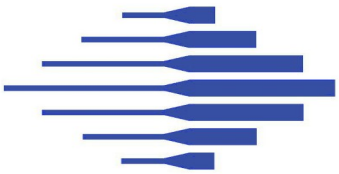


VELOCITY
SOFTWARE

Monitoring VSE

Rich Smrcina
Velocity Software, Inc
VM Workshop – June 2026

Velocity Software, Inc.
info@velocitysoftware.com

Who is Velocity Software?

Founded in 1988, Mission:

- Provide software to assist customers in optimizing the z/VM platform

Continuous fully integrated enhancements for 35 years

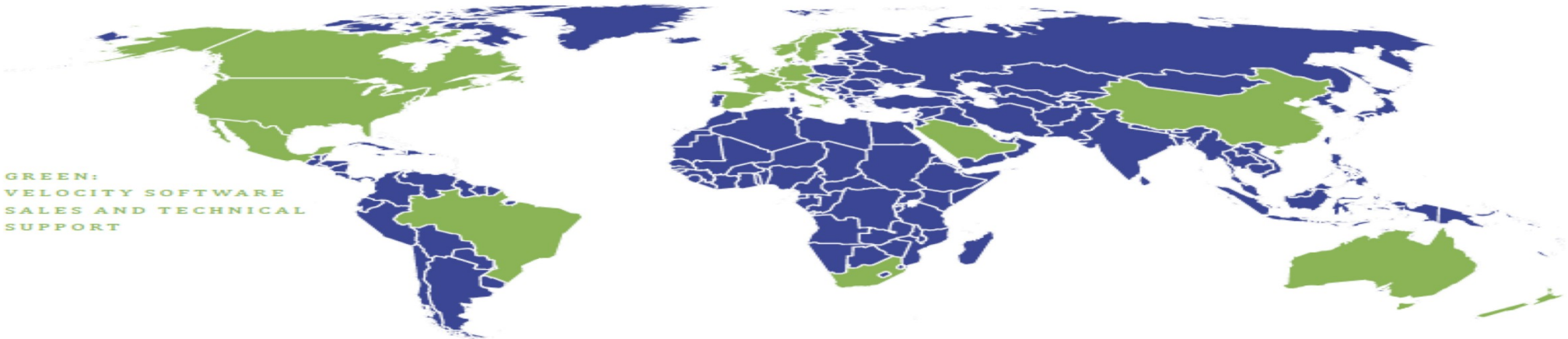
Over 200 installations of zVPS

- More than half of the IFLs worldwide

Headquartered in Mountain View, California

- With offices in Ohio, Texas, Wisconsin, and Germany

Velocity Software's Sales and Technical Support Map



To get a look at how the systems are performing

Very large and complex systems
- Different operating systems
- Hundreds of users, jobs, and tasks
- All can interact differently at various points

Important to get as detailed a view as possible

Monitoring can be equally simple or complex

LPAR Displays

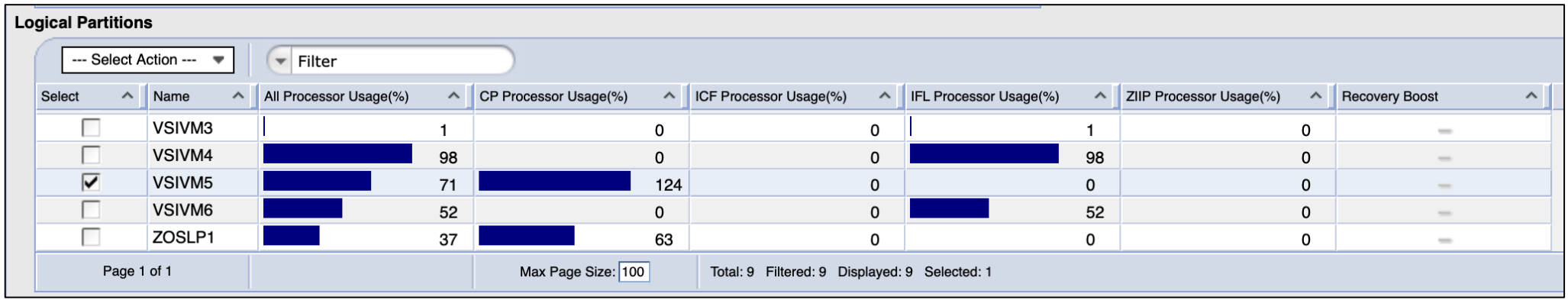
z/VM Commands

MONVSE (from Mike Poil)

VSE Navigator

zVPS

LPAR Level


Logical Partitions
--- Select Action ---
Filter
Select
Name
All Processor Usage(%)
CP Processor Usage(%)
ICF Processor Usage(%)
IFL Processor Usage(%)
ZIIP Processor Usage(%)
Recovery Boost
VSIVM3 1 0 0 1 0
VSIVM4 98 0 0 98 0
VSIVM5 71 124 0 0 0
VSIVM6 52 0 0 52 0
ZOSLP1 37 63 0 0 0
Page 1 of 1
Max Page Size: 100
Total: 9 Filtered: 9 Displayed: 9 Selected: 1

Most VSE environments run under z/VM

- z/VM provides some simple tools

```
ind
AVGPROC-029% 0005
MDC READS-000009/SEC WRITES-000001/SEC HIT RATIO-073%
PAGING-76/SEC
Q0-00002(00000)                              DORMANT-00046
Q1-00001(00000)            E1-00000(00000)
Q2-00001(00000) EXPAN-002 E2-00000(00000)
Q3-00018(00000) EXPAN-002 E3-00000(00000)

PROC 0000-074% CP   VM     PROC 0007-000% IFL  VM
PROC 0002-074% CP   VM     PROC 0004-000% ZIIP VM
PROC 0006-000% IFL  VM

LIMITED-00000
```

```
ind user vsen64c exp

Userid=VSEN64C  Mach=ESA  V=V  Attached xstore=---
Iplsys=DEV 0130  Devnum=23  SecureIpl=NO
Spool:  Reads=84  Writes=2739
Owned spaces:  Number=1 Owned size=256M
Pages:  LockedReal=6  LockedLogical=3
  Primary space:  ID=VSEN64C:BASE  PRIVATE
    Defined size=256M  Address limit=256M
  Private spaces:  Number=1  Owned size=256M
    Pages:  Main=7185  Xstore=---  Dasd=19231
            Instan=20619
            WS=7253  Reserved=0
            ResidentLogical=25  LockedLogical=3
  Shared spaces:   Number=0  Owned size=0
    Pages:  Main=0  Xstore=---  Dasd=0
            Instan=0
            ResidentLogical=0  LockedLogical=0
  Private paging:
    Xstore:  Reads=---        Writes=---        Migrates=---
    Dasd:    Reads=2694848    Writes=1539584
  Shared paging:
    Xstore:  Reads=---        Writes=---        Migrates=---
    Dasd:    Reads=      0    Writes=      0
Vconfig:  Mode=ESA390
CPU 00: Ctime=9 01:36:08  Vtime=0 08:34:11  Ttime=0 08:53:48
        Rdr=5718  Prt=75374  Pch=0  IO=5727693
        Type=CP  CPUAffinity=ON
        VtimePrimary=0 08:34:11    TtimePrimary=0 08:53:48
        VtimeSecondary=0 00:00:00  TtimeSecondary=0 00:00:00
```

VSE Functions for Monitoring

```
IESADMDA          DISPLAY SYSTEM ACTIVITY              15 Seconds  12:44:07
*---- SYSTEM (CPUs:  1 /  0 ) ----* *------------ OLTP : DBDCCICS ------------*
|CPU    :    34%   IO/s :      *  | |No. Tasks:   4,800   Per Second :   0.2  |
|Page In:      0   PIn/s:      *  | |Dispatchable:    0   Suspended  :     3  |
|Page Ou:      0   POu/s:      *  | |Curr. Active:    4   MXT reached:     0  |
*-------------------------------* *-----------------------------------------*
Priority: P,Y,F4=F5=F6=F7=F8=F9=FA=BG,O,F2,R,Z,T,F3,FB,F1

 ID S JOB NAME  PHASE NAME  ELAPSED     CPU TIME   OVERHEAD   %CPU      I/O
 F1 1 POWSTART    IPWPOWER 2664:22:49   1,320.37     335.87          1,504,335
 FB B SECSERV     BSTPSTS  2664:22:50       6.15       1.35              7,619
 F3 3 VTAMSTRT    ISTINCVT 2664:22:39     569.09     139.99              3,556
 F2 2 CICSICCF    DFHSIP   2664:22:36   2,915.40     696.62             41,650
 BG 0 <=WAITING FOR WORK=>                 .00        .00
 FA A <=WAITING FOR WORK=>                 .00        .00
 F9 9 <=WAITING FOR WORK=>                 .00        .00
 F8 8 <=WAITING FOR WORK=>                 .00        .00
 F7 7 <=WAITING FOR WORK=>                 .00        .00
 F6 6 <=WAITING FOR WORK=>                 .00        .00
 F5 5 <=WAITING FOR WORK=>                 .00        .00
 F4 4 <=WAITING FOR WORK=>                 .00        .00
PF1=HELP      2=PART.BAL.   3=END        4=RETURN     5=DYN.
```

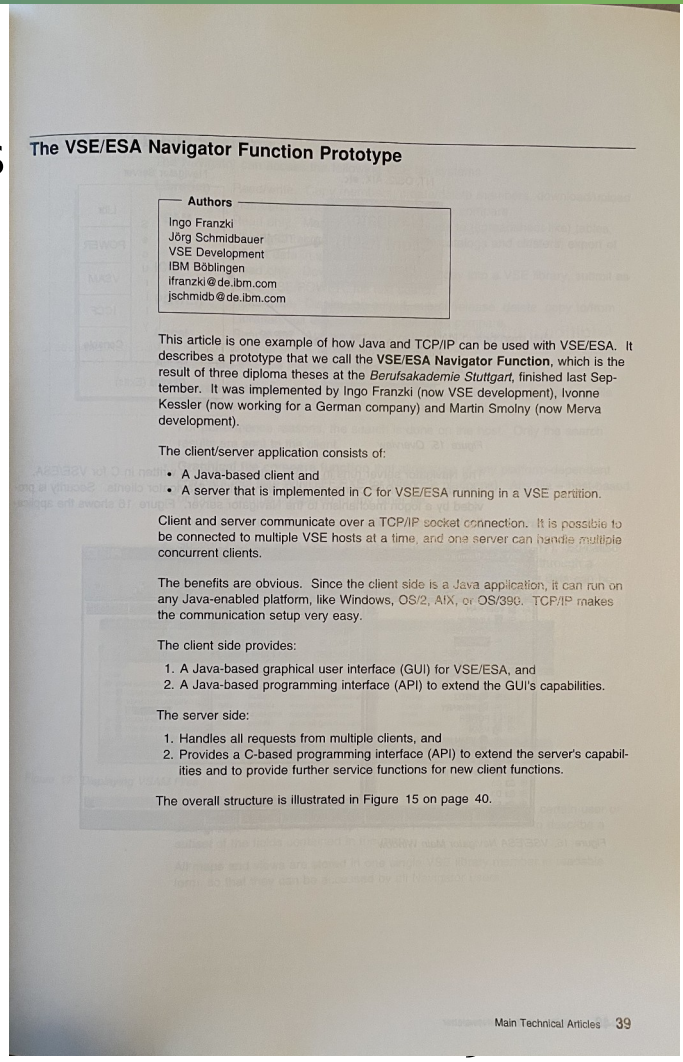
```
IESADMDDC                DISPLAY DYNAMIC CLASSES          16 Seconds  12:45:00
                                                            Page 1 of 1
Enter selected class and press ENTER:

 DYNAMIC    NUMBER OF     ACTIVE        CPU TIME    OVERHEAD    %CPU       I/O
  CLASS     PARTITIONS    PARTITIONS
    T           3             3        56,567.48    3,647.40                1,344
    Z           1             1            13.90        .26                   991
    R           3             2         2,628.33      741.42                   803
    O           1             1       999,999.99   30,148.12     45%       186,277
    Y           8                           .00        .00
    P           1                           .00        .00

Select Dynamic Class:

PF1=HELP                        3=END      4=RETURN
```

VELOCITY SOFTWARE

VSE Navigator

- Desktop based application for VSE functions
- Uses the VSE Connector Server
  - Java programs that interface with VSE
- Can connect to multiple VSE systems
- Display spool queues and data
- Library and member display
- ICCF display
- … lots more
- Including graphical display system activity

VELOCITY SOFTWARE



The VSE/ESA Navigator Function Prototype

Authors
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Jörg Schmidbauer
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IBM Böblingen
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jschmidb@de.ibm.com

This article is one example of how Java and TCP/IP can be used with VSE/ESA. It describes a prototype that we call the **VSE/ESA Navigator Function**, which is the result of three diploma theses at the *Berufsakademie Stuttgart*, finished last September. It was implemented by Ingo Franzki (now VSE development), Ivonne Kessler (now working for a German company) and Martin Smolny (now Merva development).

The client/server application consists of:

- A Java-based client and
- A server that is implemented in C for VSE/ESA running in a VSE partition.

Client and server communicate over a TCP/IP socket connection. It is possible to be connected to multiple VSE hosts at a time, and one server can handle multiple concurrent clients.

The benefits are obvious. Since the client side is a Java application, it can run on any Java-enabled platform, like Windows, OS/2, AIX, or OS/390. TCP/IP makes the communication setup very easy.

The client side provides:

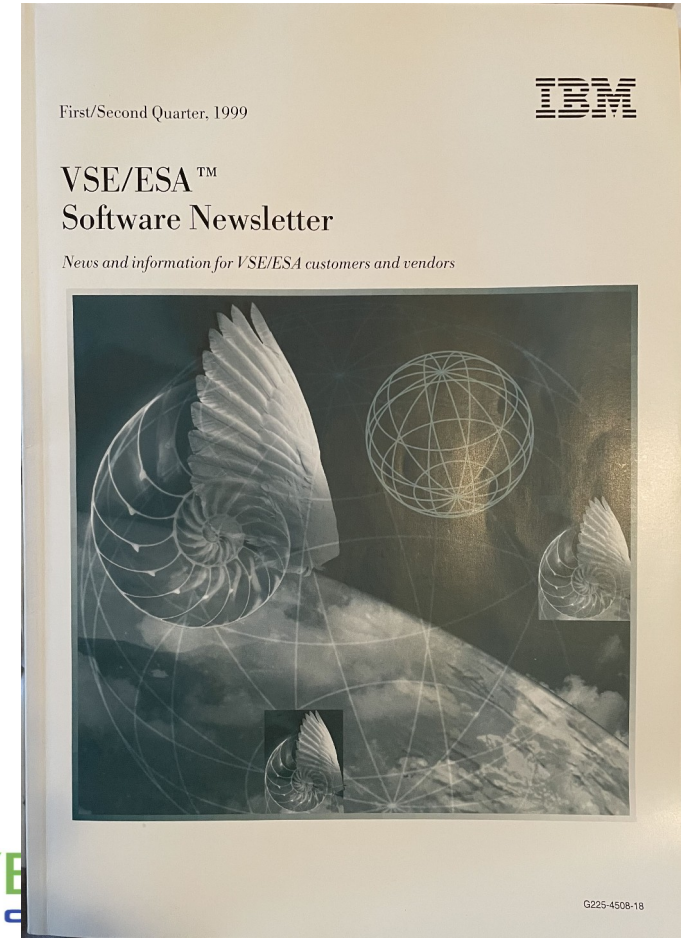
1. A Java-based graphical user interface (GUI) for VSE/ESA, and
2. A Java-based programming interface (API) to extend the GUI's capabilities.

The server side:

1. Handles all requests from multiple clients, and
2. Provides a C-based programming interface (API) to extend the server's capabilities and to provide further service functions for new client functions.

The overall structure is illustrated in Figure 15 on page 40.

