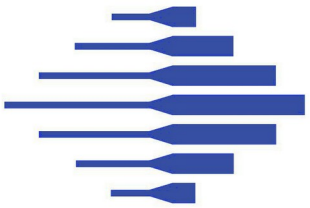

VELOCITY SOFTWARE

Monitoring z/VSE with zVPS

VM Workshop
June, 2020

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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

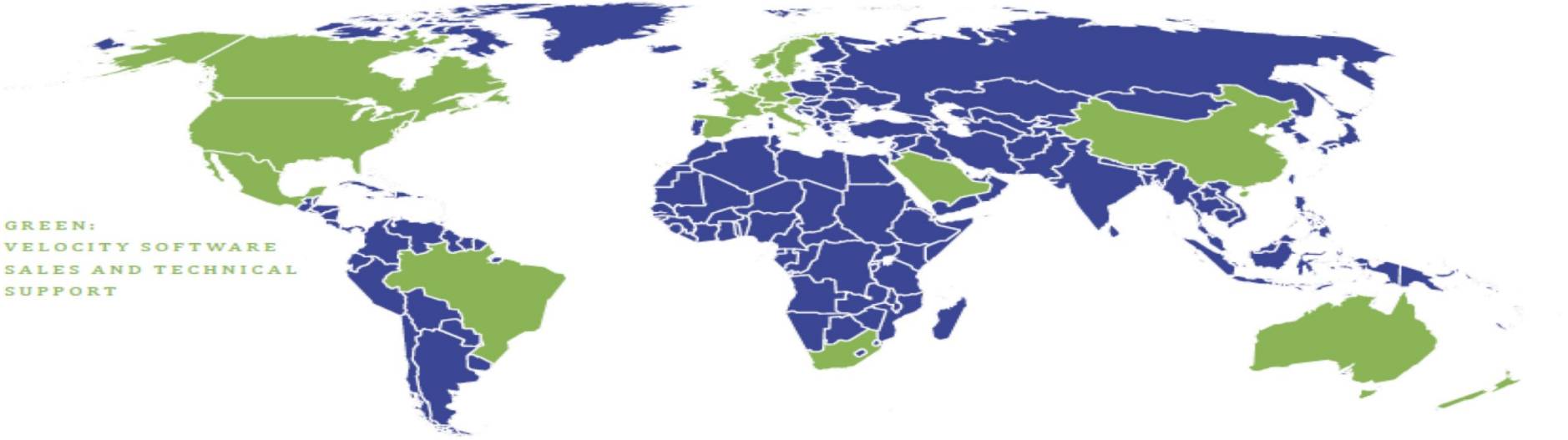
Over 200 installations (zVPS)

- 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

Velocity Software's Sales and Technical Support Map



z/VSE introduced SNMP about 10 years ago

- With z/VSE 4.3
- Since we use SNMP for Linux, it was a natural progression

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- Introduced z/VSE monitoring in 2010
- Based on SNMP ‘plugins’ provided by IBM
- Added our partition plugin in 2014
  - Displays partition and job information as jobs are running

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Fast Forward to 2020.....

- Renewed interest in z/VSE monitoring
- Our recent dive into z/OS monitoring
  - Provides and verifies infrastructure that also benefits z/VSE

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

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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, preserving 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

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TCP/IP monitoring

- Additional plugin written for each TCP/IP stack vendor
- IPv6/VSE currently available
  - Data maps directly to fields already available in zVPS
- TCP/IP for VSE research ongoing
  - We have issued a statement of direction to provide support

ESATCP4 - TCPIP Hardware Layer / Interfaces - DEMO

			<Total Octets>		Avg	<-Subnet packets / Sec->				<-----Packets Discar			
	Node/		<-Per second->		Q	<-Unicast->		<NonUnicast>		<In Error>		<NonError	
Time	Group	IFT	Input	Output	Len	Input	Outpt	Input	Output	Inpt	Outpt	Inpt	Outp
07:32:00	zvse62c	.	.	.	.	.	.	.	.	.	.	.	
07:32:00	zvse62b	1	13551	59020	0	166	230	0	0	0	0	0	
07:32:00	zvse61c	.	.	.	.	.	.	.	.	.	.	.	
07:32:00	zvse61b	2	14972	78191	0	188	279	0	0	0	0	0	
07:32:00	zvse61b	1	0	0	0	0	0	0	0	0	0	0	

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VSEMON Requirements

- z/VSE 5.1+ for VSE system and partition data
- z/VSE 6.1+ for CICS and TCP/IP data
  - z/VSE 6.2 is the only release currently supported by IBM
- 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 (Refer to VSEMON readme for updated requirements)
  - z/VSE 6.1: 2.1A with fixes 164, 386, and 391
  - z/VSE 6.2: 2.25 with fixes 164, 187, and 188
  - 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

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Provided as a ZVPS installation package

- Download from the website

When installed…

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

A number of items are cataloged and linked

- Plugin phases (partition and TCP/IP)
- CICS PLTPI phase
  - Reset the monitor
  - Make sure statistics are turned on
- VSIDMF exit phase
  - Sample VSIDMF configuration member
- REXX program
  - Used to delay the DMF startup

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

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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           *
```

- DFHPLTPI update

```
DFHPLT TYPE=ENTRY,PROGRAM=VPSMONSW
```

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CICS configuration

- Make sure statistics is turned on
- Interval set to one minute

```
cemt i stat
STATUS:  RESULTS - OVERTYPE TO MODIFY
 Sta On           Int( 000100 ) End( 000000 )
```

- Define PLTPI program and associated transaction

```
CEDA  View TRANSaction( VSI1 )
TRANSaction : VSI1
Group       : VSI1
Description :
PROGram     : VPSMONSW
```

