What's New With IBM z/OS Tools?

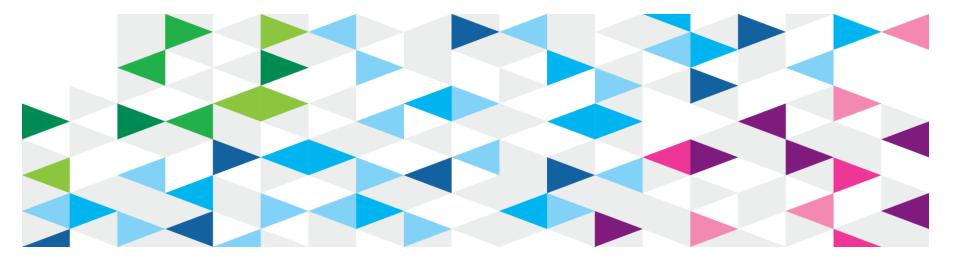


© 2014 IBM Corporation

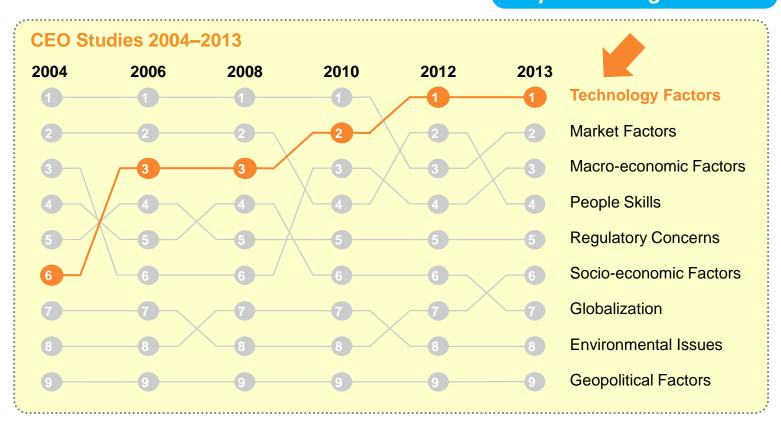
Agenda

- **Introduction** Context for the AIM z/OS Tools
- Value Why are customers buying IBM's z/OS Tools
- **Scenarios** How z/OS Tools help clients achieve business value
- **Next Step** How IBM can help
- Backup Product level details

Context for the AIM z/OS Tools



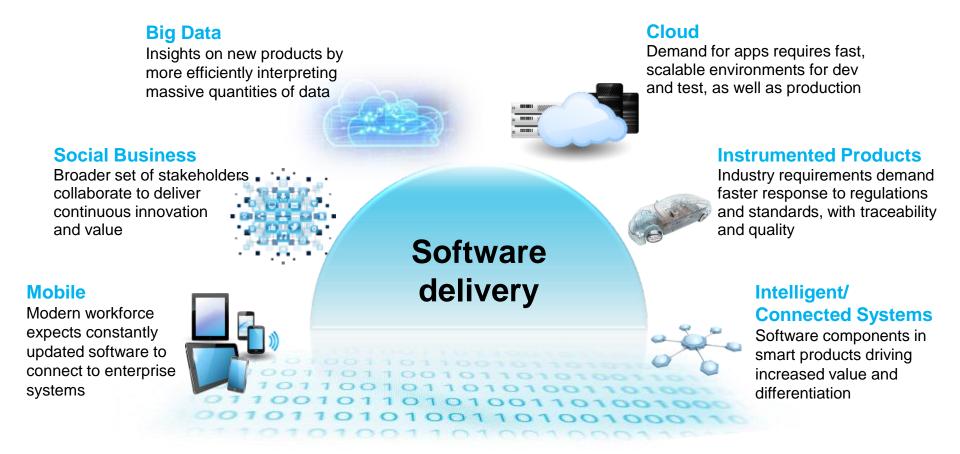
CEOs identify technology as the most important external force impacting their organizations



External forces that will impact the organization

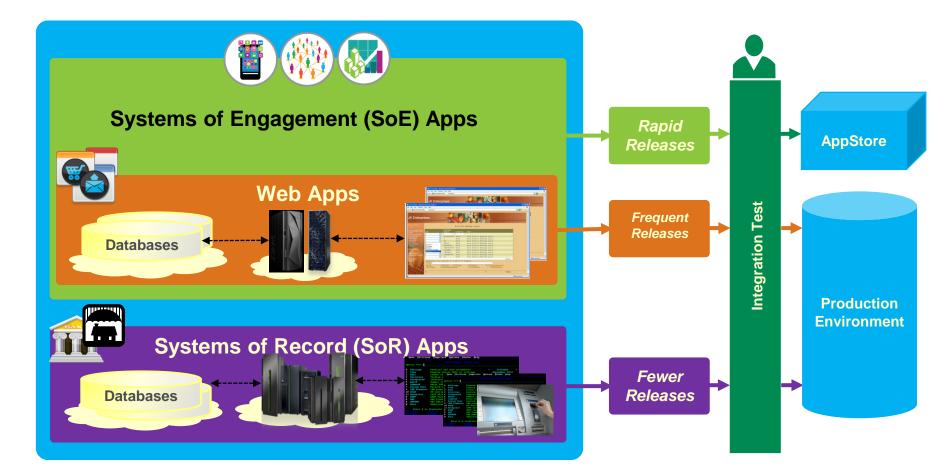
Source: IBM Institute for Business Value, The Global CEO Study 2013. Question: "What are the most important external forces that will impact your organization over the next 3 to 5 years?"

Software delivery is at the heart of today's top technology trends



Today's Systems landscape

Bringing together the people, processes, and tools across the entire software delivery lifecycle – spanning mobile to mainframe platforms



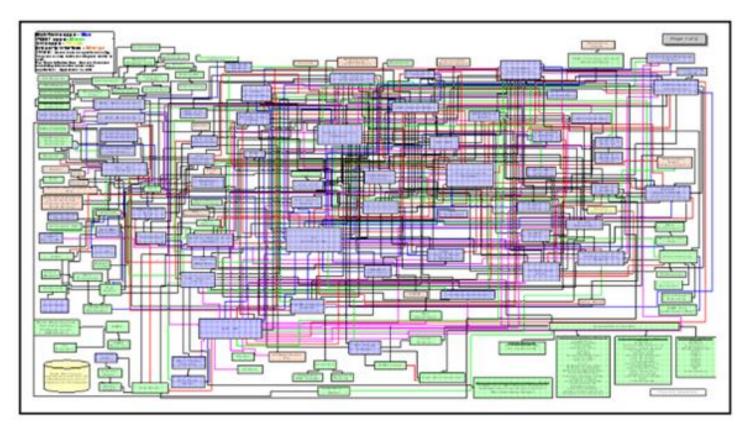
Systems of Engagement meet Systems of Record



Systems of Record can be complex systems built on decades of continuous & incremental development

Change?

Optimize?



Modernize?

Where do I start?



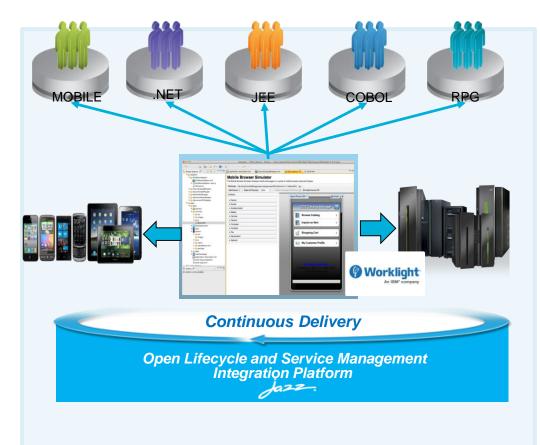
Why z/OS tools are more important than ever?