VSE Navigator – Introductory article



First/Second Quarter, 1999

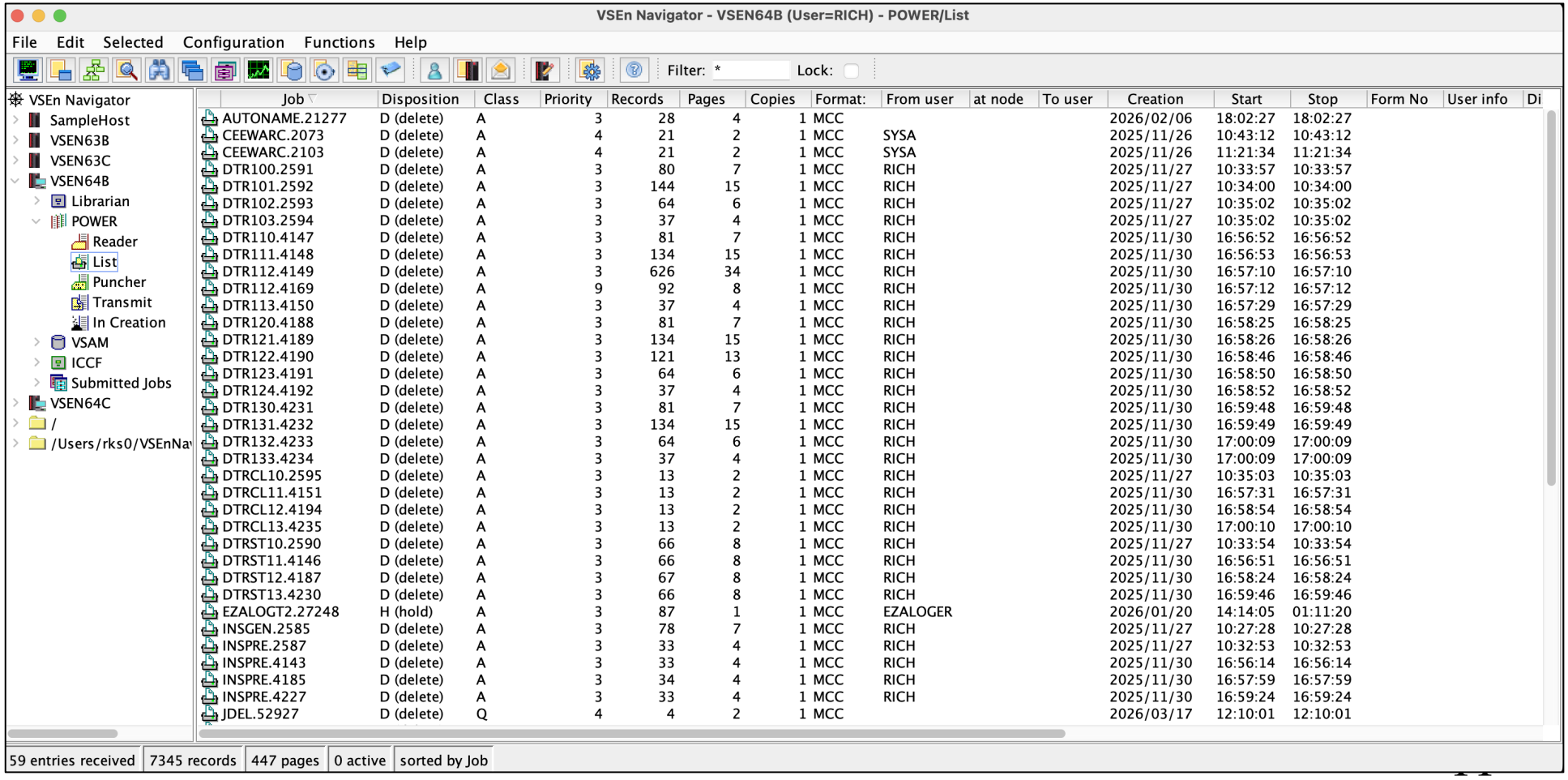
IBM

VSE/ESA™
Software Newsletter

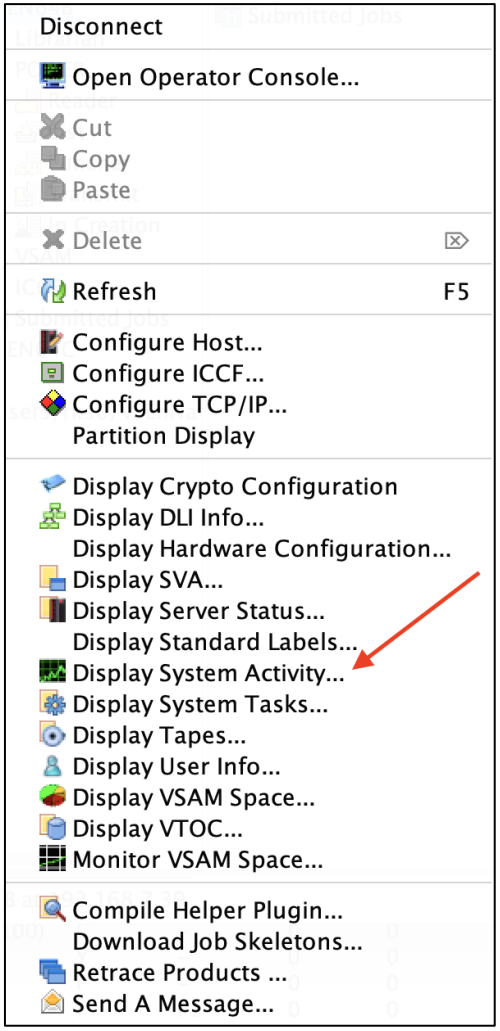
News and information for VSE/ESA customers and vendors

G225-4508-18

VSE Navigator – Spool Display

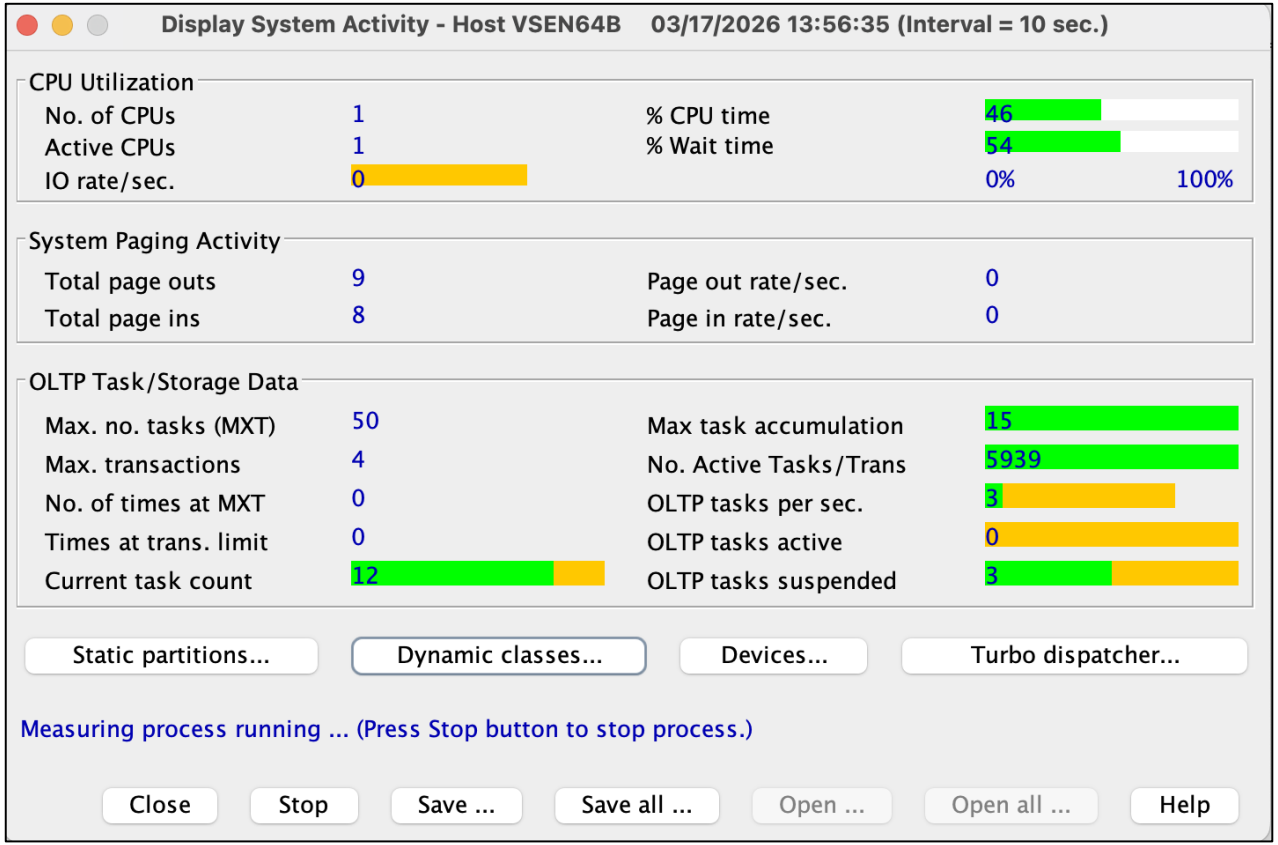


VSE Navigator – List of Functions

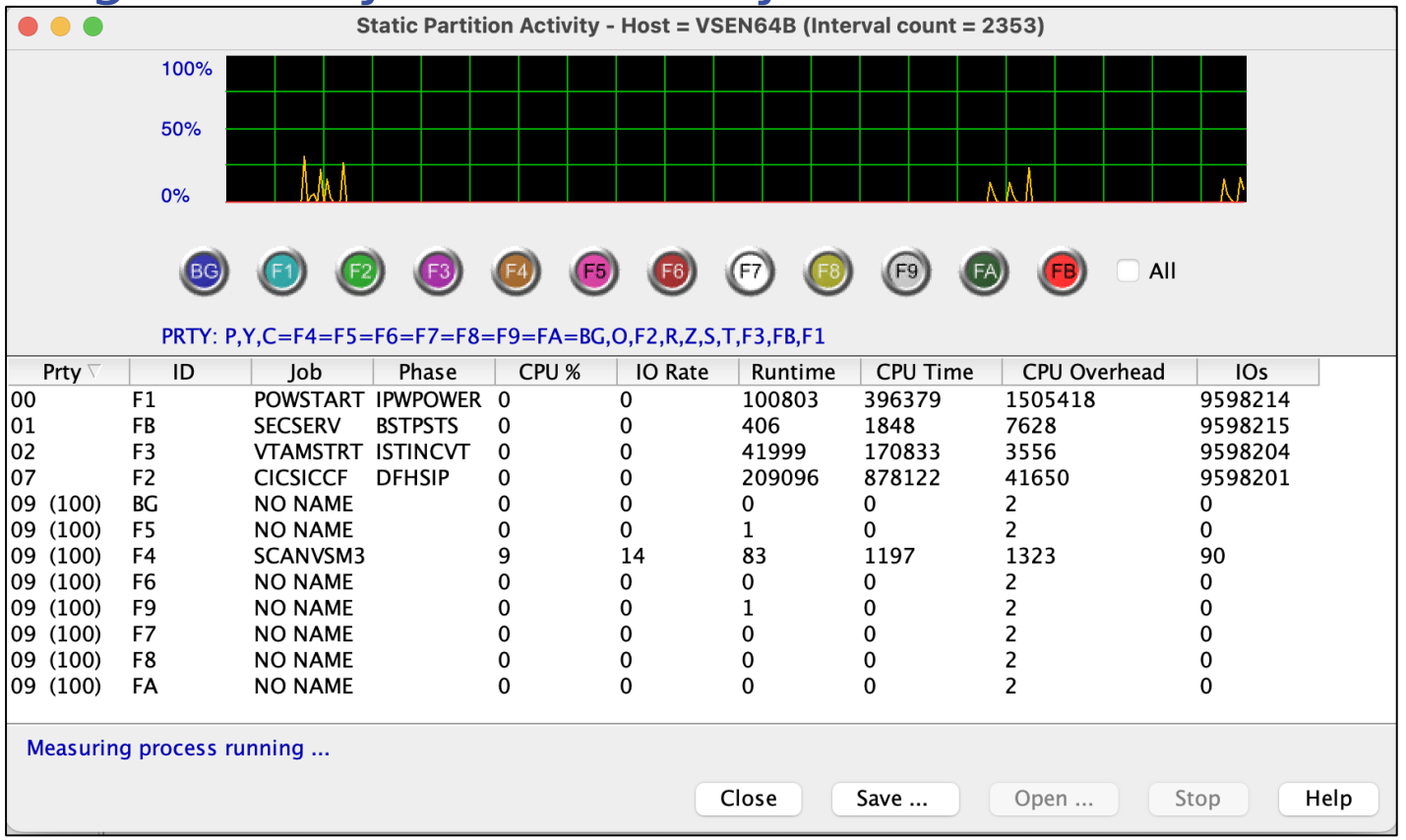


VELOCITY SOFTWARE

VSE Navigator – System Activity



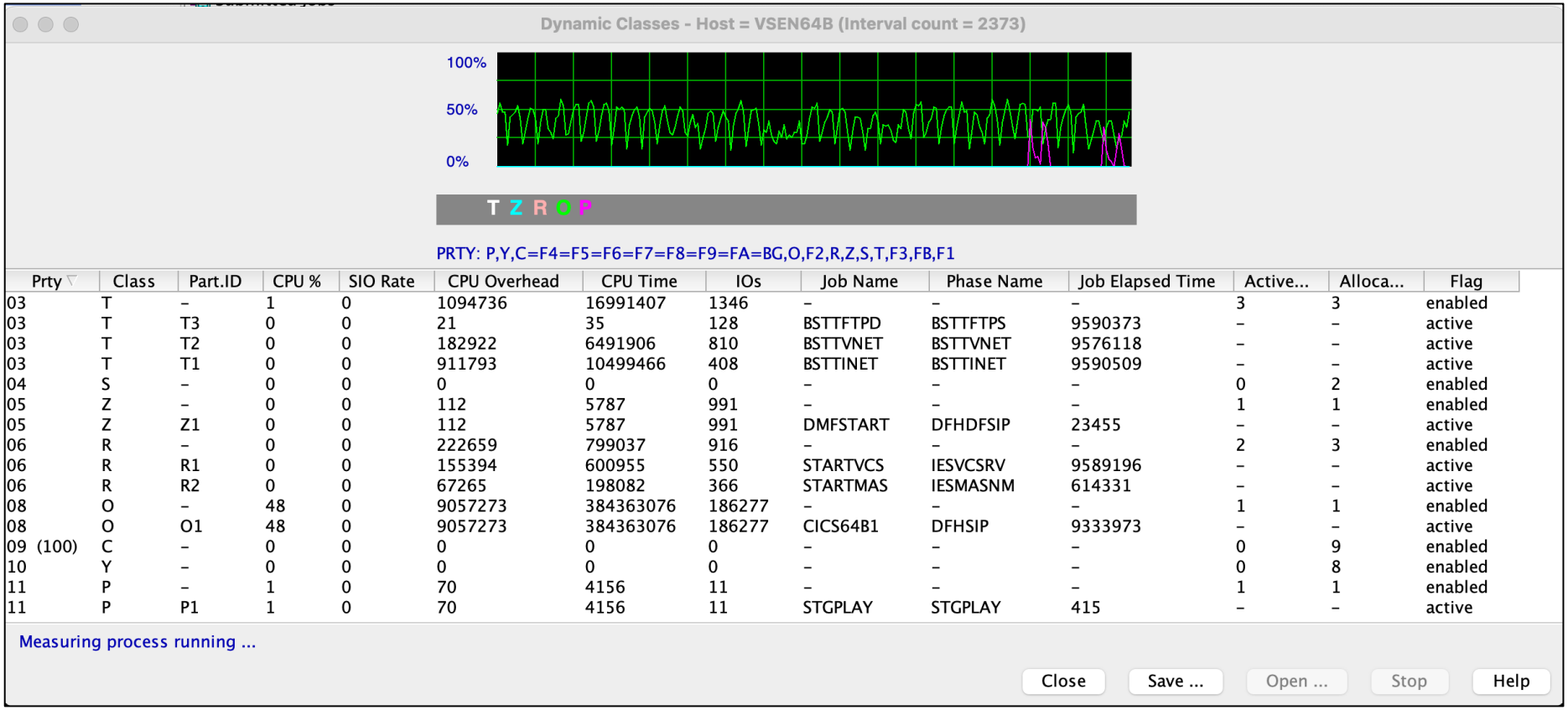
VSE Navigator – System Activity



Prty	ID	Job	Phase	CPU %	IO Rate	Runtime	CPU Time	CPU Overhead	IOs
00	F1	POWSTART	IPWPOWER	0	0	100803	396379	1505418	9598214
01	FB	SECSERV	BSTPSTS	0	0	406	1848	7628	9598215
02	F3	VTAMSTRT	ISTINCVT	0	0	41999	170833	3556	9598204
07	F2	CICSICCF	DFHSIP	0	0	209096	878122	41650	9598201
09 (100)	BG	NO NAME		0	0	0	0	2	0
09 (100)	F5	NO NAME		0	0	1	0	2	0
09 (100)	F4	SCANVSM3		9	14	83	1197	1323	90
09 (100)	F6	NO NAME		0	0	0	0	2	0
09 (100)	F9	NO NAME		0	0	1	0	2	0
09 (100)	F7	NO NAME		0	0	0	0	2	0
09 (100)	F8	NO NAME		0	0	0	0	2	0
09 (100)	FA	NO NAME		0	0	0	0	2	0