```
CEDA  View PROGram( VPSMONSW )
PROGram : VPSMONSW
Group   : VSI
Description :
Language : C
```

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DMF Updates

- Update startup LIBDEF

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

- Add delay to the startup before DMF

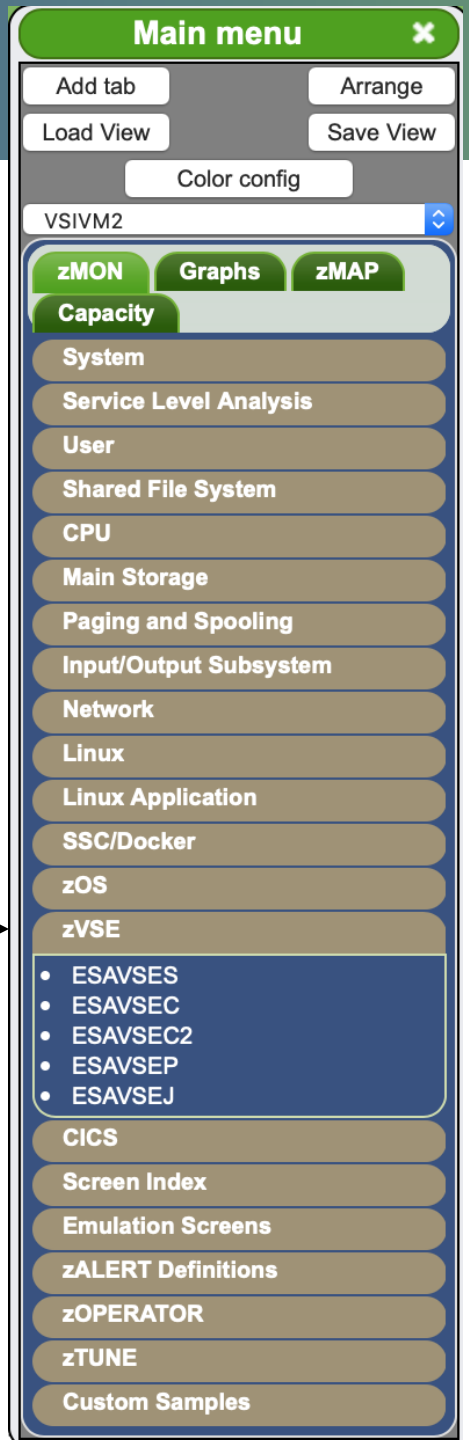
```
// LIBDEF *,SEARCH=VSILIB.REXX
// EXEC REXX=VSIDELAY
```

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
VSIVM2
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
CICS
Screen Index
Emulation Screens
zALERT Definitions
zOPERATOR
zTUNE
Custom Samples

ESAVSES - VSE System Configuration - DEMO

Time	Node	<---z/VM---> VirtID	Lvl	<LogicalPart> Name	Nbr	<IBM/<model>/CPs/ serial	Max	Cur	Stat	Dyn	Tot	Actv	Quies	Inact	<------ Priority of Partitions -------->
06:14:00	zvse61b	ZVSE61B	1	VSIVM5	5	IBM 2828-A02 02 (714C702)	80	21	12	9	1	1	0	0	=F9(100)=FA(100),BG,O,F2,R,Z,T,V,F3,FB,F
06:14:00	zvse61c	ZVSE61C	1	VSIVM5	5	IBM 2828-A02 02 (714C702)	80	19	12	7	1	1	0	0	0)=F5(100)=F4(100),BG,R,O,F2,Z,T,FB,F3,F
06:14:00	zvse62b	ZVSE62B	1	VSIVM5	5	IBM 2828-A02 02 (714C702)	80	21	12	9	1	1	0	0	(100)=FA(100),BG,O,F8,F2,R,Z,T,V,F3,FB,F
06:14:00	zvse62c	ZVSE62C	1	VSIVM5	5	IBM 2828-A02 02 (714C702)	80	17	12	5	1	1	0	0	0)=FA(100)=BG(100),F8,O,F2,R,Z,T,F3,FB,F
06:14:00	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

ESAVSEC2

ESAVSEC - VSE System Performance - VM2

Time	Node	Pages/Sec In	Pages/Sec Out	<Rate/Sec> SVC	<Rate/Sec> DSP	<CPU Utilization> Total	<CPU Utilization> Mstr	<CPU Utilization> Spin	All Bound	Pct NP	Seconds	Samples
11:09:00	zvse61b	0	0	1156	1139	5.1	1.7	0	94.1	33.5	59.9	1
11:09:00	zvse61c	0	0	922	891	3.9	1.6	0	95.5	41.6	59.9	1
11:09:00	zvse62b	0	0	299	353	0.6	0.3	0	99.1	47.9	60.0	1
11:09:00	zvse62c	0	0	854	805	1.7	0.8	0	97.7	48.0	60.0	1

ESAVSEC2 - VSE System Performance per CPU - VM2

Time	Node	CPU	Disp /Sec	<CPU Utilization> Total	<CPU Utilization> Mstr	<CPU Utilization> Spin	All Bound	Pct NP	Seconds	Samples
11:09:00	zvse61b	0	1143	5.1	1.7	0	94.1	33.5	60	1
11:09:00	zvse61c	0	891	3.9	1.6	0	95.5	41.5	60	1
11:09:00	zvse62b	0	353	0.6	0.3	0	99.1	48.3	60	1
11:09:00	zvse62c	0	805	1.7	0.8	0	97.7	48.0	60	1

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z/VSE System

Parameters

ESAVSEC Parameters

Start Date	20/02/10
Start Time	03:00
End Date	20/02/10
End Time	04:00
User Class	
Node name	zvse62b
Click to build direct URL	Build URL

Submit Reset Restart

ESAVSEC - VSE System Performance - Demo

Time	Node	Pages/Sec In	Pages/Sec Out	<Rate/Sec> SVC	<Rate/Sec> DSP	<CPU Utilization> Total	<CPU Utilization> Mstr	<CPU Utilization> Spin	All Bound	Pct NP	Seconds	Samples
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

VELOCITY SOFTWARE

z/VSE Partitions

ESAVSEP - VM4

ESAVSEP - VSE Partition Performance - VM4

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
