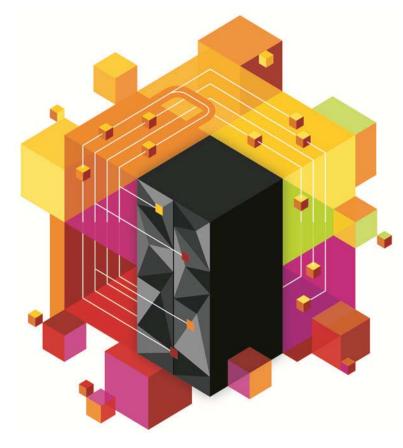


# **CICS V5** Scalability and Performance

Presenter –

Date:



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# Agenda

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

Core Foundations and Scalability items addressing:

– Greater Capacity

- Increased availability
- Deeper Insight
  - Foundation enhancements





### **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 r
   TCB switching and increase workload capacity



Run more, more easily pacity

#### 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

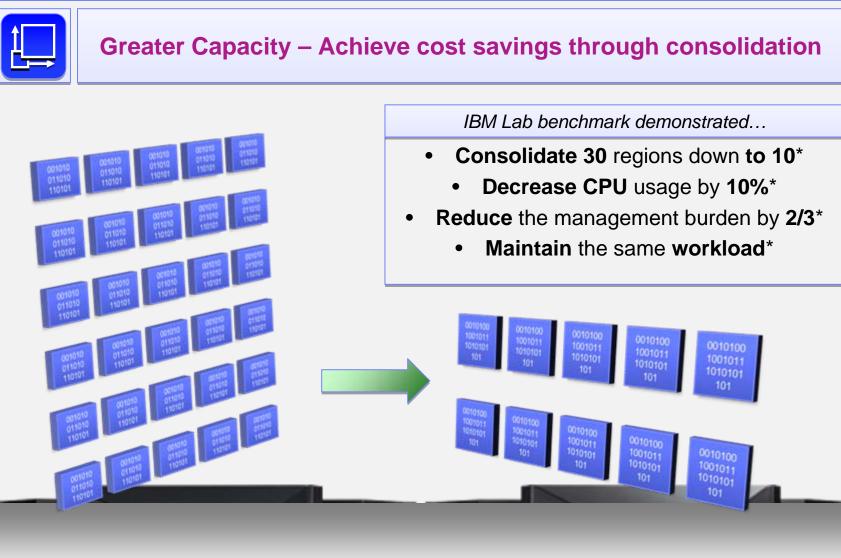
ETR	CICS %	MS/Tran	LPAR%	
249.98	54.19	2.167	21.63	
361.88	78.35	2.165	31.26	
474.86	101.42	2.135	39.74	
592.74	126.14	2.128	49.20	
729.98	155.06	2.124	59.98	

CTS 5.1

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







\*Test conducted under lab conditions - For further information contact IBM





### **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	







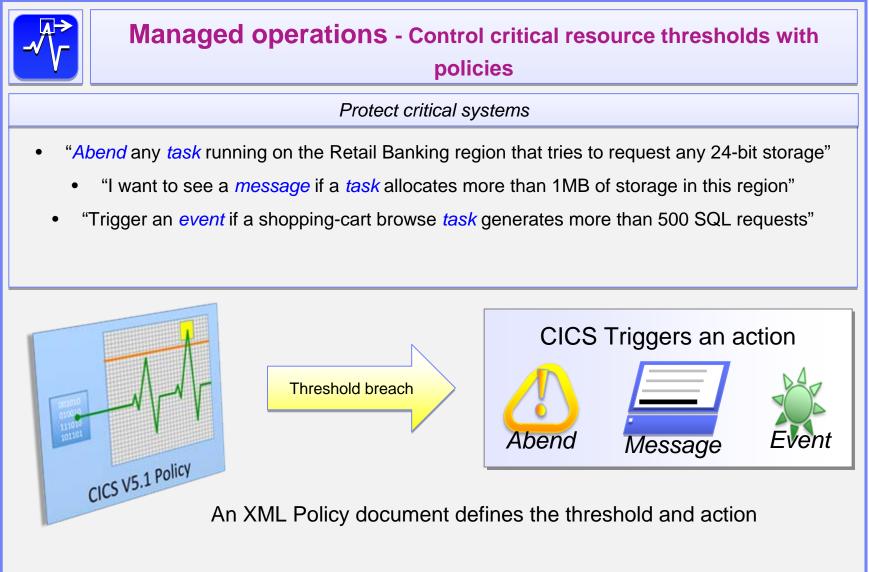
#### **Greater capacity - Achieve cost savings through consolidation**

