z/VSE Live Virtual Class

z/VSE V5.1 Update

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Agenda

- Roadmap
- VSE strategy
- z/VSE 5.1 key functions
- 64 bit virtual
- CICS



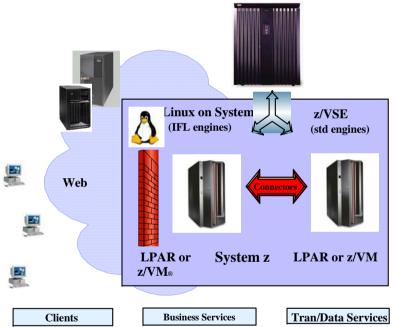
VSE Roadmap z/VSE 5.1 planned GA 11/25/2011 Quality 64 bit virtual zEnterprise exploitation SOD: CICS Explorer z/VSE 4.3 11/2010 **Connectivity** Virtual storage constraint relief, 4 digit cuus z/VSE 4.2.2 04/2010 - IPv6/VSE 05/2010 z/OS Affinity z/VSE 4.2.1 July 2009 - PAV, EF for z/VSE 1.2 z/VSE 4.2 October 2008, end of service 10/31/2012 Capacity • More tasks, more memory, EF for z/VSE 1.1, CPU balancing, SCRT on z/VSE, SoD for CICS/VSE z/VSE 4.1 March 2007, end of service 04/30/2011 z/Architecture only, 64 bit real addressing, MWLC – full and sub-capacity pricing



VSE Strategy

- Helps <u>Protect</u> your existing investments in core VSE programs, data, equipment, IT skills, *plus* business processes, end user training, etc.
 - modernize, i.e. extend VSE resources to Web
 - exploit IBM servers, storage, and software
- Integrate VSE with the rest of your IT based on open and industry standards
 - IBM middleware
 - VSE connectors and web services
- <u>Extend</u> with Linux on System z
 - infrastructure consolidation/simplification
 - add new infrastructure and/or line-of-business applications

Why Not Think Inside the Box?





z/VSE 4.3

- Announced: 10/2010, GA: 11/26/2010
- z/VSE 4.3.1 GA: 08/12/2011
- IBM System z10 / z196 / z114 exploitation
 - Dynamically add of CPUs
 - Large (1 megabyte) page support
 - Static power saving mode for SCRT (z196)
- Virtual storage constraint relief for 24 bit (CICS) programs
- 4 digit device addresses (CUUs)
- Basic Security Manager (BSM) will allow to protect MQ resources
- Monitoring agent based on SNMP (Simple Network Management Protocol)
- Linux Fast Path
- Pricing:
 - Sub-Capacity Reporting Tool (SCRT) available on z9 / z10 / z196 / z114
 - Midrange Workload License Charges (MWLC) with sub-capacity option
 - z114: Advanced Entry Workload License Charge (AEWLC) pricing with sub-capacity option
- FSU from z/VSE 4.1 and 4.2



z/VSE 4.3 Migration Considerations

- Migrate to z/VSE 4.3.1 (+ latest PTF level)
- Parallel Access Volume support
 - Apply the latest Supervisor PTF level
- VSE/VSAM
 - Migration of VSAM catalogs
 - Don't use Fastcopy to migrate VSAM catalogs
 - Flashcopy all VSAM volumes allocated to a VSAM catalog
 - Migrate all recoverable VSAM catalogs to standard VSAM catalogs
 - Before the migration to z/VSE 4.3 or z/VSE 5.1
 - PTF for "automatic" migration soon
- CICS
 - CICS Coexistence Environment removed
 - DL/I 1.12 replaces DL/I VSE 1.11 and DL/I DOS/VS 1.10
 - CICS/VSE 2.3
 - Not supported by DL/I 1.12
 - No longer on base tapes