VELOCITY SOFTWARE

VSE Navigator – System Activity



Prty	Class	Part.ID	CPU %	SIO Rate	CPU Overhead	CPU Time	IOs	Job Name	Phase Name	Job Elapsed Time	Active...	Alloca...	Flag
03	T	–	1	0	1094736	16991407	1346	–	–	–	3	3	enabled
03	T	T3	0	0	21	35	128	BSTTFTPD	BSTTFTPS	9590373	–	–	active
03	T	T2	0	0	182922	6491906	810	BSTTVNET	BSTTVNET	9576118	–	–	active
03	T	T1	0	0	911793	10499466	408	BSTTINET	BSTTINET	9590509	–	–	active
04	S	–	0	0	0	0	0	–	–	–	0	2	enabled
05	Z	–	0	0	112	5787	991	–	–	–	1	1	enabled
05	Z	Z1	0	0	112	5787	991	DMFSTART	DFHDFSIP	23455	–	–	active
06	R	–	0	0	222659	799037	916	–	–	–	2	3	enabled
06	R	R1	0	0	155394	600955	550	STARTVCS	IESVCSRV	9589196	–	–	active
06	R	R2	0	0	67265	198082	366	STARTMAS	IESMASNM	614331	–	–	active
08	O	–	48	0	9057273	384363076	186277	–	–	–	1	1	enabled
08	O	O1	48	0	9057273	384363076	186277	CICS64B1	DFHSIP	9333973	–	–	active
09 (100)	C	–	0	0	0	0	0	–	–	–	0	9	enabled
10	Y	–	0	0	0	0	0	–	–	–	0	8	enabled
11	P	–	1	0	70	4156	11	–	–	–	1	1	enabled
11	P	P1	1	0	70	4156	11	STGPLAY	STGPLAY	415	–	–	active

VELOCITY SOFTWARE

IBM introduced SNMP with z/VSE 4.3

- Announced in 2010
- Since we use SNMP for Linux, it was a natural addition

Velocity Software

- Introduced z/VSE monitoring
- Based on SNMP ‘plugins’ provided by IBM
- Added our partition plugin in 2014
  - Displays partition and job information as jobs are running

Added additional VSE support (2019-2020)

Introduced VSEMON

- Updated partition monitoring
- CICS monitoring
- TCP/IP stack monitoring

Updated partition monitoring

- Step/Job ends more closely tracked
- Performance improvements in the VSI plugin
  - One SNMP call per active partition

ESAVSEP - VSE Partition Performance - VM5

Time	Node	Part Id	Job Name	Phase Name	<- CPU% -> CPU	Ovhd	<----- I/O -----> Disk	VDisk	Other	Rtrn Code	Cncl Code	<---- Start ----> Date	Time	Stop Time	User Info	Prty	Share	Job Num
14:43:00	vsen64b		Totals		42.7	0.7	0	0	0									
14:43:00	vsen64b	F1	POWSTART	IPWPOWER	0.0	0	0	0	0			11/26/25	11:21:18			1	0	0
14:43:00	vsen64b	FB	SECSERV	BSTPSTS	0	0	0	0	0			11/26/25	11:21:16			2	0	0
14:43:00	vsen64b	F3	VTAMSTRT	ISTINCVT	0.0	0	0	0	0			11/26/25	11:21:27		SYSA	3	0	2101
14:43:00	vsen64b	T1	BSTTINET	BSTTINET	0.7	0.0	0	0	0			11/26/25	13:33:07			4	0	2159
14:43:00	vsen64b	T2	BSTTVNET	BSTTVNET	0.5	0.0	0	0	0			11/26/25	17:32:59			4	0	2253
14:43:00	vsen64b	T3	BSTTFTPD	BSTTFTPS	0	0	0	0	0			11/26/25	13:35:24			4	0	2161
14:43:00	vsen64b	Z1	DMFSTART	DFHDFSIP	0.1	0.0	0	0	0			03/17/26	08:04:50			5	0	52845
14:43:00	vsen64b	R1	STARTVCS	IESVCSRV	0.5	0.0	0	0	0			11/26/25	13:55:00			6	0	2173
14:43:00	vsen64b	R2	STARTMAS	IESMASNM	0.1	0.0	0	0	0			03/10/26	11:56:04			6	0	49698
14:43:00	vsen64b	F2	CICSICCF	DFHSIP	0.2	0.0	0	0	0			11/26/25	11:21:35		SYSA	7	0	2102
14:43:00	vsen64b	01	CICS64B1	DFHSIP	40.7	0.6	0	0	0			11/29/25	12:48:44			8	0	3596

VELOCITY SOFTWARE

CICS monitoring

- DMF records generated by CICS (rectype 110)
- Velocity provides an exit that runs in the DMF partition to route CICS data to z/VM
- All other processing is performed on z/VM, saving precious GP CPU time
- Customers have the option to bypass the writing of the DMF data

ESAVSEP - VSE Partition Performance - VM2

Time	Node	Part Id	Job Name	Phase Name	<- CPU% -> CPU	Ovhd	<----- I/O -----> Disk	VDisk	Other	Rtrn Code	Cncl Code	<---- Start ----> Date	Time	Stop Time	User Info	Prty	Share
07:10:00	zvse61b	Z1	DMFSTART	DFHDFSIP	0.2	0.0	0	0	1.0			01/20/20	07:27:55			6	0
07:10:00	zvse62b	Z1	DMFSTART	DFHDFSIP	0.2	0.0	0	0	1.0			01/29/20	04:21:55			6	0
07:10:00	zvse62c	Z1	DMFSTART	DFHDFSIP	0.2	0.0	50.0	0	1.0			01/23/20	05:17:55			5	0

61b=6.8, 62b=10.7, 62c=8.8
sustained total 650.000=700.000/day

VELOCITY SOFTWARE

TCP/IP monitoring

- Additional plugin written for each TCP/IP stack vendor

VSEMON Requirements

- z/VSE 5.1+ for VSE system and partition data
- z/VSE 5.2+ for CICS
- z/VSE 6.1+ for TCP/IP data
- VSE^{n} 6.3/6.4 from 21st Century Software
- VSE supplied SNMP agent with our plugins
  - Partition plugin
  - TCP/IP plugin, based on the stack in use
- BSI stack must be 258pre24 or higher
- CSI stack
  - TCP/IP for z/VSE 2.28 (strongly suggested)
  - See Server must also be configured and running
- For CICS, DMF must be running
  - Set to one minute interval
- CICS Performance and Statistics turned on
  - Set to one minute interval

VELOCITY SOFTWARE

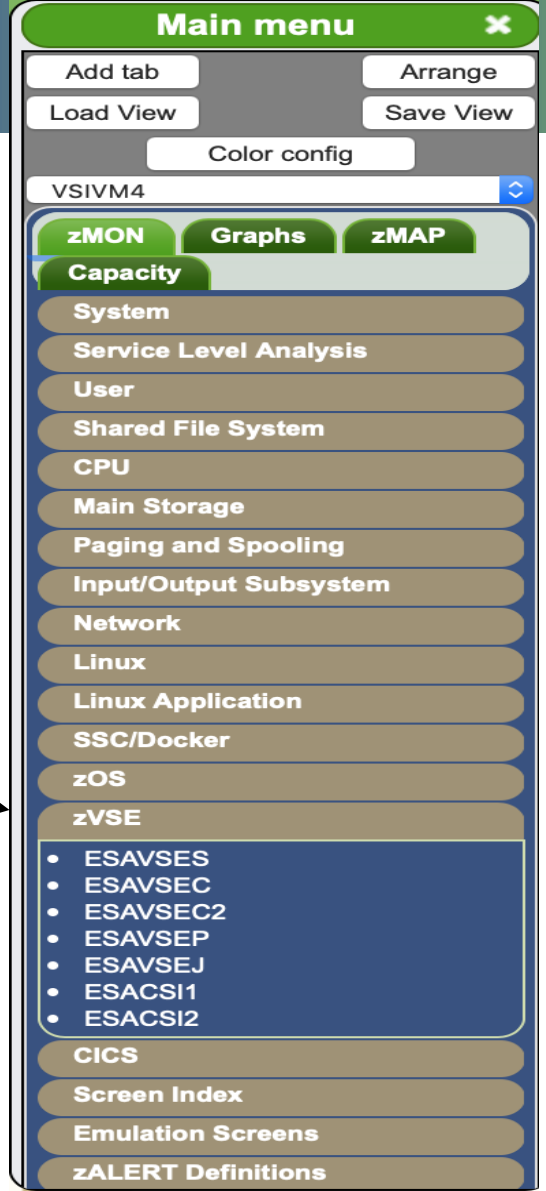
Provided as a ZVPS installation package

- Download from the website

When installed...

- A top level SFS directory is created (VMSYSVPS:VSEMON.)
- Transfer the BJB file to VSE
  - Respond to the SETPARM prompt
- Samples added to VMSYSVPS:VSEMON.
  - STARTMAS JCL, IESMASCF.Z, VSIDMF config

VSE Menu



VELOCITY SOFTWARE

ESAVSES - VSE System Configuration - VM5

Time	Node	<---z/VM---> VirtID	Lvl	<LogicalPart> Name	Nbr	<--------CPU model--------> <IBM/<Model>/CPs/ Serial	<--Partitions--> Max	Cur	Stat	Dyn	<----CPU Counts----> Tot	Actv	Quies	Inact
14:55:00	vsen63b	VSEN63B	1	VSIVM5		IBM 8562-A02 02 (40F7802)	80	19	12	7	2	2	0	0
14:55:00	vsen63c	VSEN63C	1	VSIVM5		IBM 8562-A02 02 (40F7802)	80	16	12	4	1	1	0	0
14:55:00	vsen64b	VSEN64B	1	VSIVM5		IBM 8562-A02 02 (40F7802)	80	19	12	7	1	1	0	0
14:55:00	vsen64c	VSEN64C	1	VSIVM5		IBM 8562-A02 02 (40F7802)	80	18	12	6	1	1	0	0
14:55:00	vsen64e	VSEN64E	1	VSIVM5		IBM 8562-A02 02 (40F7802)	80	18	12	6	1	1	0	0

ESAVSEC - VSE System Performance - VM5

Time	Node	<-CPU Utilization> Total	Mstr	Spin	<-Partn CPU> Total	Ovhd	Capture Ratio	Pages/Sec In	Out	<Rate/Sec> SVC	Disp	All Bound	Pct NonP	Seconds	Samples
14:55:00	vsen63b	0.8	0.4	0	0.6	0.3	102.5	0	0	313	407.3	182.3	48.6	60.0	1
14:55:00	vsen63c	1.2	0.8	0	0.9	0.2	95.1	0	0	556	437.7	94.8	63.2	60.0	1
14:55:00	vsen64b	33.3	1.4	0	32.7	0.6	100.0	0	0	1626	1326	21.7	4.3	60.0	1
14:55:00	vsen64c	32.7	1.5	0	32.0	0.5	99.5	0	0	1645	1287	17.5	4.6	59.7	1
14:55:00	vsen64e	0.6	0.4	0	0.5	0.1	100.1	0	0	277	304.4	92.5	62.0	60.0	1

ESAVSEC2 - VSE System Performance per CPU - VSIVM5

Time	Node	CPU	Disp /Sec	<CPU Utilization> Total	Mstr	Spin	All Bound	Pct NP	Seconds	Samples
14:55:00	vsen63b	0	221	0.5	0.2	0.0	90.7	45.3	60	1
14:55:00	vsen63b	1	188	0.3	0.2	0	91.5	52.9	60	1
14:55:00	vsen63c	0	438	1.2	0.8	0	94.8	63.3	60	1
14:55:00	vsen64b	0	1325	33.3	1.4	0	21.7	4.3	60	1
14:55:00	vsen64c	0	1288	32.7	1.5	0	17.5	4.6	60	1
14:55:00	vsen64e	0	304	0.6	0.4	0	92.5	62.0	60	1

Parameters

ESAVSEC Parameters

Start Date	26/03/17
Start Time	12:00
End Date	26/03/17
End Time	12:30
User Class	
Node name	vsen64b
Click to build direct URL	Build URL

Submit Reset Restart

ESAVSEC - VSE System Performance - VM5

Time	Node	<-CPU Utilization> Total	Mstr	Spin	<-Partn CPU> Total	Ovhd	Capture Ratio	Pages/Sec In	Out	<Rate/Sec> SVC	Disp	All Bound	Pct NonP	Seconds	Samples
12:31:00	vsen64b	60.4	2.2	0	59.7	0.9	100.4	0	0	1791	1581	0.1	3.7	60.2	1
12:30:00	vsen64b	63.5	1.5	0	62.8	0.7	100.0	0	0	1774	1471	0	2.4	60.0	1
12:29:00	vsen64b	58.3	1.8	0	57.4	0.9	99.8	0	0	1795	1583	0.7	3.1	60.0	1
12:28:00	vsen64b	41.5	1.5	0	41.1	0.6	100.5	0	0	1672	1386	22.3	3.5	60.3	1
12:27:00	vsen64b	40.8	1.5	0	39.9	0.6	99.4	0	0	1734	1430	23.3	3.7	59.7	1
12:26:00	vsen64b	42.7	1.6	0	42.1	0.7	100.1	0	0	1783	1476	25.8	3.6	60.1	1
12:25:00	vsen64b	46.8	1.5	0	46.0	0.6	99.8	0	0	1754	1458	21.8	3.3	59.9	1
12:24:00	vsen64b	42.3	1.6	0	41.8	0.7	100.5	0	0	1832	1516	28.1	3.7	60.3	1
12:23:00	vsen64b	43.2	1.8	0	42.3	0.7	99.6	0	0	1917	1571	23.6	4.1	59.8	1
12:22:00	vsen64b	43.9	1.6	0	43.3	0.6	100.0	0	0	1748	1448	23.9	3.5	60.0	1
12:21:00	vsen64b	39.6	1.6	0	39.0	0.7	100.2	0	0	1814	1501	27.0	4.0	60.2	1
12:20:00	vsen64b	37.7	1.4	0	37.0	0.6	99.5	0	0	1592	1304	19.8	3.8	59.7	1
12:19:00	vsen64b	31.0	1.3	0	30.6	0.5	100.1	0	0	1455	1184	17.3	4.2	60.0	1
12:18:00	vsen64b	41.2	1.5	0	40.6	0.6	100.2	0	0	1738	1439	24.9	3.7	60.1	1
12:17:00	vsen64b	34.8	1.5	0	34.2	0.6	99.9	0	0	1664	1359	23.2	4.2	60.0	1
12:16:00	vsen64b	37.4	1.5	0	36.8	0.6	99.9	0	0	1693	1390	21.3	4.1	60.0	1
12:15:00	vsen64b	48.8	3.6	0	47.6	1.2	99.9	0	0	5478	2445	17.1	7.4	60.0	1
12:14:00	vsen64b	41.2	4.4	0	39.6	1.4	99.5	0	0	6079	2872	5.4	10.7	60.0	1
12:13:00	vsen64b	40.3	4.3	0	38.7	1.4	99.7	0	0	6623	2760	3.1	10.8	60.1	1
12:12:00	vsen64b	28.7	1.3	0	28.0	0.5	99.5	0	0	1522	1226	16.0	4.6	59.8	1
12:11:00	vsen64b	32.2	1.3	0	31.7	0.6	100.2	0	0	1449	1176	14.3	4.2	60.2	1
12:10:00	vsen64b	51.9	5.5	0	50.3	1.7	100.1	0	0	8312	3314	8.9	10.7	60.1	1
12:09:00	vsen64b	49.6	6.2	0	47.6	1.9	99.8	0	0	9009	3579	4.7	12.4	60.0	1
12:08:00	vsen64b	49.5	6.2	0	47.5	1.9	99.8	0	0	8951	3609	4.3	12.5	60.0	1
12:07:00	vsen64b	49.7	5.7	0	47.7	1.8	99.6	0	0	8510	3390	3.8	11.5	59.8	1
12:06:00	vsen64b	40.7	1.5	0	40.1	0.6	100.1	0	0	1734	1434	24.0	3.7	60.0	1
12:05:00	vsen64b	43.1	1.6	0	42.4	0.7	99.9	0	0	1796	1489	24.9	3.7	59.9	1
12:04:00	vsen64b	46.0	1.5	0	45.3	0.6	99.9	0	0	1745	1448	22.2	3.4	60.0	1
12:03:00	vsen64b	42.4	1.6	0	41.7	0.6	99.9	0	0	1768	1464	26.2	3.7	60.0	1
12:02:00	vsen64b	39.1	1.4	0	38.5	0.6	100.0	0	0	1630	1338	22.7	3.6	60.0	1
12:01:00	vsen64b	37.4	1.6	0	36.9	0.6	100.3	0	0	1653	1367	22.6	4.2	60.2	1