CICS TS V5.1 Vertical Scale 64 31 24 64 Horizontal Scale 31 Existing CICS

Feature	Benefit
Doubled MAXTASK limit to 2000 and optimized storage area usage	Greater vertical scalability
Optimized TCB usage and greater threadsafe capability	Greater horizontal scalability
Support for the latest Java 7 standard	Greater throughput
Access to 64-bit storage from assembler programs	Application level access to big data













#### **Managed Operations** - Reduce cost and risk through automation

CICS V5.1 Policy

Feature	Benefit
New declarative policy	Define and manage SLAs
<ul> <li>Set policy thresholds on</li> <li>CPU usage</li> <li>Storage used and GETMAIN</li> <li>SQL or file access</li> <li>EXEC LINK</li> </ul>	Critical resource protection
Issue message, abend a task, or emit an event on policy breaches	Automatic response to undesired behavior

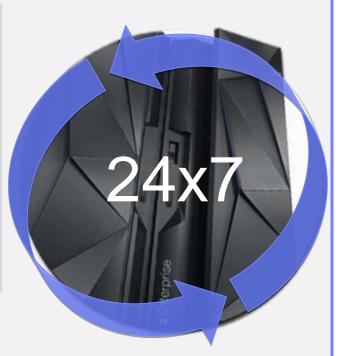






#### **Increased availability** - Reduce the need for planned downtime

Feature	Benefit
SVC dynamic update utility	Upgrade without z/OS IPL
SSL refresh	Update SSL without region restart
IPIC Heartbeat	Maintain IPIC connections during periods of inactivity
EXCI XCF group selection from URM	Full region availability from EXCI across XCF groups
Replication logging support	IBM GDPS/AA readiness
Improved default values	Best practices configurations









Feature	Benefit
Logging of system configuration changes via SPI	Auditable system configuration changes
Specify that a full ID verification occurs	Accurate data stored for audit
Extended identity propagation to include started tasks	Improved end-to-end security and auditability
SMF now stores SSL cypher suite and specialty engine usage data	Better understanding of system performance
Notification during lost lock recovery	Understand progress of lock recovery
Logging of system configuration changes via SPI	Auditable system configuration changes









Feature	Benefit
Enhanced CICS event support	One-to-many event emissions
WebSphere MQ Dynamic Program Link (DPL) bridge support message >32KB	No restrictions on MQ DPL message size
IPIC support for IMS	Improved integration and error recovery
GET and PUT container enhancements	Reduce application storage needs
Backup and restore capability for entire CICSPlex System Manager (CICSPlex SM) systems without manual overrides	Improved automation
Automatic daylight saving adjustments	No need to restart CICS regions

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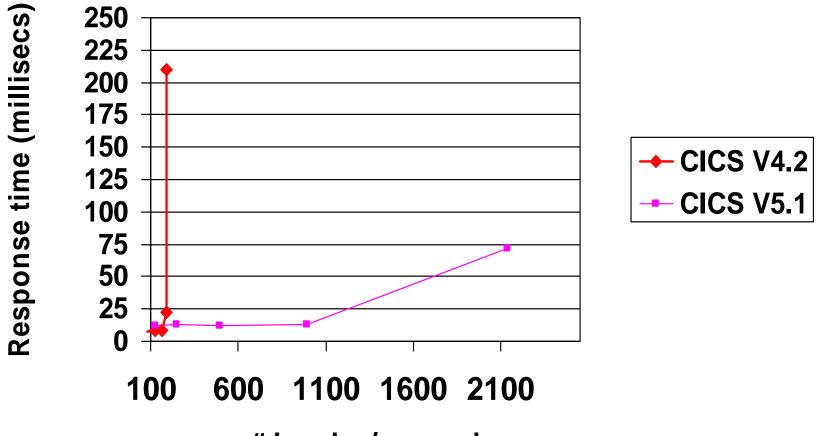




### **PROGRAM LOAD**

- 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





# Loads / second





### 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





### 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





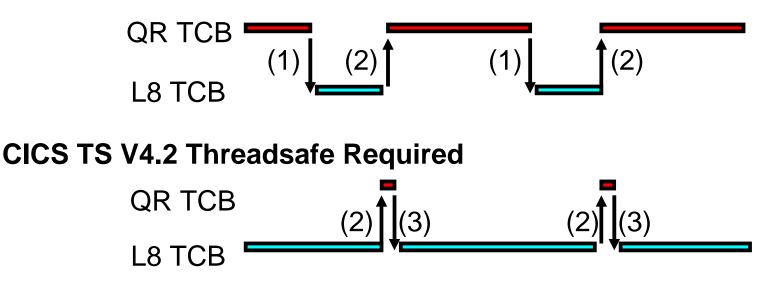
### **Platform and Application Performance insight**

