

CICS V5: Scalability and availability for a mobile world

Speaker Name and Title



Agenda

- Scalability
- Performance
- Policies
- Scalability Tooling
- Connectivity
- Summary



Driving operational efficiencies - Greater capacity

- Vertical Scaling
 - Relieve region storage constraints
 - Further virtual storage constraint relief
 - Maximum task limit has been doubled
 - Further threadsafe support to reduce Run more, more easily TCB switching and increase workload capacity



Horizontal Scaling

- Instrumentation enhancements understand how the platform is scaling
- Standardization and simplification

'right-size' and simplify CICS topologies

HORIZONTAL SCALING

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DSW Workload – CPSM Dynamic routing

- 8 CPs 34 CICS regions
- COBOL/VSAM
- All transactions routed from 4 TORs to 30 AORs via CPSM
- 50% of transactions issue FC requests
- All TS requests are TS Shared
- All FC requests are VSAM RLS
 - Average of 6 requests per transaction (all transactions)
 - -69% Read, 10% Read for Update, 9% Update,11% Add , 1% Delete



CICS DSW 4 TORs 30 AORs – RLS - 8 CPs

ETR	CICS %	Ms/Tran	LPAR%
2071.61	141.20	0.681	21.05
2842.02	189.11	0.665	27.85
4128.25	270.70	0.655	39.41
5047.36	326.08	0.646	47.24
6493.98	417.16	0.642	60.21

CICS TS 4.2

ETR	CICS %	MS/Tran	LPAR%	
2074.87	139.91	0.674	20.87	
2846.00	188.55	0.662	27.78	CICS TS 5.1
4133.39	269.54	0.652	39.32	
5053.15	326.22	0.645	47.33	
6501.18	416.92	0.641	60.25	

4.2 Ave CPU/Tran = 0.657ms 5.1 Ave CPU/Tran = 0.654ms





DSW Workload – Static routing

- 16 CPs 5 CICS regions
- COBOL/VSAM
- All transactions routed from 2 TORs to 2 AORs
- All File requests are Function Shipped to 1 FOR
- 50% of transactions issue FC requests
- All FC requests are VSAM LSR
 - Average of 6 requests per transaction (all transactions)
 - -69% Read, 10% Read for Update, 9% Update, 11% Add , 1% Delete



CICS DSW 2 TORs 2 AORs 1FOR 16 CPs

ETR	CICS %	Ms/Tran	LPAR%	
2498.52	75.86	0.304	6.78	
2928.69	88.35	0.302	7.79	
3543.47	104.08	0.294	9.09	CICS TS 4.2
4428.34	129.16	0.292	11.13	
5944.91	168.58	0.284	14.34	
				-
ETR	CICS %	MS/Tran	LPAR%	
ETR 2496.35	CICS % 77.55	MS/Tran 0.311	LPAR% 6.89	
				CICS TS 5.1
2496.35	77.55	0.311	6.89	CICS TS 5.1
2496.35 2939.62	77.55 87.18	0.311 0.297	6.89 7.65	CICS TS 5.1

4.2 Ave CPU/Tran = 0.295ms 5.1 Ave CPU/Tran = 0.292ms





RTW Workload – Single region

- COBOL/DB2
- 7 transaction types
- 20 Database tables
- Average 200 DB2 calls per transaction
- 54% Select, 1% inset, 1% update, 1%delete,
- 8% open cursor, 27% fetch cursor 8 close cursor



CICS RTW single region

ETR	CICS %	MS/Tran	LPAR%
249.69	53.59	2.146	21.33
361.55	77.65	2.147	30.93
474.66	101.46	2.137	39.85
592.37	125.40	2.116	48.89
730.20	153.82	2.106	59.51

CTS 4.2

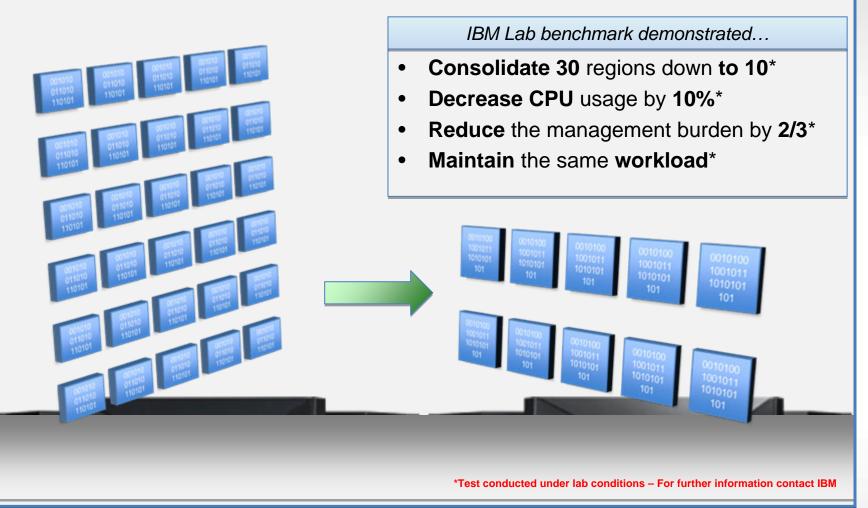
ETR	CICS %	MS/Tran	LPAR%	
249.98	54.19	2.167	21.63	
361.88	78.35	2.165	31.26	
474.86	101.42	2.135	39.74	CTS 5.1
592.74	126.14	2.128	49.20	
729.98	155.06	2.124	59.98	

4.2 Ave CPU/Tran = 2.130ms 5.1 Ave CPU/Tran = 2.143ms





Greater Capacity – Achieve cost savings through consolidation





CICS Consolidation DSW/RLS workload

ETR	CICS %	LPAR%	MS/Tran	Real frames	
4983.60	253.74	19.95	0.640	736961	
6385.12	325.48	25.35	0.635	737319	30 AORs
10135.28	510.46	39.24	0.619	738387	JU AUNS
13969.74	704.09	53.80	0.616	739682	
15898.14	821.69	62.53	0.629	740917	

