

VELOCITY  
SOFTWARE

## Monitoring z/VSE with zVPS

VM Workshop  
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# Who is Velocity Software?

Founded 1988, Mission:

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

Continuous fully integrated enhancements for over 30 years

Over 200 installations (zVPS)

- More than half of the IFLs worldwide
- In 22 countries, on 6 continents

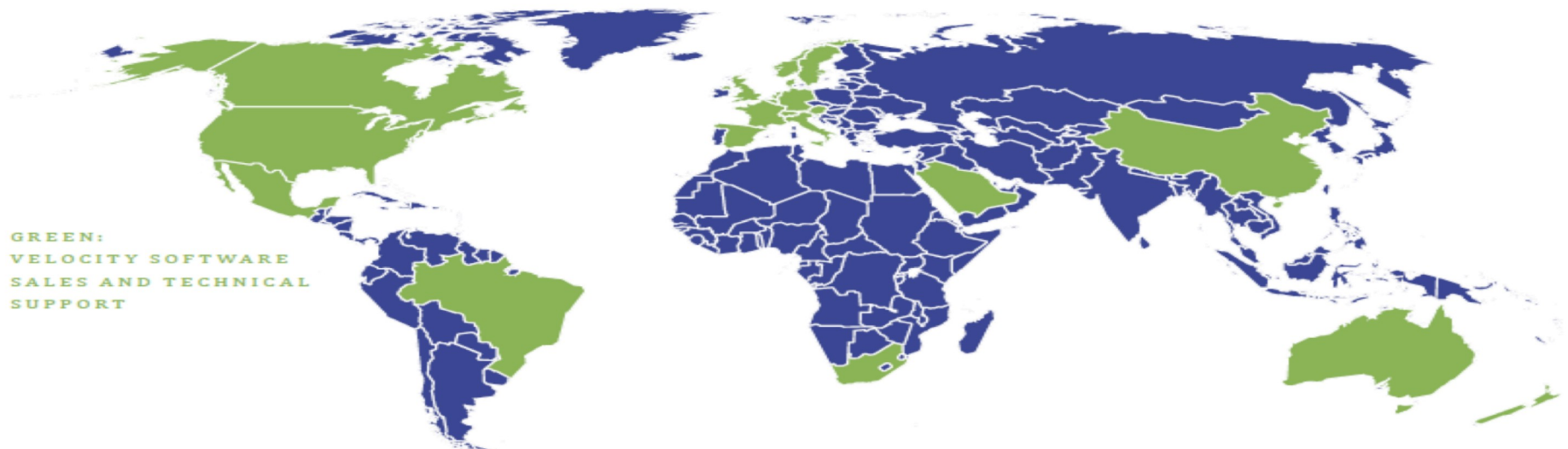
Headquartered in Mountain View, California

- Offices in Ohio, Texas, Wisconsin, and Germany

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## Velocity Software's Sales and Technical Support Map

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## z/VSE introduced SNMP with z/VSE 4.3

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

## 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 - VM4

ESAVSEP - VSE Partition Performance - VM4

Time	Node	Part Id	Job Name	Phase Name	<- CPU% ->	<----- I/O ----->	Rtrn Code	Cncl Code	<----- Start ----->	Stop Time	User Info	Prtly	Share	Job Num
					CPU Ovhd	Disk VDisk Other			Date	Time				
09:59:00	zvse61b		Totals		40.2 4.8	9802 0 20428								
09:59:00	zvse61b	F1	POWSTART	IPWPOWER	1.6 0.4	366.0 0 8.0			05/21/20	07:55:58		1	0	0
09:59:00	zvse61b	FB	SECSERV	BSTPSTS	0.0 0.0	18.0 0 0			05/21/20	07:55:57		2	0	0
09:59:00	zvse61b	F3	VTAMSTRT	ISTINCVT	0.1 0.0	0 0 36.0			05/21/20	07:56:01	SYSA	3	0	49844
09:59:00	zvse61b	T1	BSTTVNET	BSTTVNET	0.1 0.0	2.0 0 19.0			06/04/20	08:02:07		4	0	53418
09:59:00	zvse61b	T2	BSTTFTPD	BSTTFTPS	0 0	0 0 0			06/04/20	08:02:06		4	0	53419
09:59:00	zvse61b	Z1	DMFSTART	DFHDFSIP	0.5 0.1	0 0 4.0			06/04/20	08:02:55		5	0	53422
09:59:00	zvse61b	R1	STARTVCS	IESVCSRV	0.1 0.0	0 0 0			06/04/20	08:01:51		6	0	53420
09:59:00	zvse61b	R2	STARTMAS	IESMASNM	0.2 0.0	0 0 0			06/04/20	08:01:55		6	0	53421
09:59:00	zvse61b	F2	CICSICCF	DFHSIP	0.3 0.0	0 0 0			05/21/20	07:56:35	SYSA	7	0	49850
09:59:00	zvse61b	O1	CICSJA60	DFHSIP	0.4 0.0	2.0 0 10.0			05/26/20	20:14:34		8	0	51255
09:59:00	zvse61b	O2	CICSJB60	DFHSIP	0.2 0.0	0 0 0			05/26/20	20:14:44		8	0	51256
09:59:00	zvse61b	F5	LIBRDIR	LIBR	1.8 0.4	2890 0 20291	0 10		06/04/20	09:57:48	09:57:56 OPERATOR	9	100	53443
09:59:00	zvse61b	F6	SCANVSM2	ARXREXX	23.3 3.5	6517 0 50.0	0 10		06/04/20	09:57:47	09:58:14	9	100	53442
09:59:00	zvse61b	S1	BSTTINET	BSTTINET	0.3 0.0	0 0 2.0			06/04/20	08:01:36		19	0	53417
09:59:00	zvse61b	S2	STGPLAY	STGPLAY	11.3 0.3	7.0 0 8.0			06/04/20	09:58:38		19	0	53439

## 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% ->			<----- I/O ----->			Rtrn Code	Cncl Code	<----- Start ----->	Stop Time	User Info	Prty	Share
					CPU	Ovhd	Disk	VDisk	Other			Date	Time				
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

## TCP/IP monitoring

- Additional plugin written for each TCP/IP stack vendor

z/VSE 5.1+ for VSE system and partition data

z/VSE 5.2+ for CICS

z/VSE 6.1+ for TCP/IP data

- **z/VSE 6.2** is the only currently supported release

VSE<sup>n</sup> 6.3 from 21<sup>st</sup> 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



## 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

## Plugin Implementation

```

CATALOG IESMASCF.Z                                REPLACE=YES
* **** *
* CONFIG FILE FOR z/VSE SNMP MONITORING AGENT *
* **** *
* SNMP COMMUNITY NAME:
COMMUNITYNAME = 'velocity'
* PORT (default SNMP Port 161):
PORT          = '161'
* SYSTEM PLUGIN
PLUGIN        = 'IESMPSYS'
* CPU PLUGIN
PLUGIN        = 'IESMPCPU'
* SAMPLE PLUGIN
* THE SAMPLE PLUGIN IS SHIPED AS SOURCE CODE, YOU
* HAVE TO COMPILE IT, IF YOU WANT TO USE IT
* PLUGIN      = 'IESMPSMP'
PLUGIN       = 'VPSSNMPP'
PLUGIN       = 'VPSBSTCP'
PARM          = 'DD:PRD2.CONFIG(IESMPSCF.Z)'
/+

```

Our plugins  
configured here

## Plugin Startup

```
// EXEC IESMASNM, PARM='DD:PRD2.CONFIG(IESMASCF.Z) '  
1S54I PHASE IESMASNM IS TO BE FETCHED FROM PRD1.BASE  
IESMA101I BEGINNING STARTUP OF MONITORING AGENT  
IESMASNM Loading config member: DD:PRD2.CONFIG(IESMASCF.Z)  
IESMM004I LOADING PLUGIN IESMPSYS...  
IESMM004I LOADING PLUGIN IESMPCPU...  
IESMM004I LOADING PLUGIN VPSSNMPP...  
VPSSNMPP Version 10100  
IESMM004I LOADING PLUGIN VPSBSTCP...  
VPSBNTCP Version 10100  
IESMA102I FINISHED STARTUP OF MONITORING AGENT  
IESMA103I WAITING FOR CONNECTIONS OF CLIENTS...
```

Plugin startup

## CICS configuration

- DFHSIT updates

```

DFHSIT TYPE=CSECT, *
...
MN=ON, MONITORING ON *
MNCONV=YES, MONITORING OF CONVERSATIONAL*
MNEXC=ON, MONITORING EXCEPTION CLASS *
MNFREQ=001500, MONITORING FREQUENCY *
MNPER=ON, MONITORING PERFORMANCE CLASS *
MNSYNC=YES, MONITORING SYNCPOINT *
MNTIME=LOCAL, MONITORING TIME GMT *
...
STATRCD=ON, STATISTICS RECORDING *
```

- Additional steps in the VSEMON User's Guide

## DMF Updates

- Update startup LIBDEF

```
// LIBDEF PHASE,SEARCH=(VSILIB.PHASE,SDL)
```

- Add delay to the startup before DMF

```
// LIBDEF *,SEARCH=VSILIB.REXX  
// EXEC REXX=VSIDELAY
```

## DMF Updates

- DMF configuration phase changes

```

DFHDMFM TABLE, *
    CATALOG=VELOCITY.USER.CATALOG, USE VSICAT *
    FILELIST=(VSE.SYSTEM.DFHDMFA,VSE.SYSTEM.DFHDMFB), *
    INTERVAL=0100,          1 MINUTES 0 SECONDS *
    LISTDSN=YES,          SHOW DATASETS WHEN DMF STARTS *
    SID=V62C,              SYSTEM IDENTIFIER *
    SIZE=16,              USE A 16M DATA SPACE *
    STATUS=ACTIVE,        DMF IS ACTIVE AT START *
    SUFFIX=SP,            THIS TABLE IS CALLED DFHDMFSP *
    TRACE=NO,             NO TRACE ACTIVITY *
    TRTABSZ=1024,         TRACE TABLE SIZE IS 1M *
    TYPE=0:255,          RECORD ALL DMF DATA RECORD TYPES *
    USAGE=40             REDUCE SPACE WHEN 40% FULL
  
```

z/VSE Menu



**Main menu** ✕

Add tab      Arrange

Load View      Save View

Color config

VSIVM4

**zMON**   **Graphs**   **zMAP**

**Capacity**

System

Service Level Analysis

User

Shared File System

CPU

Main Storage

Paging and Spooling

Input/Output Subsystem

Network

Linux

Linux Application

SSC/Docker

zOS

**zVSE**

- ESAVSES
- ESAVSEC
- ESAVSEC2
- ESAVSEP
- ESAVSEJ
- ESACSI1
- ESACSI2

CICS

Screen Index

Emulation Screens

zALERT Definitions

# z/VSE System

## ESAVSES - VSE System Configuration - VM4



Time	Node	VirtID	Lvl	Name	Nbr	<IBM/<model>/CPs/ serial	Max	Cur	Stat	Dyn	Tot	Actv	Quies	Inact	<----- Priority of Partitions ----->
10:14:00	vsen63b	VSEN63B	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
10:14:00	vsen63c	VSEN63C	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
10:14:00	zvse61b	ZVSE61B	1	VSIVM5	5	IBM 8562-A02 02 (40F782)	80	20	12	8	1	1	0	0	(100)=FA(100)=BG(100),O,F2,R,Z,T,F3,FB,F
10:14:00	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
10:14:00	zvse62b	ZVSE62B	1	VSIVM5	5	IBM 8562-A02 02 (40F782)	80	19	12	7	2	2	0	0	0)=FA(100)=BG(100),F9,O,F2,R,Z,T,F3,FB,F
10:14:00	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
10:14:00	BSI62	VSE62	1	JCB	1	IBM 1090-306 02 (23450)	120	18	12	6	1	1	0	0	100)=F5(100),F2,F3,R,Z,F4,S,O,F7,FB,BG,F