- According to IBM's The Global CEOs Study 2013, CEOs cited technology as the number-one factor they see impacting their companies ... in front of people skills, market factors and macroeconomic factors.
- Businesses who can establish software delivery as their core competency will be able to exploit the emerging technology trends.
- Going mobile? Vanson Bourne research firm reports 62% of 520 CIOs interviewed enabled back-end functions to support e-commence and mobile applications mature technology and tooling helps do this quickly and easily.
- Mainframe systems are typically complex built on decades of incremental development. The right tools are must to be Agile & Responsive, and support 24x7 operation with increased workload by new mobile applications



Leverage common tools to build enterprise applications

Integrated tooling to respond to mobile dynamics



IBM CICS Tools IBM Problem Determination Tools IBM Rational Developer for the Enterprise IBM Rational Team Concert IBM Worklight IBM z/OS Explorer IBM Enterprise COBOL, PL/I, C/C++

Enabling you to...

• Optimise applications, data, infrastructure, and processes

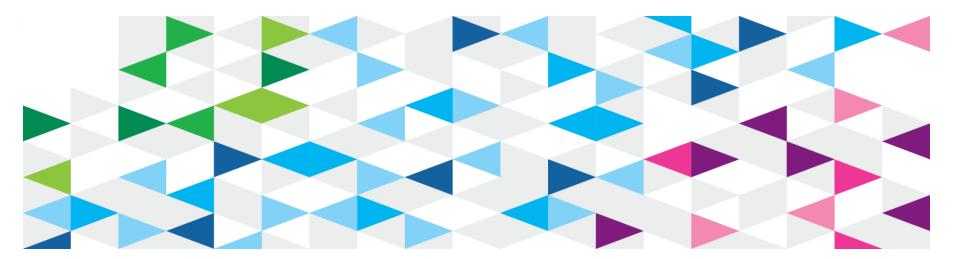
- Modernize applications, data, infrastructure, and processes
- Locate and diagnose problems and test and validate the solutions

IBM DevOps assists agile software delivery

Adopt a collaborative DevOps approach to seize market opportunities and reduce time to customer feedback



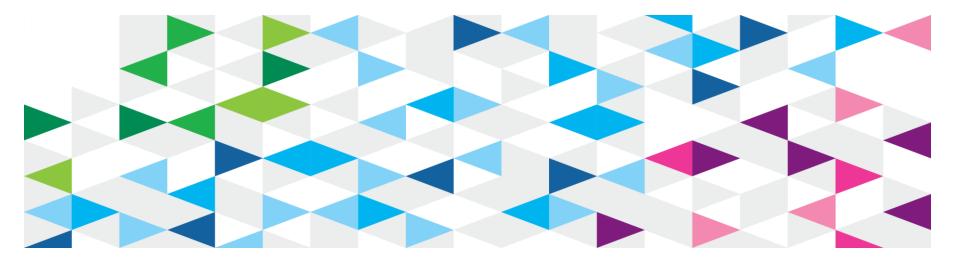
Why are customers buying IBM z/OS Tools?



AIM zTools: InfraAppData Optimization, Modernization, Diagnostics for Enterprise

	S	Application failure analysis	
tics	problem		As a Sysprog , Developer, Tester they
Diagnostics	Finding and fixing problems	Performance analysis for reduced resource consumption	help me to locate and diagnose problems and
Dia	Finding a	Problem replication and test	test and validate the solutions
		Discovery and decumentation of application and system topology and	
ize	ings	Discovery and documentation of application and system topology and relationships. Insight and understanding – faster and risk-reduced development. Mobile and distributed applications connectivity	As a Developer , Architect, LOB , they
Modernize	Doing new things	V2V upgrades and data modernization	help me to modernize my applications, data,
Σ	Do	Integrated tooling and DevOps	infrastructure, and processes
	_		
Ze	etter	Identification of potential improvements (thread-safe, workload management, consolidation, etc), performance trending, capacity planning	As a Sysprog - they help me to optimise my
Optimize	Doing things better	Configuration of applications Provisioning of subsystems (new and cloning)	applications, data, infrastructure, and
0	Doin	Data management (selective replication, validation, recovery)	processes

Scenarios



Why do you need AIM z/OS Tools?

Problems

- Market forces drive increased use and enhancements to SoRs
- Complex interrelated infrastructure, applications, and data
- Processes and infrastructure unsuited to continuous application delivery
- Specialised skill requirements to build and deploy applications

Key Solutions

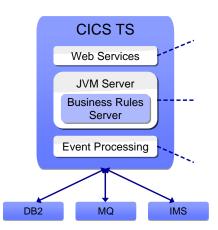
- Discovery and documentation of CICS applications and systems.
- Identification of service, mobile, and event-enablement candidates
- Connecting mobile, J2EE, and client-server applications to CICS
- Modelling, creating, and testing new data schemas across z/OS, VSAM, DB2, IMS, and MQ sub-systems
- Support for V2V upgrades
- Migrating VSAM data to DB2 without application change
- DevOps: Automation capabilities to assist in implementing DevOps
- Integrated tooling

Three steps to Service Agility

Modernize CICS-based systems of record







Step 1

Adopt a collaborative **DevOps** approach with **integrated tooling** to respond to new dynamics

Step 2

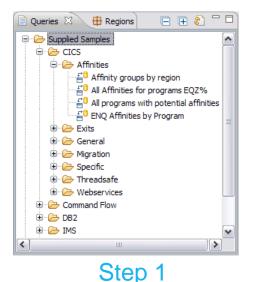
Mobile- and service-enable application assets to extend access to new channels Step 3

Event- and rule-enablement to deliver data analytics from dynamic applications

"The combination of CICS products helped streamline processes, increase productivity and reduce errors commonly introduced by change, and helped take advantage of new features of CICS release enhancements and adhere to ITIL requirements." Leading healthcare provider