ETR	CICS %	LPAR%	MS/Tran	Real frames	
4969.95	232.11	18.09	0.582	342299	
6390.11	293.22	22.69	0.568	342460	10 AORs
10137.49	456.27	34.93	0.551	342893	
13969.68	620.51	47.22	0.540	343470	
15867.72	725.80	55.26	0.557	343775	

HIS data collected for the last measurement interval



DSW Hardware Instrumentation data extracts for last interval

	30 AORs	10 AORs	Delta
Execution Samples	2487298	2201099	-11%
Instruction First Cycle (IFC)	379000	371470	-2%
Micro Seconds per transaction	628.34	556.43	-11%
Cycles per instruction	6.53	5.90	-10%
MIPS per CP	797	882	+10%
Data cache misses (samples)	744894	608550	-18%
Instruction cache miss includes TLB miss	90483	66626	-26%
% Cycles used by TLB misses	6.82	5.94	-13%
Relative Nest Intensity (RNI)	0.48	0.34	



CICS Consolidation Webservices (GENAPP)

ETR	CICS %	LPAR%	MS/Tran	Real frames	
828.31	94.85	37.47	1.145	862739	
992.14	114.24	44.94	1.151	873593	30 AORs
1237.67	139.43	54.45	1.126	880690	JUAUNS
1633.98	185.24	71.92	1.133	897041	
1883.25	233.38	89.69	1.239	959291	

ETR	CICS %	LPAR%	MS/Tran	Real frames	
827.72	86.42	34.26	1.044	381422	
986.51	104.35	41.20	1.057	389384	10 AORs
1231.89	129.67	50.90	1.052	394495	
1629.05	166.94	65.07	1.024	399247	
1916.36	209.88	81.54	1.095	464827	



Web Services Hardware Instrumentation data extracts for last interval

	30 AORs	10 AORS	Delta
Execution Samples	3517830	3188565	-9%
Instruction First Cycle (IFC)	589236	590667	+2%
Micro Seconds per transaction	1240	1095	-11%
Cycles per instruction	5.97	5.39	-10%
MIPS per CP	898	1003	+11.6%
Data cache misses (samples)	1145876	932896	
Instruction cache miss includes TLB miss	149468	115015	
% Cycles used by TLB misses	9.95	9.23	
Relative Nest Intensity (RNI)	0.75	0.51	



CICS TS 5.1 - Driving Operational Efficiency

CICS TS V5.1

Greater Capacity

- Doubling the MAXTASK limit to 2,000
- Increased 64-bit and reduced 24-bit storage
 usage
- Greater parallelism from threadsafe API and SPI
- Greater system parallelism through optimized TCB usage
- Performance improvements from 64-bit Java 7
- Greater access to 64-bit storage from Assembler programs

Increased Availability

- Upgrade CICS versions and releases without requiring a z/OS restart
- Modern batch feature pack
- Refresh Secure Sockets Layer (SSL) certificates
- Keep IPIC connections up and running
- Support more IBM GDPS/AA solutions
- Dynamically specify cross-system coupling facility groups
- Better reflect current best practices with updated and simplified defaults

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CICS V5.1 Policy

Managed Operations

- Automated control over critical system
 resources
- Set data access thresholds on SQL or file access
- Set program loop thresholds on EXEC LINK
- Set storage request thresholds
- Set CPU time thresholds
- Policies can issue messages, abending tasks, or create events

1000

Deeper Insight

- Auditing of SPI commands that alter the system
- Improved auditing of user IDs that make requests over IP
- Extended identity propagation to include started tasks
- Cipher suites used for SSL connections to be stored in the performance records
- Calculate the actual and potential use of specialty processors
- Regular status updates provided while lost locks recovery is taking place

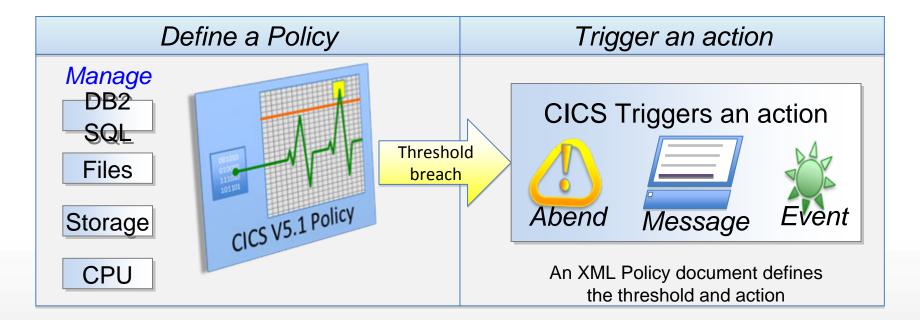




Managed Operations - Reduce cost and risk through automation

Protect critical systems

- "Abend any task running on the Retail Banking region that tries to request any 24-bit storage"
- "Display message if a task allocates more than 1MB of storage in this region"
- "Trigger an event if a shopping-cart browse task generates more than 500 SQL requests"







The power of Policy applied to Applications and Platforms



Application

Faster & easier deployment of CICS applications & resources

 "Abend any application running on the Retail Banking region that tries to request any 24-bit storage"



Platform

Faster & easier management of CICS application environment

 "I want to see a message if an application allocates more than 1MB of storage on this platform"



Policy Respond faster to unwanted behaviour

 Dynamically update policies at runtime to manage changing workload characteristics