## ESAVSEC - VSE System Performance - VM4



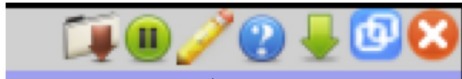
Time	Node	Pages/Sec		<Rate/Sec>		<CPU Utilization>			All	Pct	Seconds	Samples
		In	Out	SVC	DSP	Total	Mstr	Spin	Bound	NP		
10:14:00	vsen63b	0	0	270	339	0.5	0.2	0	94.7	50.0	59.8	1
10:14:00	vsen63c	0	0	265	294	0.6	0.3	0	95.2	59.7	60.0	1
10:14:00	zvse61b	0	0	390	405	1.0	0.5	0	92.7	52.6	60.0	1
10:14:00	zvse61c	0	0	397	410	1.1	0.7	0	92.8	64.6	59.8	1
10:14:00	zvse62b	0	0	19K	5933	31.5	16.8	0.5	77.4	53.4	59.6	1
10:14:00	zvse62c	0	0	397	409	0.8	0.5	0	93.1	60.1	60.0	1
10:14:00	BSI62	0	0	161	178	0.7	0.4	0	98.7	57.9	60.1	1

## ESAVSEC2 - VSE System Performance per CPU - VM4



Time	Node	CPU	Disp	<CPU Utilization>			All	Pct	Seconds	Samples
			/Sec	Total	Mstr	Spin	Bound	NP		
10:14:00	vsen63b	0	338	0.5	0.2	0	94.7	49.7	60	1
10:14:00	vsen63c	0	294	0.6	0.3	0	95.2	59.7	60	1
10:14:00	zvse61b	0	405	1.0	0.5	0	92.6	52.8	60	1
10:14:00	zvse61c	0	410	1.1	0.7	0	92.8	64.6	60	1
10:14:00	zvse62b	0	2837	15.2	8.0	0.2	40.6	52.6	60	1
10:14:00	zvse62b	1	3100	16.4	8.8	0.3	36.7	54.1	59	1
10:14:00	zvse62c	0	409	0.8	0.5	0	93.1	60.2	60	1
10:14:00	BSI62	0	169	0.6	0.4	0	98.8	58.8	60	1





## Parameters

### ESAVSEC Parameters

Start Date

Start Time

End Date

End Time

User Class

Node name

Click to build direct URL

ESAVSEC - VSE System Performance - Demo												
Time	Node	Pages/Sec		<Rate/Sec>		<CPU Utilization>			All	Pct	Seconds	Samples
		In	Out	SVC	DSP	Total	Mstr	Spin	Bound	NP		
04:01:00	zvse62b	0	0.0	4294	3147	33.6	12.3	0	0	36.6	60.7	1
04:00:00	zvse62b	0	0	4014	2969	33.9	10.9	0	0	32.1	60.0	1
03:59:00	zvse62b	0	0	4139	3043	33.0	11.2	0	0	34.0	60.2	1
03:58:00	zvse62b	0	0	4199	3058	32.1	11.3	0	0.0	35.1	60.3	1
03:57:00	zvse62b	0	0	4070	3006	32.5	11.1	0	0	34.2	59.1	1
03:56:00	zvse62b	0	0	4474	3419	31.5	12.7	0	10.0	40.2	60.6	1
03:55:00	zvse62b	0	0	4652	3563	26.1	13.0	0	46.2	49.8	59.6	1
03:54:00	zvse62b	0	0	4587	3527	25.7	12.8	0	47.2	49.8	60.5	1
03:53:00	zvse62b	0	0	4652	3543	25.9	12.9	0	48.3	49.7	59.2	1
03:52:00	zvse62b	0	0	4698	3607	26.2	13.1	0	47.4	49.8	60.6	1
03:51:00	zvse62b	0	0	5388	3765	29.2	14.4	0	42.3	49.5	59.8	1
03:50:00	zvse62b	0	0	11K	5365	54.9	26.3	0	0.7	47.9	60.2	1
03:49:00	zvse62b	0	0	12K	5632	56.2	27.1	0	2.2	48.2	60.0	1
03:48:00	zvse62b	0	0	11K	5638	55.1	26.7	0	2.1	48.6	59.5	1
03:47:00	zvse62b	0	0	12K	5551	57.1	27.3	0	0.9	47.7	60.1	1
03:46:00	zvse62b	0	0	11K	5785	51.7	26.3	0	8.7	50.8	59.7	1
03:45:00	zvse62b	0	0	4785	3658	27.1	13.5	0	43.2	49.8	60.0	1
03:44:00	zvse62b	0	0	4818	3670	27.2	13.5	0	44.0	49.5	60.6	1
03:43:00	zvse62b	0	0	5002	3819	27.8	13.8	0	45.0	49.9	60.0	1
03:42:00	zvse62b	0	0	4728	3627	26.8	13.2	0	45.9	49.4	59.4	1
03:41:00	zvse62b	0	0	6055	4300	33.1	16.8	0	27.4	50.8	60.7	1
03:40:00	zvse62b	0	0	4667	3541	26.4	13.1	0	45.2	49.6	60.0	1
03:39:00	zvse62b	0	0	4898	3743	27.5	13.7	0	43.7	49.7	59.6	1
03:38:00	zvse62b	0	0	4512	3454	25.6	12.8	0	44.7	49.8	60.0	1
03:37:00	zvse62b	0	0	4617	3479	26.7	13.1	0	33.2	49.2	60.1	1
03:36:00	zvse62b	0	0	4688	3549	26.9	13.3	0	34.7	49.7	60.0	1
03:35:00	zvse62b	0	0	4406	3361	26.1	12.8	0	33.9	49.1	60.6	1
03:34:00	zvse62b	0	0	4387	3342	25.8	12.8	0	31.4	49.6	59.8	1
03:33:00	zvse62b	0	0	4386	3316	25.6	12.6	0	27.9	49.1	60.0	1
03:32:00	zvse62b	0	0	4412	3313	25.7	12.6	0	22.1	49.2	59.5	1
03:31:00	zvse62b	0	0	4528	3436	26.5	13.5	0	30.0	50.8	60.5	1
03:30:00	zvse62b	0	0	4638	3543	26.0	13.0	0	47.0	49.9	59.8	1
03:29:00	zvse62b	0	0	4643	3576	26.7	13.2	0	42.1	49.5	59.7	1
03:28:00	zvse62b	0	0	4632	3511	25.7	12.8	0	47.9	49.8	60.2	1
03:27:00	zvse62b	0	0	4812	3661	26.8	13.3	0	45.9	49.8	59.1	1
03:26:00	zvse62b	0	0	4817	3685	26.8	13.3	0	45.6	49.8	61.0	1
03:25:00	zvse62b	0	0	4814	3677	26.9	13.4	0	46.0	49.8	60.0	1
03:24:00	zvse62b	0	0	4968	3721	59.4	14.4	0	4.4	24.2	59.9	1
03:23:00	zvse62b	0	0	4682	3504	60.4	12.8	0	0	21.1	59.5	1
03:22:00	zvse62b	0	0	4679	3607	58.6	14.0	0	0.0	23.9	60.1	1
03:21:00	zvse62b	0	0	10K	5024	57.6	23.1	0	0	40.1	60.7	1
03:20:00	zvse62b	0	0	11K	5715	56.4	26.9	0	0	47.7	59.2	1
03:19:00	zvse62b	0	0	12K	5409	56.3	26.8	0	0	47.6	60.7	1
03:18:00	zvse62b	0	0	11K	5521	55.6	26.3	0	0	47.3	59.4	1
03:17:00	zvse62b	0	0.0	11K	5681	54.1	26.7	0	0	49.3	59.8	1
03:16:00	zvse62b	0	0.0	8134	4716	42.3	20.7	0	0	48.9	60.3	1
03:15:00	zvse62b	0	0	4100	3014	29.6	11.3	0	0	38.0	60.3	1
03:14:00	zvse62b	0	0	3654	2670	22.5	10.0	0	0	44.4	59.6	1
03:13:00	zvse62b	0	0	3580	2614	22.8	9.9	0	0	43.4	60.1	1
03:12:00	zvse62b	0	0	3633	2682	22.5	10.1	0	0	45.1	59.9	1
03:11:00	zvse62b	0	0	3999	2936	27.8	11.0	0	0	39.6	60.5	1
03:10:00	zvse62b	0	0	4216	3143	40.6	11.8	0	0.0	29.1	59.9	1
03:09:00	zvse62b	0	0	4180	3080	33.6	11.6	0	0	34.5	60.4	1
03:08:00	zvse62b	0	0	3962	2938	32.4	11.0	0	0	34.1	59.5	1
03:07:00	zvse62b	0	0	4005	2955	31.6	11.2	0	0	35.5	58.9	1
03:06:00	zvse62b	0	0	3309	2447	19.5	9.4	0	0	48.2	61.5	1
03:05:00	zvse62b	0	0	3915	2922	30.3	11.8	0	0.0	38.8	59.7	1
03:04:00	zvse62b	0	0	4096	2973	28.0	11.4	0	0	40.9	59.6	1
03:03:00	zvse62b	0	0	4220	3112	32.6	11.8	0	0	36.3	60.0	1
03:02:00	zvse62b	0	0	4061	2994	31.1	11.4	0	0.0	36.5	60.8	1
03:01:00	zvse62b	0	0.0	4231	3095	31.9	12.1	0	0	37.8	59.4	1