z/VSE V5.1

- Preview: 04/12/2011, Announcement: 10/12/2011, planned GA 11/25/2011
- 64-bit virtual addressing
- Introduces Architectural Level Set (ALS) that requires System z9 or later
- IBM zEnterprise 196 (z196) and IBM zEnterprise 114 (z114) exploitation
 - Support Static Power Save Mode for MWLC clients with subcapacity option (z196 only)
 - 4096-bit RSA keys with Crypto Express3 for enhanced security
 - Support of OSA-Express for zBX (CHPID OSX) to participate in an Intra Ensemble Data Network (IEDN) in z/VM guest or LPAR
- Exploitation of IBM System Storage options
 - Copy Export function of TS7700 Virtualization Engine for disaster recovery
 - Multi-Cluster Grid support of the TS7700 Virtualization Engine Series (TS7700)
 - IBM Storwize V7000 Midrange Disk System (z/VSE 4.2 and later)
 - IBM XIV (z/VSE 4.2 and later)
- Fast Service Upgrade (FSU) from z/VSE 4.2 and z/VSE 4.3
- Pricing
 - Midrange Workload License Charge (MWLC) pricing with sub-capacity option
 - z114: Advanced Entry Workload License Charge (AEWLC) pricing with sub-capacity option



z/VSE V5.1

- Networking enhancements
 - IPv6 support for Linux Fast Path
 - z/VSE z/VM IP Assist (VIA) exploitation
 - TCP/IP communication using Layer 2 (Data Link Layer)
 - Virtual Local Area Network (VLAN) support for OSA Express and Hipersockets
 - Global VLAN supported by TCP/IP for VSE/ESA and IPv6/VSE
 - General VLAN supported by IPv6/VSE
- IPv6/VSE
 - Large TCP window support, can increase throughput
 - 64 bit virtual exploitation, large TCP window storage allocated above the bar
 - Layer 2 support
 - VLAN support
- System management enhancements
 - SNMP Trap Client Extension monitoring API
- High availability and disaster recovery enhancements
 - Copy Export function of TS7700 Virtualization Engine for disaster recovery
 - Multi-Cluster Grid support of the TS7700 Virtualization Engine Series (TS7700)
 - GDPS (Geographically Dispersed Parallel Sysplex) client (in a z/VM guest)
 - z/VSE supports heartbeat only
 - GDPS K-system can only monitor z/VSE
 - GDPS K-system can manage z/VM and therefore can manage z/VSE indirectly



z/VSE V5.1 ...

- System enhancements
 - Language Environment enhancements
 - PL/I multitasking enhancements
 - C run-time socket API to include IPv6 related functions
 - Callable service sample for programs
 - Additions to system programmer C samples
 - Updated LE/C support for Librarian Members, and updates to the CEETRACE utility.
 - E-busness connector enhancements
 - VSE Script Connector to support LIBR access
 - VSE/POWER
 - Token as new job attribute to address spooled output
- CICS Statement of general direction (SOD):
 - IBM intends to provide CICS Explorer capabilities for CICS TS for VSE/ESA, to deliver additional value.

All statements regarding IBM's plans, directions, and intent are subject to change or withdrawal without notice.



VSE Support for System z

VSE Release	z800 / z900	z890 / z990	System z9 / z10 / z196 / z114	VSE EoS
z/VSE V5.1 (GA 4Q/2011)	No	No	Yes	tbd
z/VSE V4.3	Yes	Yes	Yes	tbd
z/VSE V4.2	Yes	Yes	Yes	10/31/2012
z/VSE V4.1	Yes	Yes	Yes	04/30/2011
z/VSE V3.1	Yes	Yes	Yes	07/31/2009
VSE/ESA V2.7	Yes	Yes	Yes	02/28/2007
VSE/ESA V2.6	Yes	Yes	Yes	03/2006
VSE/ESA V2.5	Yes	No	No	12/2003
VSE/ESA V2.4	Yes	No	No	06/2002
VSE/ESA V2.3	No	No	No	12/2001



IBM zEnterprise exploitation

- 64 bit real addressing up to 32 GB (System z)
- 64 bit virtual virtual addressing up to 90 GB (System z)
- Large page support (z10, zEnterprise)
- Dynamic add of logical CPs (z10, zEnterprise)
- Linux Fast Path (LFP) in z/VM mode LPAR (z10, zEnterprise)
- Exploitation of the z/VSE z/VM IP Assist (zEnterprise)



IBM zEnterprise exploitation

- 4096-bit RSA key support with configurable Crypto Express3 (z10, zEnterprise)
- zEnterprise and zEnterprise BladeCenter Extension (zBX) support
 - "native" Intra Ensemble Data Network (IEDN)
 - Virtual LAN support
 - Layer 2 support
 - IEDN communication using the z/VM VSWITCH
- Static power save mode supported for SCRT (z196 only)
- Statement of general direction:
 - The IBM zEnterprise 196 and IBM zEnterprise 114 are the last System z servers to support ESCON channels.
 - HiperSockets Completion Queue on z196 and z114
 - See IBM Hardware Announcement 111-136, July 12, 2011