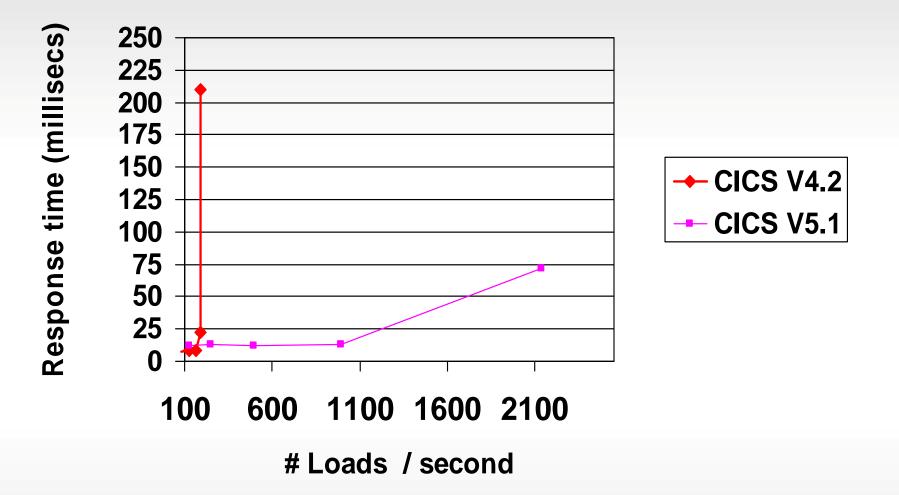
PROGRAM LOAD

- When running on an open TCB and a CICS program load is requested there is no longer a TCB switch to the RO TCB
 - EXEC CICS LINK, LOAD, XCTL, ...
- CICS RO TCB will still be used for ...
 - CICS program LOADs when NOT running on an Open TCB
 - DFHRPL and LIBRARY Dataset Management
- Updated Loader global statistics
 - New statistics on RO TCB program load requests
 - load time recorded by module
- Benefits ...
 - Reduced contention for the single CICS RO TCB
 - Reduced pathlength RO TCB switch eliminated
 - Significantly increased potential CICS program LOAD capacity





Physical Program Loads V4.2 vs V5.1



CICS Performance Analyzer for z/OS

What is CICS PA?

- A Comprehensive Performance Reporting and Analysis tool for CICS
- Provides ongoing system management and measurement reports on all aspects of CICS application performance

How does it work?

- Uses SMF data as input
- Easy to use interface for report generation (over 240 supplied report forms)
- Performance and Statistical analysis
- Graphical performance analysis via the explorer

What's its value?

- Analyze CICS Application performance
- Improve CICS resource usage
- Evaluate the effects of CICS system tuning efforts
- Improve transaction response time
- Provide ongoing system management and measurement reports
- Increase availability of resources
- Increase the productivity of system and application programmers
- Provide awareness of usage trends

Why this tool is important to CICS customers

- Reduce both time/resource required to analyze off-line performance data (usually massive) for tuning and capacity planning purposes.
- Enables deep-dive CICS performance analysis and understanding of usage trends
- Aids capacity planning and tuning
- Helps quickly identify and eliminate trends leading to online performance problems



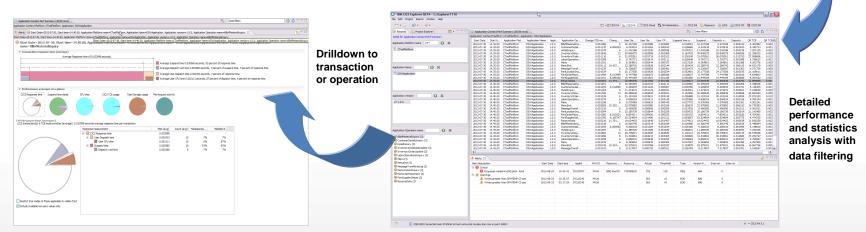
Platform and Application Performance insight

Scenario

- Summarize CICS performance data at application and transaction level
- Drill down into details such as CPU, Response time, Storage and TCB usage
- Data filtering to analyze specific transactions and operations
- Statistics alerts
- Simplify analysis of large volumes of data
- Identify performance bottlenecks promptly

	₽0 Session A - WINNVS2E - [32 x 80]
Summarize	File Edit View Communication Actions Window Help
and export application	
and	<u> Eile Options Help </u>
transaction	HDB Templates Row 1 to 6 of 6
data to DB2	Command ===> Scroll ===> <u>CSR</u>
	Select to edit Template. Enter NEW command to define a new Template. / Name Type Description Changed ID
	_ APPLNM51 SUMMARY Explorer HDB for Appl Context 2012/07/01 12:00 CICSPA
	EXPLOR31 SUMMARY Explorer HDB for CICS TS V3.1 2012/07/01
	EXPLOR32 SUMMARY Explorer HDB for CICS TS V3.2 2012/07/01
	EXPLOR41 SUMMARY Explorer HDB for CICS TS V4.1 2012/07/01 12:00 SPA EXPLOR42 SUMMARY Explorer HDB for CICS TS V4.2 2012/07/01 12:00 CA PA
	EXPLORED SUMMARY EXplorer HDB for CICS TS V4.2 2012/07/01 12:00 CIC PA

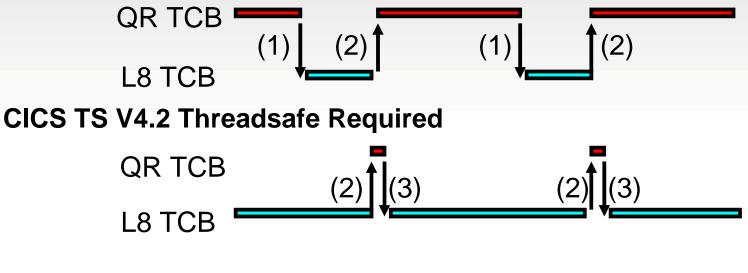
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CICS TS V5.1 Threadsafe enhancements