# z/VSE Partitions

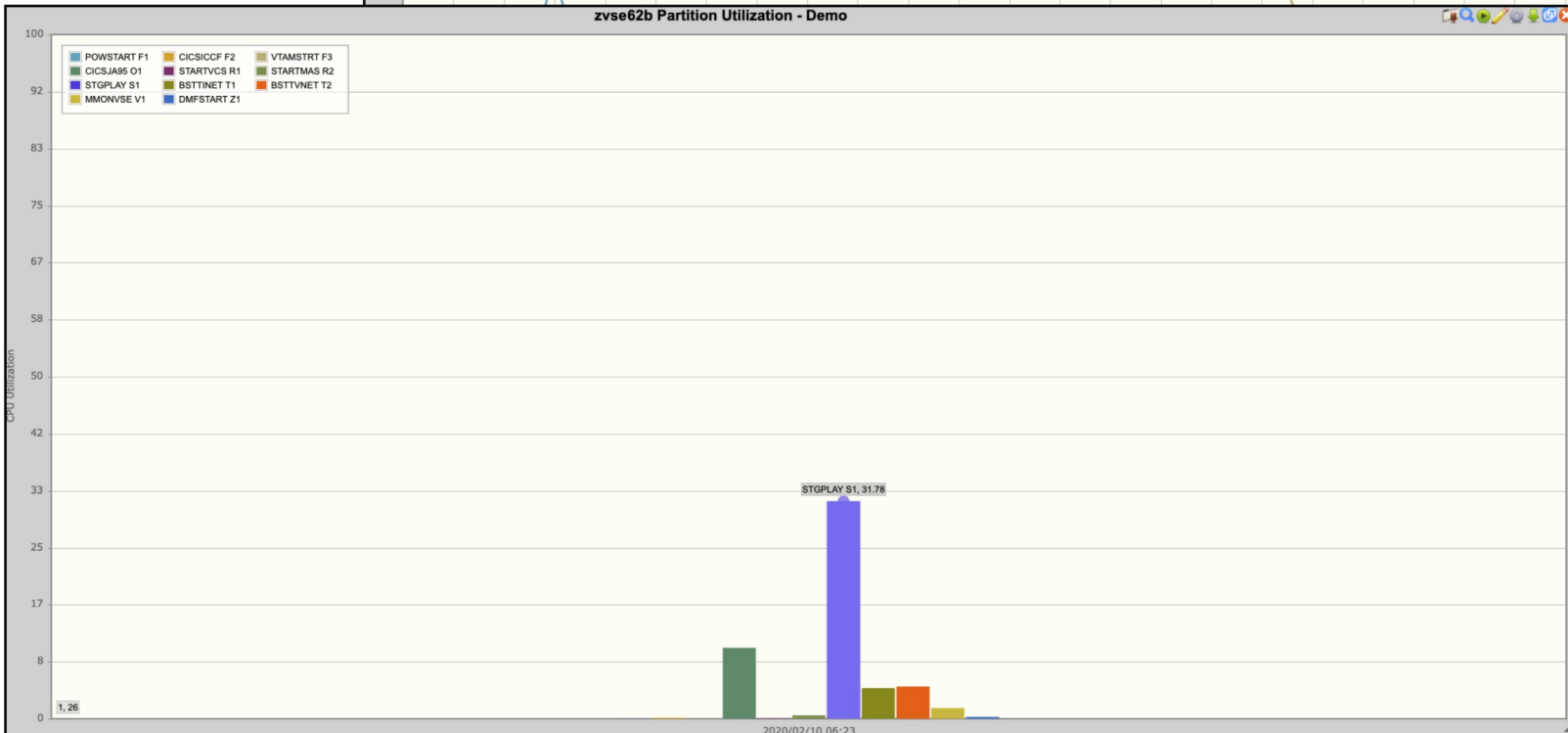
ESAVSEP - VSE Partition Performance - VM4																		
Time	Node	Part Id	Job Name	Phase Name	CPU%		I/O			Rtrn Code	Cncl Code	Start		Stop Time	User Info	Prtly	Share	Job Num
					CPU	Ovhd	Disk	VDisk	Other			Date	Time					
10:01:00	zvse61b		Totals		3.9	0.6	230.0	0	16.0									
10:01:00	zvse61b	F1	POWSTART	IPWPOWER	0.0	0.0	19.0	0	15.0			05/21/20	07:55:58			1	0	0
10:01:00	zvse61b	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	07:55:57			2	0	0
10:01:00	zvse61b	F3	VTAMSTR	ISTINCVT	0.0	0.0	0	0	0			05/21/20	07:56:01	SYSA		3	0	49844
10:01:00	zvse61b	S1	BSTTINET	BSTTINET	0.6	0.1	0	0	0			06/04/20	08:01:36			4	0	53417
10:01:00	zvse61b	T1	BSTTVNET	BSTTVNET	0.3	0.1	0	0	0			06/04/20	08:02:07			5	0	53418
10:01:00	zvse61b	T2	BSTTFPD	BSTTFPS	0	0	0	0	0			06/04/20	08:02:06			5	0	53419
10:01:00	zvse61b	Z1	DMFSTART	DFHDFSIP	0.1	0.0	0	0	1.0			06/04/20	08:02:55			6	0	53422
10:01:00	zvse61b	R1	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			06/04/20	08:01:51			7	0	53420
10:01:00	zvse61b	R2	STARTMAS	IESMASNM	0.2	0.0	0	0	0			06/04/20	08:01:55			7	0	53421
10:01:00	zvse61b	F2	CICSICCF	DFHSIP	0.1	0.0	9.0	0	0			05/21/20	07:56:35	SYSA		8	0	49850
10:01:00	zvse61b	O1	CICSJA60	DFHSIP	1.7	0.3	183.0	0	0			05/26/20	20:14:34			9	0	51255
10:01:00	zvse61b	O2	CICSJB60	DFHSIP	0.8	0.1	19.0	0	0			05/26/20	20:14:44			9	0	51256
10:01:00	zvse61c		Totals		57.4	7.8	18740	0	442.0									
10:01:00	zvse61c	F1	POWSTART	IPWPOWER	0.1	0.0	34.0	0	3.0			05/21/20	08:07:43			1	0	0
10:01:00	zvse61c	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	08:07:43			2	0	0
10:01:00	zvse61c	F3	VTAMSTR	ISTINCVT	0.0	0.0	0	0	0			05/21/20	08:07:50	SYSA		3	0	50933
10:01:00	zvse61c	T1	TCPIPO0	IPNET	1.1	0.1	0	0	0			05/22/20	10:30:32			4	0	51227
10:01:00	zvse61c	T2	SVSESRVR	SVSESRVR	0.0	0.0	0	0	0			05/23/20	16:40:03			4	0	51554
10:01:00	zvse61c	Z1	DMFSTART	DFHDFSIP	0.2	0.0	16.0	0	1.0			05/22/20	10:31:55			5	0	51231
10:01:00	zvse61c	R1	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			05/22/20	10:31:09			6	0	51229
10:01:00	zvse61c	R2	STARTMAS	IESMASNM	0.2	0.0	0	0	0			05/23/20	16:45:30			6	0	51559
10:01:00	zvse61c	F2	CICSICCF	DFHSIP	0.0	0.0	0	0	0			05/21/20	08:08:13	SYSA		7	0	50937
10:01:00	zvse61c	O1	CICSJA68	DFHSIP	1.8	0.2	206.0	0	0			05/21/20	08:08:28			8	0	50938
10:01:00	zvse61c	Y1	2 Job	steps V	2.5	0.3	2226	0	204.0							20	0	
10:01:00	zvse61c	Y2	3 Job	steps V	24.9	3.4	12558	0	151.0							20	0	
10:01:00	zvse61c	Y3	3 Job	steps V	26.7	3.6	3700	0	83.0							20	0	
10:01:00	zvse62b		Totals		1.0	0.4	511.0	0	1326									
10:01:00	zvse62b	F1	POWSTART	IPWPOWER	0.1	0.0	48.0	0	6.0			05/21/20	08:09:14			1	0	0
10:01:00	zvse62b	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	08:09:14			2	0	0
10:01:00	zvse62b	F3	VTAMSTR	ISTINCVT	0.0	0.0	0	0	0			05/21/20	08:09:28	SYSA		3	0	36114
10:01:00	zvse62b	T1	BSTTINET	BSTTINET	0.3	0.1	0	0	0			05/21/20	08:09:31			4	0	36116
10:01:00	zvse62b	T2	BSTTVNET	BSTTVNET	0.1	0.0	0	0	0			05/21/20	08:10:01			4	0	36117
10:01:00	zvse62b	T3	BSTTFPD	BSTTFPS	0	0	0	0	0			05/21/20	08:10:01			4	0	36118
10:01:00	zvse62b	Z1	DMFSTART	DFHDFSIP	0.1	0.0	0	0	1.0			06/05/20	07:44:50			5	0	44145
10:01:00	zvse62b	R1	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			05/21/20	08:10:07			6	0	36122
10:01:00	zvse62b	R2	STARTMAS	IESMASNM	0.1	0.0	0	0	0			05/21/20	08:10:06			6	0	36123
10:01:00	zvse62b	F2	CICSICCF	DFHSIP	0.0	0.0	0	0	0			05/21/20	08:09:51	SYSA		7	0	36120
10:01:00	zvse62b	O1	CICSJA95	DFHSIP	0.2	0.1	0	0	0			05/21/20	08:10:07			8	0	36121
10:01:00	zvse62b	F4	2 Job	steps V	0.1	0.0	308.0	0	878.0							9	100	
10:01:00	zvse62b	F5	LIBRDIR3	LIBR	0.0	0.0	155.0	0	441.0	0	10	06/05/20	10:00:00	10:00:00		9	100	44201