<ul> <li>Summarize CICS performance data at application and transaction level</li> <li>Drill down into details such as CPU, Response time, Storage and TCB usage</li> <li>Data filtering to analyze specific transactions and operations <ul> <li>Statistics alerts</li> <li>Simplify analysis of large volumes of data</li> <li>Identify performance bottlenecks promptly</li> </ul> </li> <li>Drilldown to transaction or operation</li> <li>Drilldown to to transaction or operation</li> <li>Drilldown to t</li></ul>	Scenario	Session A - WINNVSZE - [32 x 80]
<ul> <li>Drill down into details such as CPU, Response time, Storage and TCB usage</li> <li>Data filtering to analyze specific transactions and operations <ul> <li>Statistics alerts</li> <li>Statistics alerts</li> <li>Simplify analysis of large volumes of data</li> <li>Identify performance bottlenecks promptly</li> </ul> </li> <li>Drilldown to ransaction or operation</li> <li>Drilldown to more reasonable to reperation</li> <li>Drillown to ransaction or operation</li> <li>Drillown to ransaction or operation</li> <li>Drillown to ransaction or operation</li> <li>Drillown to ransaction or operation</li> </ul>	·	and export application File Options Help
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Image: Control to the control to t	Simplify analysis of large volumes of data	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 C1 PA
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#### **CICS TS V4.1 Threadsafe CICSAPI**