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VSE Job Activity

ESAVSEP - VSE Partition Performance - VSIVM5

Time	Node	Part Id	Job Name	Phase Name	<- CPU% -> CPU	Ovhd	<----- I/O -----> Disk	VDisk	Other	Rtrn Code	Cncl Code	<---- Start ----> Date	Time	Stop Time	User Info	Prty	Share	Job Num
15:01:00	vsen63b		Totals		0.6	0.3	142.0	0	15.0									
15:01:00	vsen63b	F1	POWSTART	IPWPOWER	0.0	0.0	102.0	0	3.0			02/06/25	13:29:45			1	0	0
15:01:00	vsen63b	FB	SECSERV	BSTPSTS	0	0	0	0	0			02/06/25	13:29:44			2	0	0
15:01:00	vsen63b	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			02/06/25	13:29:49		SYSA	3	0	10720
15:01:00	vsen63b	T1	BSTTINET	BSTTINET	0.2	0.1	0	0	0			11/14/25	06:52:15			4	0	7535
15:01:00	vsen63b	T2	BSTTVNET	BSTTVNET	0.0	0.0	0	0	0			11/14/25	08:05:41			4	0	7571
15:01:00	vsen63b	T3	BSTTFTPD	BSTTFTPS	0	0	0	0	0			11/14/25	08:06:24			4	0	7570
15:01:00	vsen63b	Z1	DMFSTART	DFHDFSIP	0.1	0.1	0	0	0			11/14/25	08:07:51			5	0	7572
15:01:00	vsen63b	R1	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			11/14/25	08:09:59			6	0	7574
15:01:00	vsen63b	R2	STARTMAS	IESMASNM	0.1	0.0	0	0	0			03/10/26	11:53:50			6	0	725
15:01:00	vsen63b	F2	CICSICCF	DFHSIP	0.0	0.0	0	0	0			02/06/25	13:29:53		SYSA	7	0	10721
15:01:00	vsen63b	O1	CICSNB01	DFHSIP	0.1	0.0	0	0	0			11/25/25	09:22:41			8	0	13218
15:01:00	vsen63b	BG	JDEL	DTRIATTN	0.0	0.0	40.0	0	12.0	0	10	03/17/26	15:00:01	15:00:01		9	0	4513
15:01:00	vsen63c		Totals		0.5	0.1	22.0	0	0									
15:01:00	vsen63c	F1	POWSTART	VSIPOWER	0.1	0.0	22.0	0	0			03/09/26	13:30:54			1	0	0
15:01:00	vsen63c	FB	SECSERV	BSTPSTS	0	0	0	0	0			03/09/26	13:30:53			2	0	0
15:01:00	vsen63c	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			03/09/26	13:31:00		SYSA	3	0	22096
15:01:00	vsen63c	T1	TCPIP00	IPNET	0.2	0.1	0	0	0			03/09/26	13:31:02			4	0	22099
15:01:00	vsen63c	S1	SVSESRVR	SVSESRVR	0.0	0.0	0	0	0			03/09/26	13:31:08			5	0	22100
15:01:00	vsen63c	R1	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			03/09/26	13:31:13			7	0	22102
15:01:00	vsen63c	R2	STARTMAS	IESMASNM	0.1	0.0	0	0	0			03/10/26	11:54:51			7	0	25312
15:01:00	vsen63c	F2	CICSICCF	DFHSIP	0.0	0.0	0	0	0			03/09/26	13:31:04		SYSA	8	0	22097
15:01:00	vsen64b		Totals		34.8	1.4	5001	0	49.0									
15:01:00	vsen64b	F1	POWSTART	IPWPOWER	0.0	0.0	9.0	0	1.0			11/26/25	11:21:18			1	0	0
15:01:00	vsen64b	FB	SECSERV	BSTPSTS	0	0	0	0	0			11/26/25	11:21:16			2	0	0
15:01:00	vsen64b	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			11/26/25	11:21:27		SYSA	3	0	2101
15:01:00	vsen64b	T1	BSTTINET	BSTTINET	0.6	0.0	0	0	0			11/26/25	13:33:07			4	0	2159
15:01:00	vsen64b	T2	BSTTVNET	BSTTVNET	0.4	0.0	0	0	0			11/26/25	17:32:59			4	0	2253
15:01:00	vsen64b	T3	BSTTFTPD	BSTTFTPS	0	0	0	0	0			11/26/25	13:35:24			4	0	2161
15:01:00	vsen64b	Z1	DMFSTART	DFHDFSIP	0.1	0.0	0	0	0			03/17/26	08:04:50			5	0	52845
15:01:00	vsen64b	R1	STARTVCS	IESVCSRV	0.4	0.0	0	0	0			11/26/25	13:55:00			6	0	2173
15:01:00	vsen64b	R2	STARTMAS	IESMASNM	0.1	0.0	0	0	0			03/10/26	11:56:04			6	0	49698
15:01:00	vsen64b	F2	CICSICCF	DFHSIP	0.2	0.0	0	0	0			11/26/25	11:21:35		SYSA	7	0	2102
15:01:00	vsen64b	O1	CICS64B1	DFHSIP	27.4	0.9	0	0	0			11/29/25	12:48:44			8	0	3596
15:01:00	vsen64b	F4	2 Job	steps V	5.6	0.4	4992	0	48.0							9	100	
15:01:00	vsen64c		Totals		29.2	0.5	43.0	0	0									
15:01:00	vsen64c	F1	POWSTART	VSIPOWER	0.0	0.0	22.0	0	0			03/08/26	10:30:21			1	0	0
15:01:00	vsen64c	FB	SECSERV	BSTPSTS	0.0	0	0	0	0			03/08/26	10:30:20			2	0	0
15:01:00	vsen64c	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			03/08/26	10:30:26		SYSA	3	0	11866
15:01:00	vsen64c	T1	TCPIP00	IPNET	1.4	0.0	0	0	0			03/08/26	10:30:29			4	0	11869
15:01:00	vsen64c	S1	SVSESRVR	SVSESRVR	0.0	0.0	0	0	0			03/08/26	10:30:35			5	0	11871
15:01:00	vsen64c	Z1	DMFSTART	DFHDFSIP	0.1	0.0	21.0	0	0			03/08/26	10:30:50			6	0	11874
15:01:00	vsen64c	R1	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			03/17/26	07:18:48			7	0	41439
15:01:00	vsen64c	R2	STARTMAS	IESMASNM	0.1	0.0	0	0	0			03/10/26	11:56:50			7	0	18769
15:01:00	vsen64c	F2	CICSICCF	DFHSIP	0.2	0.0	0	0	0			03/08/26	10:30:30		SYSA	8	0	11867
15:01:00	vsen64c	O1	CICS64C1	DFHSIP	27.3	0.5	0	0	0			03/08/26	10:30:57			9	0	11875

VSE Job Activity Drill Down

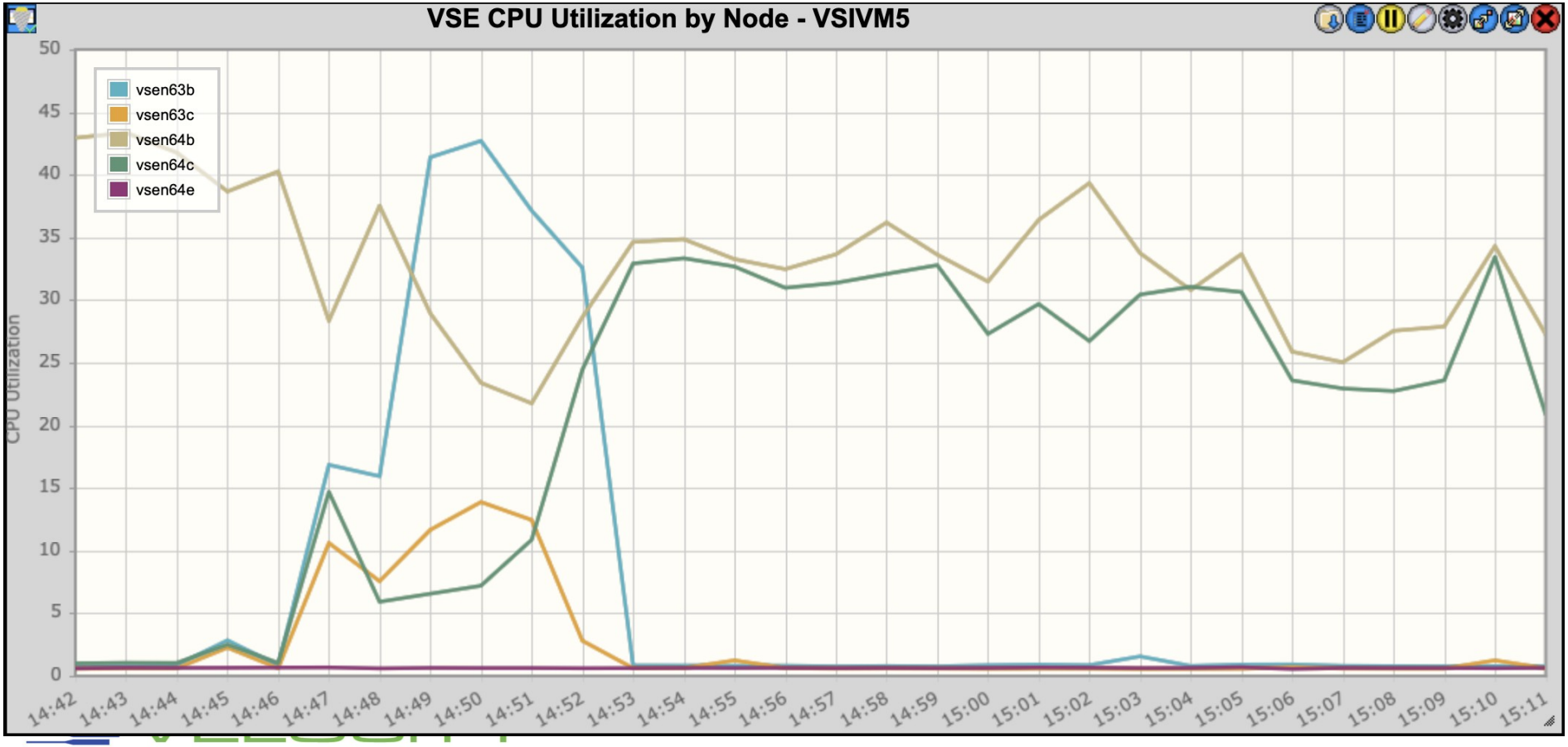
ESAVSEP - VSE Partition Performance - VSIVM5

Time	Node	Part Id	Job Name	Phase Name	<- CPU% -> CPU	Ovhd	<----- I/O -----> Disk	VDisk	Other	Rtrn Code	Cncl Code	<---- Start ----> Date	Time	Stop Time	User Info	Prty	Share	Job Num
15:02:00	vsen64b		Totals		37.8	1.5	3214	0	48.0									
15:02:00	vsen64b	F1	POWSTART	IPWPOWER	0.0	0.0	1.0	0	0			11/26/25	11:21:18			1	0	0
15:02:00	vsen64b	FB	SECSERV	BSTPSTS	0	0	0	0	0			11/26/25	11:21:16			2	0	0
15:02:00	vsen64b	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			11/26/25	11:21:27		SYSA	3	0	2101
15:02:00	vsen64b	T1	BSTTINET	BSTTINET	0.6	0.0	0	0	0			11/26/25	13:33:07			4	0	2159
15:02:00	vsen64b	T2	BSTTVNET	BSTTVNET	0.4	0.0	0	0	0			11/26/25	17:32:59			4	0	2253
15:02:00	vsen64b	T3	BSTTFTPD	BSTTFTPS	0	0	0	0	0			11/26/25	13:35:24			4	0	2161
15:02:00	vsen64b	Z1	DMFSTART	DFHDFSIP	0.1	0.0	0	0	0			03/17/26	08:04:50			5	0	52845
15:02:00	vsen64b	R1	STARTVCS	IESVCSRV	0.4	0.0	0	0	0			11/26/25	13:55:00			6	0	2173
15:02:00	vsen64b	R2	STARTMAS	IESMASNM	0.1	0.0	0	0	0			03/10/26	11:56:04			6	0	49698
15:02:00	vsen64b	F2	CICSICCF	DFHSIP	0.2	0.0	0	0	0			11/26/25	11:21:35		SYSA	7	0	2102
15:02:00	vsen64b	01	CICS64B1	DFHSIP	29.2	0.8	0	0	0			11/29/25	12:48:44			8	0	3596
15:02:00	vsen64b	F4	2 Job	steps V	6.8	0.6	3213	0	48.0							9	100	

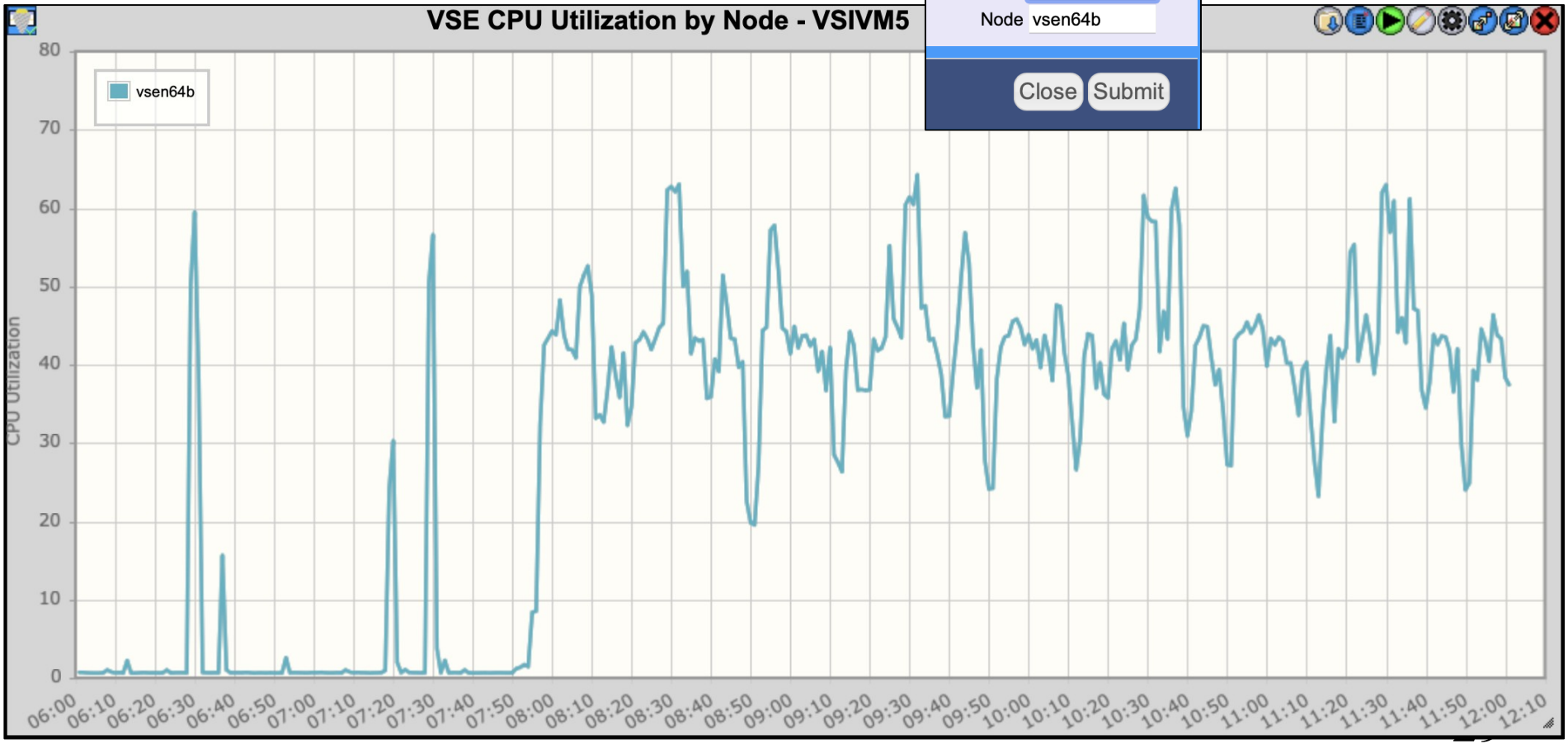
ESAVSEP - VSE Partition Performance - VSIVM5

Time	Node	Part Id	Job Name	Phase Name	<- CPU% -> CPU	Ovhd	<----- I/O -----> Disk	VDisk	Other	Rtrn Code	Cncl Code	<---- Start ----> Date	Time	Stop Time	User Info	Prty	Share	Job Num
15:02:00	vsen64b		Totals		37.8	1.5	3214	0	48.0									
15:02:00	vsen64b	F1	POWSTART	IPWPOWER	0.0	0.0	1.0	0	0			11/26/25	11:21:18			1	0	0
15:02:00	vsen64b	FB	SECSERV	BSTPSTS	0	0	0	0	0			11/26/25	11:21:16			2	0	0
15:02:00	vsen64b	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			11/26/25	11:21:27		SYSA	3	0	2101
15:02:00	vsen64b	T1	BSTTINET	BSTTINET	0.6	0.0	0	0	0			11/26/25	13:33:07			4	0	2159
15:02:00	vsen64b	T2	BSTTVNET	BSTTVNET	0.4	0.0	0	0	0			11/26/25	17:32:59			4	0	2253
15:02:00	vsen64b	T3	BSTTFTPD	BSTTFTPS	0	0	0	0	0			11/26/25	13:35:24			4	0	2161
15:02:00	vsen64b	Z1	DMFSTART	DFHDFSIP	0.1	0.0	0	0	0			03/17/26	08:04:50			5	0	52845
15:02:00	vsen64b	R1	STARTVCS	IESVCSRV	0.4	0.0	0	0	0			11/26/25	13:55:00			6	0	2173
15:02:00	vsen64b	R2	STARTMAS	IESMASNM	0.1	0.0	0	0	0			03/10/26	11:56:04			6	0	49698
15:02:00	vsen64b	F2	CICSICCF	DFHSIP	0.2	0.0	0	0	0			11/26/25	11:21:35		SYSA	7	0	2102
15:02:00	vsen64b	01	CICS64B1	DFHSIP	29.2	0.8	0	0	0			11/29/25	12:48:44			8	0	3596
15:02:00	**vsen64b**	**F4**	**2 Job**	**steps V**	**6.8**	**0.6**	**3213**	**0**	**48.0**							**9**	**100**	
15:02:00	vsen64b	F4	SCANVSM2	ARXREXX	3.8	0.2	2567	0	22.0			03/17/26	15:01:07		VSM2	9	100	53079
15:02:00	vsen64b	F4	SCANVSM2	ARXREXX	3.0	0.3	646.0	0	26.0	0	10	03/17/26	15:00:17	15:01:07	VSM2	9	100	53079