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	VTAMSTRT	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	VTAMSTRT	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	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	VTAMSTRT	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

VELOCITY SOFTWARE

z/VSE Partitions

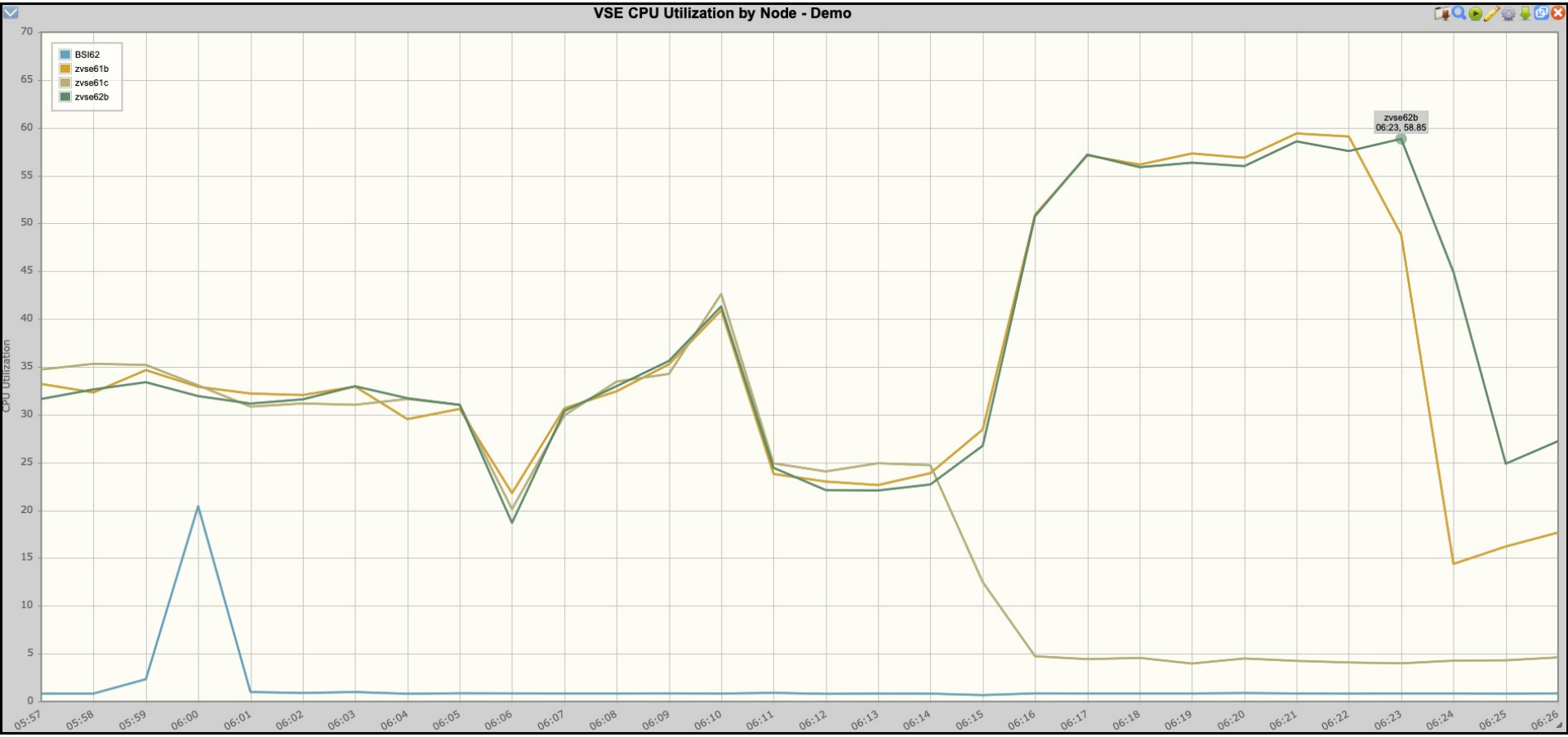
ESAVSEP - VM4

ESAVSEP - VSE Partition Performance - VM4

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
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	VTAMSTRT	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	VTAMSTRT	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	ARXREXX	2.4	0.4	2253	0	14.0			06/05/20	10:00:48		VSM2	20	0	54781
10:01:00	zvse61c	Y2	SCANVSM2	ARXREXX	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	ARXREXX	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	VTAMSTRT	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

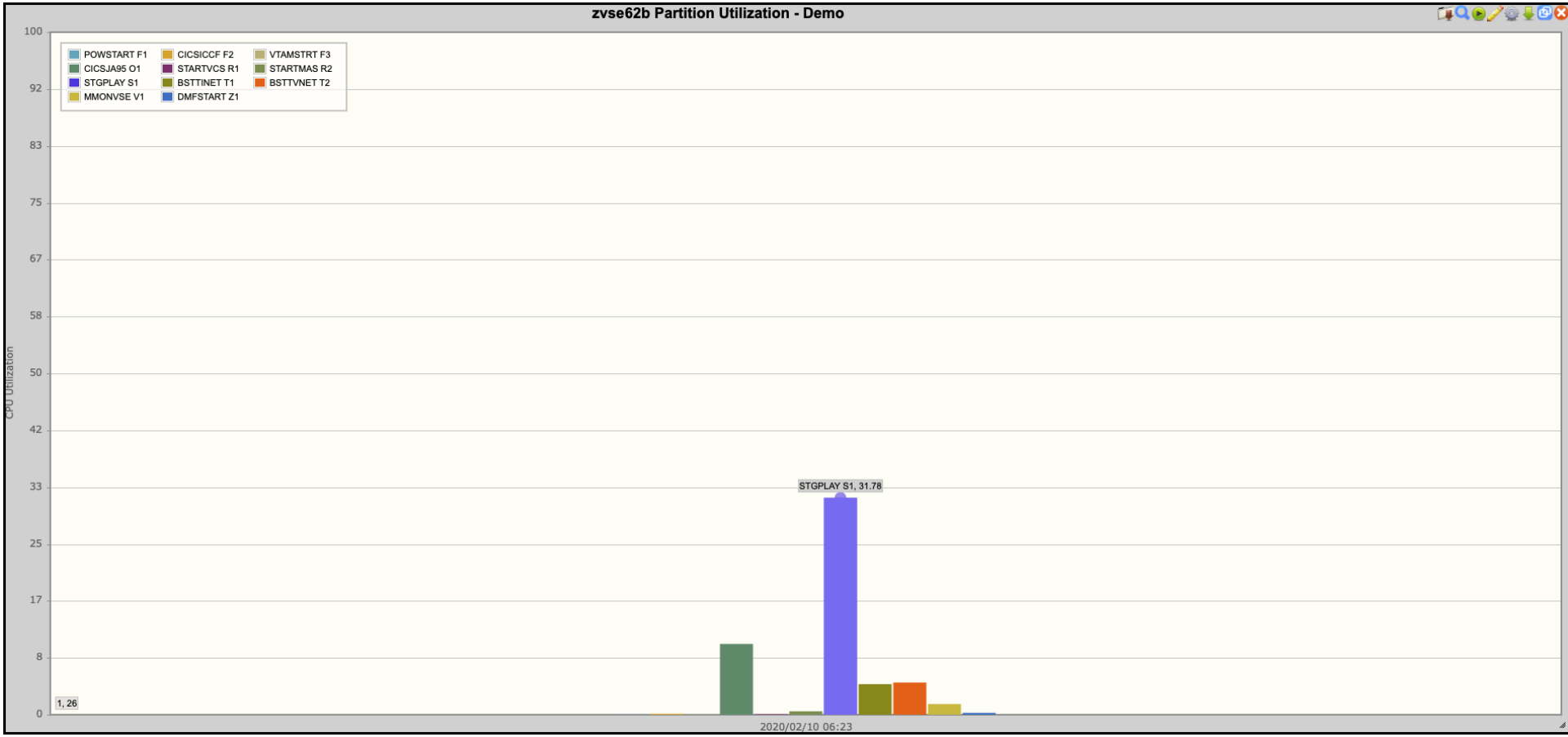
VELOCITY SOFTWARE

z/VSE System

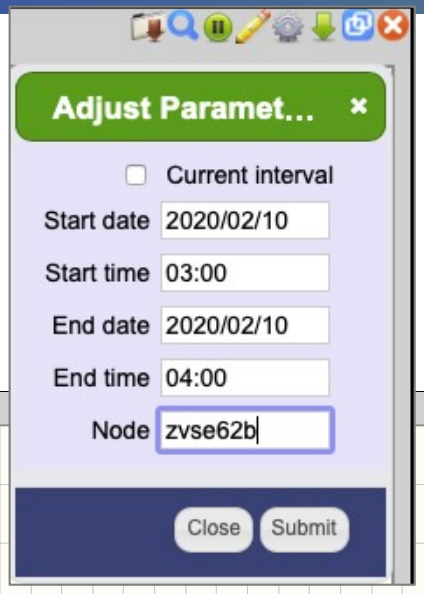


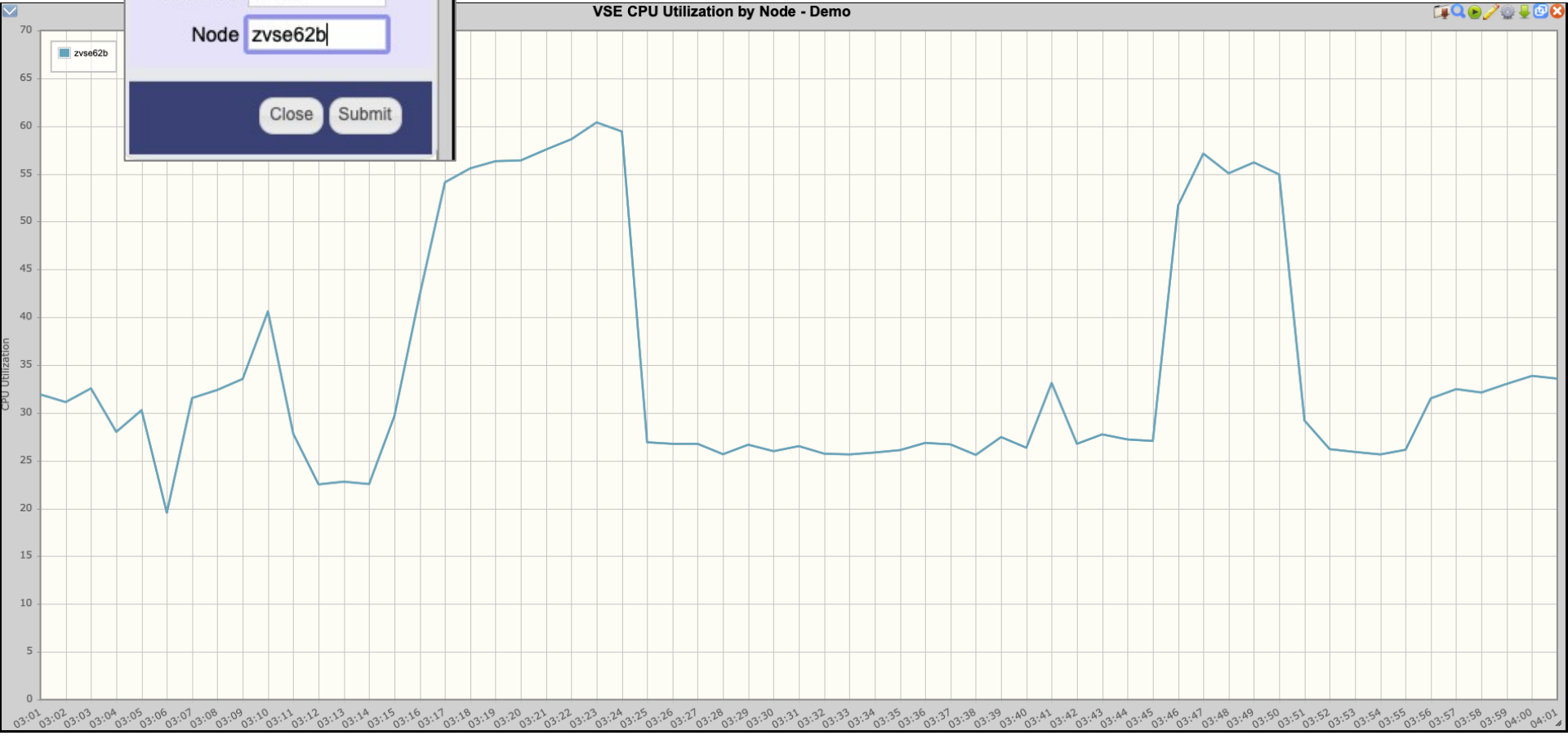
VELOCITY SOFTWARE

z/VSE System


zvse62b Partition Utilization - Demo
POWSTART F1
CICSICCF F2
VTAMSTRT F3
CICSJA95 O1
STARTVCS R1
STARTMAS R2
STGPLAY S1
BSTTINET T1
BSTTVNET T2
MMONVSE V1
DMFSTART Z1
CPU Utilization
100
92
83
75
67
58
50
42
33
25
17
8
0
STGPLAY S1, 31.78
1, 26
2020/02/10 06:23

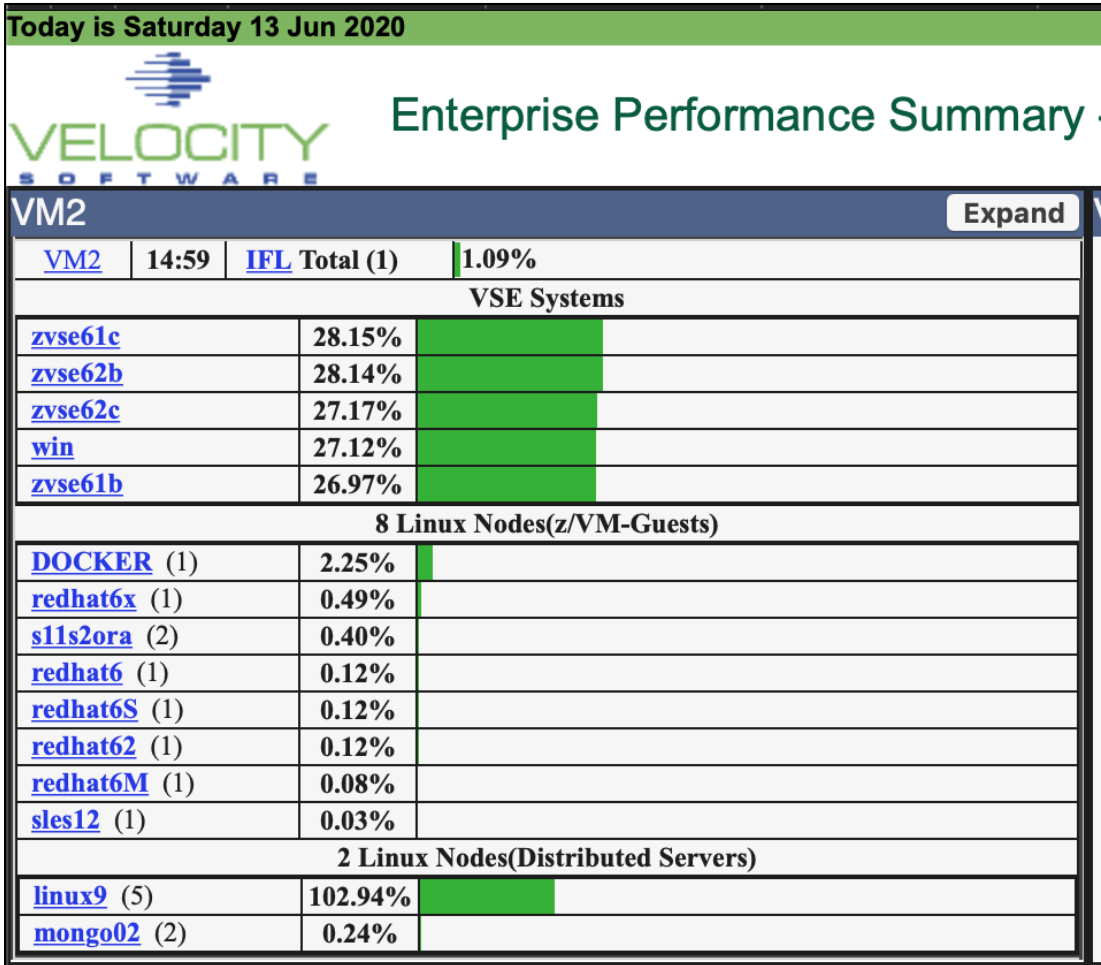
z/VSE System


Adjust Paramet...
Current interval
Start date 2020/02/10
Start time 03:00
End date 2020/02/10
End time 04:00
Node zvse62b
Close
Submit


VSE CPU Utilization by Node - Demo
zvse62b
CPU Utilization

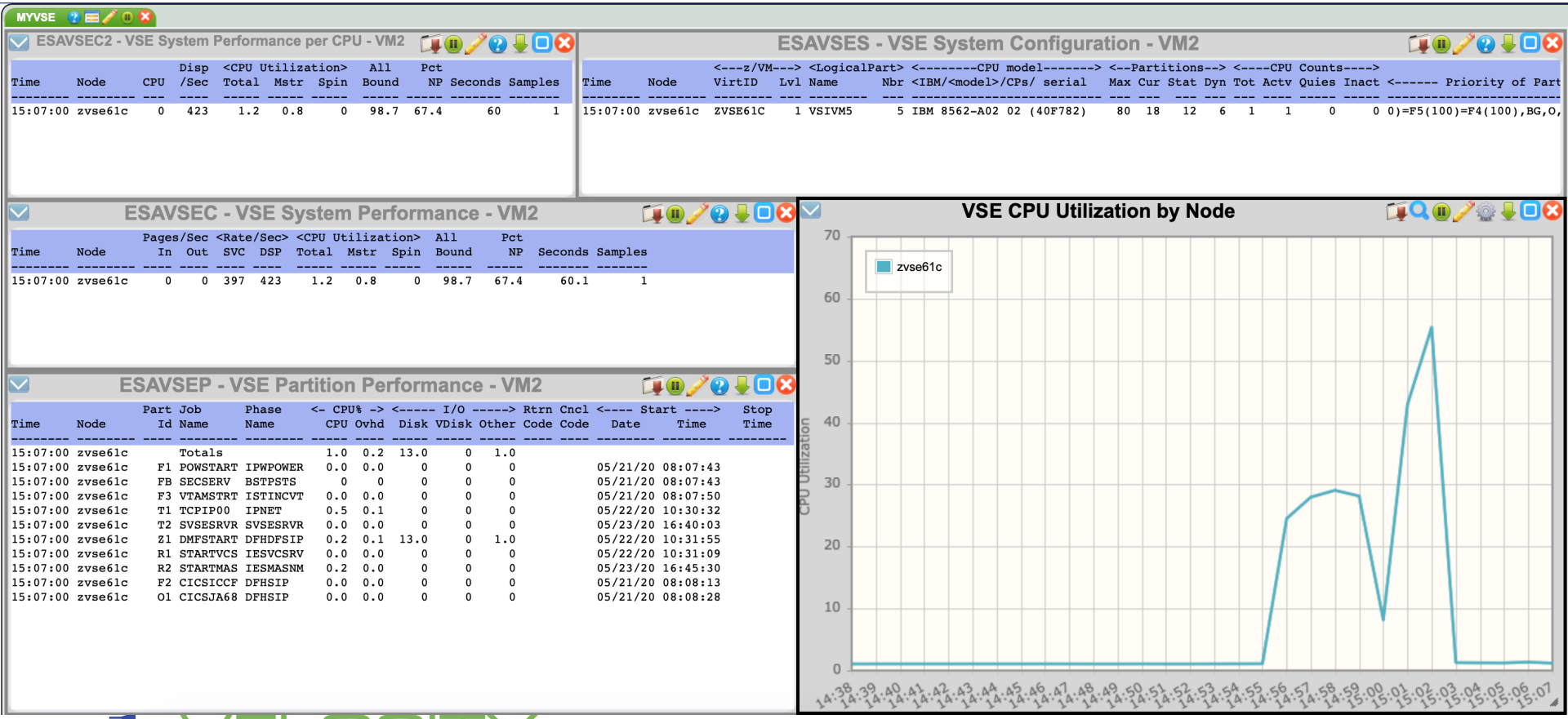
Our Enterprise View shows activity from multiple z/VM LPARs on a single screen

It can be used as a launch point into those LPARs



VELOCITY SOFTWARE

Click on a VSE system name to bring up MyVSE for that system



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

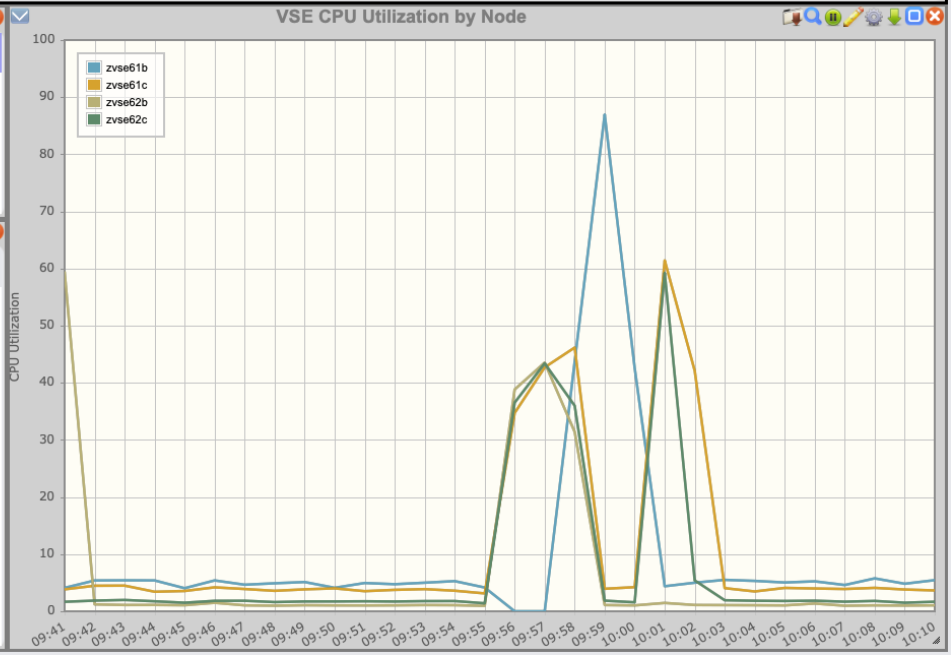
Time	Node	<---z/VM---> VirtID	Lvl	<LogicalPart> Name	Nbr	<---------CPU model-------> <IBM/<model>/CPs/ serial	<--Partitions--> Max	Cur	<-----CPU Counts-----> Stat	Dyn	Tot	Actv	Quies	Inact	<------ Priority of Partitions -------->
10:10:00	zvse61b	ZVSE61B	1	VSIVM5	5	IBM 8562-A02 02 (40F782)	80	20	12	8	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	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	CICSICCF	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	CICSICCF	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



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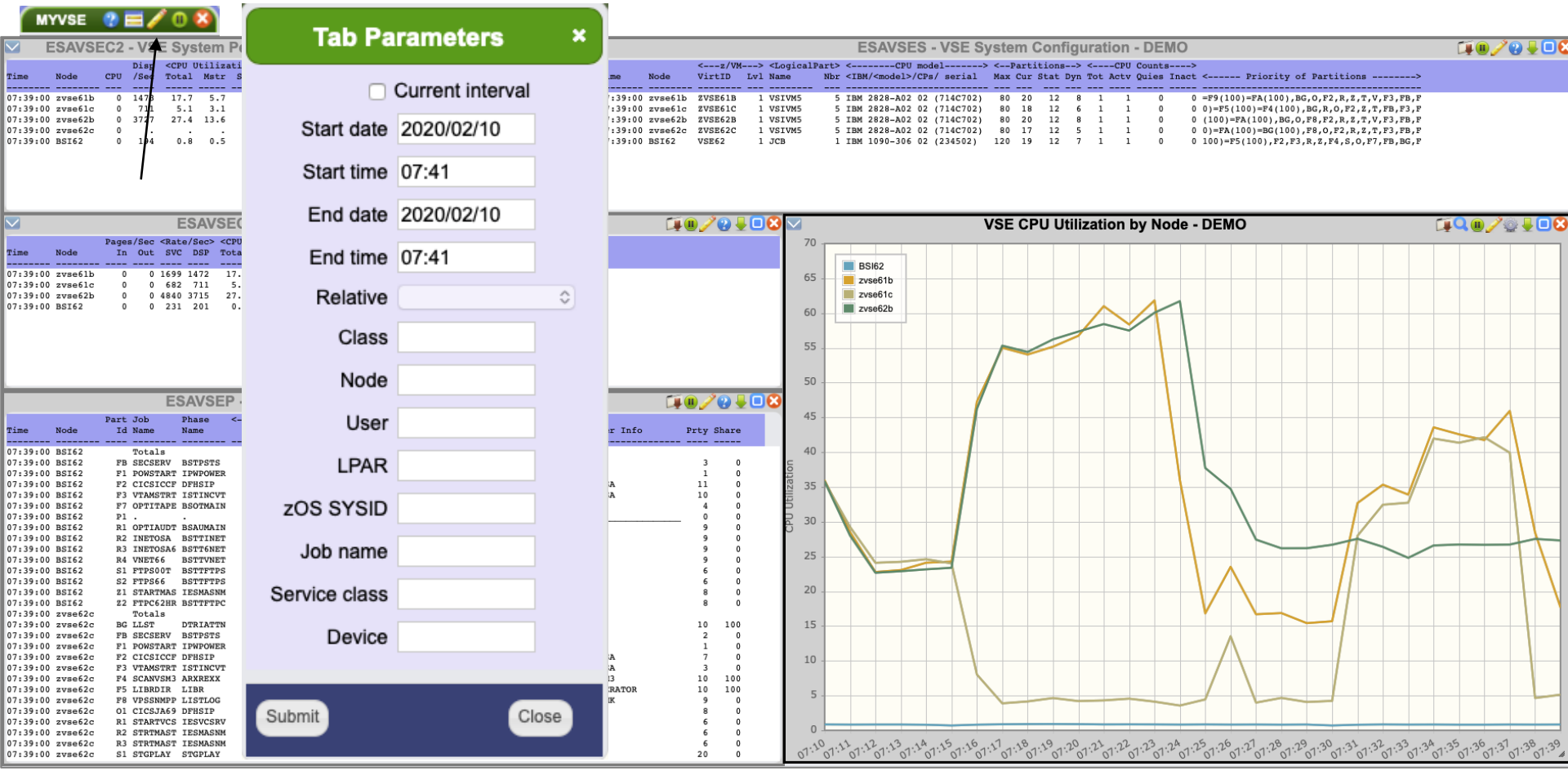
MyVSE View


MYVSE
Tab Parameters
Current interval
Start date 2020/02/10
Start time 07:41
End date 2020/02/10
End time 07:41
Relative
Class
Node
User
LPAR
zOS SYSID
Job name
Service class
Device
Submit
Close
ESAVSES - VSE System Configuration - DEMO
VSE CPU Utilization by Node - DEMO