Three steps to Data Modernization

Adding new data fields and converting EBCDIC data to UNICODE



Identify CICS programs & data

affected by this change

<u>≙</u>	B B & • °	Navigation		- 0	📑 📮 Current	2		Total 101		Edit type	VE
						-					
pthfmd2:2802 -	pthfmd2:2802		PERSONID	FIRSTNAME	SURNAME	PHONE		POSTCODE	COUNTRY		
Action Histo	ry	1	100	Roanna	Ryan	(581)	219-5666	45760	Colombia		-
CICS		2	101	Jocelyn	Clayton	(471)	342-2303	98900	Bolivia		
형 Data Sets		3	102	Alma	Massey	(761)	407-1773	96909	Italy		
92 D82		4	103	Emily	Ellis	(735)	824-8349	96010	Bermuda		
💱 Message Qu	eue Managers	5	104	Talon	Dickerson	(865)	152-0625	52311	Nepal		
UNIX System	n Services	6	105	Keelie	Weiss	(998)	495-3164	83644	Cuba		
pthfmd2:2802 -	pthfmd2:2802	7	106	Orlando	Larsen	(800)	753-0647	46120	Bhutan		
		1			- 11						
		Layout PEOPLE		• Te	mplate KEEPER.	PLUGIN. TEM	plateipe(•	Q 88 Q			
T Docustian (1	0.0	Formatted Mode					PLATE(PE(🔻	Q 8 2			
Properties 31		Formatted Mode	N PEOPLE.KS		up 😢 Host Conr						- (
	1 3 3 6 7	Formatted Mode	N PEOPLE.KS					101			-
		Formatted Mode	N PEOPLE.KS	DS II 3 Looi	up 😢 Host Conr						*
Property	ti ≥ ⊂ d' Value	Formatted Mode	NPEOPLE.KS	D5 11 3 Looi	ap 29 Host Conr	ections	Tota				*
Property Description	Value *	Formatted Mode	NPEOPLEXS Picture S999	DS II 3 Looi	up 🕑 Host Conr G Current 2 Start	ections Length	Tota Data 101	(101			
FM client version	Image: Second	Formatted Mode	NPEOPLEXS Picture S999	DS II 3 Looi P Type SD	up 🕑 Host Conr G Current 2 Start 1 4	ections Length 3	Tota	(101			
Property Description FM client version FM server version	Value * pthfmd2:280, * 02.01 =	Formatted Mode TE KEEPERPLUG Layout PEOPLS Field PERSONID FIRSTNAM	Picture S999 A(10)	DS II 3 Look C Type ZD AN	up 🕑 Host Conr G Current 2 Start 1 4	ections Length 3 10	Tota Data 101 Jocelyr Claytor	(101			*

Step 2	2
--------	---

Create masked test data in new format and initialize new fields to something sensible

Pro	cess Options	Help	p			
Edit		TSS1	2CUS DS:	TSS12.	ADLAB.CUS +	Rec 3
Comm	and ===>					Scroll <u>CSR</u>
Key	02202		_ Type	KSDS		Format <u>SNGL</u>
					Top Line is 1	of 15
Curr	ent 01: CUST-REC				L	.ength <u>331</u>
Ref		Тур	Start	Len	Data	
2	2 CUSTOMER-KEY					
		AN	1	5		
3	3 CUST-ID					
	X (5)	AN	1	5	02202	
4	2 NAME X(17)	AN	6	17	Major, Art	
5	2 ACCT-BALANCE					
	S9 (7) V99	PD	23	5	1234.56	
6	2 ORDERS-YTD					
	S9 (4)	BI	28	2	5	
7	2 ADDR X(20)	AN	30	20	1512 Pine Bluff	
8	2 CITY X(14)	AN	50	14	Harmon	
9	2 STATE					
	X (02)	AN	64	2	MN	
12	2 OCCUPATION					
	X (30)	AN	137	30	College student	
***	End of record	***				

Step 3

Copy the current production data to the new format , converting text data from EBCDIC to UNICODE and the initialized new fields

Major US manufacturer Purchased FM to copy data from EBCDIC to UTF8. This was a need for them and could not be fulfilled by the CA File Master product.

Why do you need AIM z/OS Tools?

Problems

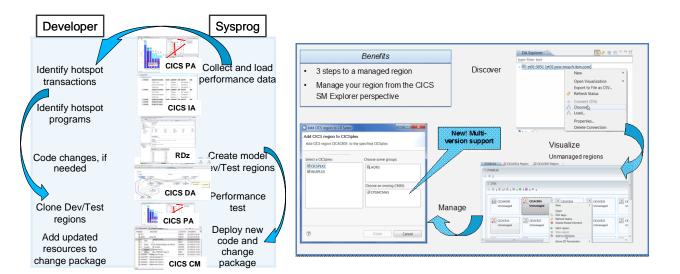
- Need for positive ROI for z/OS investment MIPS reduction, reuse of existing assets, competitive pricing
- Infrastructure unsuited to mobile workload dynamics performance, availability, recovery, etc
- Specialised skill requirements to optimize applications and systems

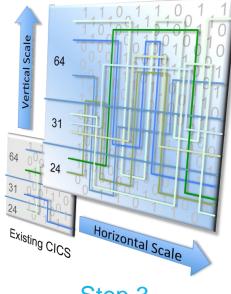
Key Solutions

- Threadsafe optimization, region consolidation, workload mgt, etc
- Performance reporting, accounting, SLA reporting, etc
- Capacity planning and trending of z/OS application performance to ensure SLA compliance
- Automated cloning of CICS regions
- Automated administration, auditing, standardization, and control of CICS configuration changes
- Identification of unused CICS programs and resources
- Consistent management of all z/OS, VSAM, DB2, IMS, and MQ data objects in development, test, and production
- Recovering VSAM files after failure in CICS and batch
- 20 Financial optimization opportunities

Three steps to CICS Operational Efficiency

Optimize applications, systems, and processes to achieve more with less





CICS TS V5.2

Step 1

Threadsafe analysis and implementation to reduce CPU utilization by up to 15%

Step 2

Workload Management to cope with mobile scalability and availability needs

Step 3

Region **Consolidation** to reduce management overhead and CPU utilization (up to 10%)



"Improved application performance by 10–20 percent

and reduced the cost of processing claims, positioning it to handle growing numbers of claims"

Modernizing the mainframe: Humana takes CICS to the next level

Webcast – September 24, 2014



http://www-01.ibm.com/software/os/systemz/webcast/24sep/

Highlights

Topics

Getting insight into the entire CICS environment with multi-role tools

Reducing skills required and effort to manage and optimize domain power-tools

Faster hand-over between roles with less rework using collaborative tools

Simplifying tasks for new and experienced users through integrated tools

Speakers

Eric Higgins, Certified IT Specialist, CICS Tools, IBM Software Group

Craig Whitaker, Technology Manager, Transaction & Service Oriented Infrastructure, Humana

Broadcast date: September 24, 2014, 11:00 a.m. EDT / 3:00 p.m. GMT / 4:00 p.m. BST Like many other industries, the landscape of healthcare insurance is changing dramatically with many uncertainties. Part of the challenge is to ensure that the infrastructure and applications that run the core business have the flexibility, durability, and elasticity to adapt to immediate demands, as well as to be strategic for the long-term.

Webcast

If your industry is experiencing similar pressures, join us for this complimentary webcast to learn how Humana is exploiting CICS® Tools and CICS Explorer® in its environment. These CICS solutions will support modernization and optimization activities around Humana's core applications to run the business for the foreseeable future.

Register online right now

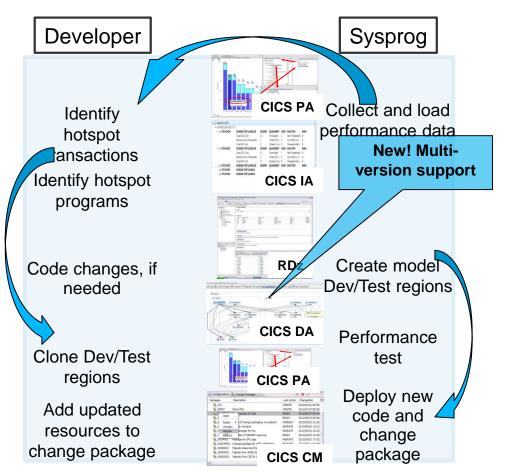
Register now for this webcast by logging onto **ibm.com**/software/systemz/webcast/24sep

Join us after the webcast for a live question-and-answer session. This webcast will also be available for replay after the event.

All rights reserved. Copyright © 2014 IBM Corporation.