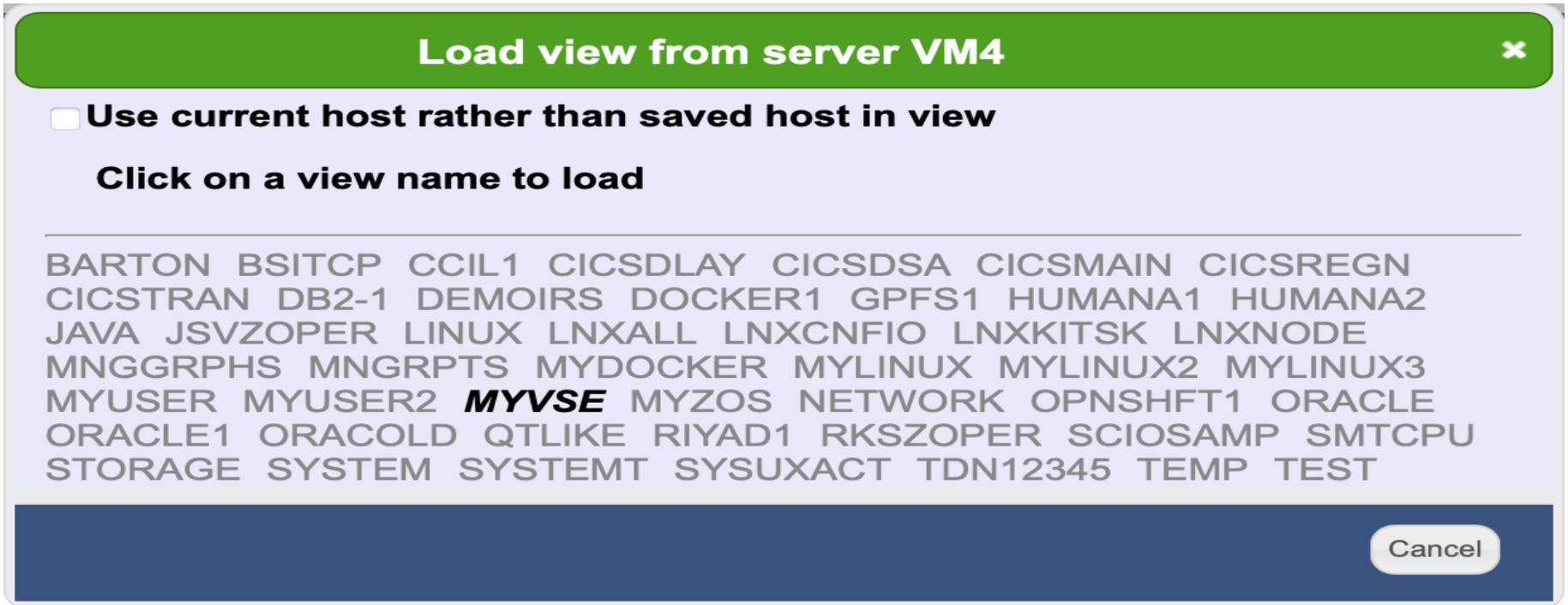
CPU Utilization graph



Going back in time...



Load the MyVSE view to see all VSE systems



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Load the MyVSE view to see all VSE systems

MYVSE

ESAVSEC2 - VSE System Performance per CPU - VM2

Time	Node	CPU	Disp /Sec	CPU Utilization Total	Mstr	Spin	All Bound	Pct NP	Seconds	Samples
10:10:00	zvse61b	0	1103	5.4	1.7	0	94.1	31.4	60	1
10:10:00	zvse61c	0	941	3.7	1.7	0	96.0	46.8	60	1
10:10:00	zvse62b	0	577	1.0	0.5	0	98.7	47.9	61	1
10:10:00	zvse62c	0	758	1.7	0.8	0	98.0	49.7	60	1

ESAVSES - VSE System Configuration - VM2

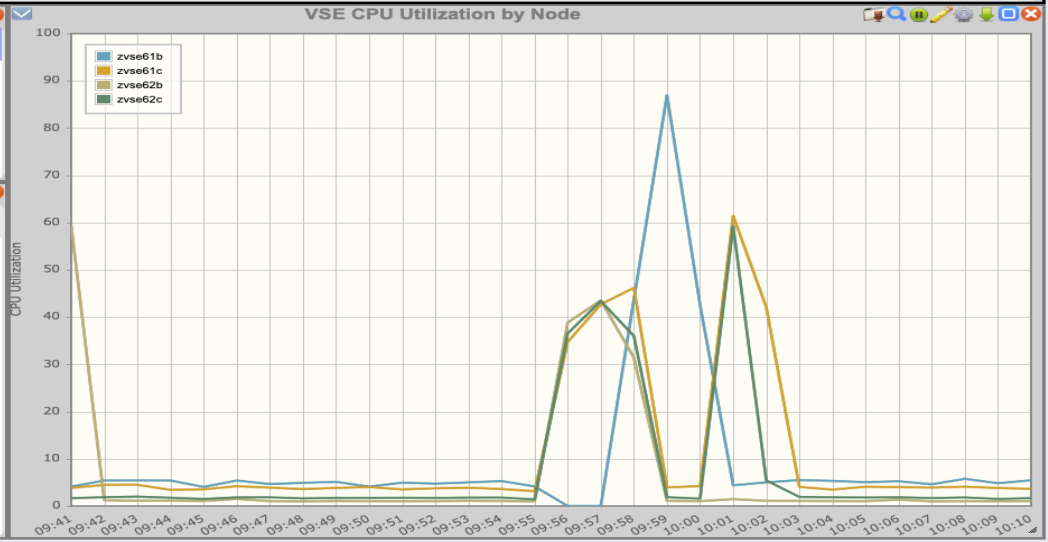
Time	Node	z/VM VirtID	Lvl	LogicalPart Name	Nbr	CPU model <IBM/<model>/CPs/ serial	Partitions Max	Cur	Stat	Dyn	Tot	Actv	CPU Counts Ques	Inact	Priority of Partitions
10:10:00	zvse61b	ZVSE61B	1	VSIVM5	5	IBM 8562-A02 02 (40F782)	80	20	12	8	1	1	0	0	00)=FA(100)=BG(100),O,F2,R,Z,T,S,F3,FB,F
10:10:00	zvse61c	ZVSE61C	1	VSIVM5	5	IBM 8562-A02 02 (40F782)	80	18	12	6	1	1	0	0	0)=F5(100)=F4(100),BG,O,F2,R,Z,T,F3,FB,F
10:10:00	zvse62b	ZVSE62B	1	VSIVM5	5	IBM 8562-A02 02 (40F782)	80	19	12	7	1	1	0	0	(100)=FA(100)=BG(100),O,F2,R,Z,T,F3,FB,F
10:10:00	zvse62c	ZVSE62C	1	VSIVM5	5	IBM 8562-A02 02 (40F782)	80	18	12	6	1	1	0	0	(100)=FA(100)=BG(100),O,F2,R,Z,T,F3,FB,F

ESAVSEC - VSE System Performance - VM2

Time	Node	Pages/Sec In	Out	Rate/Sec SVC	DSP	CPU Utilization Total	Mstr	Spin	All Bound	Pct NP	Seconds	Samples
10:10:00	zvse61b	0	0	1163	1104	5.4	1.7	0	94.1	31.4	60.0	1
10:10:00	zvse61c	0	0	974	941	3.6	1.7	0	96.0	46.8	60.5	1
10:10:00	zvse62b	0	0	547	577	1.0	0.5	0	98.7	47.9	60.9	1
10:10:00	zvse62c	0	0	801	758	1.7	0.8	0	98.0	49.6	60.0	1

ESAVSEP - VSE Partition Performance - VM2

Time	Node	Part Id	Job Name	Phase Name	CPU% CPU	Ovhd	I/O Disk	VDisk	Other	Rtrn Code	Cncl Code	Start Date	Start Time	Stop Time	User Info	Prty	Share	Job Num
10:10:00	zvse61b		Totals		4.8	0.6	212.0	0	1.0									
10:10:00	zvse61b	F1	POWSTART	IPWPOWER	0.0	0.0	0	0	0			05/21/20	07:55:58			1	0	0
10:10:00	zvse61b	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	07:55:57			2	0	0
10:10:00	zvse61b	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			05/21/20	07:56:01		SYSA	3	0	49844
10:10:00	zvse61b	S1	BSTTINET	BSTTINET	0.6	0.1	0	0	0			06/04/20	08:01:36			4	0	53417
10:10:00	zvse61b	T1	BSTTVNET	BSTTVNET	0.4	0.1	0	0	0			06/04/20	08:02:07			5	0	53418
10:10:00	zvse61b	T2	BSTTFTPD	BSTTFTPS	0	0	0	0	0			06/04/20	08:02:06			5	0	53419
10:10:00	zvse61b	Z1	DMFSTART	DFHDFSIP	0.1	0.0	0	0	1.0			06/04/20	08:02:55			6	0	53422
10:10:00	zvse61b	R1	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			06/04/20	08:01:51			7	0	53420
10:10:00	zvse61b	R2	STARTMAS	IESMASNM	0.1	0.0	0	0	0			06/04/20	08:01:55			7	0	53421
10:10:00	zvse61b	F2	CICSICCP	DFHSIP	0.0	0.0	0	0	0			05/21/20	07:56:35		SYSA	8	0	49850
10:10:00	zvse61b	O1	CICSJA60	DFHSIP	2.4	0.3	195.0	0	0			05/26/20	20:14:34			9	0	51255
10:10:00	zvse61b	O2	CICSJB60	DFHSIP	1.1	0.2	17.0	0	0			05/26/20	20:14:44			9	0	51256
10:10:00	zvse61c		Totals		3.2	0.5	249.0	0	1.0									
10:10:00	zvse61c	F1	POWSTART	IPWPOWER	0.0	0.0	0	0	0			05/21/20	08:07:43			1	0	0
10:10:00	zvse61c	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	08:07:43			2	0	0
10:10:00	zvse61c	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			05/21/20	08:07:50		SYSA	3	0	50933
10:10:00	zvse61c	T1	TCPIP00	IPNET	1.1	0.2	0	0	0			05/22/20	10:30:32			4	0	51227
10:10:00	zvse61c	T2	SVSESRVR	SVSESRVR	0.0	0.0	0	0	0			05/23/20	16:40:03			4	0	51554
10:10:00	zvse61c	Z1	DMFSTART	DFHDFSIP	0.2	0.0	16.0	0	1.0			05/22/20	10:31:55			5	0	51231
10:10:00	zvse61c	R1	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			05/22/20	10:31:09			6	0	51229
10:10:00	zvse61c	R2	STARTMAS	IESMASNM	0.2	0.0	0	0	0			05/23/20	16:45:30			6	0	51559
10:10:00	zvse61c	F2	CICSICCP	DFHSIP	0.0	0.0	0	0	0			05/21/20	08:08:13		SYSA	7	0	50937
10:10:00	zvse61c	O1	CICSJA68	DFHSIP	1.7	0.3	233.0	0	0			05/21/20	08:08:28			8	0	50938
10:10:00	zvse62b		Totals		0.8	0.3	0	0	1.0									
10:10:00	zvse62b	F1	POWSTART	IPWPOWER	0.0	0.0	0	0	0			05/21/20	08:09:14			1	0	0
10:10:00	zvse62b	FB	SECSERV	BSTPSTS	0.0	0.0	0	0	0			05/21/20	08:09:14			2	0	0



VELOCITY SOFTWARE

Barnard Software's IPv6/VSE monitoring

- Additional SNMP plugin written for each TCP/IP stack vendor
- Data maps directly in to fields currently used for Linux network monitoring

ESATCP1 - TCPIP Transport Layer Data - DEMO

Time	Node/ Group	<----- TCP Connections ------> Curr Conn	<Opens/Sec> Activ	Pass	<Closes/Sec> Fails	Resets	<TCP Communications/second > <---Segments Transmitted---> Input	Outpt	ReTrn	<--UDP Datagrams per second--> <----Errors---> InErr	Rsts	Total Input	Total Output	NoAppl	Other
07:09:00	zvse62c	.	.	.	.	.	.	.	.	.	.	.	.	.	.
07:09:00	zvse62b	0	0	0	0	0	57.8	80.4	2.7	0	0	2.4	1.9	0	0
07:09:00	zvse61c	.	.	.	.	.	.	.	.	.	.	.	.	.	.
07:09:00	zvse61b	0	0	0	0	0	19.8	33.3	0.9	0	0	3.0	2.5	0	0.1

ESATCP2 - TCPIP Internetwork Layer Data - DEMO

Time	Node/ Group	<Internet Protocol Datagrams per Second > <Input datagrams> Total	Fwrd	Dlvrd	<Discarded Inp Errors > Hdr	Addr	Prot	Other	<Datagram output> Reqst	<Discarded> NoRte	Other	<Fragment Reassembly> Fragmnts Input	Data- grams	Errors	<Datagram Fragmentation> <Datagrams In> Recvd	Notfrg	Fragments Created
07:09:00	zvse62b	60.18	0	60.18	0	0	0	0	82.31	0	0	0	0	0	0	0	0
07:09:00	zvse61b	22.88	0	22.88	0	0	0	0	35.84	0	0	0	0	0	0	0	0

ESATCP3 - TCPIP Control Message Protocol Report - DEMO

Time	Node/ Group	<-Total> <-Msgs-> In	Out	<Echo Messages> <Rqsts> In	Out	<Replys> In	Out	<TimeStamp Msgs> <Rqsts> In	Out	<Replys> In	Out	<AddrsMask Reqsts> <Request> In	Out	<Replys-> In	Out	<Source> <Quench> In	Out	Redirects In	Out	<-Input Error Msgs> Bad Data	Bad Dest	Bad Parm	Time Xcdd	<Output Error Msgs> Bad Data	Bad Dest	Bad Parm	Time Xcdd
07:09:00	zvse62b	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:09:00	zvse61b	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

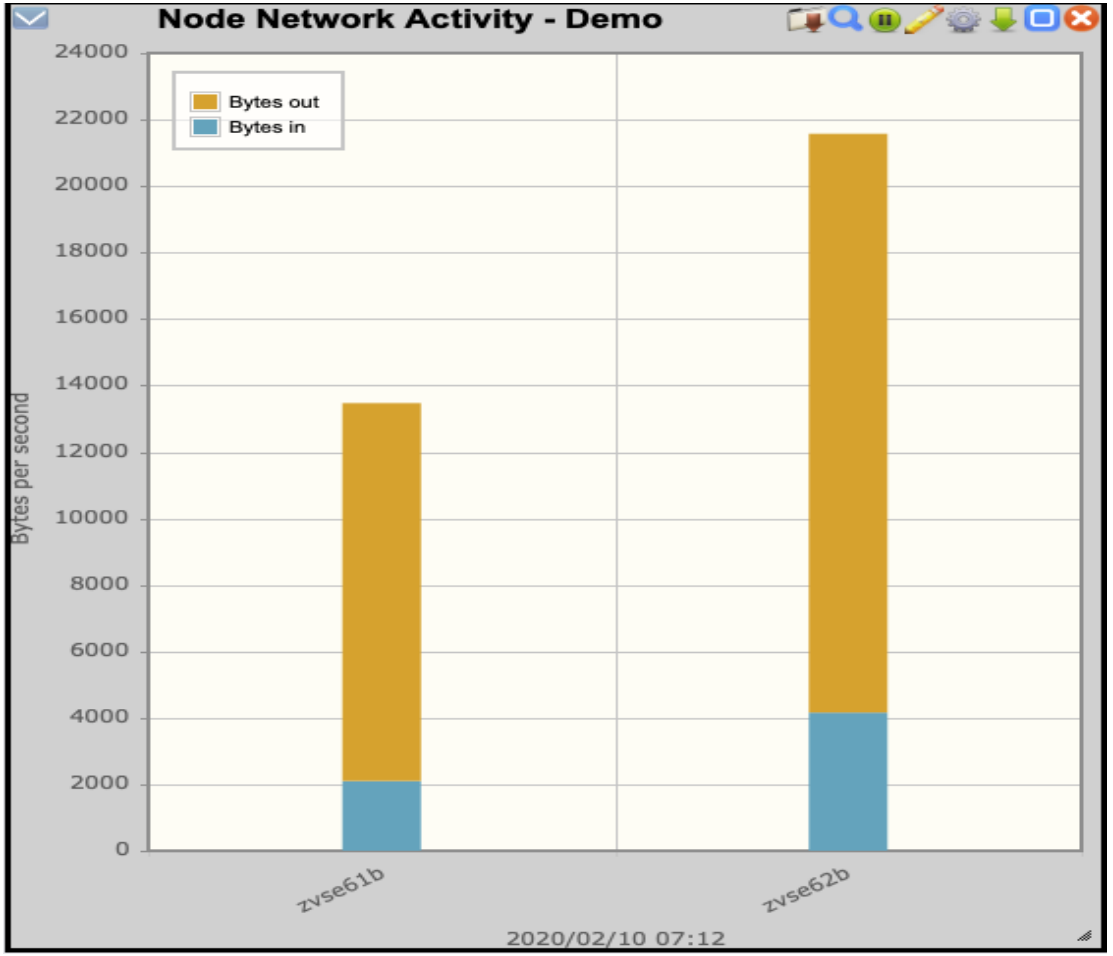
ESATCP4 - TCPIP Hardware Layer / Interfaces - DEMO

Time	Node/ Group	IFT	<Total Octets> Avg <-Per second-> Input	Output	Len	<-Subnet packets / Sec-> Q <-Unicast-> Input	Outpt	<NonUnicast> Input	Output	<-----Packets Discarded------> <In Error> Inpt	Outpt	<NonError> Inpt	Outpt	Unknown Protocol	Interface	<-Average-> Packet Size In	Out
07:09:00	zvse62c	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
07:09:00	zvse62b	1	4566	20273	0	60.99	83.18	0	0	0	0	0	0	0	OSAE40	75	244
07:09:00	zvse61c	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
07:09:00	zvse61b	2	2046	10850	0	23.13	36.05	0	0	0	0	0	0	0	OSAE40	88	301
07:09:00	zvse61b	1	0	0	0	0	0	0	0	0	0	0	0	0	OSAE50	.	.