**CICS TS V5.1 Threadsafe Required** 

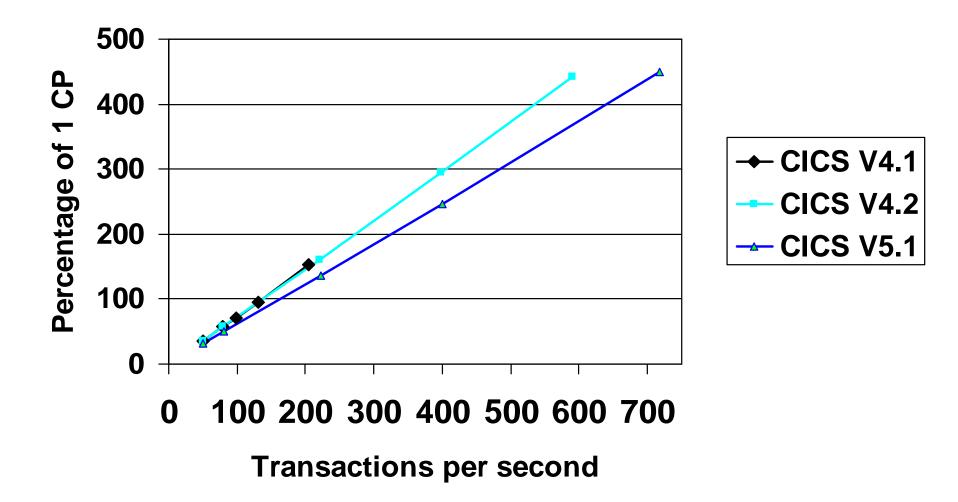
#### L8 TCB

- (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 - Threadsafe views**

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	2008-03-13	14:10:00	PDQHP20	HKFM	3	0.614500	0.703700	823	0.604500	824	0.087000	0.010000	824	0.005200
	2008-03-13	14:10:00	PDQWTC1	HKFM	3	0.615400	0.704500	1	0.001200	2	0.000900	0.614300	2	0.000200
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E B PDQPRT1	2008-03-13	14:10:00	BEERPLUM	JZ62	1	3.210600	3.210600	65	0.007000	66	0.006200	3.203600	66	0.000100
5 BQRQ (4)	2008-03-13	14:10:00	PDQDIR	JZ62	1	3.211200	3.211200	3	0.000900	4	0.000700	3.210300	4	0
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5 <sup>**</sup> SU95 (1)	2008-03-13	14:10:00	PDQHP20	MVNQ	8	0.082000	0.154800	63	0.065900	64	0.011200	0.016000	64	0.010200
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⊕ 튤 HELMLCK ⊕ 튤 MAIN001 ⊕ ☞ POQCICS ⊕ ഞ POQDBS ⊕ ഞ POQDIR ⊕ ☞ POQESTE ⊕ ☞ POQESTE ⊕ ☞ POQHOME	XPLR_C.csv (5)	8) (Change-TC 3	B mode delay	count averag				1.25	12 9961	ode delay coun	t average)			
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<ul> <li>● 텔 HELMLCK</li> <li>● 텔 MAIN001</li> <li>● 텔 POQCICS</li> <li>● 텔 POQDIS</li> <li>● 텔 POQDIR</li> <li>● 텔 POQESTE</li> <li>● 텔 POQHOME</li> <li>● 텔 POQHOME</li> <li>● 텔 POQHOME</li> </ul>	XPLR_C.csv (5)	8) (Change-TC 3	B mode delay	count averag				1.25			t average)			
<ul> <li>● 텔 HELMLCK</li> <li>● 텔 MAIN001</li> <li>● 텔 POQCICS</li> <li>● 텔 POQDIS</li> <li>● 텔 POQDIR</li> <li>● 텔 POQESTE</li> <li>● 텔 POQHOME</li> <li>● 텔 POQHP10</li> <li>● 텔 POQHP10</li> <li>● 텔 POQHP20</li> </ul>	XPLR_C.csv (5)	8) (Change-TC 3	38 mode delay	count averag				1.25						
⊕         ∰         HELMLCK           ⊕         ∰         MAIN001           ⊕         ∰         POQCICS           ⊕         ∰         POQDIR           ⊕         ∰         POQESTE           ⊕         ∰         POQHOME           ⊕         ∰         POQHP10           ⊕         ∰         POQHP20           ⊕         ∰         POQLISO	XPLR_C.csv (5)	8) (Change-TC 3	38 mode delay	count averag				1.25 - 1 - 1 - spucooesj		6605	10-0			
응 : 행 HELMLCK           응 : 행 PAQLICS           영 : 행 PAQDES           응 : 행 PAQESS           응 : 행 PAQESTE           응 : 행 PAQHOME           응 : 행 PAQHOME           응 : 행 PAQHOME           응 : 행 PAQHOME           응 : 행 PAQHP10           용 : 행 PAQHP20           용 : 행 PAQHP20           용 : ຫ PAQHP20           용 : ຫ PAQHP20           용 : ຫ PAQHATU	XPLR_C.csv (5)	8) (Change-TC 3 5878 2	38 mode delay	count averag				1.25			10-0	520	•	
응 (텔) HELMLOK 응 (텔) MAIN001 응 (텔) POQDICS 응 (텔) POQDIS 응 (텔) POQDIR 응 (텔) POQESTE 응 (텔) POQHP10 응 (텔) POQHP20 응 (텔) POQHP20 응 (텔) POQUATU 응 (텔) POQNATU 응 (텔) POQNATU	XPLR_C.csv (5)	8) (Change-TC 3 5878 2	:8 mode delay	count averag				1.25 - 1 - 1 - spucooesj		6605	10-0	520	4524	
응 행 HELMLCK           응 행 MAIN001           응 행 POQDICS           응 행 POQDIR           응 행 POQDIR           응 행 POQHTR           응 행 POQHTR           응 행 POQHTD           응 행 POQHTU           응 행 POQNATU           응 행 POQRTI           응 행 POQSICU	XPLR_C.csv (5)	8) (Change-TC 3 5878 2		count averag				1.25 - 1 (spuco 0.75 - 1 - 1 - 0.75 - 1 - 0.5		6605	10-0	520		