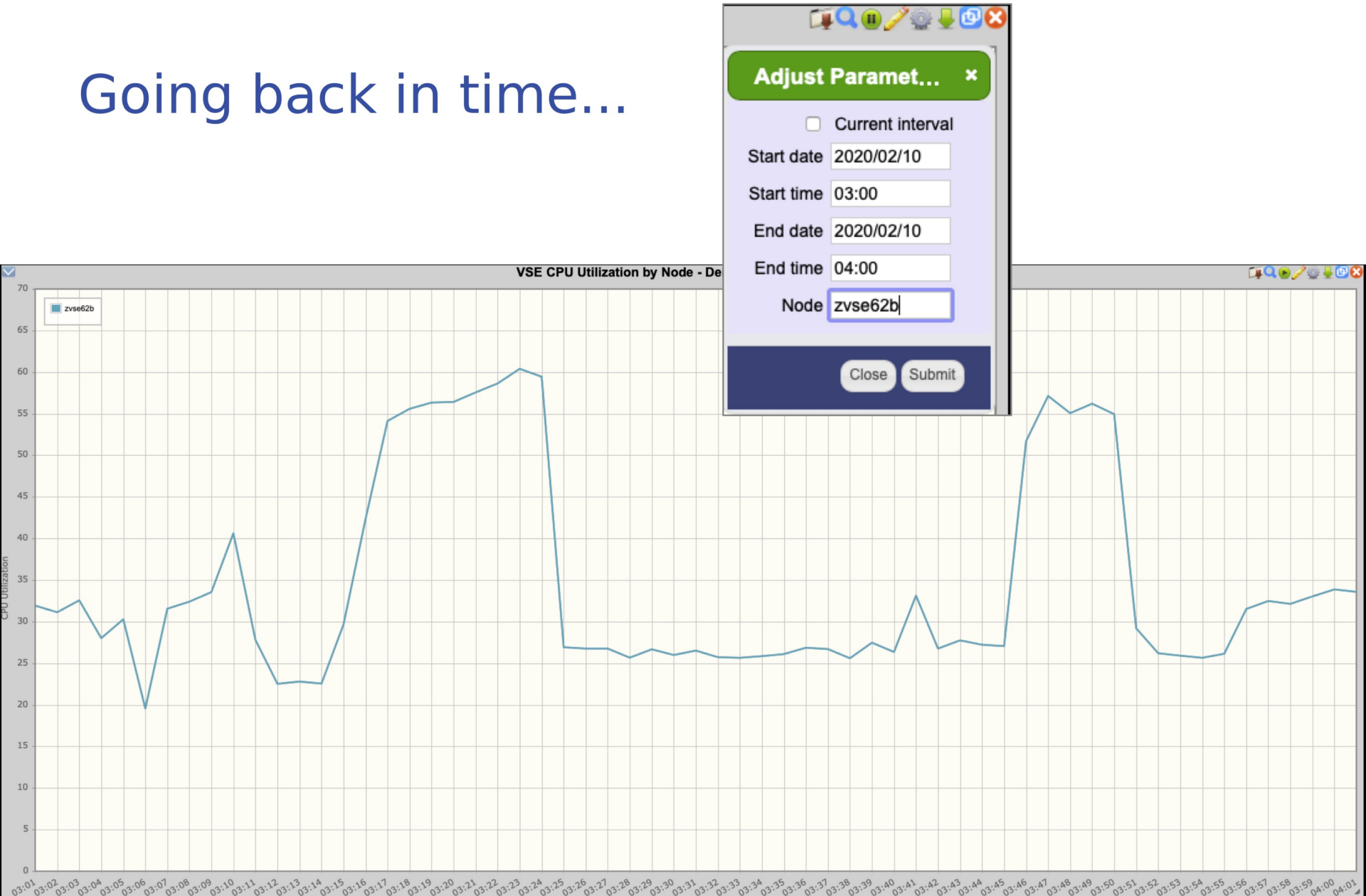
# z/VSE Partition drill down

ESAVSEP - VSE Partition Performance - VM4																				
Time	Node	Part	Job	Phase	CPU%		I/O			Rtrn	Cncl	Start		Stop	User	Info	Prty	Share	Job	
					CPU	Ovhd	Disk	VDisk	Other	Code	Code	Date	Time	Time					Num	
10:01:00	zvse61b		Totals		3.9	0.6	230.0	0	16.0											
10:01:00	zvse61b	F1	POWSTART	IPWPOWER	0.0	0.0	19.0	0	15.0			05/21/20	07:55:58				1	0	0	
10:01:00	zvse61b	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	07:55:57				2	0	0	
10:01:00	zvse61b	F3	VTAMSTR	ISTINCVT	0.0	0.0	0	0	0			05/21/20	07:56:01		SYSA		3	0	49844	
10:01:00	zvse61b	S1	BSTTINET	BSTTINET	0.6	0.1	0	0	0			06/04/20	08:01:36				4	0	53417	
10:01:00	zvse61b	T1	BSTTVNET	BSTTVNET	0.3	0.1	0	0	0			06/04/20	08:02:07				5	0	53418	
10:01:00	zvse61b	T2	BSTTFTPD	BSTTFTPS	0	0	0	0	0			06/04/20	08:02:06				5	0	53419	
10:01:00	zvse61b	Z1	DMFSTART	DFHDFSIP	0.1	0.0	0	0	1.0			06/04/20	08:02:55				6	0	53422	
10:01:00	zvse61b	R1	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			06/04/20	08:01:51				7	0	53420	
10:01:00	zvse61b	R2	STARTMAS	IESMASNM	0.2	0.0	0	0	0			06/04/20	08:01:55				7	0	53421	
10:01:00	zvse61b	F2	CICSICCF	DFHSIP	0.1	0.0	9.0	0	0			05/21/20	07:56:35		SYSA		8	0	49850	
10:01:00	zvse61b	O1	CICSJA60	DFHSIP	1.7	0.3	183.0	0	0			05/26/20	20:14:34				9	0	51255	
10:01:00	zvse61b	O2	CICSJB60	DFHSIP	0.8	0.1	19.0	0	0			05/26/20	20:14:44				9	0	51256	
10:01:00	zvse61c		Totals		57.4	7.8	18740	0	442.0											
10:01:00	zvse61c	F1	POWSTART	IPWPOWER	0.1	0.0	34.0	0	3.0			05/21/20	08:07:43				1	0	0	
10:01:00	zvse61c	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	08:07:43				2	0	0	
10:01:00	zvse61c	F3	VTAMSTR	ISTINCVT	0.0	0.0	0	0	0			05/21/20	08:07:50		SYSA		3	0	50933	
10:01:00	zvse61c	T1	TCPIP00	IPNET	1.1	0.1	0	0	0			05/22/20	10:30:32				4	0	51227	
10:01:00	zvse61c	T2	SVSESRVR	SVSESRVR	0.0	0.0	0	0	0			05/23/20	16:40:03				4	0	51554	
10:01:00	zvse61c	Z1	DMFSTART	DFHDFSIP	0.2	0.0	16.0	0	1.0			05/22/20	10:31:55				5	0	51231	
10:01:00	zvse61c	R1	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			05/22/20	10:31:09				6	0	51229	
10:01:00	zvse61c	R2	STARTMAS	IESMASNM	0.2	0.0	0	0	0			05/23/20	16:45:30				6	0	51559	
10:01:00	zvse61c	F2	CICSICCF	DFHSIP	0.0	0.0	0	0	0			05/21/20	08:08:13		SYSA		7	0	50937	
10:01:00	zvse61c	O1	CICSJA68	DFHSIP	1.8	0.2	206.0	0	0			05/21/20	08:08:28				8	0	50938	
10:01:00	zvse61c	Y1	2 Job	steps V	2.5	0.3	2226	0	204.0								20	0		
10:01:00	zvse61c	Y2	3 Job	steps V	24.9	3.4	12558	0	151.0								20	0		
10:01:00	zvse61c	Y2	SCANVSM2	ARKREXX	2.4	0.4	2253	0	14.0			06/05/20	10:00:48		VSM2		20	0	54781	
10:01:00	zvse61c	Y2	SCANVSM2	ARKREXX	11.2	1.6	5138	0	48.0	0	10	06/05/20	10:00:26	10:00:48	VSM2		20	0	54781	
10:01:00	zvse61c	Y2	SCANVSM2	ARKREXX	11.2	1.5	5167	0	89.0	0	10	06/05/20	10:00:01	10:00:26	VSM2		20	0	54781	
10:01:00	zvse61c	Y3	3 Job	steps V	26.7	3.6	3700	0	83.0								20	0		
10:01:00	zvse62b		Totals		1.0	0.4	511.0	0	1326											
10:01:00	zvse62b	F1	POWSTART	IPWPOWER	0.1	0.0	48.0	0	6.0			05/21/20	08:09:14				1	0	0	
10:01:00	zvse62b	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	08:09:14				2	0	0	
10:01:00	zvse62b	F3	VTAMSTR	ISTINCVT	0.0	0.0	0	0	0			05/21/20	08:09:28		SYSA		3	0	36114	
10:01:00	zvse62b	T1	BSTTINET	BSTTINET	0.3	0.1	0	0	0			05/21/20	08:09:31				4	0	36116	
10:01:00	zvse62b	T2	BSTTVNET	BSTTVNET	0.1	0.0	0	0	0			05/21/20	08:10:01				4	0	36117	
10:01:00	zvse62b	T3	BSTTFTPD	BSTTFTPS	0	0	0	0	0			05/21/20	08:10:01				4	0	36118	
10:01:00	zvse62b	Z1	DMFSTART	DFHDFSIP	0.1	0.0	0	0	1.0			06/05/20	07:44:50				5	0	44145	
10:01:00	zvse62b	R1	STARTVCS	IESVCSRV	0.0	0.0	0	0	0			05/21/20	08:10:07				6	0	36122	
10:01:00	zvse62b	R2	STARTMAS	IESMASNM	0.1	0.0	0	0	0			05/21/20	08:10:06				6	0	36123	
10:01:00	zvse62b	F2	CICSICCF	DFHSIP	0.0	0.0	0	0	0			05/21/20	08:09:51		SYSA		7	0	36120	
10:01:00	zvse62b	O1	CICSJA95	DFHSIP	0.2	0.1	0	0	0			05/21/20	08:10:07				8	0	36121	
10:01:00	zvse62b	F4	2 Job	steps V	0.1	0.0	308.0	0	878.0								9	100		
10:01:00	zvse62b	F5	LIBRDIR3	LIBR	0.0	0.0	155.0	0	441.0	0	10	06/05/20	10:00:00	10:00:00			9	100	44201	

# z/VSE System



## Going back in time...




Our Enterprise View shows activity from multiple z/VM LPARs on a single screen

Click an LPAR to see zVIEW for that LPAR

Click a VSE system to see that VSE

Today is Saturday 13 Jun 2020

 Enterprise Performance Summary

VM2 <span style="float: right;">Expand</span>			
<a href="#">VM2</a>	14:59	<a href="#">IFL</a> Total (1)	1.09%
VSE Systems			
<a href="#">zvse61c</a>	28.15%	<div style="width: 28.15%;"></div>	
<a href="#">zvse62b</a>	28.14%	<div style="width: 28.14%;"></div>	
<a href="#">zvse62c</a>	27.17%	<div style="width: 27.17%;"></div>	
<a href="#">win</a>	27.12%	<div style="width: 27.12%;"></div>	
<a href="#">zvse61b</a>	26.97%	<div style="width: 26.97%;"></div>	
8 Linux Nodes(z/VM-Guests)			
<a href="#">DOCKER</a> (1)	2.25%	<div style="width: 2.25%;"></div>	
<a href="#">redhat6x</a> (1)	0.49%	<div style="width: 0.49%;"></div>	
<a href="#">s11s2ora</a> (2)	0.40%	<div style="width: 0.40%;"></div>	
<a href="#">redhat6</a> (1)	0.12%	<div style="width: 0.12%;"></div>	
<a href="#">redhat6S</a> (1)	0.12%	<div style="width: 0.12%;"></div>	
<a href="#">redhat62</a> (1)	0.12%	<div style="width: 0.12%;"></div>	
<a href="#">redhat6M</a> (1)	0.08%	<div style="width: 0.08%;"></div>	
<a href="#">sles12</a> (1)	0.03%	<div style="width: 0.03%;"></div>	
2 Linux Nodes(Distributed Servers)			
<a href="#">linux9</a> (5)	102.94%	<div style="width: 102.94%;"></div>	
<a href="#">mongo02</a> (2)	0.24%	<div style="width: 0.24%;"></div>	

## Clicking on a VSE system name...

### ESAVSEC2 - VSE System Performance per CPU - VM2

Time	Node	CPU	Disp /Sec	<CPU Utilization>			All	Pct		
			Total	Mstr	Spin	Bound	NP	Seconds	Samples	
15:07:00	zvse61c	0	423	1.2	0.8	0	98.7	67.4	60	1

### ESAVSES - VSE System Configuration - VM2

Time	Node	<---z/VM---	<LogicalPart>	<-----CPU model----->	<--Partitions-->	<-----CPU Counts----->				<----- Priority of Part			
		VirtID	Lvl Name	Nbr	<IBM/<model>/CPs/ serial	Max	Cur	Stat	Dyn	Tot	Actv	Quies	Inact
15:07:00	zvse61c	ZVSE61C	1	VSIVM5	5	IBM 8562-A02 02 (40F782)	80	18	12	6	1	1	0

### ESAVSEC - VSE System Performance - VM2

Time	Node	Pages/Sec		<Rate/Sec>		<CPU Utilization>			All	Pct		
		In	Out	SVC	DSP	Total	Mstr	Spin	Bound	NP	Seconds	Samples
15:07:00	zvse61c	0	0	397	423	1.2	0.8	0	98.7	67.4	60.1	1

### VSE CPU Utilization by Node

Time	CPU Utilization (%)
14:38	0
14:40	0
14:42	0
14:44	0
14:46	0
14:48	0
14:50	0
14:52	0
14:54	0
14:56	25
14:58	28
15:00	28
15:01	10
15:02	55
15:03	0
15:04	0
15:05	0
15:06	0
15:07	0

### ESAVSEP - VSE Partition Performance - VM2

Time	Node	Part	Job	Phase	<- CPU% ->		<----- I/O ----->			Rtrn	Cncl	<--- Start --->	Stop
		Id	Name	Name	CPU	Ovhd	Disk	VDisk	Other	Code	Code	Date	Time
15:07:00	zvse61c	Totals			1.0	0.2	13.0	0	1.0				
15:07:00	zvse61c	F1	POWSTART	IPWPOWER	0.0	0.0	0	0	0			05/21/20	08:07:43
15:07:00	zvse61c	FB	SECSERV	BSTPSTS	0	0	0	0	0			05/21/20	08:07:43
15:07:00	zvse61c	F3	VTAMSTRT	ISTINCVT	0.0	0.0	0	0	0			05/21/20	08:07:50
15:07:00	zvse61c	T1	TCPIP00	IPNET	0.5	0.1	0	0	0			05/22/20	10:30:32
15:07:00	zvse61c	T2	SVSESRVR	SVSESRVR	0.0	0.0	0	0	0			05/23/20	16:40:03
15:07:00	zvse61c	Z1	DMFSTART	DFHDFSIP	0.2	0.1	13.0	0	1.0			05/22/20	10:31:55
15:07:00	zvse61c	R1	STARTVCS	IESVCSRVR	0.0	0.0	0	0	0			05/22/20	10:31:09
15:07:00	zvse61c	R2	STARTMAS	IESMASNM	0.2	0.0	0	0	0			05/23/20	16:45:30
15:07:00	zvse61c	F2	CICSICCF	DFHSIP	0.0	0.0	0	0	0			05/21/20	08:08:13
15:07:00	zvse61c	O1	CICSJA68	DFHSIP	0.0	0.0	0	0	0			05/21/20	08:08:28