VELOCITY SOFTWARE

IPv6/VSE monitoring

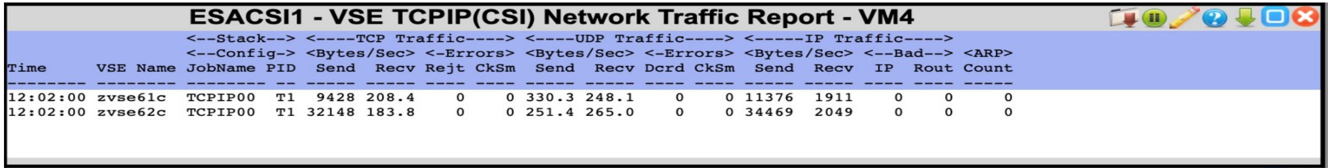
- Network activity real time graph



VELOCITY SOFTWARE

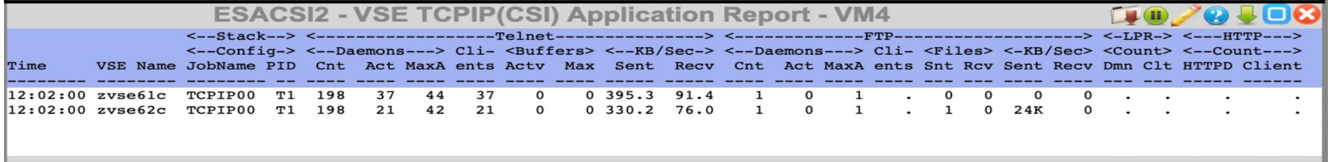
Connectivity Systems - TCP/IP for z/VSE monitoring

- SNMP plugin written to interface with See Server
- Screens/reports created to display the data



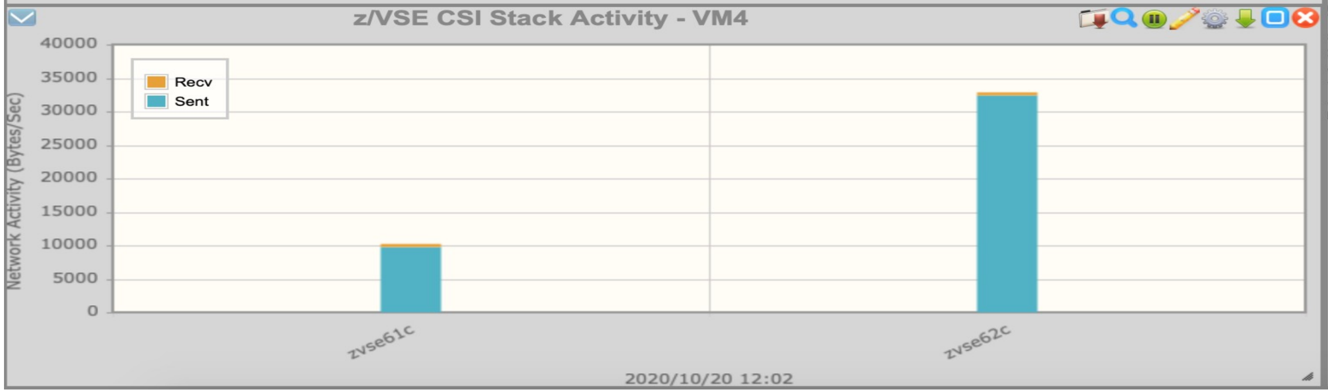
ESACSI1 - VSE TCPIP(CSI) Network Traffic Report - VM4

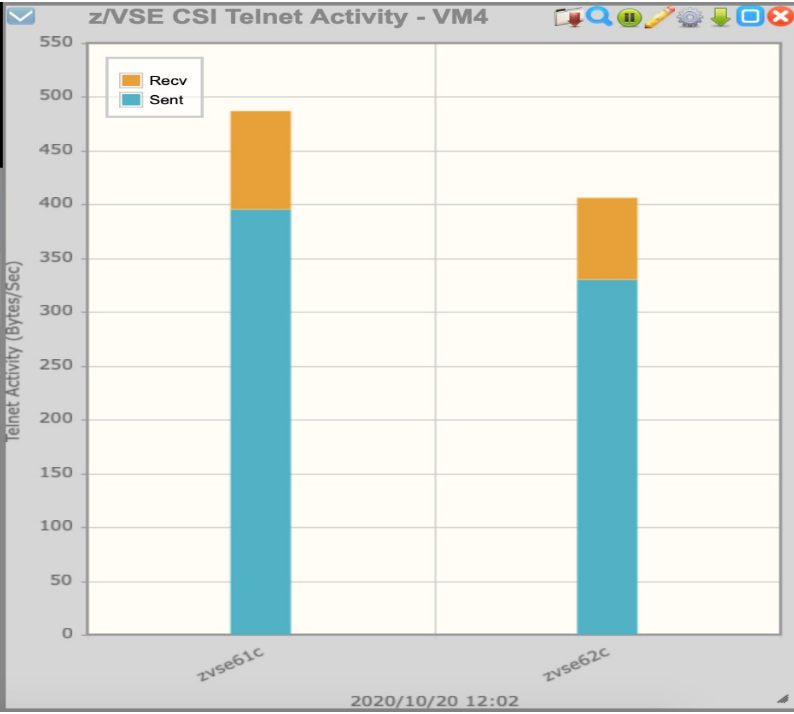
		<--Stack-->		<----TCP Traffic---->				<----UDP Traffic---->				<-----IP Traffic---->				
		<--Config->		<Bytes/Sec>		<-Errors>		<Bytes/Sec>		<-Errors>		<Bytes/Sec>		<--Bad-->		<ARP>
Time	VSE Name	JobName	PID	Send	Recv	Rejt	CkSm	Send	Recv	Dcrd	CkSm	Send	Recv	IP	Rout	Count
12:02:00	zvse61c	TCPIP00	T1	9428	208.4	0	0	330.3	248.1	0	0	11376	1911	0	0	0
12:02:00	zvse62c	TCPIP00	T1	32148	183.8	0	0	251.4	265.0	0	0	34469	2049	0	0	0



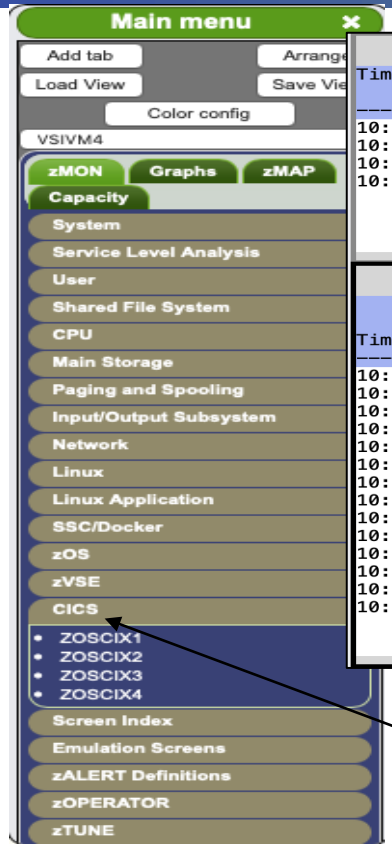
ESACSI2 - VSE TCPIP(CSI) Application Report - VM4

		<--Stack-->		<------------------Telnet----------------->								<-------------FTP-------------------->								<-LPR->		<---HTTP--->	
		<--Config->		<--Daemons--->			Cli-	<Buffers>		<--KB/Sec->		<--Daemons--->			Cli-	<Files>		<-KB/Sec>		<Count>		<--Count--->	
Time	VSE Name	JobName	PID	Cnt	Act	MaxA	ents	Actv	Max	Sent	Recv	Cnt	Act	MaxA	ents	Snt	Rcv	Sent	Recv	Dmn	Clt	HTTPD	Client
12:02:00	zvse61c	TCPIP00	T1	198	37	44	37	0	0	395.3	91.4	1	0	1	.	0	0	0	0	.	.	.	.
12:02:00	zvse62c	TCPIP00	T1	198	21	42	21	0	0	330.2	76.0	1	0	1	.	1	0	24K	0	.	.	.	.





CICS Data



CICS Menu

ZOSCIX1 - CICS Analysis - VM4

Time	SYSID	<--CICS APPLID	Program-> JobName	<-----Start-----> Date	Time	Platform O/S	VRM	<----Location---> LPARName	VMID	<---Transactions--> Total	Resp	CPU	<-----Task Statistics-----> Total	MXT	Actv	Qued	PctM	<-Peak--> Actv	Qued	Intv Sec
10:34:00	V24A	C24ASTND	C24ASTND	11/14/22	08:42:16	z/OS	0730	ZOSLP2		1956	0.005	0.002	1950	75	1	0	1.3	22	0	60
10:33:56	V62B	CICSJA95	CICSJA95	01/20/23	11:35:17	VSE	0430	VSIVM5	ZVSE62B	1080	0.723	0.014	1013	20	3	0	15.0	20	10	60
10:33:49	V63B	CICSNB01	CICSNB01	01/20/23	11:42:32	VSE	0430	VSIVM5	VSEN63B	1640	0.269	0.011	1563	25	2	0	8.0	25	4	60
10:33:49	V63C	CICSNC01	CICSNC01	01/20/23	11:42:06	VSE	0430	VSIVM5	VSEN63C	1480	0.628	0.013	1582	25	2	0	8.0	25	9	60

ZOSCIX2 - CICS Transaction Analysis - VM4

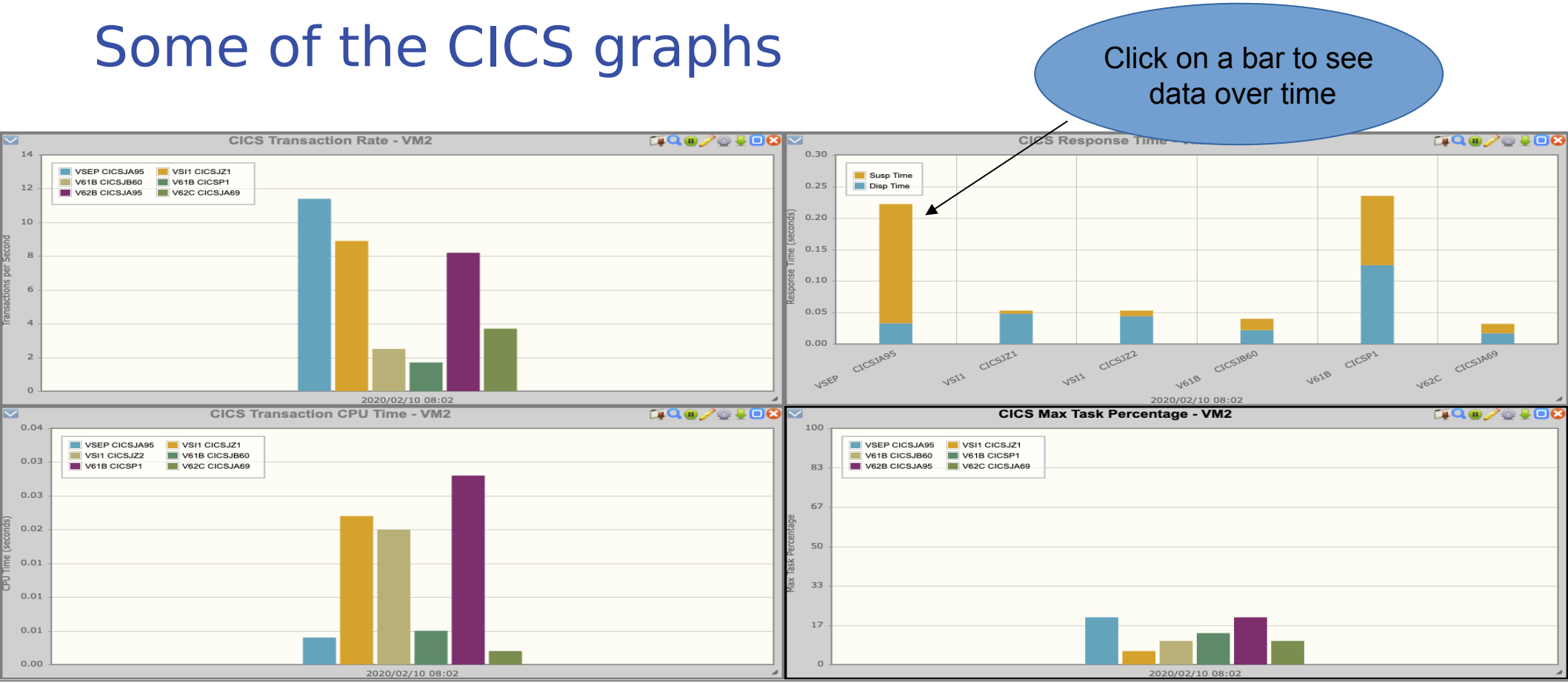
Time	SYSID	APPLID	<-Transactions-> Group	Count	<-Response Time-> Total Resp	Susp Time	Disp Time	<---Dispatch----> CPU Time	PC Load	zIIP CPU	<-Total-> <--CPU--> Secs	Pct	<-Dispatch Delays (ms)-> First Disp	Other	I/O Wait	Uncapt Wait	CPU Disp Ratio
10:34:00	VSI1	CICSZA1	Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:34:00	VSI1	CICSZA1	Inflight	8	60.03	60.03	0.001	0.001	0	0	0.0	0.0					
10:34:00	V24A	C24AAOR1	Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:34:00	V24A	C24AAOR1	Inflight	8	60.03	60.03	0.001	0.001	0	0	0.0	0.0					
10:34:00	V24A	C24ASTND	Totals	1956	0.005	0.002	0.003	0.002	0	0.000	3.8	6.3	0.000	0.000	0.000	0.000	60.713
10:34:00	V24A	C24ASTND	Inflight	12	60.02	59.91	0.105	0.046	0	0	0.6	0.9					
10:34:00	V24A	C24ATOR1	Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:34:00	V24A	C24ATOR1	Inflight	16	60.03	60.03	0.000	0.000	0	0	0.0	0.0					
10:33:56	V62B	CICSJA95	Totals	1080	0.723	0.672	0.051	0.014	0	0	15.0	25.0	0.405	0	0.127	0.140	27.510
10:33:56	V62B	CICSJA95	Inflight	0	0	0	0	0	0	0	0	0					
10:33:49	V63B	CICSNB01	Totals	1640	0.269	0.244	0.025	0.011	0	0	17.8	29.6	0.107	0	0.077	0.060	42.720
10:33:49	V63B	CICSNB01	Inflight	0	0	0	0	0	0	0	0	0					
10:33:49	V63C	CICSNC01	Totals	1480	0.628	0.581	0.048	0.013	0	0	19.9	33.2	0.271	0	0.110	0.199	28.251
10:33:49	V63C	CICSNC01	Inflight	0	0	0	0	0	0	0	0	0					