BSI62
zvse61b
zvse61c
zvse62b
CPU Utilization

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	InErr	Rsts	<--UDP Datagrams per second--> 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 > <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	<Total Octets> <-Per second-> IFT	Input	Output	Avg Q Len	<-Subnet packets / Sec-> <-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	.	.

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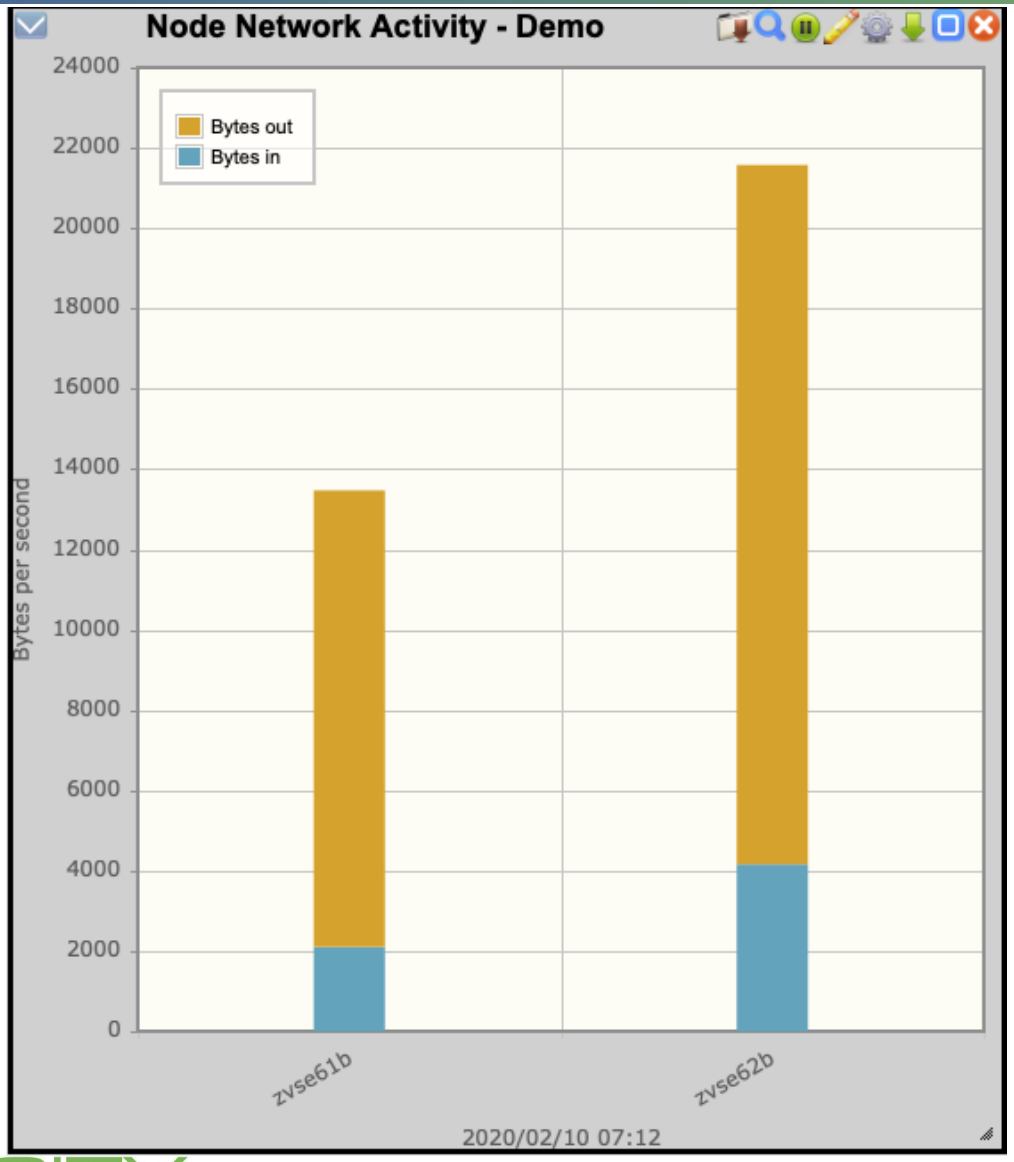
TCP/IP Data



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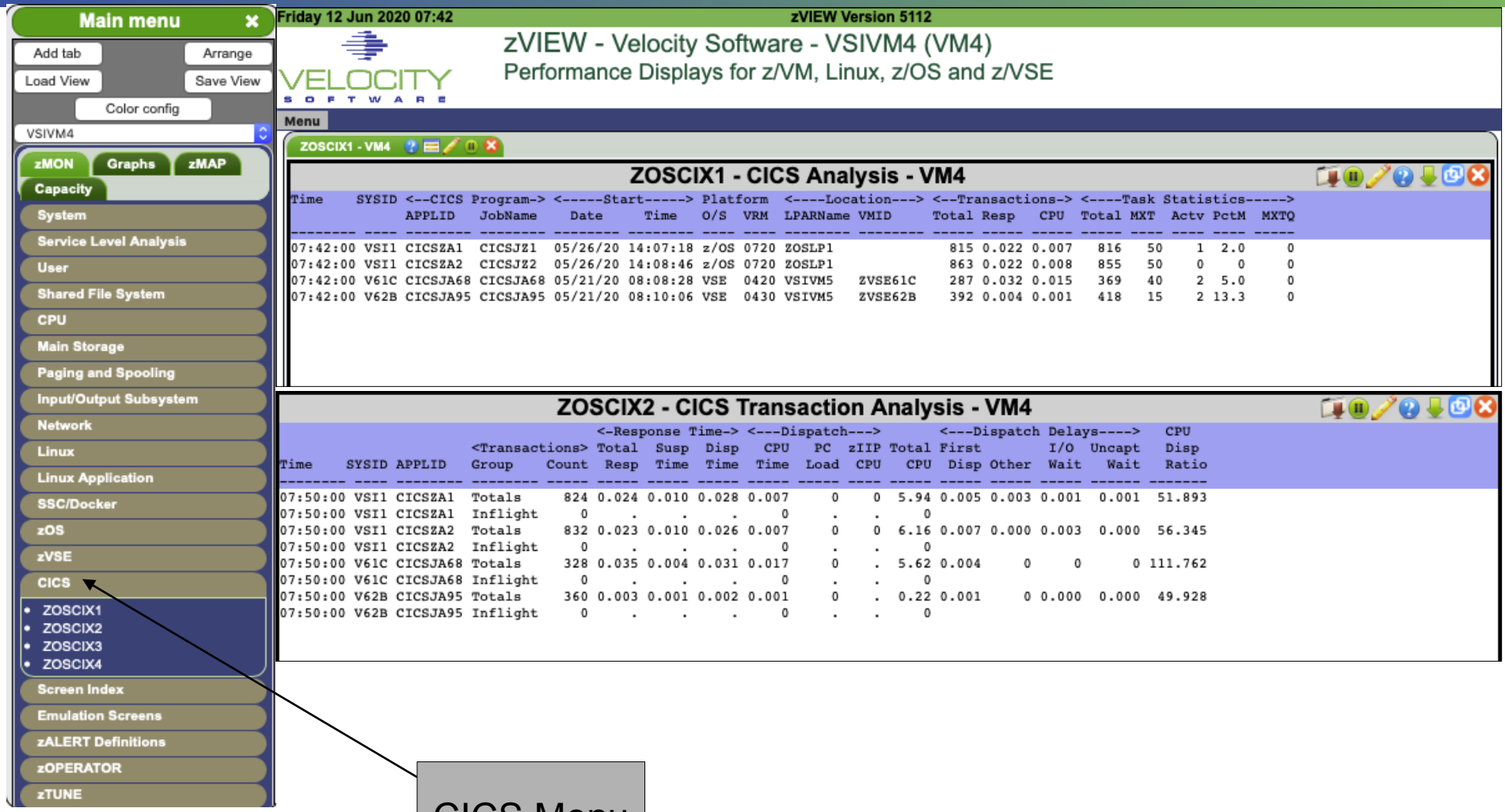
CICS Data


Main menu
Add tab
Arrange
Load View
Save View
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VSIVM4
zMON
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zMAP
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User
Shared File System
CPU
Main Storage
Paging and Spooling
Input/Output Subsystem
Network
Linux
Linux Application
SSC/Docker
zOS
zVSE
CICS
ZOSCIX1
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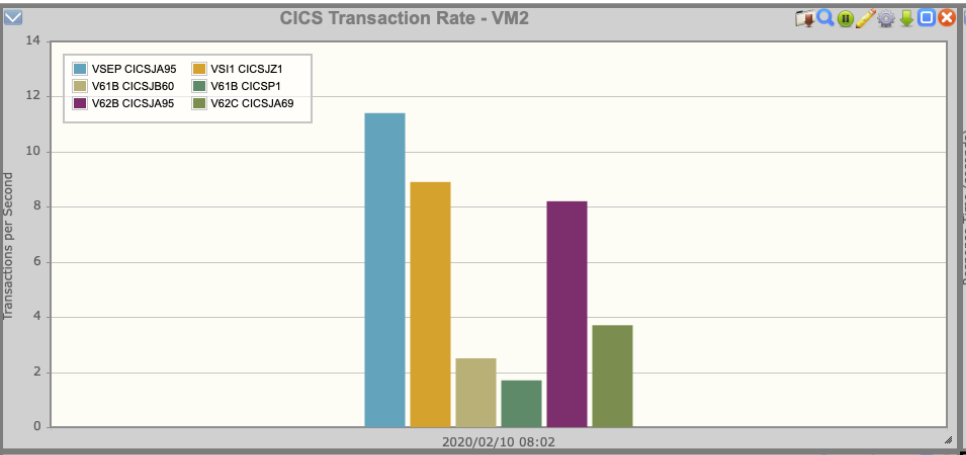
Friday 12 Jun 2020 07:42
zVIEW Version 5112
VELOCITY SOFTWARE
zVIEW - Velocity Software - VSIVM4 (VM4)
Performance Displays for z/VM, Linux, z/OS and z/VSE
Menu
ZOSCIX1 - VM4
ZOSCIX1 - CICS Analysis - VM4
Time SYSID <--CICS Program--> <-----Start-----> Platform <----Location---> <--Transactions-> <----Task Statistics----->
APPLID JobName Date Time O/S VRM LPARName VMID Total Resp CPU Total MXT Actv PctM MXTQ
07:42:00 VSI1 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 VSI1 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 Count <-Response Time-> Total Resp Susp Time Disp Time <---Dispatch---> CPU Time PC Load zIIP CPU <---Dispatch Delays----> Total CPU First Disp Other I/O Wait Uncapt Wait CPU Disp Ratio
07:50:00 VSI1 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 VSI1 CICSZA1 Inflight 0 . . . 0 . . 0
07:50:00 VSI1 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 VSI1 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
CICS Menu

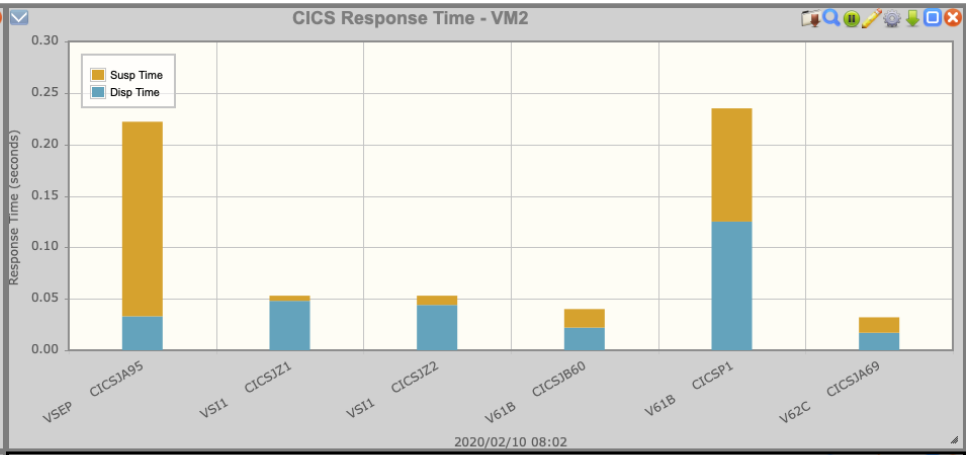
CICS Data

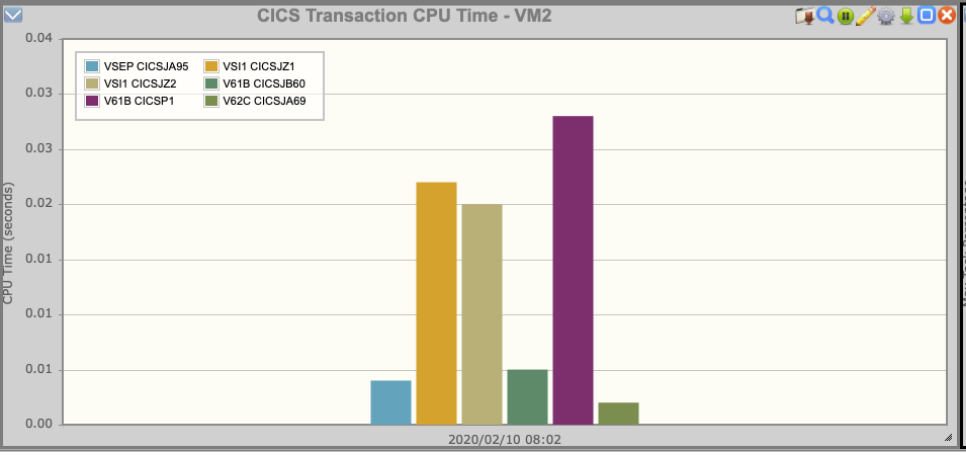
ZOSCIX4 - CICS Detailed Transaction Analysis - VM4

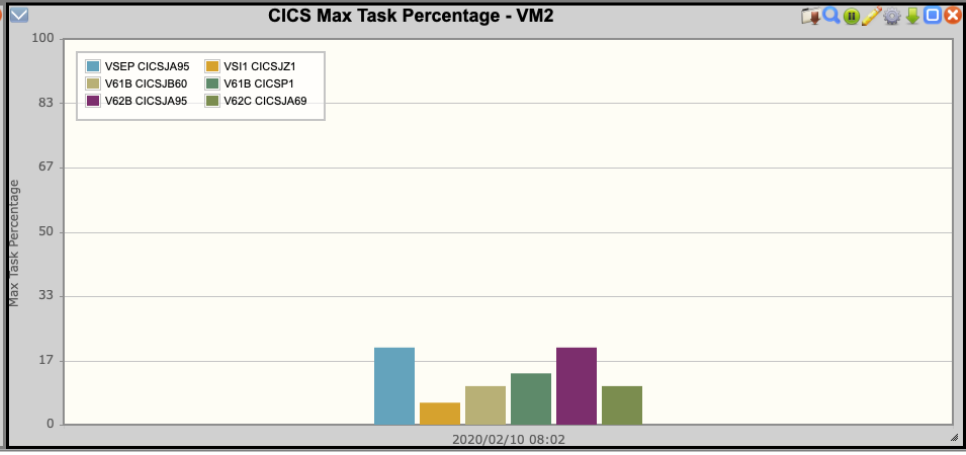
					<-Response Time->			<---Dispatch--->			<---Suspend Time per Tran (ms)-->									<-----Suspend Time per Tran (ms)---->					
Time	SYSID	APPLID	Tran ID	Count	Total Resp	Susp Time	Disp Time	CPU Time	PC Load	zIIP CPU	Disp Wait	MXT Dly	TC Dly	Trm	Jrn	TS	File	MRO	TD	Shr TS	RLS	CF Dtbl	Sockets In	Sockets Out	<-LU--> 61	<-LU--> 62	FEPI
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

CICS Data



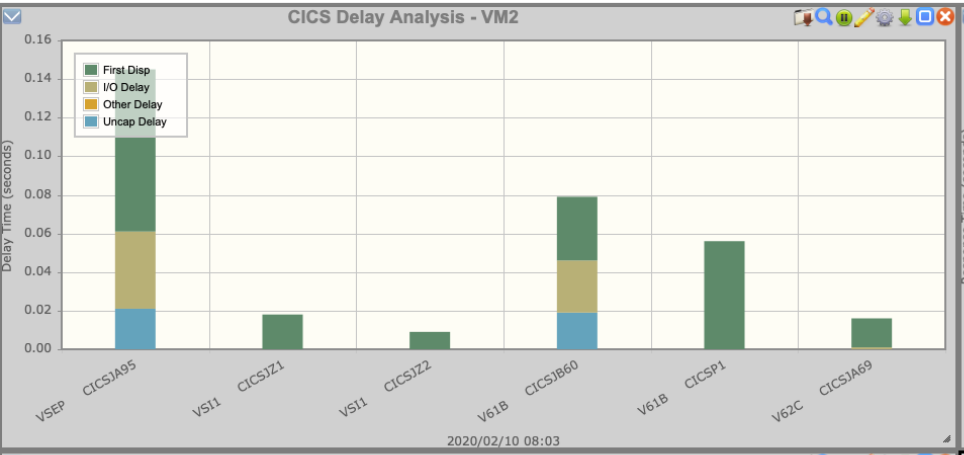


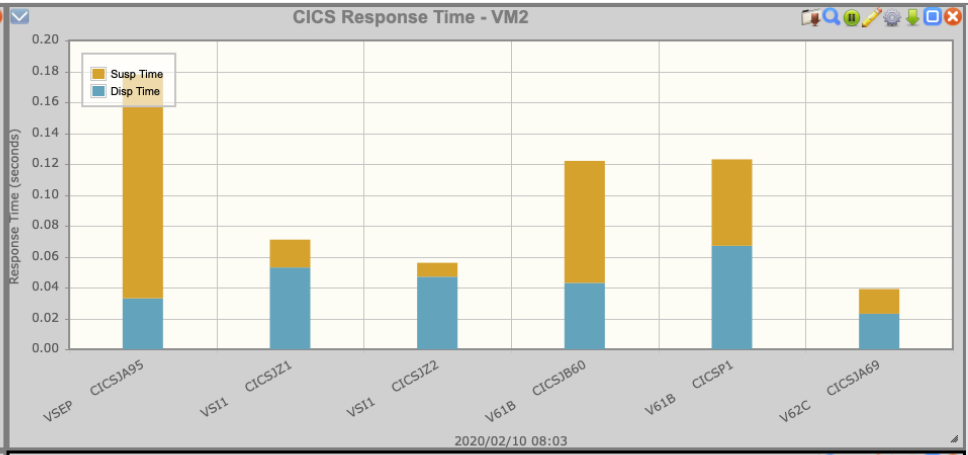


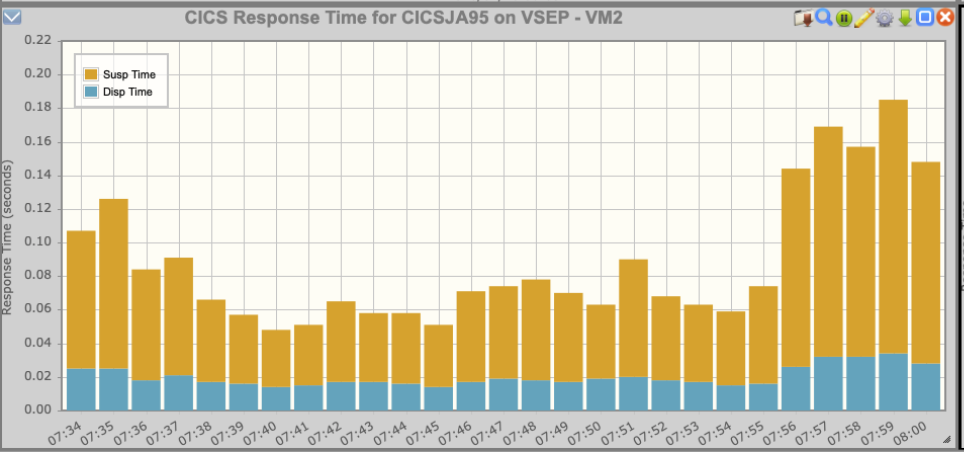


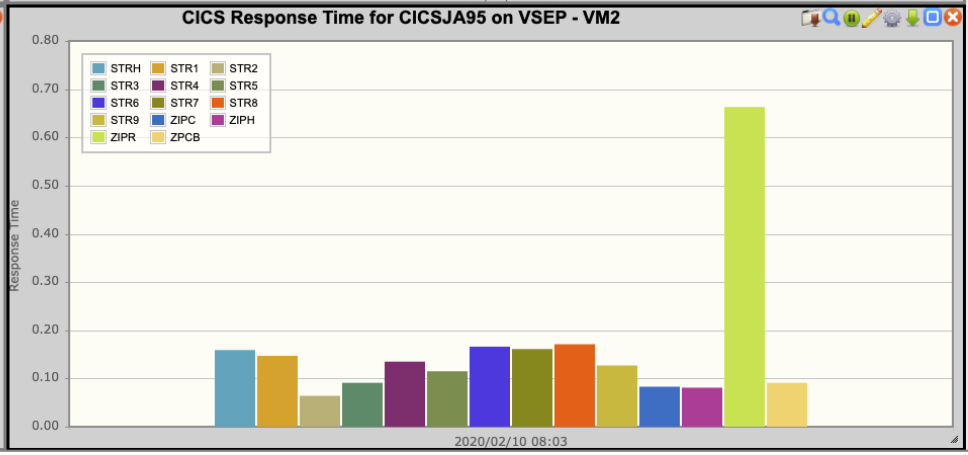
VELOCITY SOFTWARE

CICS Data

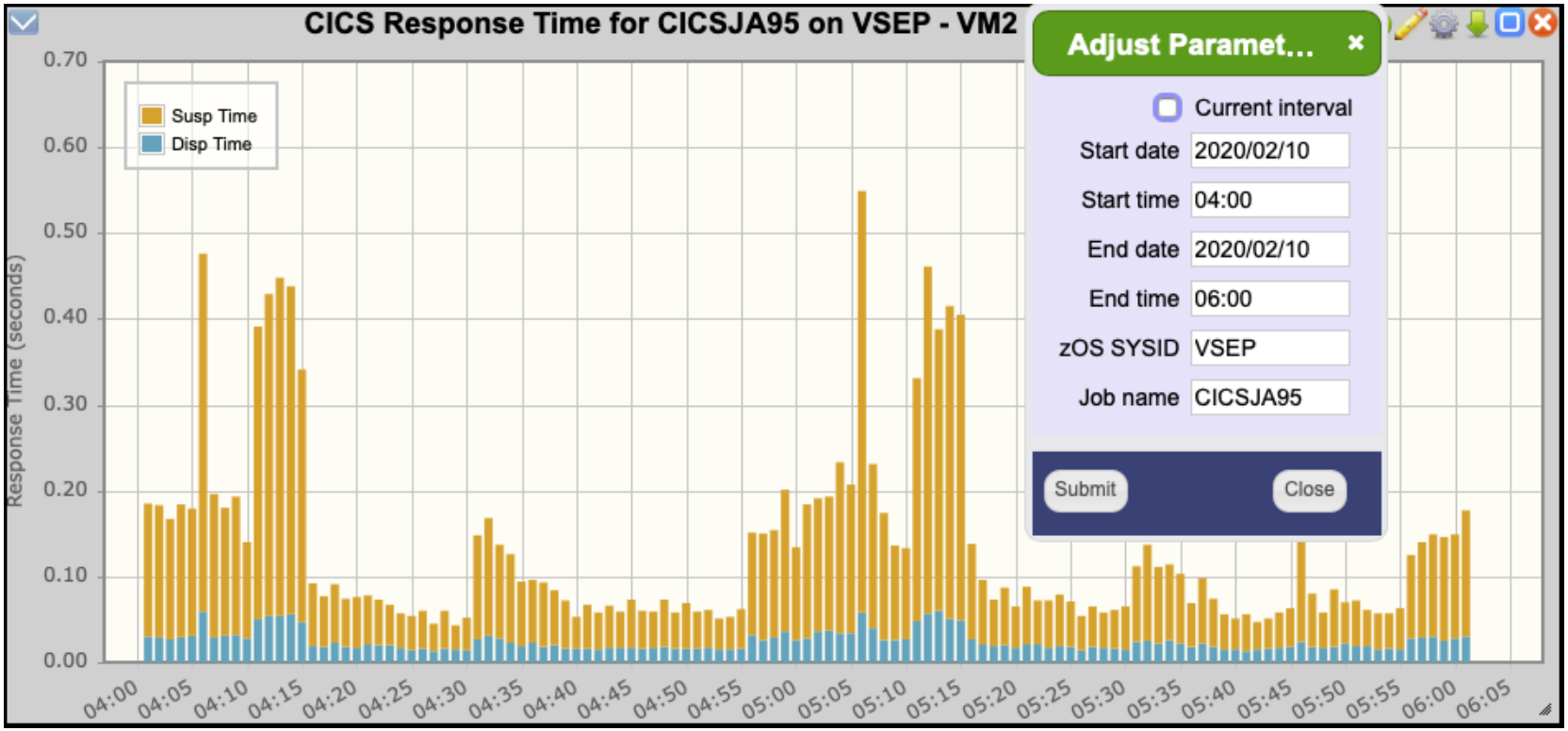