응 (텔) HELMLOK 응 (텔) MAIN001 응 (텔) POQDICS 응 (텔) POQDIS 응 (텔) POQDIR 응 (텔) POQESTE 응 (텔) POQHP10 응 (텔) POQHP20 응 (텔) POQHP20 응 (텔) POQUATU 응 (텔) POQNATU 응 (텔) POQNATU	XPLR_C.csv (5)	8) (Change-TC 3 5878 2		count averag				1.25 - 1 - 1 - spucooesj		6605	10-0	520	4524	2750
응 행 HELMLCK         응 행 MAIN001         응 행 POQDIS         응 행 POQDIR         응 행 POQDIR         응 행 POQHOME         응 행 POQHOTO         응 행 POQHOTO         응 행 POQNATU         응 행 POQSICU         응 행 POQSICU	XPLR_C.csv (5)	8) (Change-TC 3 5878 2		count average				1.25 - 1 (spuco 0.75 - 1 - 1 - 0.75 - 1 - 0.5		6605	10-0	520		
응 :       핵 HELMLCK         응 :       핵 PAQLICS         응 :       핵 PAQDES         응 :       핵 PAQESTE         응 :       핵 PAQHME         응 :       핵 PAQHME         응 :       핵 PAQHME         응 :       핵 PAQHME         응 :       핵 PAQHP10         응 :       핵 PAQHP20         응 :       핵 PAQHSTI         응 :       핵 PAQESTI         응 :       핵 PAQESTO         응 :       핵 PAQSISO         응 :       핵 PAQSISD         응 :       핵 PAQSISD	XPLR_C.csv (5)	8) (Change-TC 3 5878 2		count average				1.25 1 (sp 0.75 - 		6605	10-0	520		2760
응 그렇 HELMLCK         응 그렇 MAIN001         응 그렇 POQCICS         영 코 POQDIR         응 그렇 POQESTE         응 그렇 POQESTE         응 그렇 POQHPUS         응 그렇 POQNATU         응 그렇 POQUSCU         응 그렇 POQSTND         응 그렇 POQVARI	XPLR_C.csv (5)	8) (Change-TC 3 5878 2	823 G61					1.25 1 (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose)	12 9961	6605 590	5 5752 5	520 4945	3314	2760
응 행 HELMLCK         응 행 PAQCICS         응 행 PAQDBIS         응 행 PAQDBIS         응 행 PAQDBIS         응 행 PAQCISTE         응 행 PAQHPAD         응 행 PAQHATU         응 행 PAQSISO         응 행 PAQSISO         응 행 PAQSISO         응 행 PAQSISO         응 행 PAQSIND         응 ໜ PAQVARI         응 ໜ PAQVARI	XPLR_C.csv (5)	8) (Change-TC 3 5878 2	823 G61	ann the Count average	0-114 (1) 0V72 (1)	2 (2) 55 H		1.25 1 (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose)	12 9961	6605 590	5 5752 5	520 4945		2760
응 행 HELMLCK         응 행 MAIN001         응 행 POQDEIS         응 행 POQDIR         응 행 POQPIR         응 행 POQHOME         응 행 POQHOME         응 행 POQHP10         응 행 POQHP20         응 행 POQHR10         응 행 POQRT1         응 행 POQRT1         응 행 POQSICU         응 행 POQSICU         응 행 POQSIND         응 행 POQWARI         응 행 POQWARI         응 행 STROPY	XPLR_C.csv (5)	8) (Change-TC 3 5878 2	823 G61		6 (1) 184 ER( 0 V72 (1)	2 (2) MVNQ (8)		1.25 1 (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose)	12 9961	6605	5 5752 5	520 4945	3314 3314 OV46 (4) SRS (4)	2760
응 행 HELMLCK         응 행 PAQCICS         응 행 PAQDBIS         응 행 PAQDBIS         응 행 PAQDBIS         응 행 PAQCISTE         응 행 PAQHPAD         응 행 PAQHATU         응 행 PAQSISO         응 행 PAQSISO         응 행 PAQSISO         응 행 PAQSISO         응 행 PAQSIND         응 ໜ PAQVARI         응 ໜ PAQVARI	XPLR_C.csv (5)	8) (Change-TC 3 5878 2	823 G61		0-114 ER( 0V72 (1)	y 2 (2) MVNQ (8)		1.25 1 (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose) (spucose)	12 9961	6605 590	5 5752 5	520 4945	3314 3314 OV46 (4) SRS (4)	2760 178 OV 46 (1)