CICS TS V4.1 Threadsafe CICSAPI



CICS TS V5.1 Threadsafe Required

L8 TCB

(1) Changemode due to DB2 call

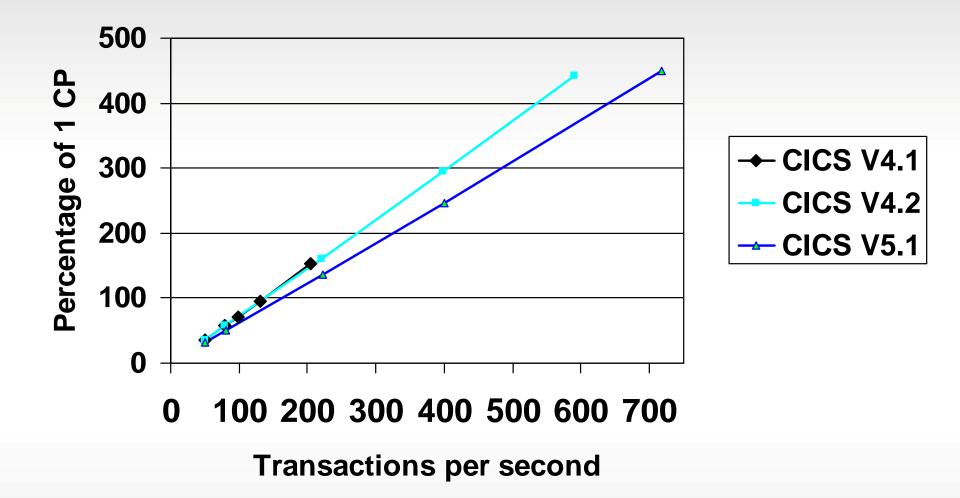
(2) Changemode due to TD Write

(3) Changemode back to L8 due to Required option





Transient data mixed with DB2





CICS PA - Alerts

Statistics Alert Reporting is a capability enabling the definition of conditions, in terms of CICS TS or CICS TG statistics field values, which will generate alerts.

Alerts can be used to assist users in highlighting potential tuning opportunities or identify trends that may lead to poor CICS performance or even unnecessary CICS system outages

Alerts enable users to more easily identify the specific CICS regions, the time of day and the type of CICS resources that may require further specific in-depth performance analysis thereby allowing preventative tuning action to be taken

lert description						Start Date	Start time	Applid	MVS ID	Resource	Resource	Actual
😵 Transaction dumpcode taken						2011-02	00.00.00	CICSACB6	MVSA	Dump Code	PAGE	6
Temporary storage: buffer waits on DFHTEMP						2010-12	13.53.00	IYDZEJ02	MV2F			19
Enqueues waited in ENQ pool - local					2010-12	13.53.00	IYDZEJ02	MV2F	ENQ Pool ID	FCDSRECD	96	
 Enqueues waited in ENQ pool - local Maximum active transactions in class reached 					2010-12		IYDZEJ02		ENQ Pool ID		27 76	
					2010-12		IYDZEJ02		Tclass Name			
🐼 File string waits					2010-12	13.53.00	IYDZEJ02	MV2F	File Name	FILEA	120	
SRPOOL string waits					2010-12	13.53.00	IYDZEJ02	MV2F	LSR Pool N	1	684	
Keine Sterage: Buffer waits on DFHTEMP						2010-12	13.52.00	IYDZEJ02	MV2F			25
	• • • •	•				004.0 4.0	12 52 66	III			100000	
	NCLASS 🔀	Applid IVDZE	102 Transac	tion class T(CLSDSW1, Re	cords after: 2010-12	2-10 13 47 00.	Records befo	ore: 2010-12-1	0 13,59.00.		
	statistics for		-			ecords after: 2010-12	2-10 13.47.00. nt Date		ore: 2010-12-1 2010-12-10	0 13.59.00.	ons in class	
C classes		Applid IYDZE	U02, Transac	tion class T	CLSDSW1. Re	sta Sta	art Date art time	1	2010-12-10 L3.50.00		ons in class Attache	5
C classes	statistics for	•	() 13.50.00	•	() 13.52.00	() 5ta 13.53.00 Int	art Date art time erval Number	r	2010-12-10 13.50.00 10 (Interval)	Transacti ID /FOR	Attache	5
C classes	statistics for 13.48.00 (INT) 8	(INT) 9	(INT) 10	(INT) 11	(INT) 12	Sta 13.53.00 Int (INT) 13 Ap	art Date art time	r	2010-12-10 L3.50.00	Transaction	Attache 3069	5
C classes	statistics for	ال 13.49.00	() 13.50.00	() 13.51.00	() 13.52.00	Sta 5ta 13.53.00 (INT) 13 (INT) 13 (76) Tra	nt Date nt time erval Number plid ansaction clas	r :	2010-12-10 13.50.00 10 (Interval) <u>IVDZEJ02</u> TCLSDSW1	Transaction	Attache 3069 445	5
C classes	statistics for 13.48.00 (INT) 8	(INT) 9	(INT) 10	(INT) 11	(INT) 12	Sta S	art Date art time erval Number plid ansaction clas ansaction clas	r ss sattaches	2010-12-10 L3.50.00 L0 (Interval) <u>IVDZEJ02</u> TCLSDSW1 7621	► Transacti ID <u>/FOR</u> <u>PS2</u> <u>PS3</u>	Attache 3069 445 424	5
C classes	statistics for 13.48.00 (INT) 8	(INT) 9	(INT) 10	(INT) 11	(INT) 12	Sta S	nt Date ort time erval Number plid ansaction clas ansaction clas rrent active	r ss ss attaches	2010-12-10 13.50.00 10 (Interval) <u>IVDZEJ02</u> TCLSDSW1 7621 5	► Transacti ID <u>/FOR</u> <u>PS2</u> <u>PS3</u> <u>SC6</u>	Attache 3069 445 424 415	5
	statistics for 13.48.00 (INT) 8	(INT) 9	(INT) 10	(INT) 11	(INT) 12	Sta 13.53.00 (INT) 13 (76) Tra Cu Pe	art Date art time erval Number plid ansaction clas ansaction clas	r ss ss attaches	2010-12-10 L3.50.00 L0 (Interval) <u>IVDZEJ02</u> TCLSDSW1 7621	► Transacti ID /FOR PS2 PS3 SC6 IT8	Attache 3069 445 424 415 363	5
IC classes	statistics for 13.48.00 (INT) 8	(INT) 9	(INT) 10	(INT) 11	(INT) 12	Sta 13.53.00 (INT) 13 (76) Tra Cu Pe Ma	nt Date art time erval Number plid ansaction clas rrent active ak active	r 55 55 attaches	2010-12-10 13.50.00 10 (Interval) <u>IVDZEJ02</u> TCLSDSW1 7621 5	► Transacti ID /FOR PS2 PS3 SC6 IT8 DE1	Attache 3069 445 424 415 363 361	5
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CICS Performance Analyzer for z/OS V5.1