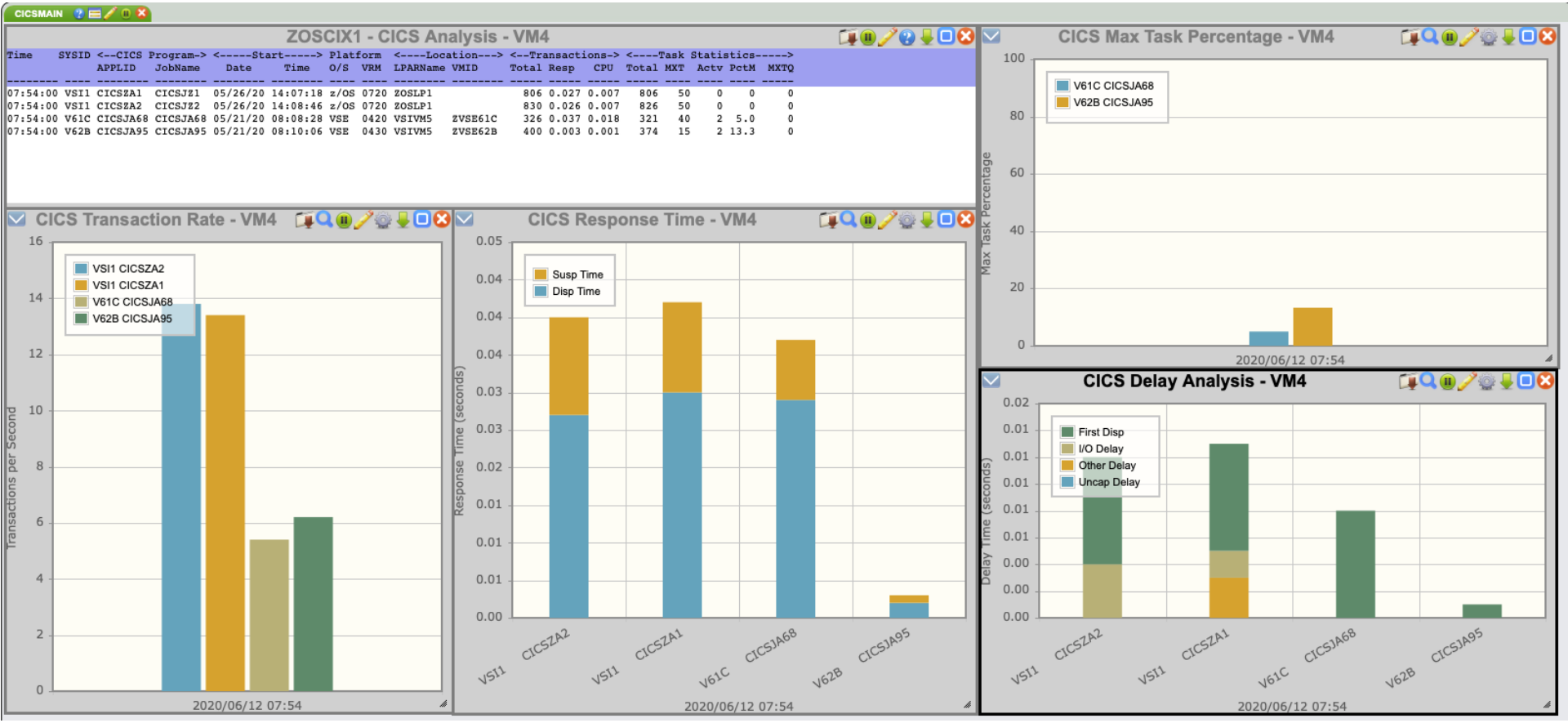




VELOCITY SOFTWARE


CICS Response Time for CICSJA95 on VSEP - VM2
Susp Time
Disp Time
Response Time (seconds)
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
04:00
04:05
04:10
04:15
04:20
04:25
04:30
04:35
04:40
04:45
04:50
04:55
05:00
05:05
05:10
05:15
05:20
05:25
05:30
05:35
05:40
05:45
05:50
05:55
06:00
06:05
Adjust Paramet...
Current interval
Start date 2020/02/10
Start time 04:00
End date 2020/02/10
End time 06:00
zOS SYSID VSEP
Job name CICSJA95
Submit
Close

CICS Views

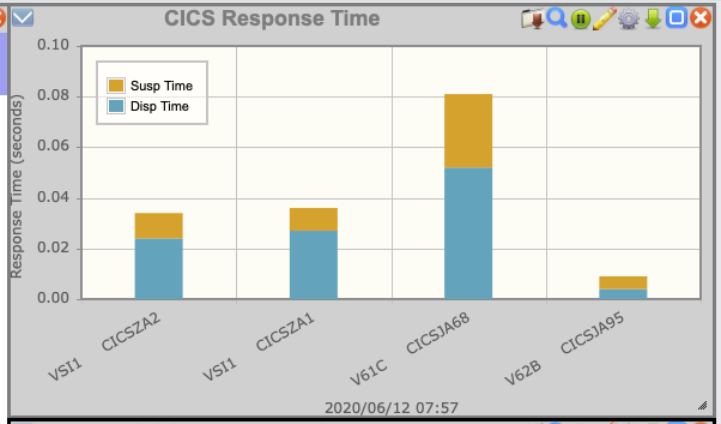

CICSMAIN
ZOSCIX1 - CICS Analysis - VM4
Time SYSID <--CICS Program--> <-----Start-----> Platform <----Location---> <--Transactions--> <-----Task Statistics----->
APPLID JobName Date Time O/S VRM LPARName VMID Total Resp CPU Total MXT Actv PctM MXTQ
07:54:00 VSI1 CICSZA1 CICSJ#1 05/26/20 14:07:18 z/OS 0720 ZOSLP1 806 0.027 0.007 806 50 0 0 0
07:54:00 VSI1 CICSZA2 CICSJ#2 05/26/20 14:08:46 z/OS 0720 ZOSLP1 830 0.026 0.007 826 50 0 0 0
07:54:00 V61C CICSJA68 CICSJA68 05/21/20 08:08:28 VSE 0420 VSIVM5 ZVSE61C 326 0.037 0.018 321 40 2 5.0 0
07:54:00 V62B CICSJA95 CICSJA95 05/21/20 08:10:06 VSE 0430 VSIVM5 ZVSE62B 400 0.003 0.001 374 15 2 13.3 0
CICS Transaction Rate - VM4
VSI1 CICSZA2
VSI1 CICSZA1
V61C CICSJA68
V62B CICSJA95
Transactions per Second
2020/06/12 07:54
CICS Response Time - VM4
Susp Time
Disp Time
Response Time (seconds)
VSI1 CICSZA2
VSI1 CICSZA1
V61C CICSJA68
V62B CICSJA95
2020/06/12 07:54
CICS Max Task Percentage - VM4
V61C CICSJA68
V62B CICSJA95
Max Task Percentage
2020/06/12 07:54
CICS Delay Analysis - VM4
First Disp
I/O Delay
Other Delay
Uncap Delay
Delay Time (seconds)
VSI1 CICSZA2
VSI1 CICSZA1
V61C CICSJA68
V62B CICSJA95
2020/06/12 07:54

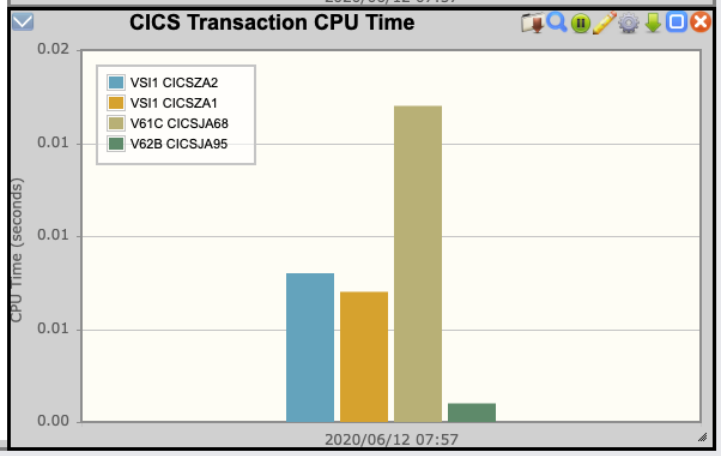
CICS Views

CICSMAIN CICSTRAN

ZOSCIX4 - CICS Detailed Transaction Analysis - VM4

Time	SYSID	APPLID	Tran ID	Count	<-Response Time-> Total Resp	Susp Time	Disp Time	<---Dispatch---> CPU Time	PC Load	zIIP CPU	<---Suspend Time per Tran (ms)--> Disp Wait	MXT Dly	TC Dly	TC Trm	Jrn	TS	File	MRO	TD	Shr TS	RLS	CF Dtbl	Sockets In	Sockets Out	<-LU--> 61	62	FEPI
07:57:00	VSI1	CICSZA1	CSSY	5	0.200	0.200	0.001	0.000	0	0	0.63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA1	STRH	28	0.011	0.004	0.014	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA1	STR1	29	0.011	0.007	0.008	0.002	0	0	5.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA1	STR2	23	0.026	0.017	0.018	0.005	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA1	STR3	28	0.014	0.006	0.015	0.005	0	0	4.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA1	STR4	26	0.035	0.015	0.040	0.009	0	0	5.72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA1	STR5	24	0.028	0.010	0.037	0.011	0	0	6.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA1	STR6	29	0.041	0.017	0.047	0.015	0	0	5.