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IBM zEnterprise exploitation

- Large page (1 megabyte page) for data spaces
 - Better exploitation of large processor storage
 - No configuration options required
 - Transparent to applications
 - Not supported in z/VM guests
- Dynamic add of logical CPs

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AR	0015	AREA	DSPS	AREA	DSPS	AREA	DSP	S AREA	DSPS	AREA	DSPS	AREA DSPS
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AR	0015											
AR	0015	MFRAM	IE (31)		0(0)						
AR	0015											
AR	0015	11401	REA	IDΥ								

- Ability to dynamically add logical central processors (CPs) without preplanning
- Logical processor add from HMC/SE
- Allows adding CPs to LPAR without re-IPL of the z/VSE system
- Capacity of the z/VSE V4.3 system may be in-/decreased dependent on workload needs

juerų dspace

- New SYSDEF TD parameters (STARTSBY / STOPSBY) to manage the additional CPs
- Not supported in z/VM guests

query to	4						
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AR 0015	00	ACTIVE	01 111		16367	26978	0.606
AR 0015	01	INACTIVE					
AR 0015	02	INACTIVE					
AR 0015	03	STANDBY					
AR 0015							
	TOTAL			Θ	16367	26978	0.606
AR 0015							
AR 0015					SPINZ(S		
AR 0015	OVERA	LL UTILIZA	TION:	0%	NP UT	ILIZATION:	0%
AR 0015				NOT OOT			
AR 0015	CPU B	ALANCING:		NUT AC	TIVATED		
AR 0015 AR 0015	EL ABO	ED TIME SI		Net bee	ET. 401	26069	
	11401	READY	NCE LE	HOT REOD	40.	20005	
HI OUIS	11401	NEHDY					

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Encryption Facility for z/VSE

- Optional priced feature for VSE Central Functions
- Supports the use of SAM files, VSE/VSAM files, VSE library members, tapes, virtual tapes as input or output
- Requires CP Assist for Cryptographic Function (CPACF)
 - no charge feature, only on z890, z990, z9, z10, z114 and z196 servers
- Extends affinity between z/VSE and z/OS
 - Function roughly equivalent to EF for z/OS 1.1
 - Compatible with EF for z/OS V1.1 (Encryption Facility System z format)
 - EF for z/VSE tapes can be read by EF for z/VSE, EF for z/OS, EF for z/OS Java Client, and Decryption Client for z/OS,
 - EF for z/OS V1.1 and EF for z/OS Java client tapes can be read by EF for z/VSE
- EF for z/VSE 1.2
 - Supports z/VSE 4.2 and later
 - Supports openPGP standard
 - OpenPGP exploits 4096-bit RSA keys (z10, zEnterprise)



TCP/IP Connectivity for z/VSE

- TCP/IP connectivity for IPv4 communication
 - TCP/IP for VSE/ESA 1.5 licensed from CSI International
 - IPv6/VSE licensed from Barnard Software, Inc. (BSI)
 - Linux fast path (LFP)
 - EZA socket interface, new function calls
 - LE/C socket API
- TCP/IP connectivity for IPv6 communication
 - IPv6/VSE
 - EZA socket interface, new function calls
 - Linux Fast Path (z/VSE 5.1)
- All TCP/IP stacks can run concurrently within one z/VSE system
- z/VM queue-I/O assist for real networking devices
 - Performance assist for OSA-Express adapters and HiperSockets



IPv6/VSE

- Announced: 04/06/2010, GA 05/28/2010, updated
- Full function IPv4 (with November update) and IPv6 stack with applications
 - MWLC with sub-capacity option for IPv6/VSE product
 - Supported releases: z/VSE 4.2 plus PTFs, z/VSE 4.3 or z/VSE 5.1
 - Optional Product of z/VSE 4.3 and z/VSE 5.1
- IPv6 solution for z/VSE
 - Includes the IPv6 stack, IPv6 APIs and IPv6-enabled applications
 - IBM's EZA Assembler interfaces support IPv4 and IPv6 communication
 - Extends 32 bit addresses (used in IPv4) to 128 bit addresses
 - To meet requirements of governmental agencies for products
- z/VSE 5.1 enhancements
 - Large TCP window support, can increase throughput
 - 64 bit virtual exploitation, large TCP window storage allocated above the bar
 - Layer 2 (data link layer) and Layer 3 (IP layer) support
 - VLAN support
 - On extended base tape