Threadsafe Optimization

Threadsafe analysis and implementation to reduce CPU utilization by up to 15%





- Reduce CPU usage
- Defer capacity upgrades
- Improve response times
- Increase multi-processing
- Insight
- Analysis
- Change control

"By making only one major application threadsafe we were able to save 700 MIPS" Major US Bank

HUK-COBURG



One of the largest insurance companies in Germany. Insures more than 8.5 million clients.

Challenge

Reduce CPU usage in its IBM System z9® Enterprise Class mainframe to cut operating costs.

Solution

Implemented threadsafe following hands-on usage of the IBM CICS tools (Performance Analyzer, Interdependency Analyzer, and Configuration Manager).

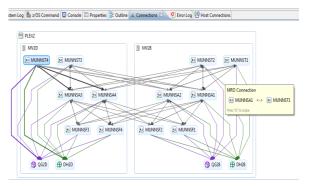
Benefit

We've embraced threadsafe functionality to help us cut our CPU usage by 550 MIPs, or about US \$440,000 in annual operating expense, which really proves the efficiency of IBM CICS technology."

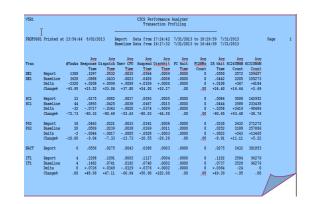
IBM Case Study

http://www-05.ibm.com/de/follow-z/pdf/Referenz-april-HUK-COBURG_EN.pdf

Availability workload management



🕄 Clone a CICS Reg	ion	
Clone a CICS re A It is recommende	gion d that applid and MAS name match	
New APPLID: New CICS Sysid: New MAS Name: New Description:	IVDZEJ09 EJ09 REDDVA43 Region cloned from REDDVA42 by CICS DA	
Specify the start po Data Set: Member Name:	licy for your new CICS region. USER/PROCLIB REDDVA43	Browse
?	< Back Next > Finish	Cancel





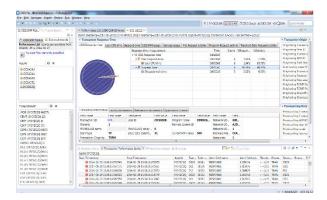


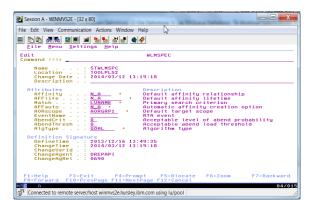


Understand the system & application's performance and topology

Extend the environment and **implement** workload management definitions Validate the results

Performance workload management





VSR1							rformance saction Pr						
PROPOOI] D1 Printed a	: 13:54:6	14 8/02/:				17:24:42 16:17:32						Page 1
Tran		#Tasks	Any	Aug	User CPU	Aug Suspend	<u>àvg</u> DiscWait	ANU FC Wait	AND FCANRO	ANU IR Wait	AUT SC24UEM	Avg SC310HWM	
			Time	Tine	Time	Time	Tine	Time	Count	Time	Count	Count	
DE1	Report	1308	.1097	.0532	.0032		.0009	.0000	0	.0550	2572	159457	
DE1	Baseline	3628	.0888	.0433	.0023	.0455	.0008	.0000	0	.0442	2205	155273	
	Delta	-2320	+.0208	+.0099	+.0008		+.0000	.0000	0	+.0108		+4184	
	Change®	-63.95	+23.52	+23.04	+37.80	+24.00	+10.27	.00	-80	+24.40	+16.64	+2.69	
SC1	Report	12	.0175	.0082	.0017	.0093	.0005	.0000	0	.0086	5008	142952	
SC1	Baseline	44	.0893	.0425	.0038	.0467	.0015	.0000	0	.0444	2588	233438	
	Delta	-32	0717	0343	0020	0374	0009	.0000	Ö	0358	+2419	-90486	
	Change®	-72.73	-80.33	-80.69	-53.63	-80.03	-64.50	.00	- 80	-80.65	+93.48	-38.76	
PS2	Report	18	.0463	.0221	.0033	.0241	.0008	.0000	0	.0230	2432	271272	
PS2	Baseline	20	.0509	.0239	.0038	.0269	.0011	.0000	0	.0252	2188	257806	
	Delta	-2	0046	0017	0005	0028	0003	.0000	0	0022	+243	+13465	
	Change®	-10.00	-9.04	-7.33	-13.73	-10.55	-26.20	.00	-00	-8.91	+11.11	+5.22	
HACT	Report	6	.0556	.0275	.0043	.0280	.0003	.0000	0	.0275	2432	301853	
IT1	Report	4	.2208	.1091	.0063	.1117	.0004	.0000	0	.1102	2504	96276	
IT1	Baseline	- 4	.1482	.0741	.0192	.0740	.0002	.0000	0	.0737	2528	96276	
	Delta	0	+.0726	+.0349	0129	+.0376	+.0002	.0000	0	+.0364	-24	0	
	Change®	.00	+48.99	+47.11	-66.94	+50.90	+102.00	.00	.00	+49.39	95	.00	





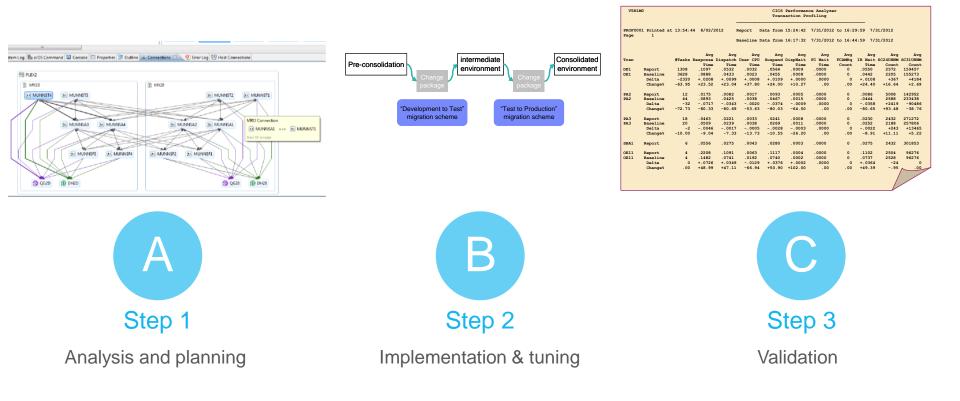


Understand current performance

Implement an adaptable workload management system Validate the results

Consolidation

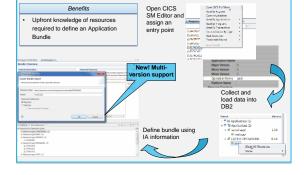
Region Consolidation to reduce CPU utilization (up to 10%) and management overhead

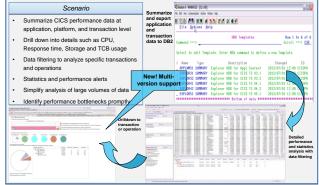


Three steps to CICS Cloud enablement

Support CICS cloud initiatives to simplify system management and rapid application deployment.