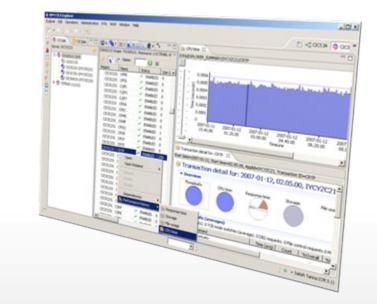
Performance insight

What's new in CICS PA V5.1...

- CICS TS V5.1 support for new metrics
- Application, Platform, and Policy
- Plug-in enhancements:
 - Application centric view
 - Customizable sheet views
 - Suspend time reporting
 - Easy navigation to key reports and alerts
- SMF logstream support
- Batch statistics reporting for CICS TG
- Improved management of PA data loaded to DB2
- CPU totals on MQ reports
- SMF data processing performance improvements

CICS PA enables you to...

- Comprehensive Performance Reporting and Analysis for CICS including DB2, WebSphere MQ, and MVS System Logger
- Understand trends and develop capacity plans
- View statistics and create statistical alerts





Application Performance Analyzer for z/OS

What is APA?

 An application performance measurement tool designed to appeal to a wide audience.

What's its value?

- Does not require application recompile
- Significantly reduce the time required to identify CICS application resource consumption
- Benchmark comparisons to quickly locate variations in measurements
- Pro-active and Re-active analysis integration with IBM Omegamon-type products

How does it enhance the CICS environment?

- Allows measurements of multiple CICS Address Spaces
- Measurement can be "triggered" i.e. Batch starting a CICS Transaction
- Multiple levels of CICS measurements general, timing statistics, transaction counts, etc.
- Monitor specific transaction(s) or terminal ID's

Why is this tool important?

- All inclusive Language support
- All inclusive Environment support
- Set invocation Thresholds
- Detailed reports with drill down from high-level all the way to program source code
- No application impact in any environment – runs as fast / slow as the system allows
- Reduce the amount of time to identify application resource consumption

Problem Determination

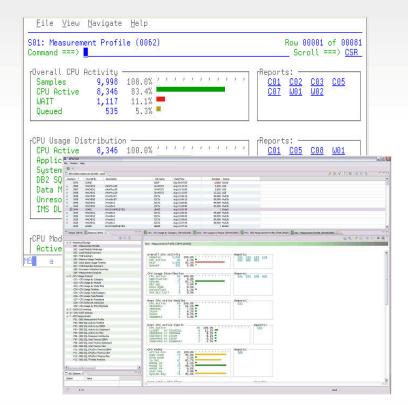






Pinpoint enterprise application bottlenecks IBM Application Performance Analyzer for zOS

- IBM Application Performance Analyzer hops maximize the performance of your applications and improve the response time of your online transactions and batch turnaround
- Identify constraints and improve the entire application's performance no matter where the problem resides (CICS/ IMS/DB2/MQ/COBOL/PLI/ ASM/JAVA)
- Aids application design, development and maintenance cycles
- Measures and reports on how system resources are used by applications running in virtually any z/OS address space including CICS
- Proven 3270-based interface and free graphical user interface



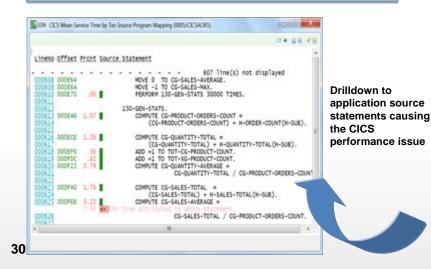
Monitor and optimize performance at the application level © 2014 IBM Corporation



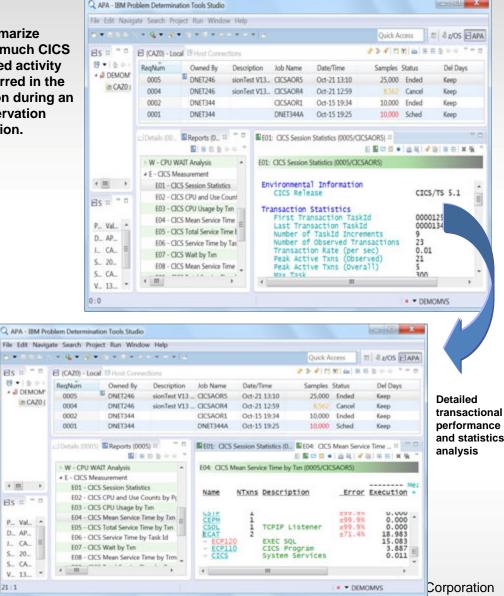
Capture CICS Session Statistics and Transaction Measurement Data

APA for zOS CICS Scenario

- Session statistics summarizes CICS • performance activities occurring in the region
- Gather detail information about transactions • running in the CICS region
- Drill down to specific application source • statements causing performance impacts
- Monitors specific transactions using wildcard • prefixes or terminal ID's
- Pinpoint performance bottlenecks impacting • transaction response times



Summarize how much CICS related activity occurred in the region during an Observation Session.