IPv6/VSE - Functionality

- IPv6/VSE's dual stack support: allows IPv6-enabled applications to transparently communicate with partners via either IPv6 or IPv4 network
- IPv6 tunneling: encapsulates IPv6 datagrams within IPv4 packets allows communication with IPv6 networks, even if local infrastructure is IPv4
- IPv4 and IPv6 enabled applications:
 - FTP server, FTP client
 - Batch FTP client
 - TN3270E server
 - NTP client / server to query time of day to synch TOD clock
 - System logger client to log e.g. z/VSE messages to Linux
 - Batch email client
 - Batch LPR + TN3270E / FTP / DIRECT printer sessions
 - Batch remote execution client
 - Batch PING
 - GZIP data compression
 - REXX automation
 - DBCS support: FTP client / server, LPR, batch email client, GZIP



z/VSE 5.1 Networking Enhancements

Layer 3 (IP layer)

- TCP/IP stack uses IP packets that include IP addresses
- Default mode for OSA Express and HiperSockets
- Supported by TCP/P for VSE/ESA and IPv6/VSE
- Used on z/VSE 5.1 and prior releases

Layer 2 (data link layer) support

- TCP/IP stack uses Ethernet frames with MAC addresses
- Required for IPv6 communication through the z/VM VMSWITCH
- Supported by IPv6/VSE
- Can be used on z/VSE 5.1 only



z/VSE 5.1 Networking Enhancements ...

Virtual LAN (VLAN) support

- Allows to divide a physical network into separate logical networks
- For OSA Express and HiperSocket devices
- Layer 3: VLANs can be transparently used by TCP/IP for VSE/ESA and IPv6/VSE
- Layer 2: VLANs can be used by IPv6/VSE only

Global VLAN support

- One global VLAN per link
- Global VLANs defined in IJBOCONF to be used OSX devices
- IEDN requires OSA Express for zBX devices (OSX)

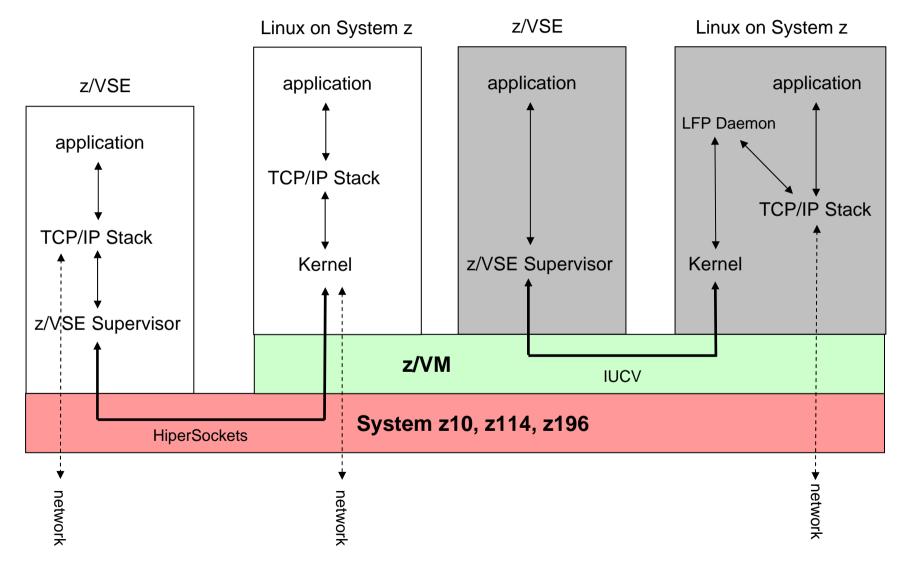


Linux Fast Path (LFP)