Step 1

Analysis and definition of CICS cloud **Applications**

Step 2 Plan and build CICS cloud Platforms Step 3

Deploy and manage CICS cloud Applications and Platforms

CICS PA gives CICS cloud Performance insight

	Scenario	Summarize	P Session A - WINMVS2E - [32 x 80]
•	Summarize CICS performance data at application, platform, and transaction level	and export application and	■ End and the second term of ter
•	Drill down into details such as CPU, Response time, Storage and TCB usage	transaction data to DB2	
•	Data filtering to analyze specific transactions and operations		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
•	Statistics and performance alerts	New! Multi-	EXPLOR31 SUMMARY Explorer HDB for CICS TS V3.1 2012/07/01 12:00 CICSPA EXPLOR32 SUMMARY Explorer HDB for CICS TS V3.2 2012/07/01 12:00 CICSPA OFTEXPLOR41 SUMMARY Explorer HDB for CICS TS V3.2 2012/07/01 12:00 CICSPA
•	Simplify analysis of large volumes of data		<u>EXPL</u> OR42 SUMMARY Explorer HDB for CICS TS V4.2 2012/07/01 12:00 CXC3PA <u>EXPLOR51 SUMMARY Explorer HDB for CICS TS V5.1</u> 2012/07/01 12:00 CICPA
	<complex-block></complex-block>		

Three steps to Financial optimization

Get more for your money

Step 1

Replace 3rd party products with IBM z/OS Tools Step 2

Save even more with IBM Solution Packs

Step 3

Move OpEx to CapEx with CICS TS VUE

Replace 3rd party products with IBM z/OS Tools

Affordable Pricing - generally 25+% less than ISV

- All Inclusive of Languages COBOL, PL/I, Assembler, C/C++
- All Inclusive of Subsystems CICS, IMS, DB2, MQ, WAS
- SMP/E Installed and Maintained reduces impact on Systems Staff
- Can be pre-installed as part of a z/OS upgrade reduces impact on System Staff
- No Software Keys reduces impact on Systems Staff / Supports Disaster Recovery Strategy for Testing / Implementation
- Includes both 3270 and Workstation Interfaces no additional charges, no additional licensing, no per seat limits

Save even more with IBM Solution Packs

CICS Optimization Solution Pack for z/OS V5.2 (Just refreshed)

Quickly optimize performance and availability of CICS systems and applications with CICS Interdependency Analyzer, CICS Deployment Assistant, CICS Performance Analyzer, CICS Configuration Manager

CICS Modernization Solution Pack for z/OS V5.2 (Just refreshed)

Understand deployed CICS application and system resources, connect from non-mainframe devices, and create CICS infrastructure to support the increased workload with CICS Interdependency Analyzer, CICS Deployment Assistant, CICS Transaction Gateway for z/OS

Upgrade from standalone products using trade-ups

IBM Problem Determination Solution Pack for z/OS V1.1 (4Q refresh)

Cost effective problem analysis for z/OS subsystems and languages with both GUI & 3270

interface with File Manager, Fault Analyzer, Debug Tool for z/OS, Workload Simulator, Hour Glass, Data Set Commander

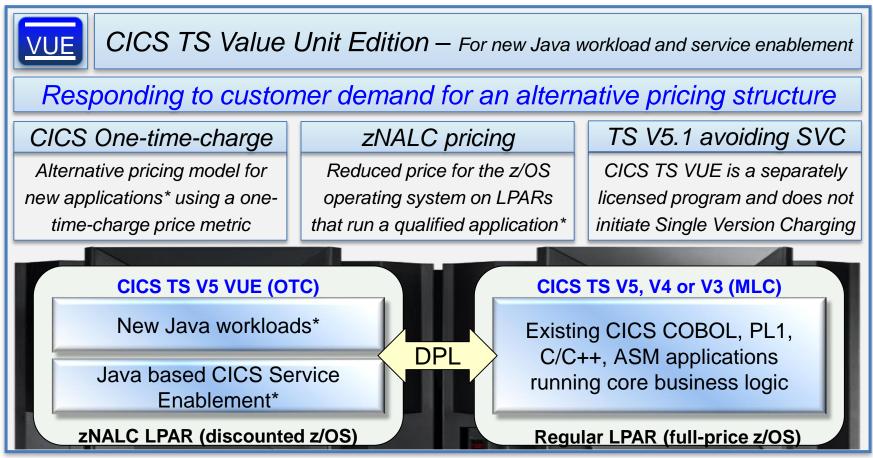
IBM Problem Determination Testing Solution Pack for z/OS V1.1 (4Q refresh)

Reduce testing time, improve application reliability and user diagnosis capabilities, and improving user's ability to regulate and monitor testing activities with Debug Tool, Workload Simulator, Hour Glass

IBM Problem Determination Modernization Solution Pack for z/OS V1.1

Address your problem analysis needs and provides tools that decrease development time, improve performance and reliability and reduce diagnosis time with Application Performance Analyzer, Debug Tool, Fault Analyzer, File Manager © 2014 IBM Corporation

Move OpEx to CapEx with CICS TS VUE



* zNALC approval is required for each application

Why do you need AIM z/OS Tools?

Problems

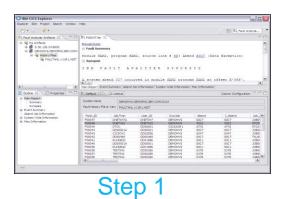
- Slow problem resolution extends downtime
- High resource consumption by z/OS applications.
- Problem replication ? What's this?
- No automated test script generation

Key Solutions

- Automated fault analysis, accelerated problem determination, and builtin fix advice
- Application program debugging across mixed languages and subsystems
- Early identification and validation of performance issues
- Identify resource bottlenecks to improve application and sub-system performance
- Test data creation and manipulation
- Driving, measuring, and comparing performance and other test workloads
- DevOps: Analysis result of production systems can be used by
- ³⁵ developers directly

Three steps to Problem Diagnosis

Faster problem identification and resolution



Automated fault and performance alerts with diagnostic advice

e Edit Navigate Search Project Run Window Help		
3•301 0•0•0•0 •1 4 1 04 •100 ==⊨ 410 -0+00•		📑 🖳 Fault Analy
Endug 12 (# Servers) (10 🖉 🖉 🖉 👘 🖓 + 5, 10 (# 11 (1) (# + 11 10)	O He Variables the Desemporets () 37 Degetors D Nor	etors 😩 Modules 🔅 😳
2 ΦΗΤ [Branch Complet Application] 2 ΦΗΤ [Branch Complet Application] 3 Φ = Branch Complete 3 Φ = Branch (Branch Branch Branch Line 2:22) 5 Φ = Branch (Branch Branch Branc	Ø / Statement (ADTOCLS ADLARS PROCEEDUCGAN Ø Statement (ADTOCLS ADLARS PROCEEDUCGAN Ø Statement (ADTOCLS ADLARS PROCEEDUCGAN Ø Statement (ADTOCLS ADLARS PROCEEDUCGAN Ø)	응 월 왕 은 또 [전 10 10 16 1 제2:366] 제2:366]
INSMALE @ ADTOXES.ADLAILSYSCEEDUC(SMQ).cob II		Bi Outline 11
The Control Research of t	A	PROCEEDER OFFICIERES ENTERTIERES OFFICIERES ENDERGY ENTERTIERES FORCESEE FORCESEE FORCESEE SOO BRE SEATURES SOO BRE SEATURES
P Console II & Tatis C. Problems G Debug Console () Memory oceas: \$190(13544 Program: \$441		