## Load the MyVSE view to see all VSE systems

### ESAVSEC2 - VSE System Performance per CPU - VM2

Time	Node	CPU	Disp /sec	<CPU Utilization> Total	<Rate/Sec> Matr	<Rate/Sec> 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	<LogicalPart> Lvl	<LogicalPart> Name	<-----CPU model-----> Nbr	<-----CPU model-----> <IBM/<model>/CPs/ serial	<---Partitions--> Max	<---Partitions--> Cur	<---Partitions--> Stat	<---Partitions--> Dyn	<---Partitions--> Tot	<---CPU Counts--> Actv	<---CPU Counts--> Quies	<---CPU Counts--> Inact	<----- Priority of Partitions ----->
10:10:00	zvse61b	ZVSE61B	1	VSI	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	VSI	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	VSI	5	IBM 8562-A02 02 (40F782)	80	19	12	7	1	1	0	0	0(100)=FA(100)=BG(100),O,F2,R,Z,T,F3,FB,F
10:10:00	zvse62c	ZVSE62C	1	VSI	5	IBM 8562-A02 02 (40F782)	80	18	12	6	1	1	0	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	Pages/Sec Out	<Rate/Sec> SVC	<Rate/Sec> DSP	<CPU Utilization> Total	<Rate/Sec> Matr	<Rate/Sec> 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

### VSE CPU Utilization by Node

### ESAVSEP - VSE Partition Performance - VM2

Time	Node	Part Job	Phase	<- CPU% ->	<----- I/O ----->	Rtrn Cncl	<----- Start ----->	Stop	User Info	Prtly Share	Job Num
Time	Node	Id Name	Name	CPU Ovdh	Diak VDisk	Other Code Code	Date	Time			
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			1 0 0
10:10:00	zvse61b	FB SECSERV	BSTPSTS	0	0	0	0	0			2 0 0
10:10:00	zvse61b	F3 VTMSTRT	ISTINCVT	0.0	0.0	0	0	0			3 0 49844
10:10:00	zvse61b	S1 BSTTINET	BSTTINET	0.6	0.1	0	0	0			4 0 53417
10:10:00	zvse61b	T1 BSTTVNET	BSTTVNET	0.4	0.1	0	0	0			5 0 53418
10:10:00	zvse61b	T2 BSTTFPD	BSTTFPS	0	0	0	0	0			5 0 53419
10:10:00	zvse61b	Z1 DMFSTART	DFHDFSP	0.1	0.0	0	0	1.0			6 0 53422
10:10:00	zvse61b	R1 STARVCS	IESVCSRV	0.0	0.0	0	0	0			7 0 53420
10:10:00	zvse61b	R2 STARTMAS	IESMASNM	0.1	0.0	0	0	0			7 0 53421
10:10:00	zvse61b	F2 CICSICCF	DFHSIP	0.0	0.0	0	0	0			8 0 49850
10:10:00	zvse61b	O1 CICSJA60	DFHSIP	2.4	0.3	195.0	0	0			9 0 51255
10:10:00	zvse61b	O2 CICSJB60	DFHSIP	1.1	0.2	17.0	0	0			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			1 0 0
10:10:00	zvse61c	FB SECSERV	BSTPSTS	0	0	0	0	0			2 0 0
10:10:00	zvse61c	F3 VTMSTRT	ISTINCVT	0.0	0.0	0	0	0			3 0 50933
10:10:00	zvse61c	T1 TCPIP00	IPNET	1.1	0.2	0	0	0			4 0 51227
10:10:00	zvse61c	T2 SVESRVR	SVESRVR	0.0	0.0	0	0	0			4 0 51554
10:10:00	zvse61c	Z1 DMFSTART	DFHDFSP	0.2	0.0	16.0	0	1.0			5 0 51231
10:10:00	zvse61c	R1 STARVCS	IESVCSRV	0.0	0.0	0	0	0			6 0 51229
10:10:00	zvse61c	R2 STARTMAS	IESMASNM	0.2	0.0	0	0	0			6 0 51559
10:10:00	zvse61c	F2 CICSICCF	DFHSIP	0.0	0.0	0	0	0			7 0 50937
10:10:00	zvse61c	O1 CICSJA68	DFHSIP	1.7	0.3	233.0	0	0			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			1 0 0
10:10:00	zvse62b	FB SECSERV	BSTPSTS	0.0	0.0	0	0	0			2 0 0



MYVSE

ESAVSEC2 - VSE System Parameters

Time	Node	CPU /Sec	Disks /Sec	<CPU Utilization>
				Total Matr S
07:39:00	zvae61b	0	1479	17.7 5.7
07:39:00	zvae61c	0	701	5.1 3.1
07:39:00	zvae62b	0	3777	27.4 13.6
07:39:00	zvae62c	0		
07:39:00	BSI62	0	194	0.8 0.5

ESAVSEC2 - VSE System Parameters

Time	Node	Pages/Sec	<Rate/Sec>	<CPU>
		In Out SVC DSP		Tota
07:39:00	zvae61b	0	0 1699 1472	17.7
07:39:00	zvae61c	0	0 682 711	5.1
07:39:00	zvae62b	0	0 4840 3715	27.4
07:39:00	BSI62	0	0 231 201	0.8

ESAVSEP - VSE System Parameters

Time	Node	Part Job	Phase
		Id Name	Name
07:39:00	BSI62	Totals	
07:39:00	BSI62	FB SECSERV	BSTPSTS
07:39:00	BSI62	F1 POWSTART	IPWPOWER
07:39:00	BSI62	F2 CICSICCF	DFHSIP
07:39:00	BSI62	F3 VTAMSTRT	ISTINCVT
07:39:00	BSI62	F7 OPTITAPE	BSOTMAIN
07:39:00	BSI62	P1	
07:39:00	BSI62	R1 OPTIAUDT	BSAUMAIN
07:39:00	BSI62	R2 INETOSA	BSTINET
07:39:00	BSI62	R3 INETOSA6	BST6NET
07:39:00	BSI62	R4 VNET66	BSTVNET
07:39:00	BSI62	S1 FTPS00T	BSTFTPS
07:39:00	BSI62	S2 FTPS66	BSTFTPS
07:39:00	BSI62	Z1 STARTMAS	IESMASNM
07:39:00	BSI62	Z2 FTPC62HR	BSTFTPC
07:39:00	zvae62c	Totals	
07:39:00	zvae62c	BG LLST	DTRIATTN
07:39:00	zvae62c	FB SECSERV	BSTPSTS
07:39:00	zvae62c	F1 POWSTART	IPWPOWER
07:39:00	zvae62c	F2 CICSICCF	DFHSIP
07:39:00	zvae62c	F3 VTAMSTRT	ISTINCVT
07:39:00	zvae62c	F4 SCANVMS3	ARKREXX
07:39:00	zvae62c	F5 LIBDIR	LIBR
07:39:00	zvae62c	F8 VPSSMPP	LISTLOG
07:39:00	zvae62c	O1 CICSJA69	DFHSIP
07:39:00	zvae62c	R1 STARTVCS	IESVCSRVR
07:39:00	zvae62c	R2 STRTMAS	IESMASNM
07:39:00	zvae62c	R3 STRTMAS	IESMASNM
07:39:00	zvae62c	S1 STOPLAY	STOPLAY

## Tab Parameters

Current interval

Start date: 2020/02/10

Start time: 07:41

End date: 2020/02/10

End time: 07:41

Relative: [Dropdown]

Class: [Text]

Node: [Text]

User: [Text]

LPAR: [Text]

zOS SYSID: [Text]

Job name: [Text]

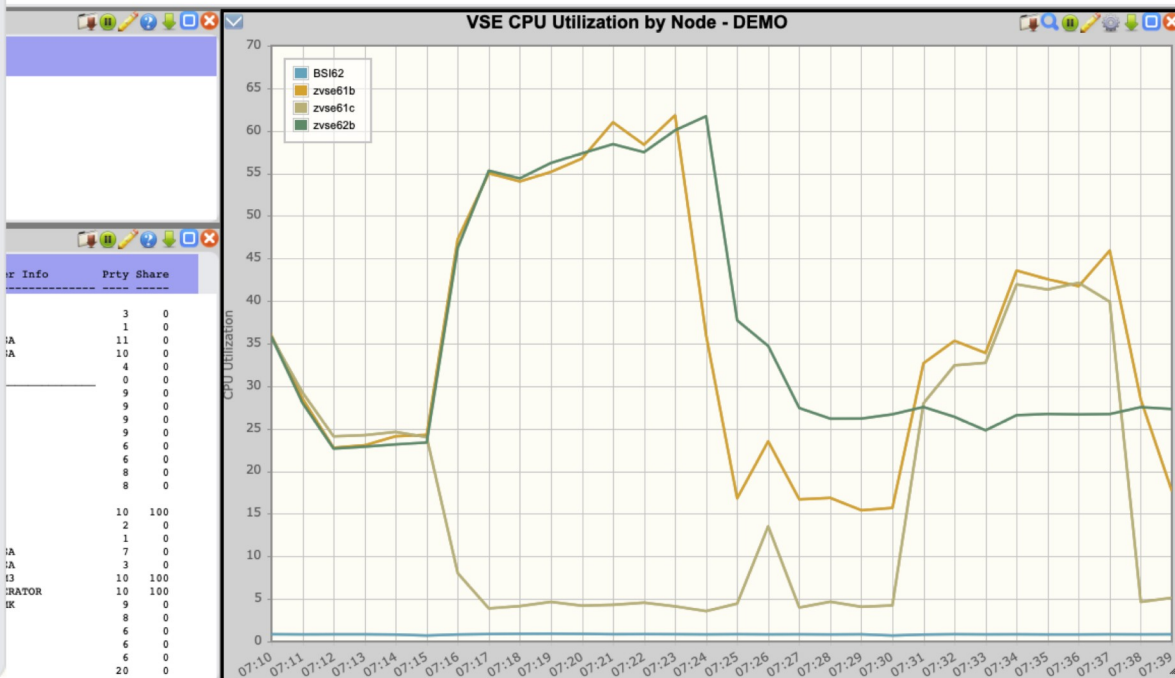
Service class: [Text]

Device: [Text]