- Provided with the z/VSE base product no additional charge (z/VSE 4.3 or higher)
- LFP uses an IUCV connection between z/VSE and Linux on System z
 - Both z/VSE and Linux need to be z/VM guests of the same z/VM
 - Routes IPv4 or IPv6 socket request to Linux on System z
 - Without using the local TCP/IP stack
 - LFP daemon on Linux forwards the socket request to the Linux TCP/IP stack
 - Will run best in z/VM mode LPAR (z/VM 5.4 or higher)
 - Available on z10, z114 and z196
 - Linux on System z on IFL, z/VSE on standard processors
- LFP is transparent to IBM socket APIs
 - Supported APIs: LE/C socket API, EZA socket / EZASMI interface, ...
 - Transparent to IBM applications (DB2 client, Connectors, Power PNET)
 - No standard TCP/IP applications (Telnet, FTP, ...) provided
 - IPv6/VSE: TCP/IP applications can exploit LFP
- System requirements:
 - z/VM 5.4 or higher
 - Linux on System z distribution (min. SLES 10 SP3 or RHEL 5.5)

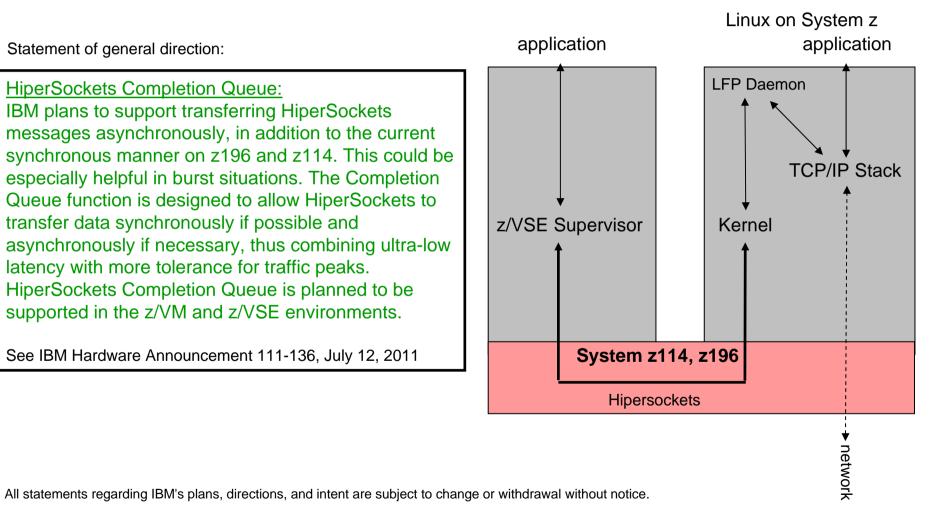


Linux Fast Path (LFP)





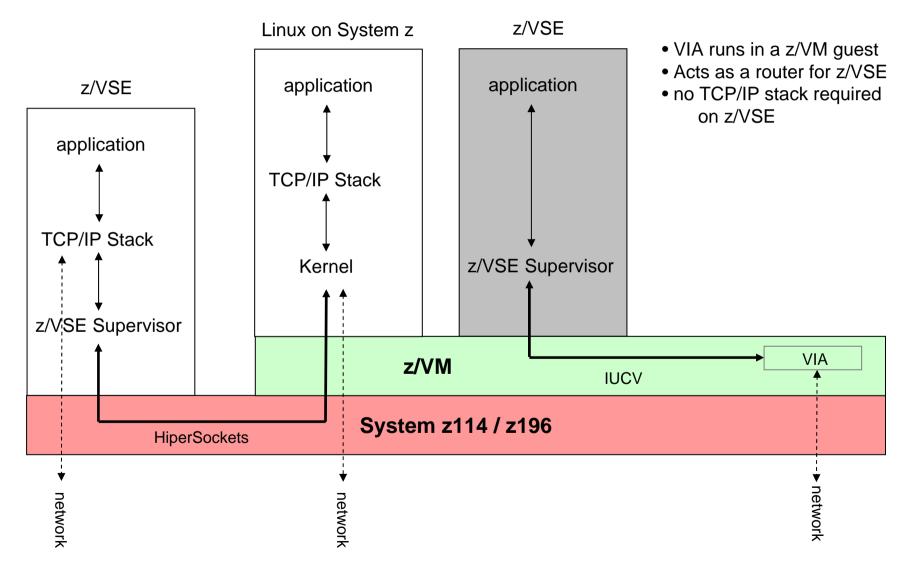
Linux Fast Path (LFP) ...