Application Performance Analyzer for z/OS V13.1



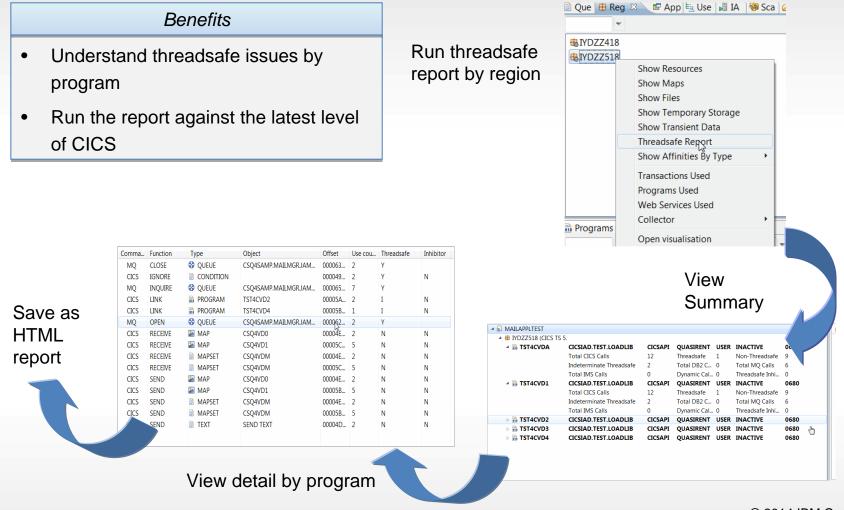
Performance insight

What's new in Application Performance Analyzer V13.1	Application Performance Analyzer enables you to
 Filtering criteria for CICS information CICS Timing Statistics CICS Detailed Counts Identification of Remote file in DASD EXCP summary reports Websphere reports identify CICS distributed program link calls initiated from servant regions Support of CICS/TS V5.1 	 Monitor CICS Region(s), named Transactions, up to 16 Transaction Groups , or Terminal IDs Analyze separate and integrated reports for CICS and other sub-system activity (DB2, IMS, Adabas, MQ, etc) Map to Application Source Code Integrate into the CICS Explorer via plug-in

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Drive a threadsafe report from the CICS Interdependency Analyzer plug-in



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CICS IA: Threadsafe report in the plug-in.

Open Report and print

BM CICS Exp	plorer BETA - C:/EXPLORER51/.wo	rkspace										
Edit S	Search Project Window Help											
		ilter by ID:	 Filter by Region: 	- O	Collection ID:		a 🖉 🖉	✓ A ^Q ▼				
(🖙 Uses 🖹 Command Flow 📄 F	Report Browser 🖇	3									
ICS IA /OS	CICS INTERDEPENDE	NCY ANALY	ZER VERSION 5.1.	0								
CS Cloud	11-Oct-2012 14:58:12											
CS PA												
CICS IA>	Program Dynamic Analysis	- THREADSAF	E DETAIL LISTING FOR	RCICSTS								
CS DA	Definitions of Terms:							Back				
S SM	Thus a de afair a all							Forward				
	 'Threadsafe' calls 'Non-Threadsafe 							Save Background As				
	 'Non-Threadsafe' calls are EXEC CALLS commands that cause a TCB swap. 'Indeterminate Threadsafe' calls are EXEC CALLS commands where it cannot be determined if the calls are the second statement of the second statement o							Set as Background				
			e. Programs that are called dynamically take on t			Copy Background	ng program.					
	 'Threadsafe Inhibitor calls' are EXEC CICS commands that need to be investigated furth 							Select All		ng your program as thread		
	These commands	These commands are: ADDRESS CWA, EXTRACT EXIT, GETMAIN SHARED, and LOAD.										
								Create Shortcut				
	Report options							Add to Favorites				
	Collection ID *					View Source						
	Region IYU22518							Freeding				
	Program name * CICS TS level Region Details Yes							Encoding				
								Print				
								Print Preview				
	CICS IA collected CICS TS		Program's library dataset	Program's installed definition API attribute	Program s instal		Program's	Refresh Export to Microsoft Excel		release summary threadsafe CICS s		
	resources collection ID APPL		name	value	CONCURRENCY a	attribute value	storage code	Send page to Bluetooth Device	lata	is prepared for (3.2, 4.1, etc)	protect mode	
	INC36DATA IYDZZ518	GETMAIN4	CICSIAD.TEST.LOADLIB	CICSAPI	QUASIRENT	1	USER	Send page to blactooth bevice			INACTIVE	
	Total number of CICS calls	1		Threadsafe:		1		Properties		0		
	Indeterminate Threadsafe:	0		Total number of DB2 calls:		0		Total number of MQ calls:		0		
	Total number of IMS calls:	0		Total number of dynam	Total number of dynamic calls: 0			Total number of threadsafe inhibitor c		0		
	INC36DATA IYDZZ518	TST4CVDA	CICSIAD.TEST.LOADLIB	CICSAPI	QUASIRENT		USER	0680	5.1		INACTIVE	
	Total number of CICS calls	12		Threadsafe:		1		Non-threadsafe:		9		
	Indeterminate Threadsafe:	2		Total number of DB2 calls:		0		Total number of MQ calls:		9		
	Total number of IMS calls:	0		Total number of dynam	Total number of dynamic calls:			Total number of threadsafe inhibitor ca		0		
	INC36DATA IYDZZ518	TST4CVD1	CICSIAD.TEST.LOADLIB	CICSAPI	QUASIRENT		USER	0680 5	5.1		INACTIVE	
(i) IZ	ZE0100I Connected user JAMESE	to host winmvs2f	.hursley.ibm.com on port 4	0200					Θ	▼ winmvs2f:40200 - em	s te: 🗠 🥥	



CICS VSAM Transparency for z/OS V2.1

Modernize your CICS and batch VSAM data

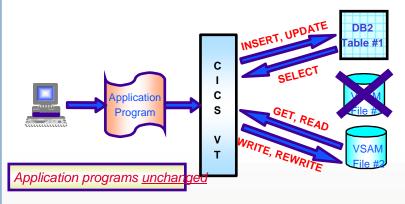
What's new in CICS VT V2.1...

