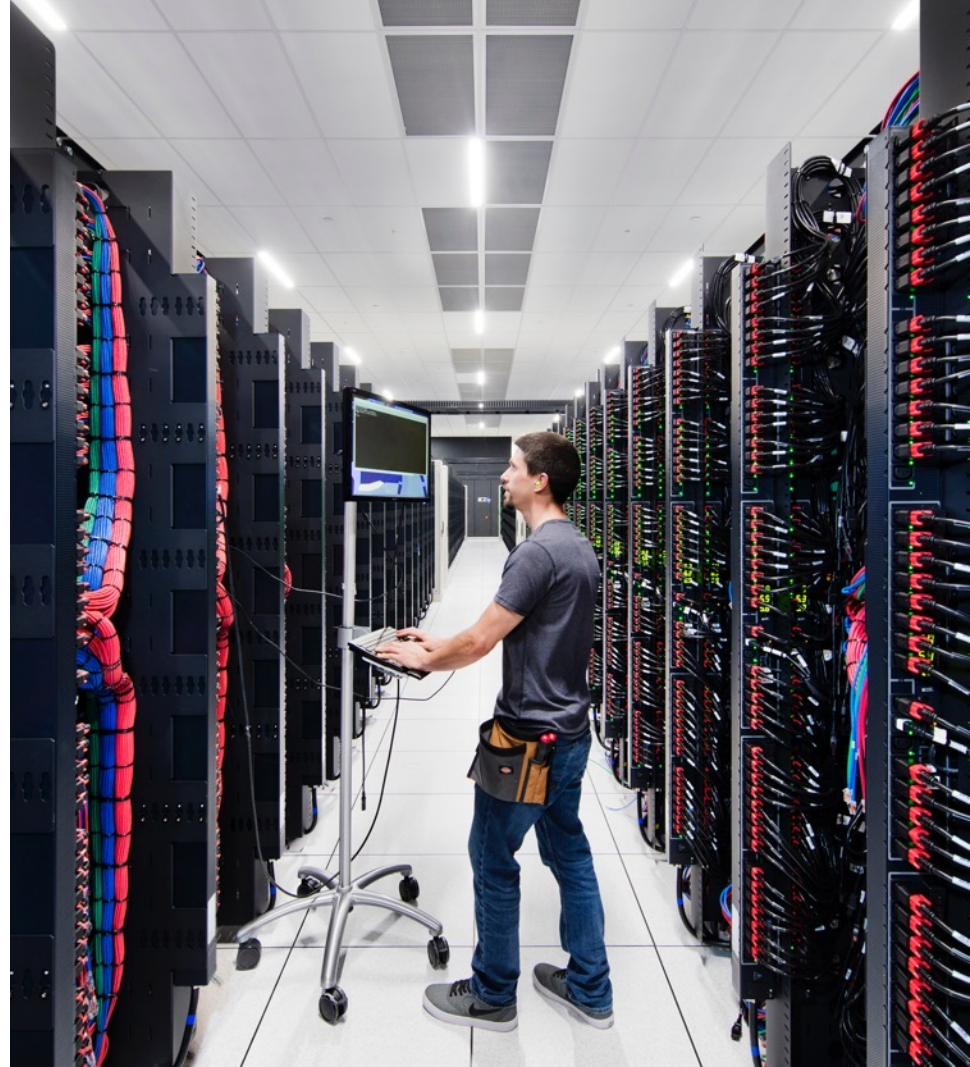
* the bigger the circle, the more customers in the geo

Industries

z/VSE remains important for all kind of different industries



Where are we today



Roadmap

There were two important announcements at the 7th of June:

- RFA77533 - IBM Z platform Software withdrawal
- RFA77609 - Statement of Direction: z/VSE 6.2 support for the IBM z16