z/VSE



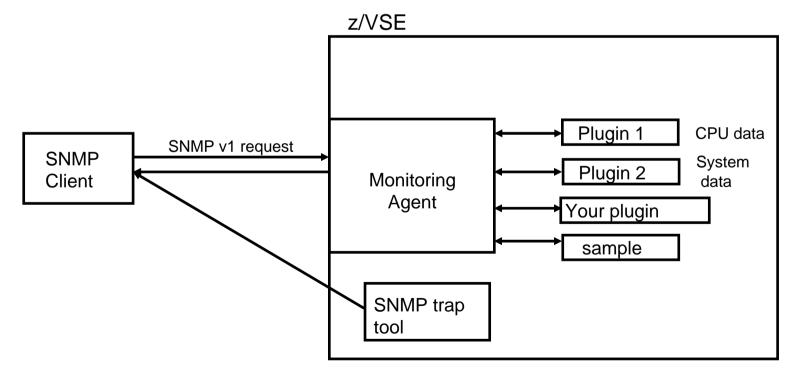
z/VSE z/VM IP Assist (VIA) – z/VSE 5.1





Connectors

- SNMP Connector
 - SNMP (Simple Network Management Protocol) V1 protocol
 - Allows to monitor system events on a network
 - Clients can retrieve z/VSE specific system and performance data
 - Performance monitors may collect the data for planning purposes
 - SNMP Trap Client Extension monitoring API





z/VSE 5.1: 64 bit virtual

- Support 64 bit virtual addressing
- 64 bit area can be used for **data only**
 - No instruction execution above the bar
- z/OS affinity: APIs (IARV64 services) to manage memory objects compatible with z/OS
 - Private memory objects for use in one address space
 - Shared memory objects to be shared among multiple address spaces
- Maximum VSIZE still limited to 90 GB
- Advantages:
 - Eases the access of large amounts of data
 - E.g. instead of using and managing data spaces
 - Reduces complexity of programs
 - Data contained in primary address space
 - Chosen design has no dependencies to existing APIs, minor impact on existing system code



64 bit virtual – Define System Limits

SYSDEF statement to define the limits for memory objects

- Before IARV64 macro can be used.
- SYSDEF MEMOBJ, MEMLIMIT=, SHRLIMIT=, LFAREA=, LF64ONLY
 - MEMLIMIT maximum virtual storage available for memory objects
 Theoretical maximum value is VSIZE.
 - SHRLIMIT maximum virtual storage available for shared memory objects = size of extended area, included in MEMLIMIT
 - LFAREA maximum real storage to fix private memory objects
 - LF64ONLY YES|NO memory objects are fixed in 64 bit frames only

– Example:

sysdef memobj,memlimit=1g,shrlimit=500m,lfarea=10m AR 0015 1I40I READY



64 bit virtual – Display Memory Object Information

- QUERY command to retrieve memory object information
 - QUERY MEMOBJ displays
 - Effective settings of MEMLIMIT, SHRLIMIT; LFAREA, LF64ONLY
 - Summary information: virtual storage consumption of private / shared memory objects
 - QUERY MEMOBJ, ALL displays
 - Additional statistic information
 - Virtual storage consumption of shared memory objects
 - Virtual storage consumption of private memory objects per partition

- Example

query memo	oj		
AR 0015	LIMITS	USED	НММ
AR 0015 ME	MLIMIT: 1024M	ΘM	1 M
AR 0015 SH	RLIMIT: 500M	ΘM	OM
AR 0015 LF	AREA: 10M	ΘK	ΘK
AR 0015 LF	640NLY: NO		
AR 0015 11	40I READY		