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA1	STR7	26	0.038	0.019	0.039	0.013	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA1	STR8	31	0.049	0.018	0.062	0.018	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA1	STR9	25	0.041	0.017	0.049	0.017	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA1	ZIPC	206	0.008	0.005	0.005	0.001	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA1	ZIPR	202	0.037	0.007	0.061	0.017	0	0	1.48	0	0	2.4	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA1	ZIPU	204	0.011	0.007	0.007	0.001	0	0	2.05	0	0	0.0	0	0	2.3	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	CSSY	1	0.212	0.211	0.001	0.000	0	0	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	STRH	35	0.012	0.006	0.013	0.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	STR1	32	0.005	0.001	0.008	0.002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	STR2	30	0.013	0.005	0.016	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	STR3	30	0.012	0.002	0.019	0.007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	STR4	27	0.016	0.006	0.019	0.008	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	STR5	34	0.020	0.006	0.027	0.011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	STR6	26	0.036	0.015	0.041	0.014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	STR7	32	0.029	0.008	0.043	0.015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	STR8	31	0.036	0.012	0.048	0.018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	STR9	25	0.037	0.005	0.065	0.024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	ZIPC	201	0.010	0.008	0.004	0.001	0	0	1.17	0	0	0	0	0	1.6	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	ZIPR	200	0.044	0.016	0.056	0.017	0	0	8.26	0	0	2.7	0	0	7.2	0	0	0	0	0	0	0	0	0	0	0
07:57:00	VSI1	CICSZA2	ZIPU	206	0.013	0.011	0.005	0.001	0	0	3.76	0	0	0.0	0	0	4.8	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V61C	CICSJA68	STRH	26	0.031	0.016	0.015	0.004	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V61C	CICSJA68	STR1	33	0.030	0.012	0.018	0.003	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V61C	CICSJA68	STR2	35	0.049	0.023	0.026	0.010	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V61C	CICSJA68	STR3	21	0.020	0.006	0.015	0.009	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V61C	CICSJA68	STR4	23	0.062	0.028	0.034	0.011	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V61C	CICSJA68	STR5	32	0.075	0.039	0.036	0.015	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V61C	CICSJA68	STR6	29	0.133	0.051	0.082	0.031	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V61C	CICSJA68	STR7	31	0.125	0.026	0.099	0.033	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V61C	CICSJA68	STR8	24	0.134	0.062	0.072	0.028	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V61C	CICSJA68	STR9	33	0.134	0.028	0.105	0.023	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V62B	CICSJA95	STRH	34	0.012	0.009	0.003	0.001	0	.	