EOM Announcement

EOM of z/VSE 6.2 announced

z/VSE Continuous Delivery

DL/I 1.12.1 with support for >4GB partitions, DL/I recovery, PAV support for ICKDFS FlashCopy, *OpenSSL TLS 1.3, Networking, Security, ...*

z/VSE 6.2 GA: 1.12.2017

z114/z196 or higher, HW exploitation, CICS TS 2.2 (HTTP 1.1) & CICS Explorer, RESTfull Engine, Easy of use, Networking and Security enhancements

z/VSE 6.1 GA: 27.11.2015 (end of service: 30.6.2019)

CICS TS for z/VSE 2.1: CICS Explorer update, Channels & Containers; TCP/IP for z/VSE 2.1, IPv6/VSE 1.2, z10 or newer; z Systems exploitation

z/VSE 5.2 GA: 25.4.2014 (end of service: 31.10.2018)

zEnterprise exploitation, device support
Tapeless installation, networking / security enhancements

z/VSE 5.1 GA: 11.2011 (end of service: 30.6.2016)

64 bit virtual, zEnterprise exploitation, z9 or newer

z/VSE 5.1.1 GA: 6.2012: CICS Explorer, LFP in LPAR, database connector

z/VSE 5.1.2 GA: 6.2013: TS1140, 64 bit I/O, openSSL, db connector enhancements

z/VSE 6.2 and IBM z16

z/VSE benefits from the HW features of the new z16

- **System Recovery Boost**
- Faster I/O with the **FICON Express 32S**
- **IBM Fibre Channel Endpoint Security**, which provides server authentication and data encryption
- New **OSA-Express7S 1.2**
- Better performance with HW Encryption with **Crypto Express8S**

The IBM z16 (machine type 3931, announced at the 5th of April 2022) will be the last machine which is supported by IBM z/VSE 6.2



z/VSE Support for IBM Mainframe Servers



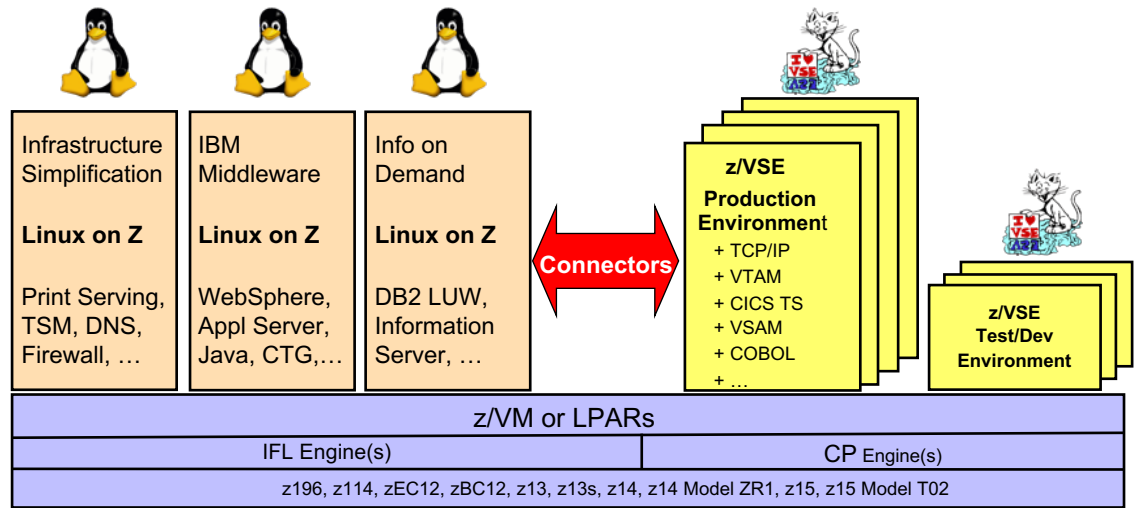
IBM Servers	z/VSE 6.2	z/VSE 6.1 (out of service)	z/VSE 5.2 (out of service)	z/VSE 5.1 (out of service)	z/VSE 4.3 (out of service)
IBM z16	✓	✓	✓	✓	✗
IBM z15 & z15 Model T02	✓	✓	✓	✓	✗
IBM z14™ & z14 Model ZR1	✓	✓	✓	✓	✗
IBM z13® & z13s™	✓	✓	✓	✓	✓
IBM zEnterprise® EC12 & BC12	✓	✓	✓	✓	✓
IBM zEnterprise® 196 & 114	✓	✓	✓	✓	✓
IBM System z10® EC & z10 BC	✗	✓	✓	✓	✓
IBM System z9® EC & z9 BC	✗	✗	✓	✓	✓
zSeries® 990, 890	✗	✗	✗	✗	✓