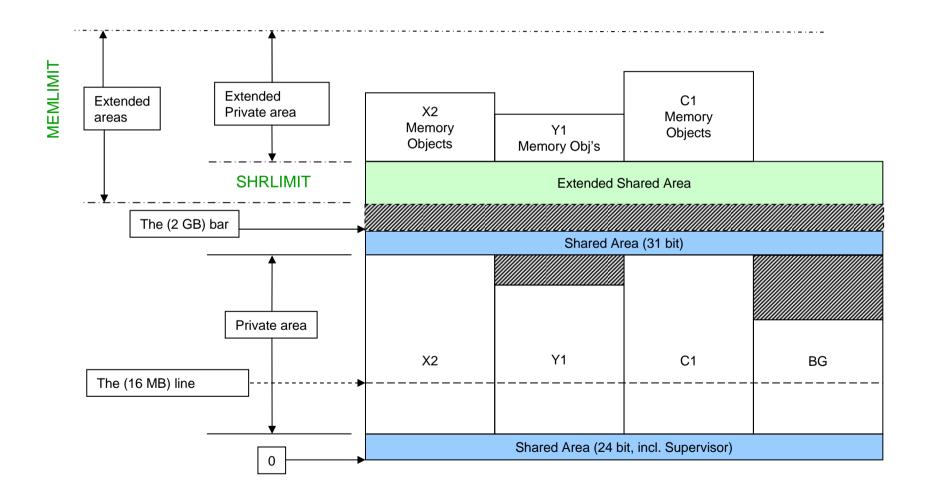


IARV64 Macro

- IARV64 macro ported from z/OS provides services to
 - Creates and frees storage areas above the bar
 - Manage the physical frames behind the storage
- Programs use the IARV64 macro to obtain memory objects
- Services (IARV64 REQUEST=):
 - GETSTORE create a private memory object
 - GETSHARED create a memory object that can be shared across multiple address spaces
 - SHAREMEMOBJ request that the specified address space be given access to a shared memory object
 - DETACH free one or more memory objects
 - PAGEFIX fix pages within one or more private memory objects
 - PAGEUNFIX unfix pages within one or more private memory objects
 - GETSTORE / GETSHARED KEY parameter (default key = key of caller)
 - Unauthorized caller can set key 9 (all tasks can run in key 9)
 - Authorized callers can set any key



64 bit virtual - Address Space Layout





64 bit virtual - Considerations

- Memory objects can be allocated for data only.
 RMODE 64 is not supported. Interrupt handlers do not support execution above the bar.
- High level languages (COBOL, PL/I, C, RPG, ...) do not support AMODE 64.
 - High Level Assembler support only.
- LOAD / CDLOAD and the linkage editor do not support AMODE 64.
- Space switching Program Calls (ss-PCs) are not supported in AMODE 64.
- All z/VSE system services (Supervisor, VSAM, BAM, DL/I, ...) to be called in AMODE 24 / 31.
- Data areas for system services including I/O buffers to be allocated below the bar.
- The Supervisor code continues to use the short form of the PSW (8 byte).
- 64 bit addressing is not supported in ICCF pseudo partitions.
- CICS services **do not** support 64 bit registers or AMODE 64.

CICS

- z/VSE 4.3 will no longer offer CICS/VSE 2.3 as part of the z/VSE 4.3 base
 - Fulfills the statement of direction in announcement from October 9, 2007
 - Coexistence environment removed which includes DL/I V1.10
 - Migration from CICS/VSE to CICS TS on z/VSE 4.2 or earlier
 - Most migration inhibitors should be removed with recent improvements
 - Basic Security Manager (BSM) enhancements
 - More tasks
 - Virtual constraint relief



CICS

- CICS/VSE 2.3
 - Not supported on z/VSE 5.1
 - End of service: 10/31/2012
- DOS/VS RPG II compiler support for CICS TS
 - Allows RPG programs implemented for CICS/VSE V2.3 to run with CICS TS
 - Will be available on z/VSE 4.2 (z/VSE 4.1) via PTF (see Info. APAR II4447)
- New DL/I VSE 1.12 release since z/VSE 4.3
 - Optional product of z/VSE 4.3 and z/VSE 5.1 (the only DL/I release)
 - Provides constraint release (DL/I resources moved above the 16 MB line)
 - Replaces DL/I VSE 1.11 and DL/I DOS/VS 1.10
 - Does not support CICS/VSE 2.3



CICS TS for VSE/ESA SOD

- SOD: IBM intends to provide CICS Explorer capabilities for CICS TS for VSE/ESA, to deliver additional value.
 - New face to CICS
 - Integration point for CICS tooling
 - System management tools
 - Eclipse-based user interface on workstation
 - Connects to CICS TS via TCP/IP
 - Communication via HTTP requests



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	PRODCI	-AAM	TMPLATE2	RELEASED	✓ INSER	ATI	TTI	CREATE	CICSUSER					
	PRODCI	-AAN	TMPLATE3	RELEASED	✓ INSER	ATI	TTI	NOCREATE	CICSUSER					
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 - z/VSE V4.3: available soon
- 64 bit virtual information:
 - IBM z/VSE Extended Addressability, Version 5 Release 1
 - IBM z/VSE System Macro Reference, Version 5 Release 1
- IBM Redbooks:
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