Step 2

Drill-down into problems with analysis tools

Type here to search t	i 😑 🖶 🗣 🔻 🍸 he tree (Ctrl+F)	Navigation		- 0	👌 📮 Current	2		Total 101		Edit type	VIEV
pthfmd2:2802 -	othfmd2:2802		PERSONID	FIRSTNAME	SURNAME	PHONE		POSTCODE	COUNTRY		
Action Histo		1	100	Roanna	Ryan	(581)	219-5666	45760	Colombia		1
CICS		2	101	Jocelyn	Clayton	(471)	342-2303	98900	Bolivia		
Data Sets		3	102	Alma	Massey	(761)	407-1773	96909	Italy		
92 D82		4	103	Emily	Ellis	(735)	824-8349	96010	Bermuda		
💱 Message Qu	eue Managers	5	104	Talon	Dickerson	(865)	152-0625	52311	Nepal		
UNIX System	Services	6	105	Keelie	Weiss	(998)	495-3164	83644	Cuba		
pthfmd2:2802	pthfmd2:2802	7	106	Orlando	Larsen	(800)	753-0647	46120	Bhutan		
		<i>ϵ</i>			11						
	3 ≤ 2	Layout PEOPLE		2	Gurrent 2		Tot	al 101			
Property	Value *										
Description	pthfmd2:280.	Field	Picture	Type	Start	Length	Data				-
FM client version	02.01 =	PERSONID	\$999	ZD	1	3	101				Ξ
FM server version	02.01	FIRSTNAME		AN	4	10	Jocely				1
	pthfmd2	SURNAME	A(10)	AN	14	10	Clayto				
Host name			X(14)	AN	24	14	(471)	342-2303			۳
Host name IPV client version	01.01	PHONE									
Host name	01.01	View Mode Sin	ale Mode	 Insert Mode 	Insert						

E Systems Information 3 C KEEPER.PLUGIN.PEOPLE.KSDS #

Fix problem, for example, make a change in data source

Three steps to Performance Problem Elimination

Looking for Trouble?

ile Edit Navigate	Search Proj	ject Run W	indow Help							
t • m ns as i⊅ •	- 1 💁 - 1 🛷	- 1 (a) - 1 (b)			8 🗄 🗄 CICS SM 🛛	Le CICS P	A 👪 CICS	CM Qu	ick Access	
R 6 P	- Transacti	ion summary (137/137 rows)		Transactio	on IDI=C*		•) 🖒 🛸	- 13
(2) III -	Start Date:	2013-03-11.								
Detail for Transacti	Start D	Start time	Applid	Transa	Change-TCB	Chang	User Di	User DL.	User C	-
	2013-0	16.20.00	CICAC810	CSKP	0	0	9	0.0003	0.0003	=
Applid	2013-0	16.20.00	CICACB10	LGCF	0	0	3.3846	0.0003	0.0002	
	2013-0	16.20.00	CICACB10	LGPE	0	0	3.5735	0.0002	0.0001	
CICACB02 ^	2013-0		CICACB10	SSC1	0	0	6.9500	0.0008		
CICACB03 👻	2012.0	16 30.00	CICACDIO	CODI		•	0.0010	0.0010	0.0004	
CATA (CICA * CCVC (CICA * CCVW (CICA *			803, CICAC804, CICAC	810. Transactio	in ID 1= C4, Sub	set				
++CCVC (CICA		.001 5 5		810. Transactic	in ID 1= C, Sub			•	4	4
CCVC (CICA CCVW (CICA CESN (CICA CESN (CICA CEX2 (CICA) CEX2 (CICA)		.001 5 5		810. Transactic						•
++CCVC (CICA ++CCVW (CICA ++CESN (CICA ++CESN (CICA ++CESN (CICA) ++CESN (CICA) ++CESN (CICA) ++CESN (CICA) ++CCVC (CICA) ++CCVC (CICA) ++CCVW (CICA) ++CVW (CICA) ++CV				and transactic					• •	4
++ CCVC (CICA ++ CCVW (CICA ++ CESN (C	Time (accords)	001 5 5		ano l'ransactic		set			- -	4
		001 5 5		en e		set				4
+ CCVC (CICA + CCVW (CICA + CESN (CICA + CESN (CICA + CED2 (CICA ↓ CICA + Transaction surr ↓ \$2013.03.11	0 Ilime (seconds)			allo. Iransactic		set				4
← CCVC (CICA ← CCVW (CICA ← CCSN (CICA ← CCSN (CICA ← CCS2 (CICA ← ← CCA2 (CICA ← ← ←	Time (accords)						4 4 1 1	4 4 SP4 (480,	4	4
++ CCVC (CICA ++ CCVW (CICA ++ CCVW (CICA ++ CEVA (CICA ++ CEVA (CICA ++ CEVA (CICA ++ CVW (CIC	0 Ilime (seconds)						4 4 9 (39) 3 (4 2 (39) 3 (4 2 (39) 3 (4)	8 ^{P4} (48)1		4 4
++CCVC (CICA ++CCVV (CICA ++CENV (CICA ++CENZ							4 4	4 4 814 (59) 1 10000 00	4 38/7 SSB rdered by 0	€ 4 5 (24 han

Step 1

Identify CICS transaction needing response time improvement

D ADATUS					60
Pile Mindae PAB					67.67
0 =					
C In the other other (at \$1.476)					# 2 4 DM # 0.5
Beglan V Doeal Br	Concentration	Data Terrer Claim Three	bergins Dates		
2014 1045	Contrast.	ADP Social Cold	Law Street		
· 244 HOORS	(Ref-up)	36/87071 Sept110.1*	5.000 USS		
# \$47 HHOMAI	1947-025	JALWEST REPORT	5.55 (65		
- 3MS HIGHNO	vite/fue?3	Statute august strong	33,303 648		
+ 355 HICHOR	19-015-21	CSC% mgr31.09.13	\$5,000 Putch		
- 165 HIDOD	v9-or8-97 v2-or8-97	005 apli@0 005 art1@0	REAR MAR		
 3048 HILDIGH2 3048 HILDIGH2 	vholi-3	COS Agriges COS Agriges	NUMBER OF BRIDE		
E non date	CALIF. SCHOOL # PEAK	1810 00100	L Bided		
a late subject	chathal	CIC% April M.H	ALLOW TAXA		
a 2024 MeDring	vinorial	CEC% (mm/st 00.00)	NAME INCOME.		
- 2129 RIDGNI	19-029-12	CIC% mp-11.08.08	NUM HAR		
a 304 month	1948512	G2% mp.ft.0546	#1.000 Hub.3t		
3401 1046	XHUNDERSTRUCT	LEASE Hug-21.07.45	1 Styled		
Intel (Test Black to (B	11 10	· D BOW Oliver to Labor - Division	BOD DUARS STRANG CONSTRAIN	Prov DECTRONAL PROPERTY IN THE CONSIDERED	E the Assessment Profile (Denigging) 17
	400				AN / D / F / K &
w 3-Stateka,Stange	1. 1. 2.				CAL THE SHAR
10 3 -Statelou, Stange 201 - Name anest Horke		SEL: Heastertant Profile (2044)(LEASE)			
342 - 1 ME PROVING HOME OF					
STL Last makin Corner		100000 (2000) 2000 (2000)			
204 - 103 Sunney		overall any Activity 100.00	Manager Manager	C12 C11 C11	
SES - Mamaru Unape Tend		CPU ACTION AD 1.80		SE SH SE	
104 - Datie Spectr Chape 7	wite .	1412Y 2,083 62.47 Towerd 201 1.9			
SET-TOP Services Survey	**	Surrent 215 3.9			
121 - Pricinger USAND	means t	A STATE OF A			
in C-OPUSNee house	account.	CPU than Distribution		till old all.	
COS - CPU Lange by Cate				a tare was mon	
COG - CPU Usage Dr Math	1000				
015 - Churimage by Doller	See .				
CDH - CPU Unge Treding					
CO5 - CRUILloops Task/Cur	eller a	340, 0.2 Call 8 0.0			
COL - CPU Longs Task Mile COL - CPU Longs for Proce	Life .	and the second se			
COV - CRU Lange by Proce		Bust Chi Active Mukiles	ALCONTRACTOR NO.	(85)	
COL - CPUTTINGS TO PERT	No. of Concession, Name	reasons at 11.2			
IN IN -CRY (ME MILLION		14000 5.2 74000 5.2	2		
- f-dttreeuwnet		TOABATI A S.C.	÷		
THE - DECOMMENSATION	efe.	1.00000000 14 0408			
FE1-182303. 420-by Ten		Hest CPU Active CSECTS		Assorts/	
PE2-062503-6054y3x1 PE4-062502-6054y3x1	50		At 199.05	692	
FET DECKLAPINERS	area a	INCOME IN TRACTLA	13-23		
PDA DECKD Unterent	10-10-10-1		114444		
TET - DEUTSTA ADAD TONE O	CORNEL INC.		8.2N *		
492-26213, Hat free 5	Noterant .	25adunits in 35addreft	2 2.35 *		
PER-DECKS. And file 2	1994	and the second se			
128-18238-0N/WETH	w bu bern	CPV Modes	PARTICIPATION AND A DESCRIPTION OF ADDRESS O	(88)	
F11-162302 (PASH)	a lo 191				
P12-BEESD, DRAMARY P13-96250, Threads An	e av man				
TATINGS, TRACK		16 MC 67 61 61.5 8905 28 1 1.2			
A					
* Lange and Line		X ANDEC 11 72 16.77			
Stoppers II		A selec as 0 0.00 Usar Ney 1 5.00 Full Pythan Key 16 95.00			
Dates 1 take					
1004		And the second second			1
		1			