How the future will look like



Strategy change

- Everybody knows the z/VSE P.I.E. strategy
- Last year we announced our partnership with 21st Century Software
<https://www.21stcenturysoftware.com/license-z-vse-code-from-ibm/>
- In March 21st Century Software announced their first version of the VSE operating system: VSEⁿ 6.3
<https://www.21stcenturysoftware.com/21st-century-software-announces-vsenn-v6-3/>



Future of IBM z/VSE & 21st Century Software

Requests for **future enhancements** to the VSE Operating System and stack elements should be submitted to **21st Century Software**.

IBM z/VSE 6.2 will not support future hardware, but we enabled 21st Century Software to be able to take over.

IBM continues to support the existing IBM z/VSE Operating System and IBM stack products.



More News & Resources



Sometimes it's hard to find things... therefore I provide some direct links

IBM Websites

Marketing pages... Landing page:

<https://www.ibm.com/it-infrastructure/z/zvse>

Marketplace pages... Products that are sold and high level information about it:

<https://www.ibm.com/us-en/marketplace/zvse>

ShopZ:

http://www-304.ibm.com/software/shopzseries/ShopzSeries_public.wss

Documentation:

<https://www.ibm.com/docs/en/zvse/6.2>



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Redbooks and White Papers

Overview:

<https://www.ibm.com/docs/en/zvse/6.2?topic=technical-articles-whitepapers>

Redbook: Introduction to the New Mainframe: IBM z/VSE Basics

<http://www.redbooks.ibm.com/abstracts/sg247436.html?Open>

Redbook: Migration to CICS Transaction Server for z/VSE V2.1

<http://www.redbooks.ibm.com/abstracts/sg248390.html?Open>

Redbook: Security on IBM z/VSE

<http://www.redbooks.ibm.com/abstracts/sg247691.html?Open>

How to use REST support on z/VSE for access to IBM MQ REST API

<ftp://public.dhe.ibm.com/eserver/zseries/zos/vse/pdf3/VSE2RESTMQ.pdf>



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Service & Support

Support overview:

<http://www-01.ibm.com/support/docview.wss?uid=isg3T1027442>

Supported release status:

https://public.dhe.ibm.com/eserver/zseries/zos/vse/pdf3/zVSE_Status.pdf

Unsupported releases:

https://public.dhe.ibm.com/eserver/zseries/zos/vse/pdf3/zVSE_Status_Unsupported.pdf

IBM Software lifecycle:

<https://www.ibm.com/support/lifecycle/>



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Tools & other useful stuff

z/VSE Modern Solutions/Use Cases

<https://www.ibm.com/docs/en/zvse/6.2?topic=use-cases>

Connectors and Tools:

<https://www.ibm.com/it-infrastructure/z/zvse-downloads>

<https://www.ibm.com/docs/en/zvse/6.2?topic=developing-e-business-applications>

Upcoming events:

<https://www.ibm.com/it-infrastructure/z/zvse-resources>

Jens' z/VSE blog:

<https://ibm.biz/zvse-blog>

VSE-L discussion list:

<https://groups.google.com/forum/?fromgroups#!forum/bit.listserv.vse-l>



Thank you

Rene Trumpp,
Manager z/VSE Business, Development & Service
IBM Deutschland Research & Development GmbH

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trumpp@de.ibm.com

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