#### **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

Start D	Start ti	Applid	MVS ID	Version	Туре	Interval	Interval	Transaction	n class	Attaches	Times at Max ac	tive Purged	No long.	. Acce
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### **CICS Performance Analyzer for z/OS V5.1**

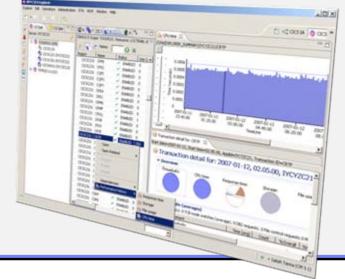
#### Performance insight

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...

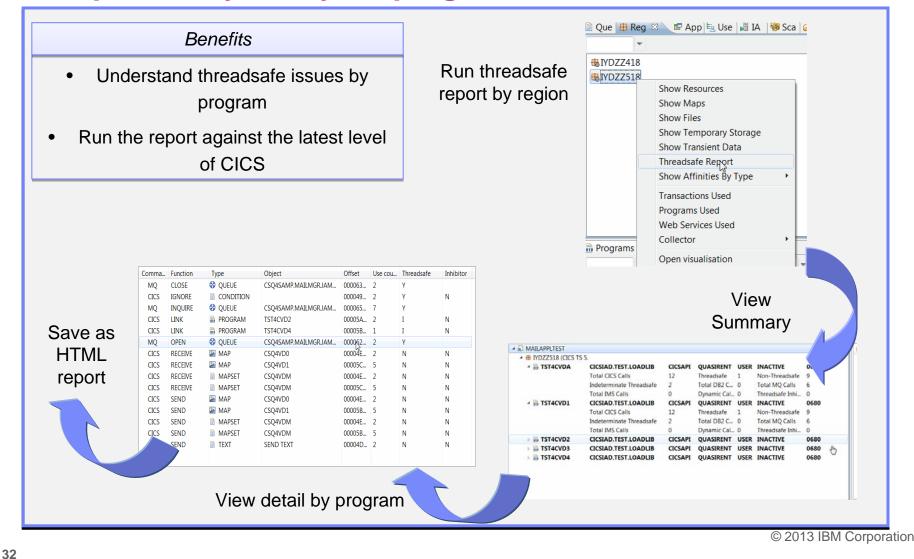
- Comprehensive Performance Reporting and Analysis for CICS including DB2, WebSphere MQ, and MVS System Logger
- Understand trends and develop capacity plans
  - · View statistics and create statistical alerts



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





### CICS IA: Threadsafe report in the plug-in.

#### Open Report and print

IBM CICS Exp	plorer BETA - C:/EXPLOF	RER51/.workspa	ce											
e Edit S	earch Project Windo	w Help												
	ind: Resource	<ul> <li>Filter b</li> </ul>		<ul> <li>Filter by Region:</li> </ul>	- 0	Collection ID:		🖉 🖉 🔊	• 🛷 •	•				
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CICS PA	Program Dynamic	Analysis - TH	READSAF	E DETAIL LISTING FOR	CICS TS									
CICS IA>		-							Back					
ICS DA ICS SM	Definitions of Terms:													
CS SIVI	, 'Threadea	fe' calls are		ALLS commands th	hat do not cause	a TCB swap			Forwa	ard				
	<ul> <li>'Threadsafe' calls are EXEC CALLS commands that do not cause a TCB swap.</li> <li>'Non-Threadsafe' calls are EXEC CALLS commands that cause a TCB swap.</li> </ul>									Save Background As				
					S commands where it cannot be determined if the c				Set as Background					
	<ul> <li>'Dynamic</li> </ul>	calls' are ca	alls to mo	odules at execution t	time. Programs tl	hat are called	dynamicall	y take on t	Сору	Background	ng i	ng program.		
				re EXEC CICS com					Selec			ng your program as threadsafe		
	These com	imands are:	ADDRE	SS CWA, EXTRAC	T EXIT, GETMA	IN SHARED, a	and LOAD.		Paste			5,5,1,5		
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	Region IYDZZ51	18							View	Source				
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	CICS IA collected resources collection ID	CICS TS region APPLID	Program name	Program's library dataset name	Program's installed definition API attribute value	Program's insta CONCURRENCY		Program's storage code	Export to Microsoft Excel		lata		storage ct mode	
	INC36DATA	IYDZZ518	GETMAIN4	CICSIAD.TEST.LOADLIB	CICSAPI			USER	Send page to Bluetooth Device			INACTIV	E	
	Total number of CICS cal	lls	1		Threadsafe:		1		Properties Total number of MQ calls:			0		
	Indeterminate Threadsaf	ie:	0		Total number of DB2 c	alls:	0					0		
	Total number of IMS calls	å:	0		Total number of dynam	nic calls:	0		Total number of threadsafe inhibitor ca			0		
									-			I		
	INC36DATA	IYDZZ518	TST4CVDA	CICSIAD.TEST.LOADLIB	CICSAPI	QUASIRENT		USER	0680		5.1	INACTIV	Ē	
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	Indeterminate Threadsaf		2		Total number of DB2 c		0			Total number of MQ calls:		9		
	Total number of IMS calls	\$]	0		Total number of dynam	nic calls:	0			Total number of threadsafe inhi	bitor calls:	0		
	INC36DATA	IYDZZ518	TST4CVD1	CICSIAD.TEST.LOADLIB	CICSAPI	QUASIRENT		USER	0680		5.1	INACTIV	E	
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			st winnivs21.		0200						1.0			
												© 2013 IBM Corp	or	