Submit Close

ESAVSES - VSE System Configuration - DEMO

Time	Node	<VM>	<LogicalPart>	<CPU model>	<Partitions>	<CPU Counts>	Priority of Partitions
		VirtID	Lvl Name	Nbr <IBH/<model>/CPs/ serial	Max Cur Stat Dyn Tot Actv Quies Inact		
07:39:00	zvae61b	ZVSE61B	1 VSI VMS	5 IBM 2828-A02 02 (714C702)	80 20 12 8 1 1 0	0	=F9(100)=FA(100),BG,O,F2,R,Z,T,V,F3,FB,F
07:39:00	zvae61c	ZVSE61C	1 VSI VMS	5 IBM 2828-A02 02 (714C702)	80 18 12 6 1 1 0	0	=F5(100)=F4(100),BG,R,O,F2,Z,T,FB,F3,F
07:39:00	zvae62b	ZVSE62B	1 VSI VMS	5 IBM 2828-A02 02 (714C702)	80 20 12 8 1 1 0	0	(100)=FA(100),BG,O,FB,F2,R,Z,T,V,F3,FB,F
07:39:00	zvae62c	ZVSE62C	1 VSI VMS	5 IBM 2828-A02 02 (714C702)	80 17 12 5 1 1 0	0	=FA(100)=BG(100),F8,O,F2,R,Z,T,F3,FB,F
07:39:00	BSI62	VSE62	1 JCB	1 IBM 1090-306 02 (234502)	120 19 12 7 1 1 0	0	100)=F5(100),F2,F3,R,Z,F4,S,O,F7,FB,BG,F



## 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 --->					<TCP Communications/second >					<--UDP Datagrams per second-->			
		Curr Conn	<Opens/Sec> Activ	<Closes/Sec> Pass	<---Segmts Transmitted---> Fails	Resets	Input	Output	ReTrn	InErr	Rsts	Total Input	Total Output	<---Errors---> 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 >					<Datagram output>			<Fragment Reassembly>		<Datagram Fragmentation>				
		<Input datagrams> Total	Fwrd	Divr'd	<Discarded> Hdr	Inp Errors Addr	Reqst	Other	<Discarded> NoRte	Other	Input	grams	Errors	<Datagrams In> Recvd	Notfrg	Created
07:09:00	zvse62b	60.18	0	60.18	0	0	0	0	82.31	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

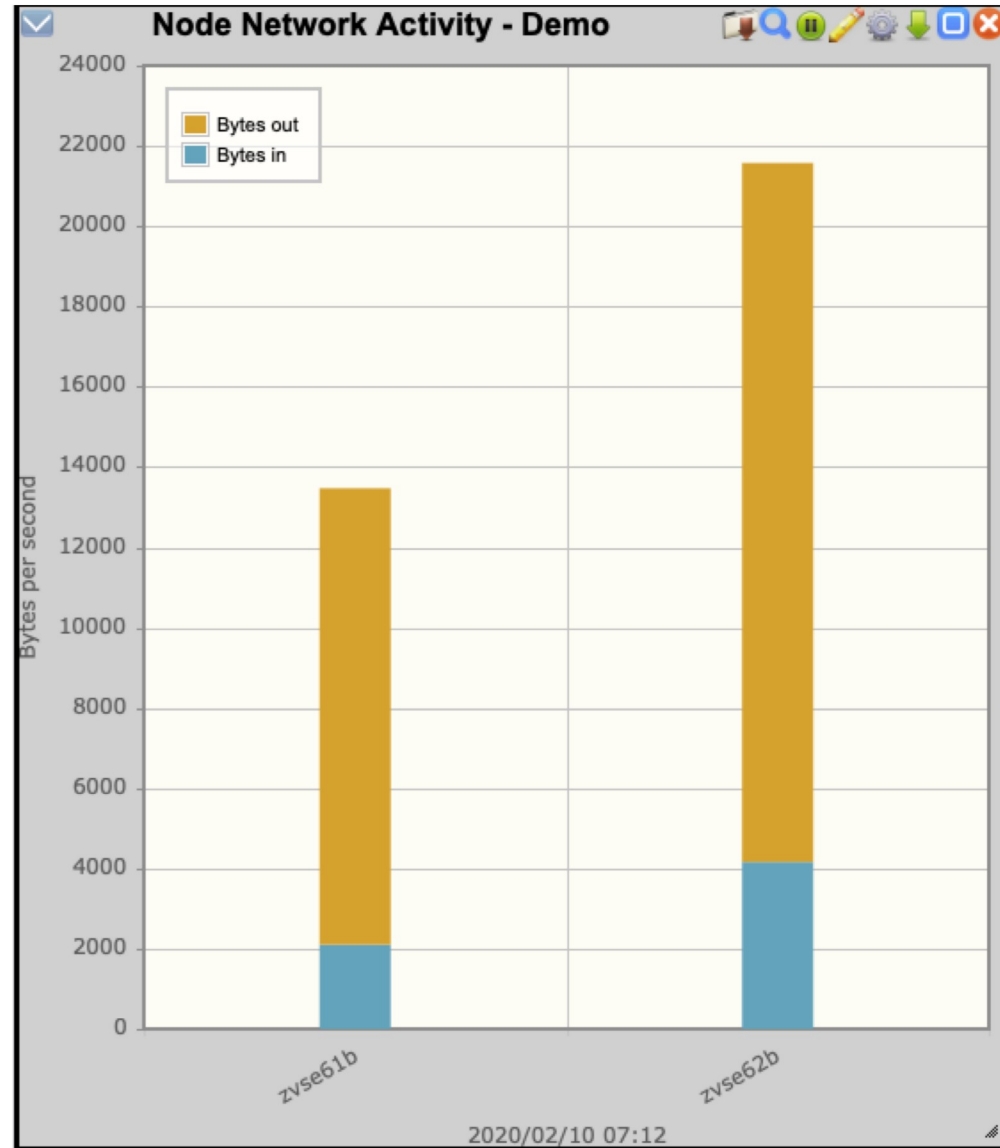
ESATCP3 - TCPIP Control Message Protocol Report - DEMO																				
Time	Node/ Group	<-Total>		<Echo Messages>		<TimeStamp Msgs>		<AddrMask Reqsts>		<Source>		<Input Error Msgs>		<Output Error Msgs>						
		<-Msgs--> In	Out	<Rqsts> In	<Rplys> Out	<Rqsts> In	<Rplys> Out	<Request> In	<Rplys--> Out	<Quench> In	Out	Redirec'ts	Bad Data	Bad Dest	Bad Parm	Time Xcdd	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
07:09:00	zvse61b	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	<Total Octets>		Avg	<-Subnet packets / Sec-->				<---Packets Discarded--->					<-Average-->			
		<-Per second--> IFT	Input	Output	Q	<-Unicast--> Input	<NonUnicast--> Output	<In Error--> Input	<NonError--> Output	Unknown Input	Unknown Output	Protocol	Interface	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	.	.

## IPv6/VSE monitoring

- Node activity real time graph



## 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**

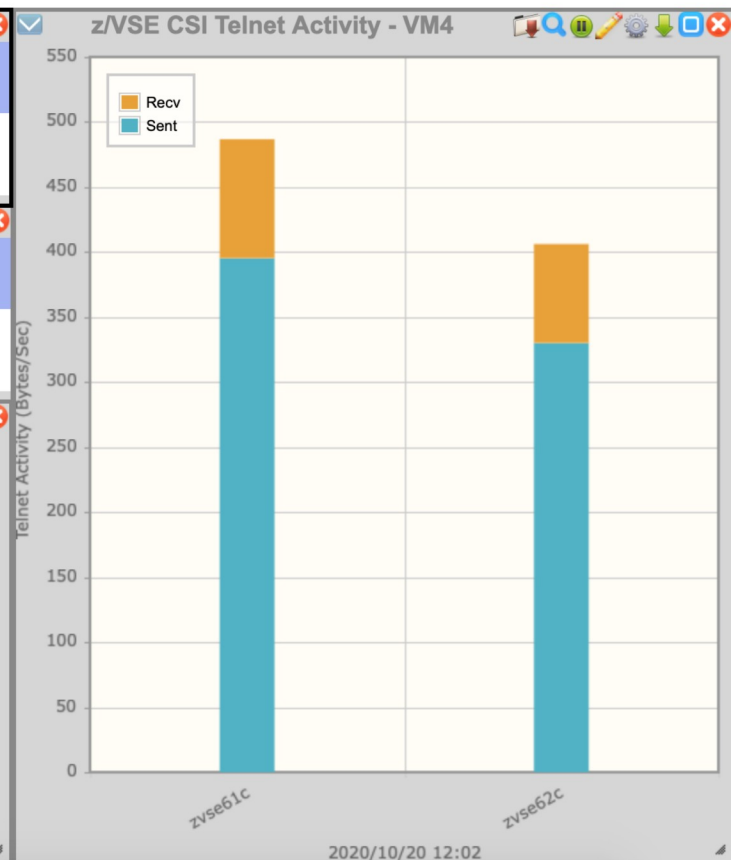
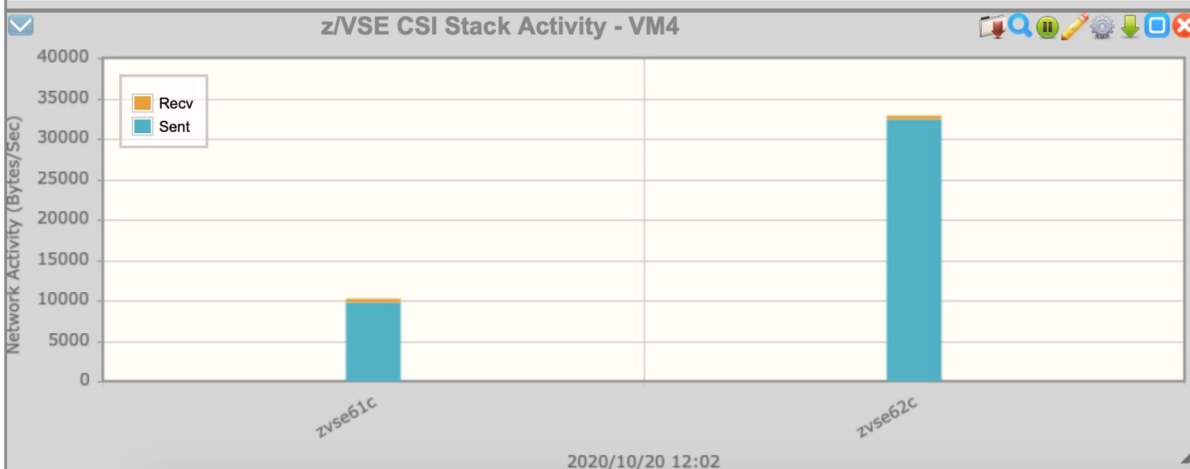
```

<--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--> <-----Daemons-----> <-----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  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   .   .   .   .
    
```



Main menu ✕
Friday 12 Jun 2020 07:42
zVIEW Version 5112



**VELOCITY**  
SOFTWARE

## zVIEW - Velocity Software - VSIVM4 (VM4)

Performance Displays for z/VM, Linux, z/OS and z/VSE

ZOSCIX1 - VM4 🔍 🖨️ 🗑️ 📄

ZOSCIX1 - CICS Analysis - VM4

Time	SYSID	<--CICS Program-->	<----Start---->	Platform	<----Location-->	<--Transactions-->	<----Task Statistics---->
	APPLID	JobName	Date Time	O/S VRM	LPARName VMID	Total Resp CPU	Total MXT Actv PctM MXTQ
07:42:00	VS1I	CICSZA1 CICSJZ1	05/26/20 14:07:18	z/OS 0720	ZOSLP1	815 0.022 0.007	816 50 1 2.0 0
07:42:00	VS1I	CICSZA2 CICSJZ2	05/26/20 14:08:46	z/OS 0720	ZOSLP1	863 0.022 0.008	855 50 0 0 0
07:42:00	V61C	CICSJA68 CICSJA68	05/21/20 08:08:28	VSE 0420	VSIVM5 ZVSE61C	287 0.032 0.015	369 40 2 5.0 0
07:42:00	V62B	CICSJA95 CICSJA95	05/21/20 08:10:06	VSE 0430	VSIVM5 ZVSE62B	392 0.004 0.001	418 15 2 13.3 0

ZOSCIX2 - CICS Transaction Analysis - VM4

Time	SYSID	APPLID	<Transactions> Group	<-Response Time->			<---Dispatch--->			<---Dispatch Delays---->				CPU Disp Ratio		
				Total	Susp	Disp	CPU	PC	zIIP	Total	First	I/O	Uncapt		Wait	
07:50:00	VS1I	CICSZA1	Totals	824	0.024	0.010	0.028	0.007	0	0	5.94	0.005	0.003	0.001	0.001	51.893
07:50:00	VS1I	CICSZA1	Inflight	0	.	.	.	0	.	.	0	.	.	.	.	.
07:50:00	VS1I	CICSZA2	Totals	832	0.023	0.010	0.026	0.007	0	0	6.16	0.007	0.000	0.003	0.000	56.345
07:50:00	VS1I	CICSZA2	Inflight	0	.	.	.	0	.	.	0	.	.	.	.	.
07:50:00	V61C	CICSJA68	Totals	328	0.035	0.004	0.031	0.017	0	.	5.62	0.004	0	0	0	111.762
07:50:00	V61C	CICSJA68	Inflight	0	.	.	.	0	.	.	0	.	.	.	.	.
07:50:00	V62B	CICSJA95	Totals	360	0.003	0.001	0.002	0.001	0	.	0.22	0.001	0	0.000	0.000	49.928
07:50:00	V62B	CICSJA95	Inflight	0	.	.	.	0	.	.	0	.	.	.	.	.