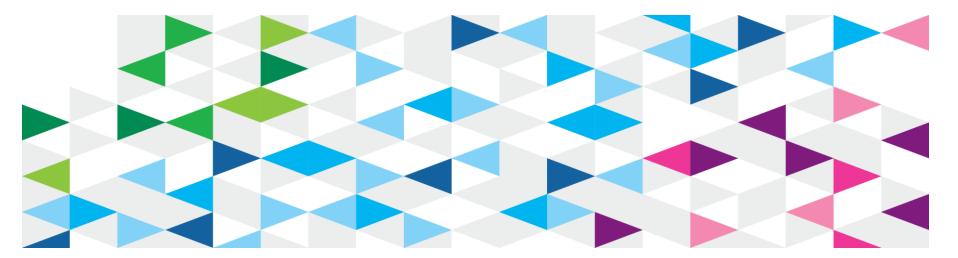
Understand transaction's resource consumption at much deeper level

◈ ⊞ ⊟ ⑦		 Tese car 	se overview
	Open New Test Case Edit STL	Test case info Name: Description:	CASE
 ▷ ➢ Sched ▷ ➢ Repor ▷ ➢ TEST1 ▷ ➢ TEST2 	Notes Translate UTBL View Delete	Other inform Type: Notes flag: UTL8 counts	CPIC
Outline 🛿			

Step 3

Test changes and measure results to ensure success

Next Step: How IBM can help



Resources

Web pages updated for V5.2 and V13 – translated versions available http://ibm.com/cics/tools

http://ibm.com/software/awdtools/deployment

Updated datasheets on web pages

Announcement letters – CICS TS V5.2 link, CICS Tools V5.2 link, CICS TG V9.1 link, PD Tools V13 link

Launch presentations and replays – <u>CICS community</u> – <u>CICS V5.2 launch wiki page</u>

Analyst reports

IBM CICS Tools: Discovery and Optimization for the Next Generation link

IBM PD Tools – leads the pack again link

Threadsafety & Consolidation - extracting optimum performance from CICS Prezi YouTube

Social media

Catch up with CICS on Facebook at <u>CICS Hursley</u> or <u>WebSphere and CICS Support</u> Watch videos on YouTube - <u>CICS and CICS Tools</u> and <u>IBM System z PD Tools</u> View presentations on <u>Slideshare</u> Follow IBM_CICS on Twitter <u>http://www.ibm.com/support/docview.wss?uid=swg21384915</u> See multiple channels by using the CICS Social Media Aggregator.

Subscribe to

CICSbuzz for the latest z/OS Tools news<u>http://www-01.ibm.com/software/htp/cics/enews/</u> Debug Tool newsletter <u>http://www-01.ibm.com/support/docview.wss?uid=swg21422089</u>

CICS related technical services

CDS01/CDS10 CICS Health Check

A best practice review to ensure that your CICS environment is functioning optimally. We check CICS configuration parameters and values and provide a report recommending performance improvements.

CDS02 Upgrade Assistance

We will efficiently update your CICS environment to the latest version to exploit new features such as: Mobile, Web services, IP connectivity, SAML Security tokens, CICS Explorer[®], Event processing, Web 2.0 and Atom feeds, PHP scripting in CICS.

CDS03 Security + Governance

Helps to ensure the security and compliance of your CICS assets. In addition to general security consulting, this service provides you with a security and vulnerability Risk Assessment of your CICS environment.

CDS04 Performance Optimization

Get the most out of your environment as improved performance lowers cost. We review CICS performance data from SMF I or CICS tooling. We provide tuning recommendations, capa planning, and scalability guidelines.

CDS05 Customized Workshops

We provide Architecture, Design, and Integration Workshops, Proof of concepts, either onsite at your location or at IBM[®] Hursley.

CDS06 Web services

Unlock and reuse your CICS business assets in the connected world of SOA. We provide education on CICS web services support including Rational[®] Developer for z tooling. We help you to identify assets for reuse and assist you with implementing Web services in your environment.

CDS07 Integration + Connectivity

Connect to and exploit your CICS assets. We provide CICS Transaction Gateway installation and configuration, WebSphere Application Server configuration, and sample programs to drive CICS from WebSphere Application Server.

CDS08 Systems Management

Use this service to optimize the manageability of your CICS environment with CICS Explorer and CICSPlex[®] SM with the goal to reduce costs and improve availability.

CDS09 Event Processing

Use this service to integrate your CICS environment into an Event Processing framework to allow you to respond quicker to business opportunities and threats – without changing your existing CICS application.

ibm.com/cics/services

Problem Determination Tools services

IBM provides the following services for the Problem Determination tools, enabling clients to successfully deploy the Problem Determination tools and give their staff the skills they need to get the most from the tools:

Installation and Customization Assistance

3rd party tool migration - FileAid/MVS to File Manager, Hiperstation to Workload Simulator

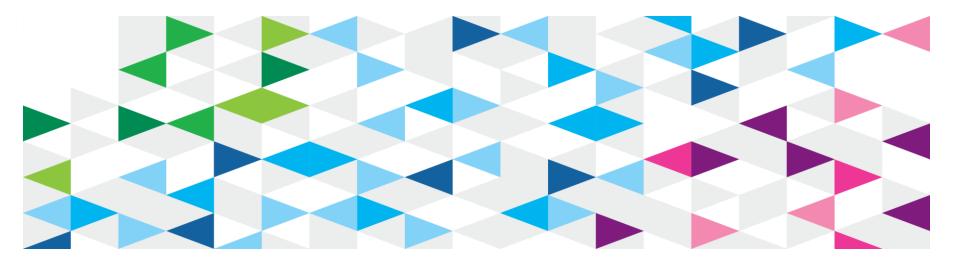
Training - Application Performance Analyzer, Debug Tool Basic & Advanced, Fault Analyzer, File Manager Base (Basic & Advanced), File Manager DB2, File Manager IMS, Workload Simulator, Hourglass

Each class is four (4) hours in duration, except for Workload Simulator, which is eight (8) hours and Hourglass, which is two (2) hours.