VELOCITY SOFTWARE

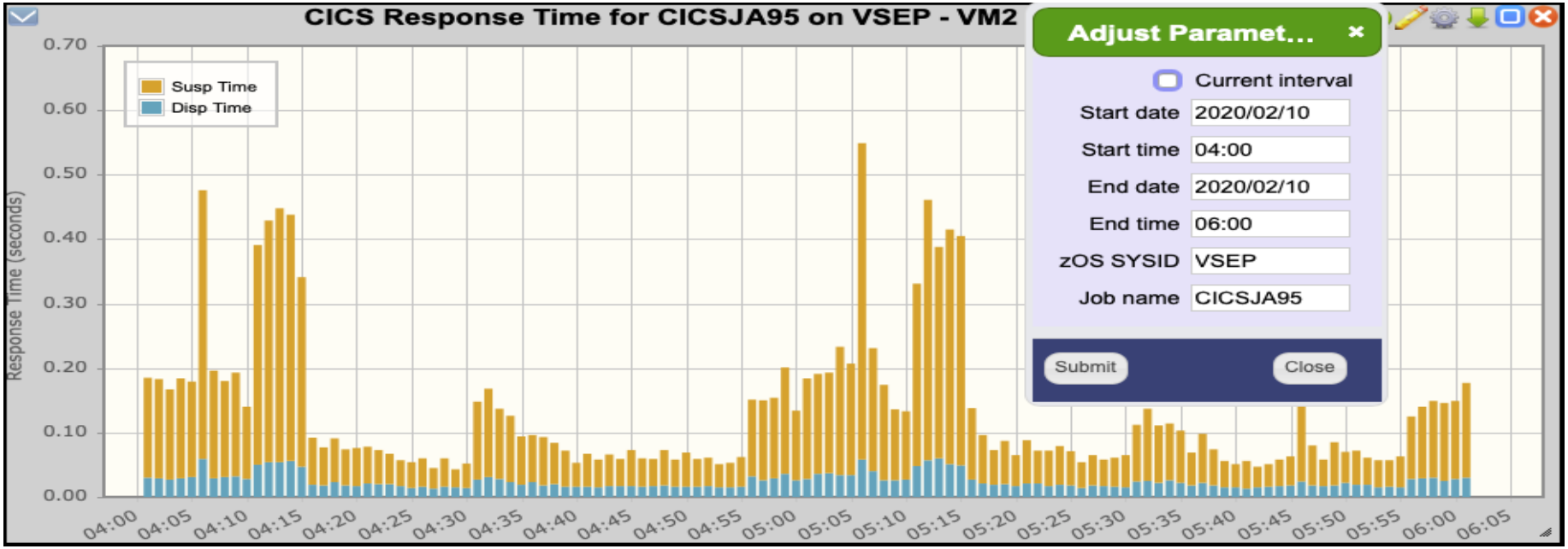
ZOSCIX4 - CICS Detailed Transaction Analysis - VM4

					<-Response Time->			<---Dispatch---->			<---Suspend Time per Tran (ms)-->							<-----Suspend Time per Tran (ms)---->					
Time	SYSID	APPLID	Tran ID	Count	Total Resp	Susp Time	Disp Time	CPU Time	PC Load	zIIP CPU	Disp Wait	MXT Dly	TC Dly	Trm	Jrn	TS	File	MRO	TD	Shr TS	RLS	CF Dtbl	Sockets In	Sockets Out	<-LU--> 61	<-LU--> 62	FEPI
10:36:00	V24A	C24ASTND	CSSY	1	0.210	0.210	0.000	0.000	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:36:00	V24A	C24ASTND	ZDCD	208	0.006	0.001	0.005	0.002	0	0	0.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:36:00	V24A	C24ASTND	ZDCU	213	0.007	0.002	0.006	0.003	0	0	1.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:36:00	V24A	C24ASTND	ZDHD	209	0.007	0.002	0.005	0.003	0	0	0.92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:36:00	V24A	C24ASTND	ZIPC	221	0.002	0.000	0.001	0.001	0	0	0.09	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0
10:36:00	V24A	C24ASTND	ZIPH	220	0.002	0.001	0.001	0.001	0	0	0.09	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	0
10:36:00	V24A	C24ASTND	ZIPJ	220	0.007	0.003	0.004	0.003	0	0.001	1.97	0	0	0.6	0	0	0.2	0	0	0	0	0	0	0	0	0	0
10:36:00	V24A	C24ASTND	ZIPU	216	0.003	0.002	0.002	0.001	0	0	0.49	0	0	0	0	0	1.1	0	0	0	0	0	0	0	0	0	0
10:36:00	V24A	C24ASTND	ZPCB	220	0.003	0.001	0.002	0.002	0	0	0.19	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0
10:36:00	V24A	C24ASTND	ZPHB	212	0.003	0.001	0.002	0.002	0	0	0.22	0	0	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	STRH	78	0.331	0.323	0.008	0.001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	STR1	75	0.363	0.350	0.013	0.004	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	STR2	70	0.499	0.456	0.042	0.012	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	STR3	66	0.361	0.314	0.046	0.013	0	0	0	8.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	STR4	73	0.411	0.356	0.055	0.016	0	0	0	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	STR5	87	0.451	0.361	0.090	0.024	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	STR6	69	0.328	0.251	0.077	0.022	0	0	0	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	STR7	80	0.387	0.302	0.085	0.023	0	0	0	7.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	STR8	71	0.381	0.284	0.098	0.030	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	STR9	77	0.537	0.406	0.132	0.040	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	ZIPC	65	1.090	1.082	0.008	0.001	0	0	375	35	0	0	0	0	396	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	ZIPH	64	1.486	1.479	0.007	0.001	0	0	452	19	0	0	0	0	346	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	ZIPU	65	1.418	1.411	0.007	0.001	0	0	504	29	0	0	0	0	510	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	ZPCB	64	1.084	1.072	0.013	0.002	0	0	278	21	0	0	0	0	288	0	0	0	0	0	0	0	0	0	0
10:35:56	V62B	CICSJA95	ZPHB	66	1.156	1.148	0.008	0.002	0	0	395	29	0	0	0	0	378	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	STRH	90	0.280	0.275	0.005	0.001	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	STR1	100	0.285	0.269	0.016	0.005	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	STR2	104	0.279	0.228	0.051	0.010	0	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	STR3	95	0.317	0.261	0.057	0.017	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	STR4	102	0.282	0.236	0.046	0.019	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	STR5	78	0.375	0.273	0.102	0.027	0	0	0	4.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	STR6	102	0.339	0.261	0.078	0.026	0	0	0	8.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	STR7	96	0.327	0.241	0.086	0.036	0	0	0	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	STR8	107	0.526	0.397	0.130	0.044	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	STR9	101	0.406	0.291	0.115	0.037	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	ZIPC	109	1.121	1.115	0.006	0.001	0	0	344	25	0	0	0	0	303	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	ZIPH	110	1.119	1.107	0.012	0.001	0	0	298	18	0	0	0	0	287	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	ZIPU	108	1.383	1.373	0.009	0.002	0	0	412	24	0	0	0	0	393	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	ZPCB	110	1.027	1.000	0.027	0.002	0	0	250	18	0	0	0	0	314	0	0	0	0	0	0	0	0	0	0
10:35:50	V63C	CICSNC01	ZPHB	108	1.115	1.082	0.033	0.002	0	0	266	37	0	0	0	0	350	0	0	0	0	0	0	0	0	0	0
10:35:49	V63B	CICSNB01	STRH	62	0.182	0.118	0.064	0.029	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Some of the CICS graphs

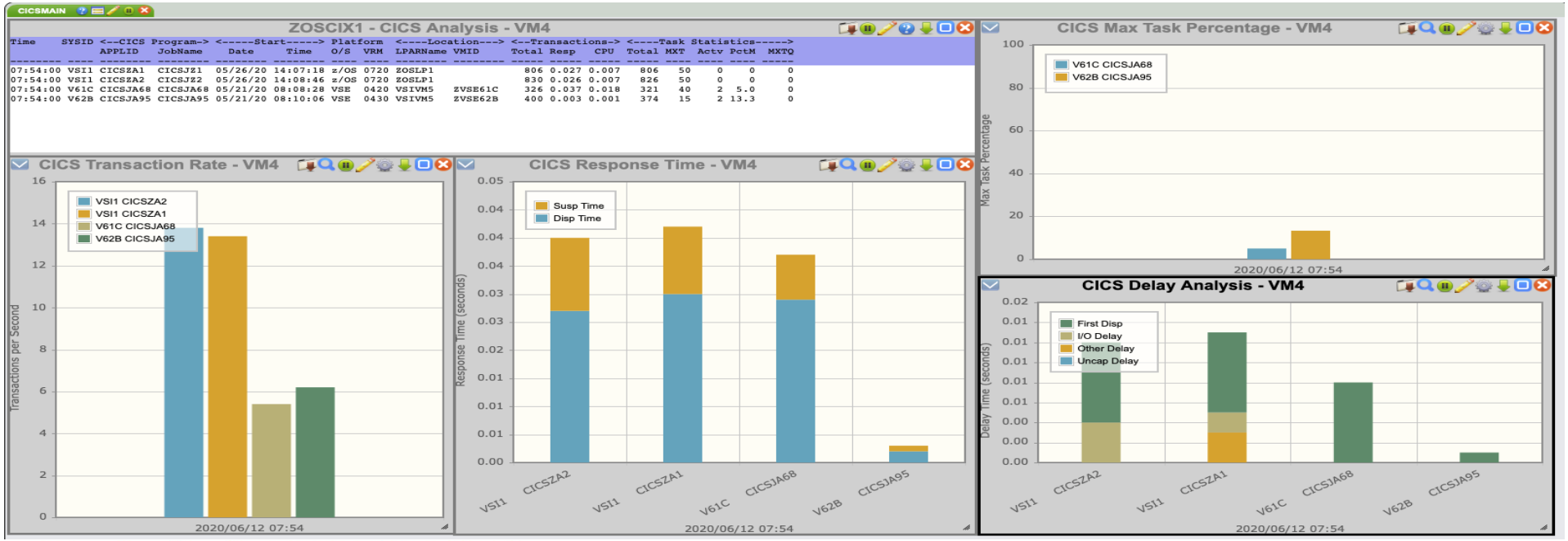


CICS response time over time



Additional CICS Views are available

- Use ours or make your own



VELOCITY SOFTWARE

DSA Monitoring

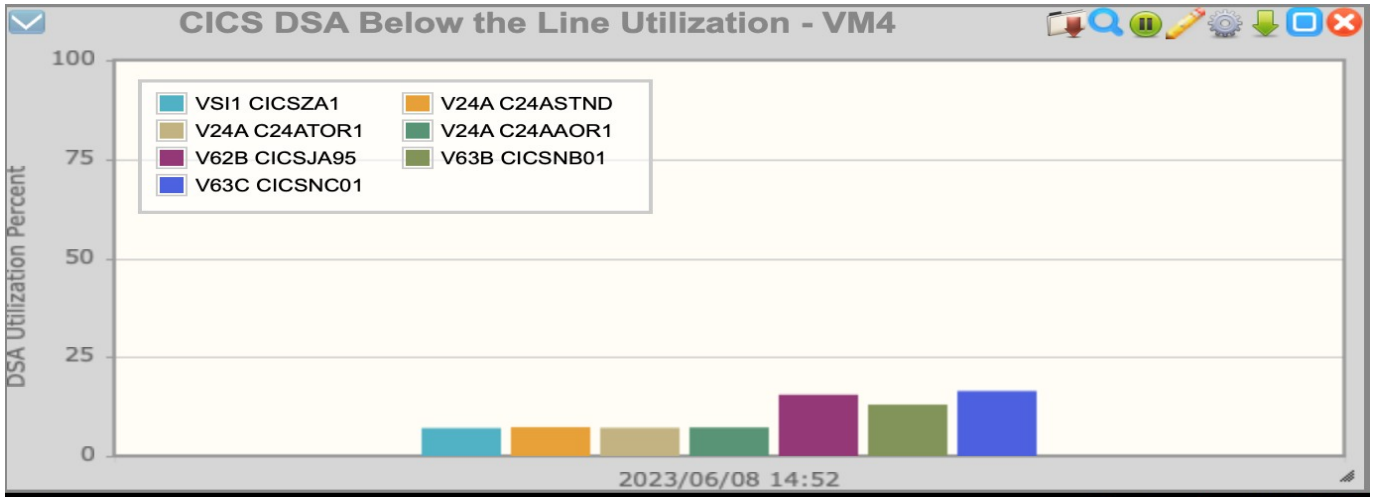
ZOSCIXS1 - CICS DSA Detail - VM4

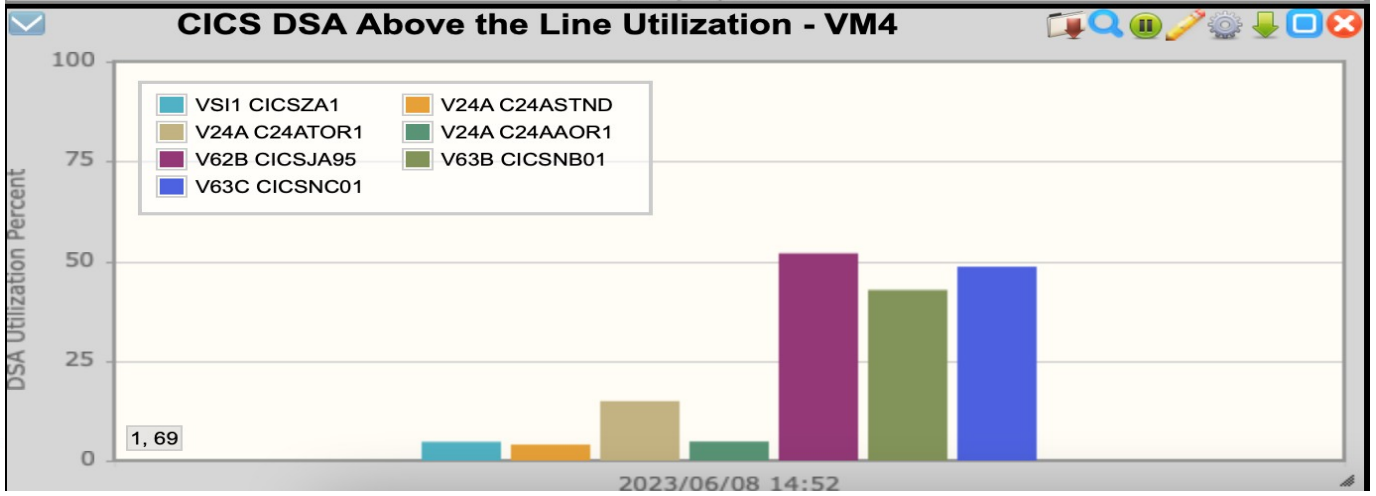
Time	SYSID	APPLID	Pool Locn	<---DSA (mb)----> Limit	Total	HWM	Pool Name	<----Storage in KB----> Size	HWM	Cushn	Free	Lrgst Free	<Requests-> GetMn	FreMn	Tasks Prgd	Cush Rel	Times SOS	Stg Viol
14:47:00	V62B	CICSJA95	<16M	5.000	1.500	1.500	CDSA	512	512	64	212	224	1061	1062	0	0	0	0
14:47:00	V62B	CICSJA95	<16M	5.000	1.500	1.500	UDSA	256	256	64	116	252	3043	3046	0	0	0	0
14:47:00	V62B	CICSJA95	<16M	5.000	1.500	1.500	SDSA	256	256	64	100	100	0	0	0	0	0	0
14:47:00	V62B	CICSJA95	<16M	5.000	1.500	1.500	RDSA	512	512	64	240	240	0	0	0	0	0	0
14:47:00	V62B	CICSJA95	<2GB	35.00	22.00	22.00	ECDSA	10240	10240	128	1312	1420	15014	14937	0	0	0	0
14:47:00	V62B	CICSJA95	<2GB	35.00	22.00	22.00	EUDSA	2048	2048	0	960	2048	3114	3118	0	0	0	0
14:47:00	V62B	CICSJA95	<2GB	35.00	22.00	22.00	ESDSA	2048	2048	128	896	928	10	10	0	0	0	0
14:47:00	V62B	CICSJA95	<2GB	35.00	22.00	22.00	ERDSA	8192	8192	256	928	928	0	0	0	0	0	0
14:47:00	V63B	CICSNB01	<16M	5.000	1.750	1.750	CDSA	512	512	64	232	260	1599	1588	0	0	0	0
14:47:00	V63B	CICSNB01	<16M	5.000	1.750	1.750	UDSA	512	512	64	340	508	4388	4357	0	0	0	0
14:47:00	V63B	CICSNB01	<16M	5.000	1.750	1.750	SDSA	256	256	64	120	120	0	0	0	0	0	0
14:47:00	V63B	CICSNB01	<16M	5.000	1.750	1.750	RDSA	512	512	64	240	240	0	0	0	0	0	0
14:47:00	V63B	CICSNB01	<2GB	20.00	14.00	14.00	ECDSA	4096	4096	128	676	720	21262	21173	0	0	0	0
14:47:00	V63B	CICSNB01	<2GB	20.00	14.00	14.00	EUDSA	3072	3072	0	1408	3072	4414	4384	0	0	0	0
14:47:00	V63B	CICSNB01	<2GB	20.00	14.00	14.00	ESDSA	1024	1024	128	936	936	0	0	0	0	0	0
14:47:00	V63B	CICSNB01	<2GB	20.00	14.00	14.00	ERDSA	6144	6144	256	904	904	0	0	0	0	0	0
14:47:00	V63C	CICSNC01	<16M	5.000	1.750	1.750	CDSA	512	512	64	236	260	1590	1590	0	0	0	0
14:47:00	V63C	CICSNC01	<16M	5.000	1.750	1.750	UDSA	512	512	64	312	508	4531	4528	0	0	0	0
14:47:00	V63C	CICSNC01	<16M	5.000	1.750	1.750	SDSA	256	256	64	120	120	0	0	0	0	0	0
14:47:00	V63C	CICSNC01	<16M	5.000	1.750	1.750	RDSA	512	512	64	240	240	0	0	0	0	0	0
14:47:00	V63C	CICSNC01	<2GB	20.00	14.00	14.00	ECDSA	4096	4096	128	620	672	21585	21580	0	0	0	0
14:47:00	V63C	CICSNC01	<2GB	20.00	14.00	14.00	EUDSA	3072	3072	0	1536	3072	4542	4540	0	0	0	0
14:47:00	V63C	CICSNC01	<2GB	20.00	14.00	14.00	ESDSA	1024	1024	128	940	940	0	0	0	0	0	0
14:47:00	V63C	CICSNC01	<2GB	20.00	14.00	14.00	ERDSA	6144	6144	256	904	904	0	0	0	0	0	0