0.09	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V62B	CICSJA95	STR1	34	0.006	0.004	0.002	0.001	0	.	0.01	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V62B	CICSJA95	STR2	30	0.005	0.003	0.001	0.001	0	.	0.01	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V62B	CICSJA95	STR3	32	0.003	0.001	0.002	0.001	0	.	0.08	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V62B	CICSJA95	STR4	30	0.003	0.001	0.002	0.001	0	.	0.01	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V62B	CICSJA95	STR5	26	0.013	0.002	0.010	0.001	0	.	0.07	0	0	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V62B	CICSJA95	STR6	29	0.005	0.003	0.002	0.001	0	.	0.02	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V62B	CICSJA95	STR7	27	0.003	0.001	0.002	0.001	0	.	0.01	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V62B	CICSJA95	STR8	38	0.007	0.004	0.003	0.001	0	.	0.01	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:57:00	V62B	CICSJA95	STR9	40	0.033	0.020	0.013	0.001	0	.	0.19	0	0	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0



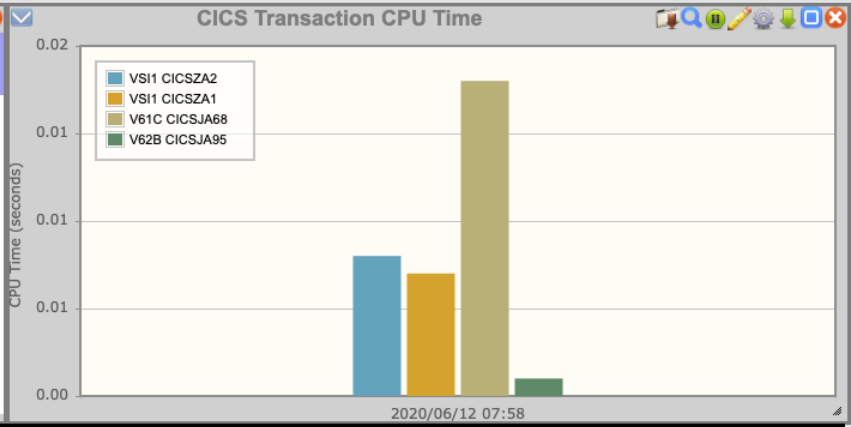


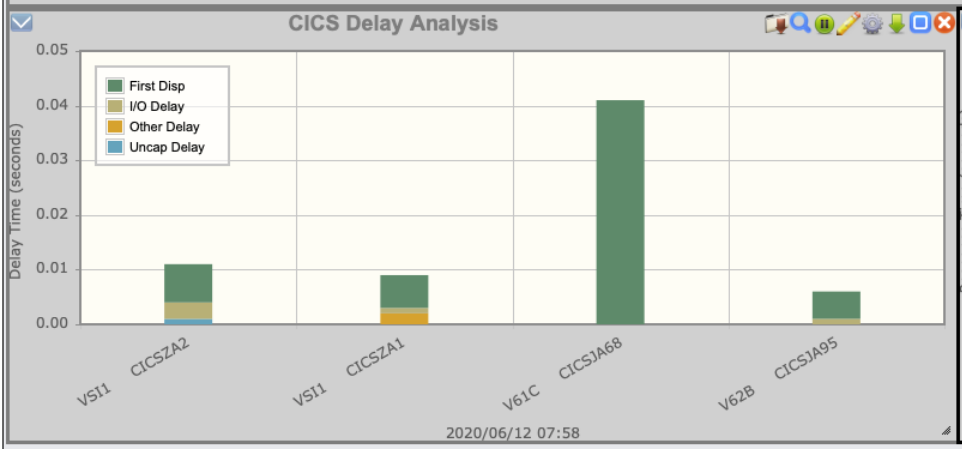
CICS Views

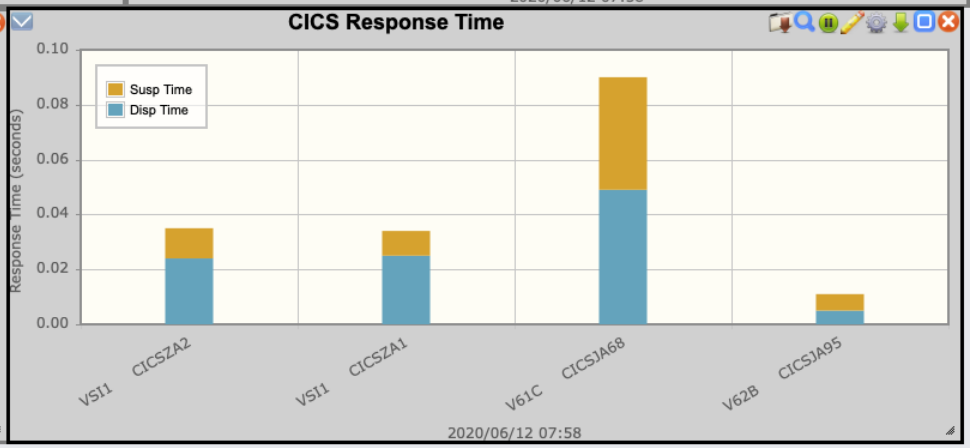
CICSMAIN CICSTRAN CICSDLAY

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	<---Dispatch Delays----> First Disp	Other	I/O Wait	Uncapt Wait	CPU Disp Ratio
07:58:00	VSI1	CICSZA1	Totals	870	0.022	0.009	0.025	0.007	0	0	6.25	0.006	0.002	0.001	0.000	56.333
07:58:00	VSI1	CICSZA1	Inflight	10	60	60	0.502	0.025	0	0	0.25					
07:58:00	VSI1	CICSZA2	Totals	904	0.022	0.011	0.024	0.008	0	0	6.85	0.007	0.000	0.003	0.001	63.350
07:58:00	VSI1	CICSZA2	Inflight	0	.	.	.	0	.	.	0					
07:58:00	V61C	CICSJA68	Totals	287	0.090	0.041	0.049	0.018	0	.	5.15	0.041	0	0	0	73.416
07:58:00	V61C	CICSJA68	Inflight	0	.	.	.	0	.	.	0					
07:58:00	V62B	CICSJA95	Totals	360	0.012	0.006	0.005	0.001	0	.	0.21	0.005	0	0.001	0.000	23.496
07:58:00	V62B	CICSJA95	Inflight	0	.	.	.	0	.	.	0					







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

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

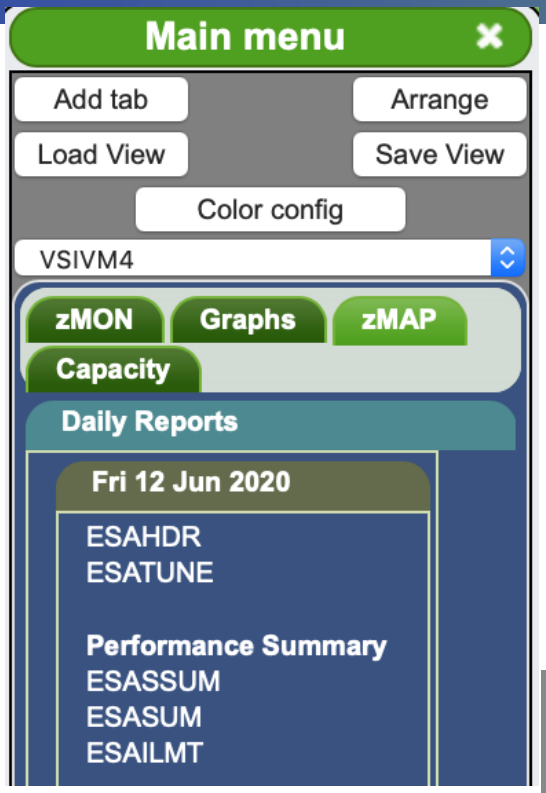
This provides a long term database and is the source for capacity planning

In addition, reports are generated in the 15 minute format

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

VELOCITY SOFTWARE

Reports



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       Pages/Sec <Rate/Sec> <CPU Utilization> <-Job CPU->    All       Pct  Seconds
/Time       In   Out   SVC  DSP  Total  Mstr  Spin TOTal  Ovhd   Bound      NP  OfData
--------   ---- ---- ---- ----  ----- ----- ----- ----- -----    -----    ----  ------
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       <---z/VM---> <LogicalPart> <--------CPU model-------> <--Partitions--> <----CPU Counts---->
/Time      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
```