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### **CICS VSAM Transparency for z/OS V2.1**

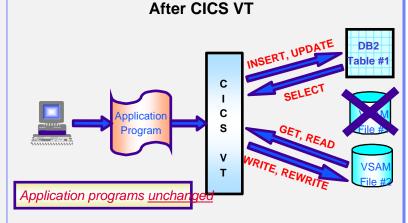
#### Modernize your CICS and batch VSAM data

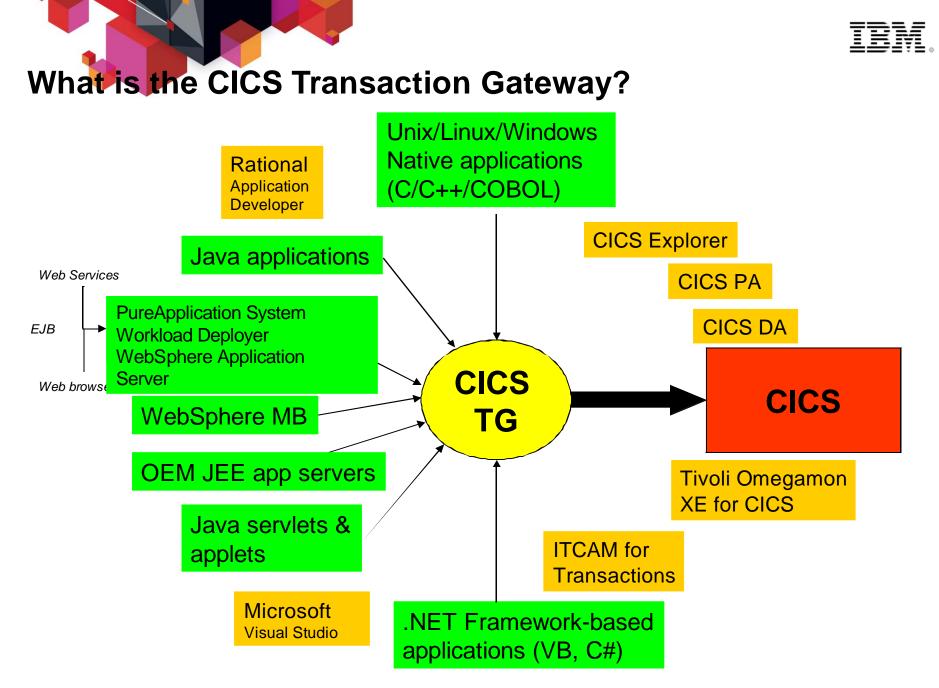
What's new in CICS VT V2.1...