VELOCITY SOFTWARE

DSA Monitoring-

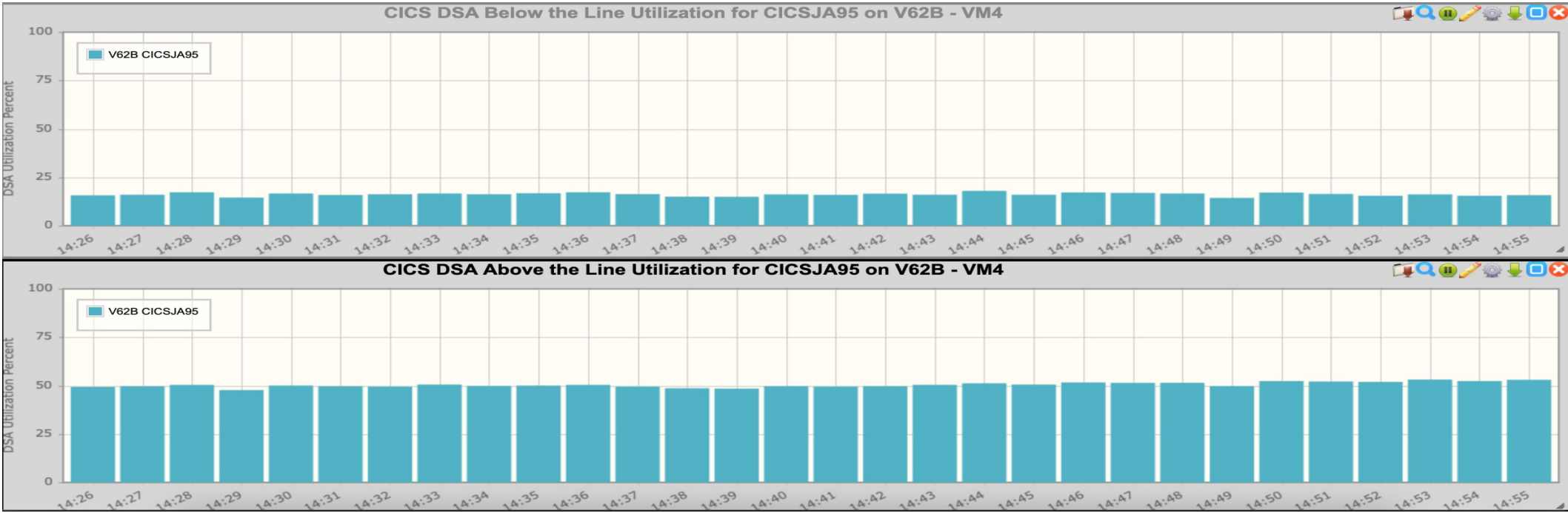
Graphs are better





VELOCITY SOFTWARE

DSA data over time



Operational Alerts

zALERT is a component that comes with zVPS

It provides the ability to look at one minute data based on customer supplied rules

zALERT can also generate notifications when any data elements exceed certain thresholds

```
F4 0004 // JOB LIBRDIRC
        DATE 06/13/2020, CLOCK 15/49/44
F4 0004 EOJ LIBRDIRC  MAX.RETURN CODE=0008
        DATE 06/13/2020, CLOCK 15/49/44, DURATION   00/00/00
F4 0001 1Q34I   F4 WAITING FOR WORK
```

```
15:50:10 ZALERT    VSER Job LIBRDIRC on zvse61b ended at 15:49:44 with rc=0008
```

VELOCITY SOFTWARE

Operational Messages

zOPERATOR is a component that comes with zVPS

Actions can be taken on messages

ZOPER - zOPERATOR Console - VM5

```
12:00:06 ZVSE61C  Y2 0052 // JOB SCANVSM2
12:00:09 ZVSE62C  BG 0000 EOJ LIBRDIR   MAX.RETURN CODE=0000
12:00:10 ZVSE61C  F5 0005 EOJ LIBRDIR   MAX.RETURN CODE=0000
12:00:12 ZVSE61C  Y1 0051 // JOB SCANVSM1
12:00:13 ZVSE62C  Y1 0051 // JOB SCANVSM1
12:00:20 ZVSE62C  Y1 0051 EOJ SCANVSM1  MAX.RETURN CODE=0000
12:00:24 ZVSE61C  Y1 0051 EOJ SCANVSM1  MAX.RETURN CODE=0000
12:01:21 ZVSE62C  Y2 0052 EOJ SCANVSM2  MAX.RETURN CODE=0000
12:01:38 ZVSE62C  Y3 0053 EOJ SCANVSM3  MAX.RETURN CODE=0000
12:01:53 ZVSE61C  Y2 0052 EOJ SCANVSM2  MAX.RETURN CODE=0000
12:02:00 VSEN63B  Y1 0001 1Q47I   Y1 LIBRDIR2 01011 FROM LOCAL , TIME=12:02:00 , TKN=000000D0
12:02:00 VSEN63B  Y1 0052 // JOB LIBRDIR2
12:02:00 VSEN63B          DATE 05/31/2022, CLOCK 12/02/00
12:02:00 VSEN63B  Y1 0052 1S47I  PRELEASE RDR,LIBRDIR3
12:02:00 VSEN63B  Y1 0052 EOJ LIBRDIR2  MAX.RETURN CODE=0000
12:02:00 VSEN63B          DATE 05/31/2022, CLOCK 12/02/00, DURATION   00/00/00
12:02:00 VSEN63B  Y2 0001 1Q47I   Y2 LIBRDIR3 01012 FROM LOCAL , TIME=12:02:00 , TKN=000000D1
12:02:00 VSEN63B  Y2 0053 // JOB LIBRDIR3
12:02:00 VSEN63B          DATE 05/31/2022, CLOCK 12/02/00
12:02:00 VSEN63B  Y2 0053 1S47I  PRELEASE RDR,LIBRDIR4
12:02:00 VSEN63B  Y2 0053 EOJ LIBRDIR3  MAX.RETURN CODE=0000
12:02:00 VSEN63B          DATE 05/31/2022, CLOCK 12/02/00, DURATION   00/00/00
12:02:01 VSEN63B  Y1 0001 1Q47I   Y1 LIBRDIR4 01013 FROM LOCAL , TIME=12:02:01 , TKN=000000D2
12:02:01 VSEN63B  Y1 0052 // JOB LIBRDIR4
12:02:01 VSEN63B          DATE 05/31/2022, CLOCK 12/02/01
12:02:01 VSEN63B  Y1 0052 EOJ LIBRDIR4  MAX.RETURN CODE=0000
12:02:01 VSEN63B          DATE 05/31/2022, CLOCK 12/02/01, DURATION   00/00/00
12:02:01 VSEN63B  Y1 0001 1Q3EI  DYNAMIC CLASS 'Y' WAITING FOR WORK
12:02:02 ZVSE61C  Y3 0053 EOJ SCANVSM3  MAX.RETURN CODE=0000
12:02:40 VSEN63C  F1 0001 1Q34I  RDR WAITING FOR WORK ON 00C
12:02:40 VSEN63C  Y1 0001 1Q47I   Y1 STGPLAY 17992 FROM LOCAL , TIME=12:02:40 , TKN=000000D1
12:02:40 VSEN63C  Y1 0051 // JOB STGPLAY
12:02:40 VSEN63C          DATE 05/31/2022, CLOCK 12/02/40
12:02:40 VSEN63C  Y1 0051 * PASS 1
12:02:40 VSEN63C  Y1 0051 // EXEC STGPLAY
12:02:40 VSEN63C  Y1 0051 1U53I  PROGRAM NOT FOUND.
12:02:40 VSEN63C  Y1 0051 1I70I  JOB STGPLAY  CANCELLED DUE TO CONTROL STATEMENT ERROR
12:02:40 VSEN63C  Y1 0051 1S78I  JOB TERMINATED DUE TO  PROGRAM ABEND
12:02:40 VSEN63C  Y1 0051 EOJ STGPLAY
12:02:40 VSEN63C          DATE 05/31/2022, CLOCK 12/02/40, DURATION   00/00/00
12:02:40 VSEN63C  Y1 0001 1Q3EI  DYNAMIC CLASS 'Y' WAITING FOR WORK
```

VELOC
SOFTWA

System SVA and System Getvis

VSE POWER Memory and Statistics

- Including Data and Queue file

System SVA and System Getvis

- Matches data from system commands and IUI screens

VSE POWER Statistics and Memory

- Matches data from D STATUS and GETVIS commands

Thanks Yuri Adrov (21CS VSE Support) and Tony Thigpen

System SVA and System Getvis

```
Report: ESAVSEM      VSE Memory                                    Velocity Software Corporate   ZMAP   6.1.0 06/03/26 Page    139
Monitor initialized: 05/27/26 at 11:33:12 on 8562 serial 020F78  First record analyzed: 05/27/26 11:34:00
-------------------------------------------------------------------------------------------------------------------------------
          <--Values in MB->                                                                                  <--Program Area (K)-->
  Time     Real <-Virt Stg->  <------Getvis-24 (K)-------> <-------Getvis-Any (K)-------> <-SVA (K)--> <---Size--> <---Free-->
  Node     Size  Total Avail  Total  Used  Free Lrgst  HWM  Total  Used  Free Lrgst   HWM 24bit  31bit 24bit 31bit 24bit 31bit
---------  ----  ----- -----  -----  ----  ---- -----  ---  -----  ----  ---- -----   --- -----  ----- ----- ----- ----- -----
11:35:00
vsen64b     256   640   283   1712   888   824   820  940  11772  3532  9952  9124  3620  3324  22528  1312 10756   316  3535
                                                                 3516  9968  9064  3764  3324  22528  1312 10756   312  3535
                                                                 4872  8564  6740  6064  3196  22528  1296 10756   316  1281
                                                                 3232 10204  9256  3376  3196  22528  1296 10756   313  2788
```

```
IESADMDSV1              SHARED VIRTUAL AREA LAYOUT

-------------------------------------------------------------------------------
'0AFFFFFF'X SYSTEM GETVIS(31) USED:   (HWM: 3620K ) |  2672K |        |
'0A481000'X                   FREE:                 |  9100K |    11M |
-------------------------------------------------------------------------|    22M
            PROGRAM AREA(31)  USED:                 |  7220K |        |
'09A00000'X                   AVAILABLE:            |  3536K |    11M |
===============================================================================
'003FFFFF'X V-POOL                                  |   128K |        |
'003C5000'X SYSTEM LABEL AREA (SLA)                 |   108K |   236K |
-------------------------------------------------------------------------|
            SYSTEM GETVIS(24) USED:   (HWM:  940K ) |   888K |        |
'00219000'X                   FREE:                 |   824K |  1712K |
-------------------------------------------------------------------------|  3324K
            PROGRAM AREA(24)  USED:                 |   996K |        |
'000D1000'X                   AVAILABLE:            |   316K |        |
-----------------------------------------------------------|  1376K |
            SYSTEM DIRECTORY LIST (SDL)             |    64K |        |
'000C1000'X                                         |        |        |
-------------------------------------------------------------------------------
```

VSE POWER Statistics and Memory

```
Report: VSEPWRC      VSE/POWER Configuration                    Velocity Software Corporate   ZMAP   6.1.0
Monitor initialized: 05/27/26 at 11:33:12 on 8562 serial 020F78  First record analyzed: 05/27/26 11:34:00
-------------------------------------------------------------------------------------------------------------
                                                                                          <Queue>
  Time     <--Power Start--> <Last Cold> <-------Memory-in-KB-------> <Data File> <File-> Part    NJE     Sys
  Node        Date      Time  Start Date Ptn Size GV-24   GV-31 Fixed Ext Trk/Blk Trk/Blk  ID  Nodename  ID
--------- ---------- ----- ---------- -------- ----- ------- ----- --- ------- ------- ---- -------- ---
11:35:00
vsen64b    04/27/2026 11:22  11/03/2025    30720 10788   29220   300   1    1920      15   F1 -          -
vsen64c    03/08/2026 10:30  11/03/2025    12288 10784   10784   300   1    1920      15   F1 VSEN64C    -
vsen63b    02/06/2025 13:29  05/23/2022    30720 10788   29220   300   1    1920      15   F1 -          -
vsen63c    03/09/2026 13:30  05/23/2022    15360 10788   13860   300   1    1920      15   F1 VSEN63C    -
```

VSE POWER Statistics and Memory

```
Report: VSEPWRM      VSE/POWER Memory                          Velocity Software Corporate   ZMAP   6.1.0 06/03/26 Page    137
Monitor initialized: 05/27/26 at 11:33:12 on 8562 serial 020F78  First record analyzed: 05/27/26 11:34:00
-------------------------------------------------------------------------------------------------------------------------------
          <---Getvis-24 (KB)----> <-----Getvis-31 (KB)------>         Queue File <Fixable> <Sys-> <--SAS--> <Waiting> <-24 bit->
  Time                  Max  Lrgst                  Max    Lrgst <Tasks> In Memory  <Memory-> <GTVS> <-Tasks-> <for Stg> <Stg Req->
  Node      Used  Free  Used  Free  Used   Free   Used    Free Max Cur Locn  Size Used  Max   Used Curr  Max Virt Real Curr   Max
--------- ----- ----- ----- ----- ------ ------ ------ ------ --- --- ---- ----- ---- ---- ------ ---- ---- ---- ---- ---- -----
11:35:00
vsen64b    180 10608   252 10608   1040  28180   1112  28180  41  36    G   708  104  108     36    0  250    0    0  161  230
vsen64c    300  9484   388  9484   1300   9484   1388   9484  43  35    G   708  104  112     36    1  250    0    0  855  950
vsen63b    180 10608   340 10608   1040  28180   1200  28180  53  36    G   708  104  120     36    0  250    0    0  161  309
vsen63c    204 10584   256 10584    556  13304    612  13300  39  31    V   768  100  108     36    1  250    0    0  113  167
```

VSE POWER Statistics and Memory

```
Report: VSEPWRD      VSE/POWER Queue/Data Files                  Velocity Software Corporate   ZMAP   6.1.0 06/03/26 Pag
Monitor initialized: 05/27/26 at 11:33:12 on 8562 serial 020F78  First record analyzed: 05/27/26 11:34:00
-------------------------------------------------------------------------------------------------------------------------
          <--------------Queue File Records--------------> <-Data File->
  Time                           <--Max Used--->      Pct  Block BlkGrp <--------------Data Block Groups------------->
  Node       Total     Used     Free Coldst CurSes   Bad Used   Size  Size     Total      Used      Free    MxUsed   Bad  Pct
--------- ------- ------- ------- ------ ------ ----- ---- ------ ------ -------- -------- -------- -------- ----- ----
11:35:00
vsen64b      1886      60    1826    158     77     0    3   7548      8     1680       64     1616     1401     0    4
vsen64c      1886      60    1826    158    154     0    3   7548      8     1680      130     1550     1401     0    8
vsen63b      1886      61    1825    155    112     0    3   7548      8     1680      223     1457     1663     0   13
vsen63c      1886      57    1829    256    101     0    3   7548      8     1680       64     1616     1661     0    4
```

Real Time vs Long Term

All of the real time data is displayed in one minute intervals

At the end of the day the one minute data is summarized into 15 minute intervals

This provides a long term database and is the source for capacity planning

Reports are generated in the 15 minute format

These reports cover z/VM, Linux, z/OS, and of course, VSE

VELOCITY SOFTWARE

Velocity Software is the recognized leader in performance and cloud management tools for z/VM, VSE, and Linux on Z

- We also collect several SMF record types from z/OS

Performance management should not be the performance problem

We listen to customers and strive to provide the information and add the functions that you need to our products

Questions and requests info@velocitysoftware.com

VELOCITY SOFTWARE

New Education

Exciting News!!
Velocity Software is now your place for z/VM education!

- **Self-Study and Instructor-led classes**
- **Upcoming Instructor-led Class:**
  - **July 8-10 2026 – Modules 1, 2 and 3 (from our education page)**

Ask about it here at the workshop!
See out website – VelocitySoftware.com/Educate/Training
Send an email to – education@velocitysoftware.com

Thank you!

Questions?

http://www.velocitysoftware.com

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