Daily VSE Partition Performance Report - VM4 - Fri 12 Jun 2020

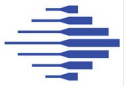
```
Report: ESAVSEP      VSE Partition Performance Report              Velocity Software Corporate   ZMAP 5.1.1 06/13/20   Pg   1244

Monitor initialized: 06/12/20 at 00:00:00 on 8562 serial 040F78    First record analyzed: 06/12/20 00:00:00
-------------------------------------------------------------------------------------------------------------------------------
NODE       Part Job      Phase      <-CPU Pct-->  <I/O Rates/sec->  <---Starting----> <--End-> User     Prty Shr Job   Step Ret
/Time      ID   Name     Name       CPU   Overhd  DISK Vdisk Other  date     Time     Time     INFO              Nbr   Flag Code
--------   ---- -------- --------   ----- ------  ---- ----- -----  -------- -------- -------- -------- ---- --- ----- ---- ----
06/12/20
00:15:00
zvse61b         Totals              9.1    1.1    10.0     0   0.4
           BG   LLST     DTRIATTN   0.0    0.0     0.8     0   0.3 06/12/20 00:05:01 00:05:01           10 100 55369 L
            j   DMFSWTCH ARXREXX    0.0    0.0     0.1     0   0.0 06/12/20 00:00:01 00:00:04           10 100 55367 L    0000
            j   DUMPDMFB DFHDFOU    0.0    0.0     0.2     0   0.1 06/12/20 00:00:05 00:00:06 RICH      10 100 55368 S    0000
            j   DUMPDMFB DFHDFOU    0.0    0.0     0.2     0   0.1 06/12/20 00:00:06 00:00:07 RICH      10 100 55368 S    0000
            j   DUMPDMFB BSTTFTPC   0.0    0.0     0.1     0   0.1 06/12/20 00:00:07 00:00:10 RICH      10 100 55368 L    0000
            j   JDEL     DTRIATTN   0.0    0.0     0.0     0   0.0 06/12/20 00:00:10 00:00:10           10 100 55366 L    0000
            j   LLST     DTRIATTN   0.0    0.0     0.0     0   0.0 06/12/20 00:05:01 00:05:01           10 100 55369 S    0000
            j   LLST     DTRIATTN   0.0    0.0     0.0     0   0.0 06/12/20 00:05:01 00:05:01           10 100 55369 L    0000
           FB   SECSERV  BSTPSTS    0.0    0.0       0     0     0 05/21/20 07:55:57         .           2   0     0 S
            j   SECSERV  BSTPSTS    0.0    0.0       0     0     0 05/21/20 07:55:57         .           2   0     0 S
           F1   POWSTART IPWPOWER   0.0    0.0     0.4     0   0.0 05/21/20 07:55:58         .           1   0     0 S
```

Daily VSE Completed Job Step Report - VM4 - Fri 12 Jun 2020

```
Report: ESAVSEJ      VSE Completed Job Step Report                 Velocity Software Corporate   ZMAP 5.1.1 06/13/20   Pg   1321

Monitor initialized: 06/12/20 at 00:00:00 on 8562 serial 040F78    First record analyzed: 06/12/20 00:00:00
-------------------------------------------------------------------------------------------------------------------------------
NODE       Part Job      Phase      <-CPU Secs->  <--I/O Counts-->  <---Starting----> <--End-> User     Prty Shr Job   Step Ret
/Time      ID   Name     Name       CPU   Overhd  DISK Vdisk Other  date     Time     Time     INFO              Nbr   Flag Code
--------   ---- -------- --------   ----- ------  ---- ----- -----  -------- -------- -------- -------- ---- --- ----- ---- ----
06/12/20
00:15:00
zvse61b
           BG   DMFSWTCH ARXREXX    0.0    0.0     132     0    25 06/12/20 00:00:01 00:00:04           10 100 55367 L    0000
           BG   DUMPDMFB DFHDFOU    0.0    0.0     180     0    75 06/12/20 00:00:05 00:00:06 RICH      10 100 55368 S    0000
           BG   DUMPDMFB DFHDFOU    0.0    0.0     148     0    58 06/12/20 00:00:06 00:00:07 RICH      10 100 55368 S    0000
           BG   DUMPDMFB BSTTFTPC   0.2    0.0     124     0    99 06/12/20 00:00:07 00:00:10 RICH      10 100 55368 L    0000
           BG   JDEL     DTRIATTN   0.0    0.0      39     0    12 06/12/20 00:00:10 00:00:10           10 100 55366 L    0000
           BG   LLST     DTRIATTN   0.0    0.0      39     0     8 06/12/20 00:05:01 00:05:01           10 100 55369 S    0000
           BG   LLST     DTRIATTN   0.0    0.0      34     0     5 06/12/20 00:05:01 00:05:01           10 100 55369 L    0000
zvse61c
           BG   JDEL     DTRIATTN   0.0    0.0      39     0    12 06/12/20 00:00:00 00:00:00            9   0 56445 L    0000
           BG   DMFSWTCH ARXREXX    0.0    0.0     106     0    25 06/12/20 00:00:01 00:00:03            9   0 56449 L    0000
           BG   DUMPDMFA DFHDFOU    0.1    0.0     180     0    75 06/12/20 00:00:03 00:00:06 RICH       9   0 56450 S    0000
           BG   DUMPDMFA DFHDFOU    0.1    0.0     152     0    58 06/12/20 00:00:06 00:00:07 RICH       9   0 56450 S    0000
           BG   DUMPDMFA BSTTFTPC   0.1    0.0      94     0    65 06/12/20 00:00:07 00:00:09 RICH       9   0 56450 L    0008
           BG   LLST     DTRIATTN   0.0    0.0      39     0     8 06/12/20 00:05:00 00:05:00            9   0 56451 S    0000
           BG   LLST     DTRIATTN   0.0    0.0      34     0     5 06/12/20 00:05:00 00:05:00            9   0 56451 L    0000
           Y1   SCANVSM1 LIBR       0.0    0.0     154     0   194 06/12/20 00:00:18 00:00:19 VSM1      20   0 56446 S    0000
           Y1   SCANVSM1 ARXREXX    1.5    0.2    2072     0    10 06/12/20 00:00:19 00:00:53 VSM1      20   0 56446 L    0000
           Y2   SCANVSM2 ARXREXX    6.8    0.9    5167     0    89 06/12/20 00:00:08 00:01:32 VSM2      20   0 56447 S    0000
           Y2   SCANVSM2 ARXREXX    6.8    0.9    5138     0    48 06/12/20 00:01:32 00:02:36 VSM2      20   0 56447 S    0000
           Y2   SCANVSM2 ARXREXX    6.6    0.9    5136     0    50 06/12/20 00:02:36 00:03:01 VSM2      20   0 56447 L    0000
           Y3   SCANVSM3 ARXREXX    7.5    1.1    1429     0    57 06/12/20 00:00:03 00:01:36 VSM3      20   0 56448 S    0000
           Y3   SCANVSM3 ARXREXX    7.5    1.0    1400     0    16 06/12/20 00:01:36 00:02:38 VSM3      20   0 56448 S    0000
           Y3   SCANVSM3 ARXREXX    7.2    0.9    1400     0    16 06/12/20 00:02:38 00:03:02 VSM3      20   0 56448 S    0000
           Y3   SCANVSM3 ARXREXX    7.1    0.9    1398     0    18 06/12/20 00:03:02 00:03:12 VSM3      20   0 56448 L    0000
```



Summary

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

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Thank you!

Questions?

http://www.velocitysoftware.com

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