- 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





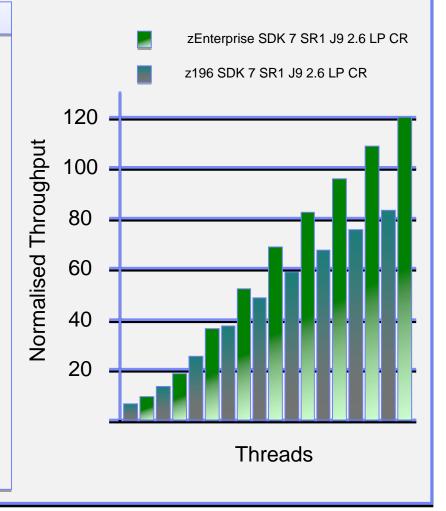


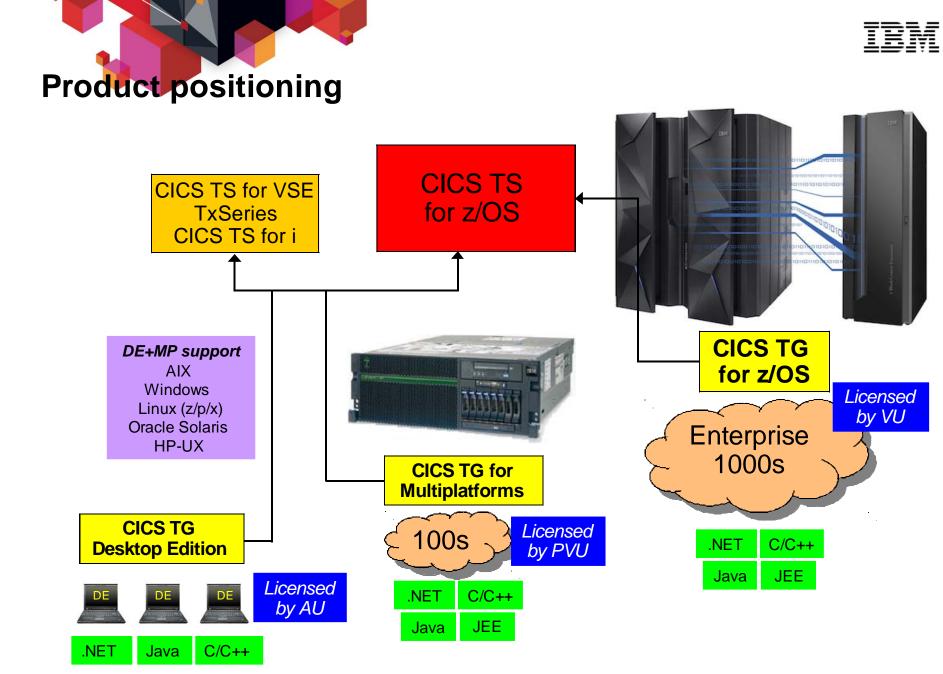




The latest JVM delivers a performance boost...

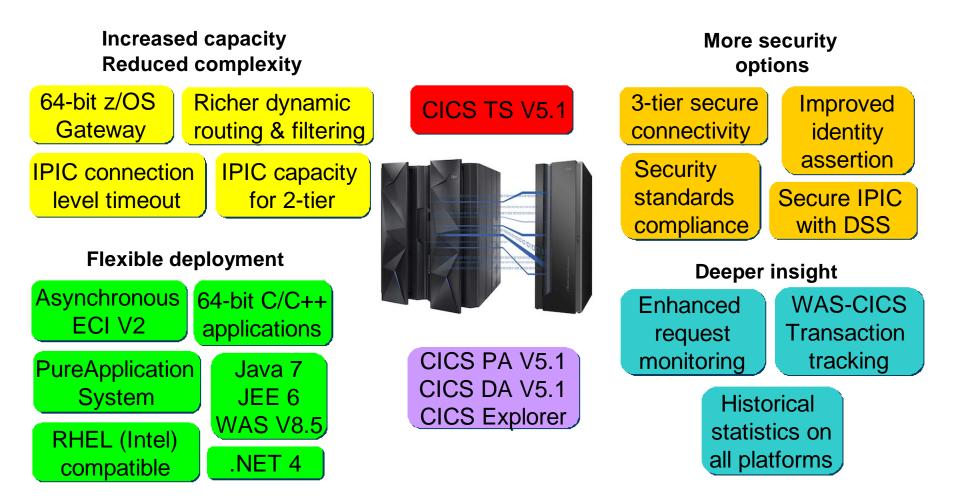
- zEnterprise EC12 offers a ~45% improvement over z196 running the Java Multi-Threaded Benchmark
- EC12 has additional instructions specifically for Java







Extended scalability, application interoperability, and flexible secure topologies







#### Find out more

Register for Impact 2013 **Total act 2013** -30 CICS related sessions in Motion. - 2 Labs -Meet CICS Technical specialists -Hear about the latest CICS V5.1 Portfolio release -http://www-01.ibm.com/software/websphere/events/impact/registration.html

#### **CICS Smart Seminars**

Arrange a customized CICS agenda at your location and hear about the CICS topics you want to hear about. Contact your local IBM representative or send an Email to <a href="mailto:cicssem@uk.ibm.com">cicssem@uk.ibm.com</a> or Fred Marschner <a href="mailto:marschne@us.ibm.com">marschne@us.ibm.com</a>



# **CICS** Developer Trial

#### CICS Developer Trial V5.1

Operational Efficiency and Service Agility with Cloud Enablement



- •Available from Jan 11<sup>th</sup> 2013
- No charge trial, fixed expiry date
- Does not start SVC period
- For non-production environments
- Available through IBM ShopzSeries
- PID 5655-CIC

#### Based on CICS TS V5.1

- (with restrictions)
  - Performance
  - Capacity
  - License

https://www.ibm.com/developerworks/connect/cicsdev





### 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 coming soon (target end Jan 2012)



- 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





#### 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\_p</u> <u>latform\_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-g-rszswg</u>
- IBM Redbooks
  - CICS Transaction Server from Start to Finish, SG24-7952-00
  - 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
  - <u>Threadsafe considerations for CICS</u>, SG24-6351-04
  - Architects guide to CICS on System z, SG24-8067-00
  - <u>CICS Transaction Server Application Architecture</u>, Redbooks solution guide





### Summary

Operational efficiency

and service agility -

Doing more for less

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