Main menu ✕

Add tab Arrange

Load View Save View

Color config

VSIVM4

zMON Graphs zMAP

Capacity

System

Service Level Analysis

User

Shared File System

CPU

Main Storage

Paging and Spooling

Input/Output Subsystem

Network

Linux

Linux Application

SSC/Docker

zOS

zVSE

CICS

- ZOSCIX1
- ZOSCIX2
- ZOSCIX3
- ZOSCIX4

Screen Index

Emulation Screens

zALERT Definitions

zOPERATOR

zTUNE

CICS Menu

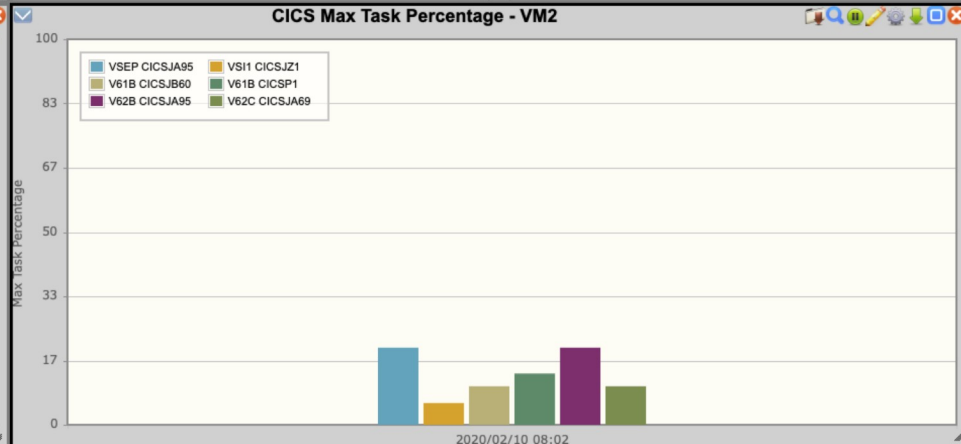
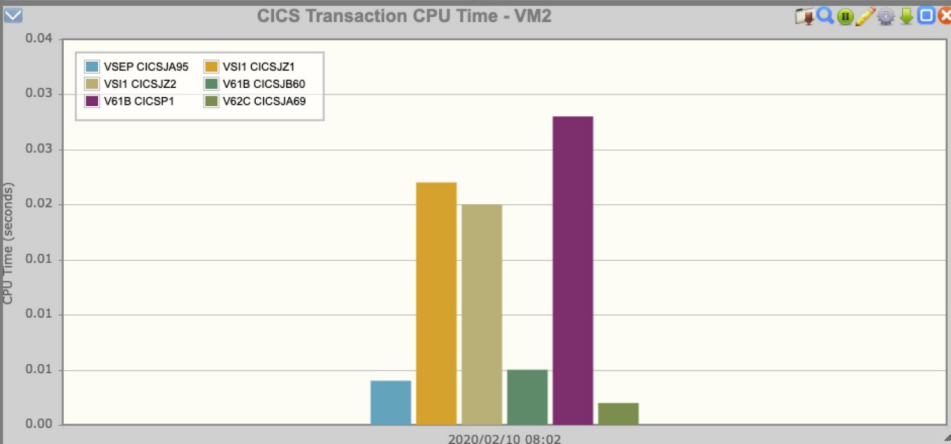
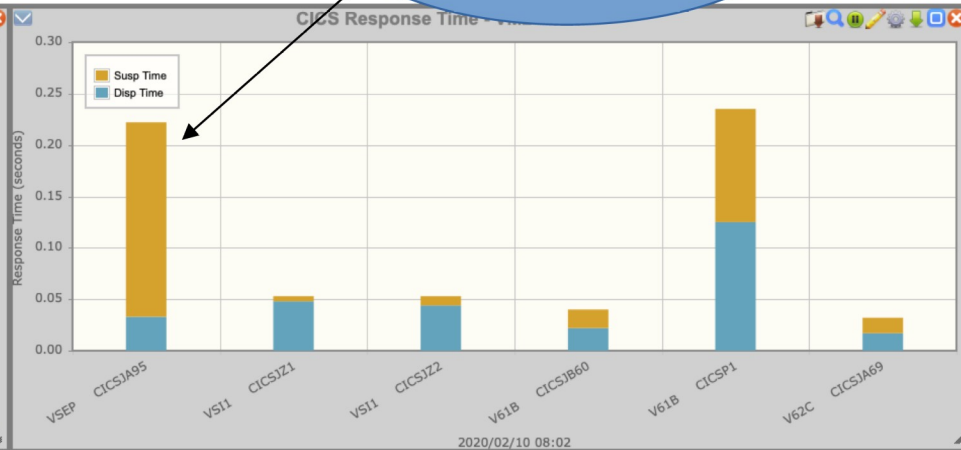
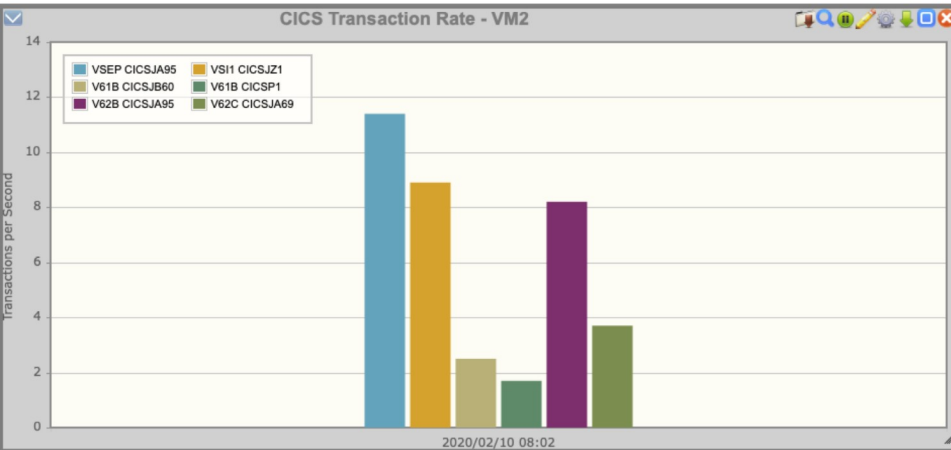
## ZOSCIX4 - CICS Detailed Transaction Analysis - VM4