- Auto-generate customized data migration JCL
- Enhanced IDCAMS REPRO support
- New migration tracking report
- Improved diagnostic facilities
- Support for CICS® Transaction Server V5.1 and DB2® 10
- Other functional enhancements
 - Long column name support
 - HLL support for user exits
 - RRS support in batch
 - Read-only DDM
 - Dynamic DST update
- New plug-in for CICS Explorer

CICS VT enables you to...

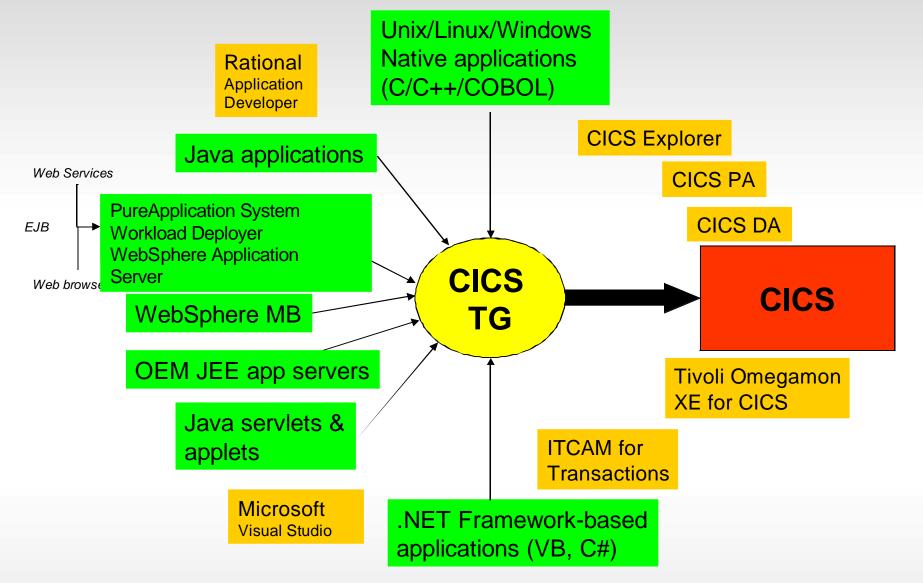
- Migrate VSAM files to DB2 without changing application programs
- Maintain single copy of the data
- CICS and batch programs access data in DB2 under the control of CICS VT
- Access migrated DB2 data natively using SQL





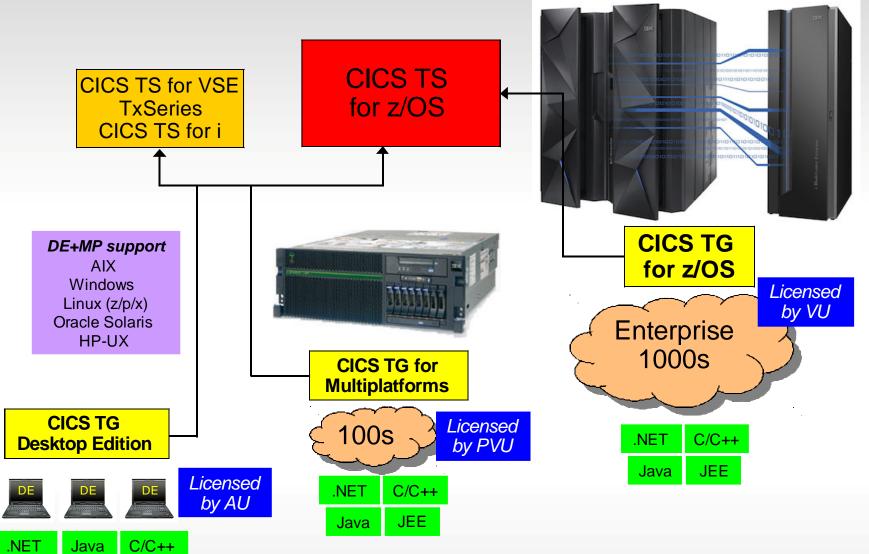


What is the CICS Transaction Gateway?