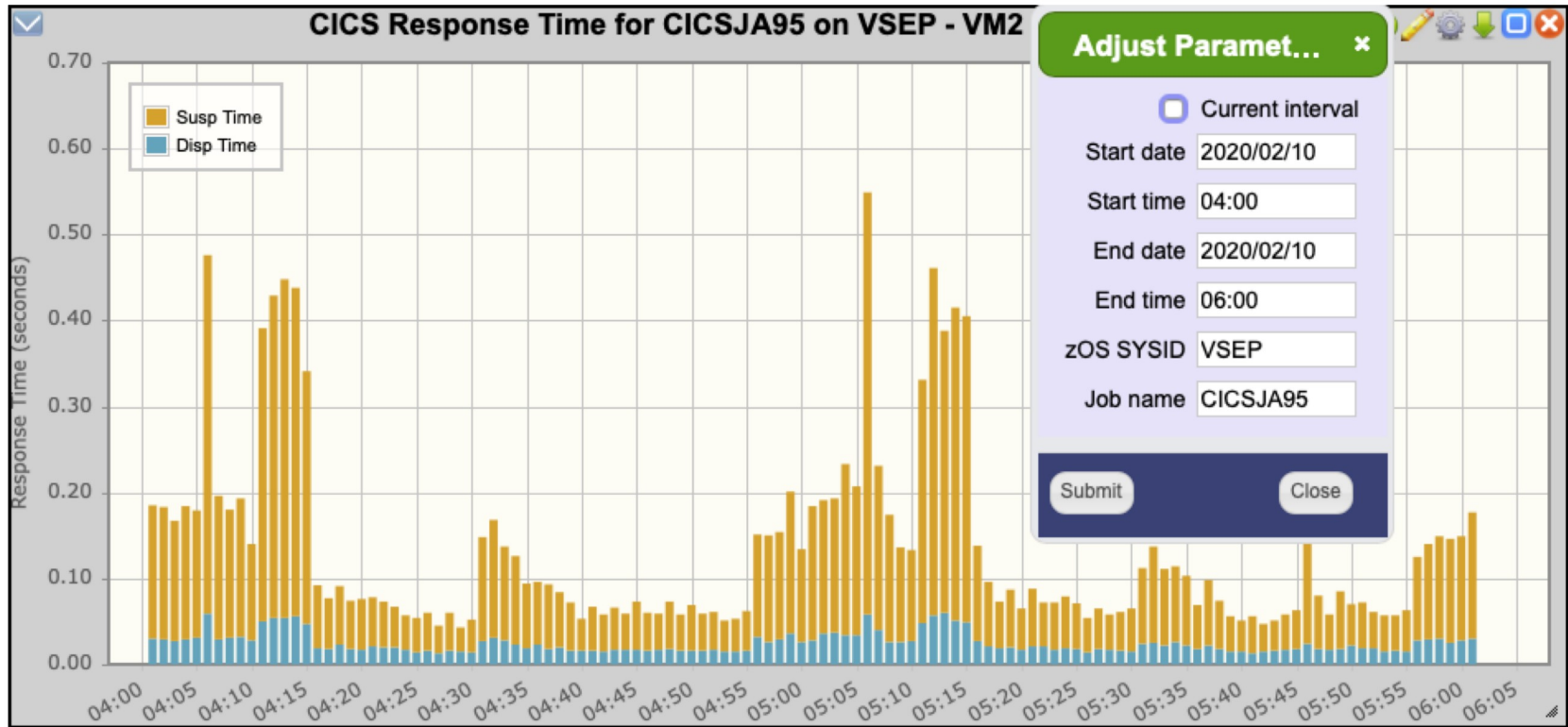
Time	SYSID	APPLID	Tran ID	Count	<-Response Time->			<---Dispatch--->			<---Suspend Time per Tran (ms)-->					<-----Suspend Time per Tran (ms)----->											
					Total	Susp	Disp	CPU	PC	zIIP	Disp	MXT	TC	Shr	CF	Sockets	<-LU-->	61	62	FPEI							
					Resp	Time	Time	Time	Load	CPU	Wait	Dly	Dly	Trm	Jrn	TS	File	MRO	TD	TS	RLS	Dtbl	In	Out			
07:52:00	VSI1	CICSZA1	CSSY	2	0.010	0.010	0.000	0.000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STRH	21	0.010	0.004	0.011	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STR1	20	0.025	0.020	0.010	0.003	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STR2	24	0.013	0.009	0.009	0.003	0	0	3.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STR3	28	0.019	0.011	0.016	0.006	0	0	8.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STR4	24	0.017	0.006	0.022	0.007	0	0	3.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STR5	27	0.045	0.014	0.062	0.013	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STR6	26	0.036	0.016	0.042	0.012	0	0	9.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STR7	22	0.044	0.021	0.045	0.015	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STR8	25	0.037	0.008	0.059	0.016	0	0	6.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	STR9	26	0.044	0.013	0.062	0.018	0	0	8.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	ZIPC	191	0.007	0.004	0.006	0.001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	ZIPR	191	0.038	0.006	0.062	0.017	0	0	1.33	0	0	2.0	0	0	0.1	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA1	ZIPU	187	0.011	0.008	0.007	0.001	0	0	2.39	0	0	0.0	0	0	2.5	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	CSSY	1	0.269	0.268	0.003	0.000	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	STRH	29	0.012	0.006	0.011	0.003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	STR1	27	0.014	0.010	0.008	0.003	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	STR2	30	0.016	0.010	0.012	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	STR3	22	0.016	0.007	0.020	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	STR4	23	0.016	0.005	0.022	0.007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	STR5	34	0.028	0.006	0.044	0.012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	STR6	23	0.031	0.016	0.029	0.011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	STR7	26	0.030	0.007	0.048	0.016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	STR8	30	0.038	0.012	0.051	0.017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	STR9	25	0.055	0.021	0.068	0.023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	ZIPC	188	0.013	0.010	0.005	0.001	0	0	1.86	0	0	0	0	0	2.6	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	ZIPR	193	0.050	0.021	0.060	0.017	0	0	7.10	0	0	4.5	0	0	4.2	0	0	0	0	0	0	0	0	0	0
07:52:00	VSI1	CICSZA2	ZIPU	187	0.013	0.011	0.005	0.001	0	0	3.96	0	0	0.0	0	0	5.2	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STRH	37	0.011	0.000	0.011	0.005	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR1	35	0.013	0.002	0.011	0.004	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR2	33	0.012	0.001	0.011	0.008	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR3	31	0.023	0.008	0.016	0.011	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR4	35	0.022	0.003	0.019	0.012	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR5	30	0.040	0.006	0.034	0.022	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR6	33	0.040	0.006	0.034	0.021	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR7	34	0.048	0.002	0.046	0.030	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR8	27	0.041	0.001	0.041	0.023	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V61C	CICSJA68	STR9	33	0.082	0.009	0.073	0.040	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STRH	35	0.004	0.001	0.003	0.001	0	.	0.03	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR1	37	0.002	0.000	0.002	0.001	0	.	0.01	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR2	37	0.002	0.000	0.002	0.001	0	.	0.01	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR3	37	0.002	0.000	0.002	0.001	0	.	0.01	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR4	38	0.002	0.000	0.002	0.001	0	.	0.01	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR5	36	0.002	0.000	0.002	0.001	0	.	0.02	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR6	34	0.002	0.000	0.002	0.001	0	.	0.02	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR7	41	0.003	0.000	0.002	0.001	0	.	0.01	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR8	31	0.003	0.001	0.002	0.001	0	.	0.02	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:52:00	V62B	CICSJA95	STR9	34	0.003	0.001	0.002	0.001	0	.	0.02	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0

## Some of the CICS graphs

Click on a bar to see data over time



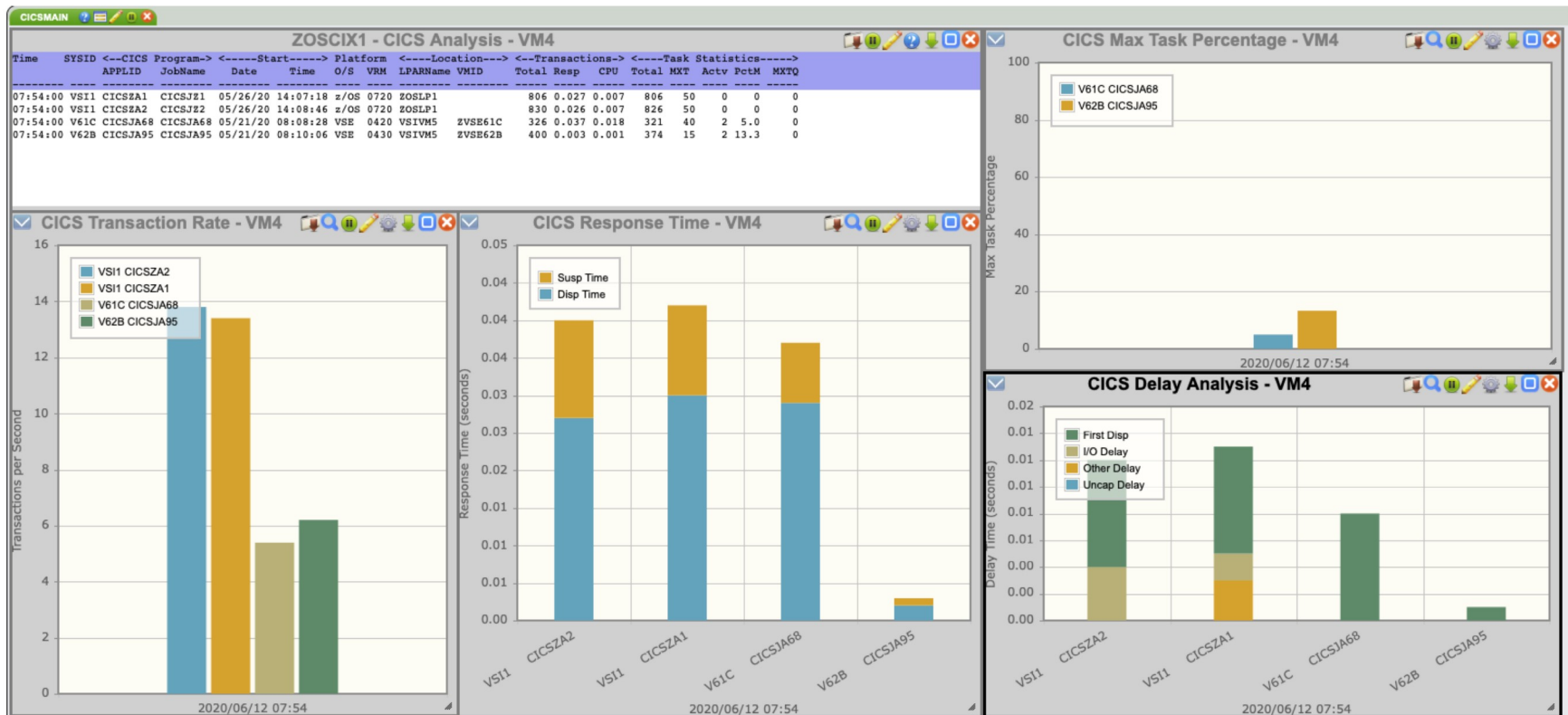
# CICS response time over time





## Additional CICS Views are available

- Use ours or make your own



# 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
```

# 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
```

# 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

In addition, reports are generated in the 15 minute format

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

# Reports

## Main menu



Add tab

Arrange

Load View

Save View

Color config

VSIVM4

zMON

Graphs

zMAP

Capacity

Daily Reports

Fri 12 Jun 2020

ESAHDR  
ESATUNE

Performance Summary  
ESASSUM  
ESASUM  
ESAILMT

VSE Reporting

ESAVSEC  
ESAVSES  
ESAVSEP  
ESAVSEJ

## Daily VSE System Performance Report - VM4 - Fri 12 Jun 2020



Report: ESAVSEC VSE System Performance Report Velocity Software Corporat

Monitor initialized: 06/12/20 at 00:00:00 on 8562 serial 040F78 First record analyzed: 06/

NODE /Time	Pages/Sec		<Rate/Sec>		<CPU Utilization>			<-Job CPU->		All Bound	Pct NP	Seconds OfData
	In	Out	SVC	DSP	Total	Mstr	Spin	TOTAL	Ovhd			
06/12/20												
00:15:00												
zvse61b	0	0	2140	1923	10.2	3.1	0	9.1	1.1	85.0	30.5	899.3 15.0
zvse61c	0	0	4508	2215	10.5	6.2	0	9.0	1.4	75.1	59.7	899.9 15.0
zvse62b	0	0	3347	1293	4.6	2.2	0	3.9	0.7	92.1	48.0	899.9 15.0
zvse62c	0	0	3652	1512	5.5	2.7	0	4.7	0.8	81.1	48.1	900.0 15.0
00:30:00												
zvse61b	0	0	6934	3349	18.8	8.5	0	17.9	2.3	78.8	45.0	900.0 15.0

## Daily VSE System Configuration Report - VM4 - Fri 12 Jun 2020



Report: ESAVSES VSE System Configuration Report Velocity Software Corporate ZMAP 5.1.1

Monitor initialized: 06/12/20 at 00:00:00 on 8562 serial 040F78 First record analyzed: 06/12/20 00:00:00

NODE /Time	<---z/VM--->		<LogicalPart>		<-----CPU model----->			<--Partitions-->			<----CPU Counts---->			
	VirtID	Lvl	Name	Nbr	<IBM/<model>/Cps/	serial	Max	Cur	Stat	Dyn	Tot	Actv	Quies	Inact
06/12/20														
00:15:00														
zvse61b	ZVSE61B	1	VSIVM5	5	IBM	8562-A02 02 (40F78 2)	80	20	12	8	1	1	0	0
zvse61c	ZVSE61C	1	VSIVM5	5	IBM	8562-A02 02 (40F78 2)	80	18	12	6	1	1	0	0
zvse62b	ZVSE62B	1	VSIVM5	5	IBM	8562-A02 02 (40F78 2)	80	19	12	7	1	1	0	0
zvse62c	ZVSE62C	1	VSIVM5	5	IBM	8562-A02 02 (40F78 2)	80	18	12	6	1	1	0	0
00:30:00														
zvse61b	ZVSE61B	1	VSIVM5	5	IBM	8562-A02 02 (40F78 2)	80	20	12	8	1	1	0	0
zvse61c	ZVSE61C	1	VSIVM5	5	IBM	8562-A02 02 (40F78 2)	80	18	12	6	1	1	0	0
zvse62b	ZVSE62B	1	VSIVM5	5	IBM	8562-A02 02 (40F78 2)	80	19	12	7	1	1	0	0
zvse62c	ZVSE62C	1	VSIVM5	5	IBM	8562-A02 02 (40F78 2)	80	18	12	6	1	1	0	0

00:45:00

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

- We recently added the collection of some z/OS records to our portfolio

Performance monitoring should not be the performance problem

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

Questions and requests: [info@velocitysoftware.com](mailto:info@velocitysoftware.com)

Thank you!

Questions?

<http://www.velocitysoftware.com>