Product positioning



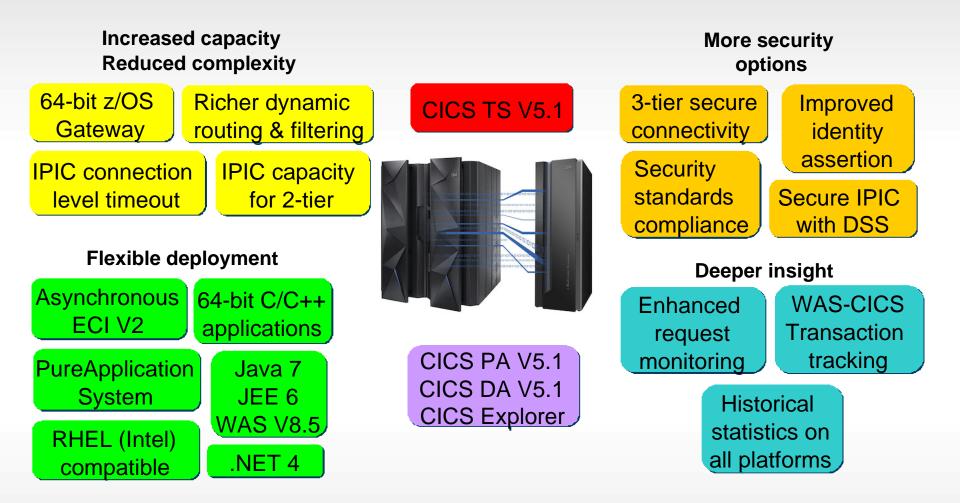






CICS Transaction Gateway V9.0

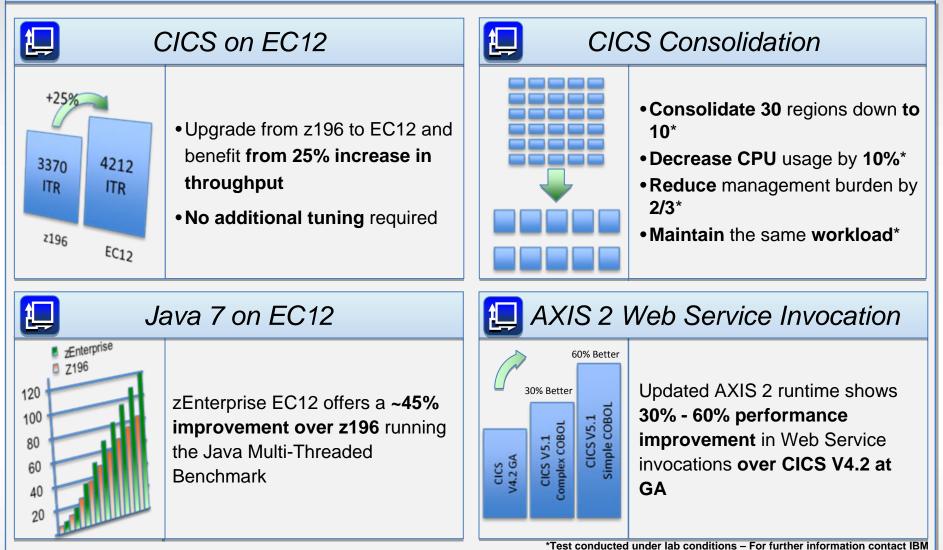
Extended scalability, application interoperability, and flexible secure topologies





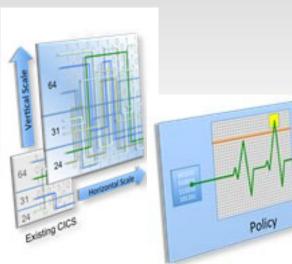


CICS TS V5.1 : Performance





Try it now



CICS Transaction Server V5.2 Open Beta





CICS TS V5.2 Open Beta Available now!

Delivers more dynamic, flexible CICS application deployment. Faster and more reliable CICS platform deployment. Policy-based management of CICS applications and platforms. Better vertical and horizontal scaling

64-bit addressing, thread safe, and higher maximum CICS tasks. More exploitation of industry standards,

XML, Java, and TCP/IP.

Includes more core transaction processing capability

email notifications, identity propagation, API, and enhanced events.

More comprehensive monitoring and statistics to improve operational metrics.





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-http://www-01.ibm.com/software/websphere/events/impact/registration.html

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CICS Developer Trial

CICS Developer Trial V5.1

Operational Efficiency and Service Agility with Cloud Enablement



- V5.2 Available in 2014
- No charge trial, fixed expiry date
- Does not start SVC period
- For non-production environments
- Available through IBM ShopzSeries
- PID 5655-Y30

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- (with restrictions)
 - Performance
 - Capacity
 - License

http://www-03.ibm.com/software/products/en/cics-ts-devtrial



Raising new requirements with RFE

- You can now raise and track requirements using the new IBM RFE system for
 - CICS Transaction Server
 - CICS Explorer
 - TXSeries
 - WXTR
 - IBM CICS Tools
 - CICS Transaction Gateway
 - PD Tools



- All previous FITS requirements have been processed, and either be transferred to RFE or closed and returned
- All brands <u>https://www.ibm.com/developerworks/rfe/</u> select Brand: WebSphere
- WebSphere only <u>https://www.ibm.com/developerworks/rfe/?BRAND_ID=181</u>
- Select Product Family: Transaction Processing for CICS Transaction Server, TXSeries, and WXTR
- Select Product Family: Enterprise Tooling for the CICS Tools, CICS Transaction Gateway, and PD Tools
- Raise CICS Explorer base requirements against the Explorer component of CICS TS.
- Raise plug-in requirements against the Explorer component of related product.



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CICS Explorer Forum

ibm.com/developerworks/forums/forum.jspa?forumID=1475&start=0

CICS-L list Forum listserv.uga.edu/archives/cics-l.html



Key documents

- Analyst papers
 - Lustratus Research New project platform section for CICS Users <u>ftp://public.dhe.ibm.com/software/htp/cics/pdf/Lustratus_Research_Paper_New_project_plat</u> <u>form_selection_for_CICS_users.pdf</u>
 - Branham Group: IBM CICS Tools: Unrealized Productivity Gains and True Cost Savings <u>ftp://public.dhe.ibm.com/software/htp/cics/tools/IBM_CICS_Tools_Whitepaper_2009.pdf</u>
 - Software Strategies: IBM z/OS Problem Determination Tool Suite Leads Again <u>https://www14.software.ibm.com/webapp/iwm/web/preLogin.do?lang=en_US&source=swg-rszswg</u>
- IBM Redbooks
 - CICS Transaction Server from Start to Finish, SG24-7952-00
 - Implementing IBM CICS JSON Web Services for Mobile Applications, SG24-8161-00
 - Smarter Banking with CICS Transaction Server, SG24-7815-00
 - Implementing Event Processing with CICS, SG24-7792
 - CICS and SOA: Architecture and Integration, SG24-5466-06
 - Implementation of Popular Business Solutions with CICS Tools, REDP-4824-00
 - Threadsafe considerations for CICS, SG24-6351-04
 - <u>Architects guide to CICS on System z</u>, SG24-8067-00
 - IBM CICS and the JVM server: Developing and Deploying Java Applications BG24-8038





CICS V5 addresses the challenges faced by enterprises of delivering operational efficiency and service agility

Achieved through introducing: cloud support and modernization along with enhancements to the base

Doing more for less with CICS V5

- delivering results more quickly
 - for a sound long-term investment