On-site or webcast (remote) workshop – both with hands-on lab exercises

For details, contact: ?

Backup: Product level details



CICS Interdependency Analyzer for z/OS V5.2

What's new in CICS IA V5.2?

- Support for CICS® Transaction Server V5.2
- Enhanced cloud application analysis
- New resource use and dependencies by platform
- New visualization of TCB, region, and application switches
- New plug-in view for Program Details
- New affinity analysis in the plug-in
- New Dependency collection sampling technique
- Deeper thread-safe analysis

CICS IA enables you to...

- Visualize application flow and structure
- Identify mobile and web service candidates
- Identify threadsafe / non-threadsafe programs
- Isolate and remove affinities
- Speed CICSPlex® SM workload management
- Advanced CICS command flow analysis

e Edit	Search F	Project Window	Help												
3 - 61	Find:	Resource	* Filter by I	D:	* Filter by	Region	*	O Collec	tion ID:		10 🕶	1 -			
	7) Collecti	on IDs 18			- D	🍫 Affinitie	s 🔒 Repor	rt 13 🕥 Sho	w Resources						
CICS IA		*			(2)	Collection			on: IMDZZ518	 Program 		w			
CICS PA	A NPTES	N NPTEST				CICS TS le	vel: Region	• • 0							
CICS SM	MAILA	PPLTEST				Program		LIB C	ataset Name	APIST	Concu	arrency	Exe	Storage	Pro
							LAPPLTEST								
							DZZ518 (C								_
							TST4CVD		AD.TEST.LOAD			SIRENT			
	🗈 Que 🔠	Reg 🕄 🔊 Ap	p 🐂 Use 🗐 🖉	🛯 😻 Sca 🖉	Rep		a IST4CVD		CICS Calls	12 LIB	Threa			Non-The	
		*			(2) 🐑				erminate Threa			DB2 C.		Total MC	
	(k) (c) (c)							IMS Calls	0		mic Cal., I		Threadsa		
	BNDZ7						TST4CVD	2 CICS	AD.TEST.LOAD	LIB CICSA	PI QUAS	SIRENT	USER	INACTIV	/E
		Show Resource	e				TST4CVD		AD.TEST.LOAD		PI QUAS	SIRENT	USER	INACTIV	/E
		Show Maps					TST4CVD	04 CICS	AD.TEST.LOAD	LIB CICSA	PI QUAS	SIRENT	USER	INACTIV	/t
		Show Files													
		Show Tempor													
		Show Transier	nt Data	_											
		Show Transier Threadsafe Re	nt Data sport												
		Show Transier Threadsafe Re Show Affinitie	nt Data sport QBy Type	•											
		Show Transier Threadsafe Re Show Affinitie Transactions I	nt Data sport Qiðy Type Jsed	•		-			m						
		Show Transier Threadsafe Re Show Affinitie Transactions I Programs Use	nt Data sport GBy Type Jsed d			< Comma	Function	Туре	Object	Object Len	Offset	Progra	Us	e cou 1	
		Show Transier Threadsafe Re Show Affinitie Transactions U Programs Use Web Services	nt Data sport GBy Type Jsed d	•			Function CLOSE	Type			Offset 000063	Progra. 000073.		e cou 1	The
	Sh Progra	Show Transier Threadsafe Re Show Affinitie Transactions I Programs Use	nt Data sport GBy Type Jsed d	* * ces	- 0	Comma			Object CSQ4SAMP				. 2		The
	Drogra	Show Transier Threadsafe Re Show Affinitie Transactions U Programs Use Web Services	nt Data sport QBy Type Jsed d Used			Comma MQ	CLOSE IGNORE INQUIRE	QUEVE CONDITL QUEVE	Object CSQ4SAMP CSQ4SAMP	8 0	000063	000073. 000073. 000073.	- 2 2 8	١	The (
		Show Transier Threadsafe Re Show Affinitie Transactions I Programs Use Web Services Collector	nt Data sport QBy Type Jsed d Used			Comma MQ CICS MQ CICS	CLOSE IGNORE INQUIRE LINK	QUEUE CONDITL QUEUE PROGRA.	Object CSQ4SAMP CSQ4SAMP TST4CVD2	8 0 8 8	000063 000049 000065 00005A	000073. 000073. 000073. 000073.	2 2 8 2		The C
	E EMS1	Show Transier Threadsafe Re Show Affinitie Transactions I Programs Use Web Services Collector	nt Data sport QBy Type Jsed d Used			Comma MQ CICS MQ CICS CICS	CLOSE IGNORE INQUIRE LINK LINK	QUEUE CONDITL QUEUE PROGRA. PROGRA.	Object CSQ4SAMP CSQ4SAMP TST4CVD2 TST4CVD4	8 0 8 8 8	000063 000049 000065 00005A 000058	000073. 000073. 000073. 000073. 000073.	2 2 8 2 2		The C
	EMS1	Show Transier Threadsafe Re Show Affinitie Transactions I Programs Use Web Services Collector	nt Data sport QBy Type Jsed d Used			Comma MQ CICS MQ CICS CICS CICS MQ	CLOSE IGNORE INQUIRE LINK LINK OPEN	QUEUE CONDITL QUEUE PROGRA. PROGRA. QUEUE	Object CSQ4SAMP CSQ4SAMP TST4CVD2 TST4CVD4 CSQ4SAMP	8 0 8 8 8 8	000063 000049 000065 00005A 000058 000058	000073. 000073. 000073. 000073. 000073. 000073.	2 2 8 2 2 2 2 2		The ((
	EMS1 EMS9 MAIL	Show Transier Threadsafe Re Show Affinitie Transactions I Programs Use Web Services Collector	nt Data sport QBy Type Jsed d Used			Comma MQ CICS MQ CICS CICS MQ CICS	CLOSE IGNORE INQUIRE LINK UNK OPEN RECEIVE	QUEUE CONDITL QUEUE PROGRA. PROGRA. PROGRA. QUEUE MAP	Object CSQ4SAMP CSQ4SAMP TST4CVD2 TST4CVD4 CSQ4SAMP CSQ4VD0	8 0 8 8 8 8 7	000063 000049 000065 00005A 000058 000058 000062	000073. 000073. 000073. 000073. 000073. 000073. 000073.	2 8 2 2 2 2 2 2 2		The C C
	EMS1	Show Transier Threadsafe Re Show Affinitie Transactions I Programs Use Web Services Collector	nt Data sport QBy Type Jsed d Used			Comma MQ CICS MQ CICS CICS MQ CICS CICS	CLOSE IGNORE INQUIRE LINK UNK OPEN RECEIVE RECEIVE	QUEUE CONDITL QUEUE PROGRA. PROGRA. PROGRA. QUEUE MAP MAP	Object CSQ4SAMP CSQ4SAMP TST4CVD2 TST4CVD4 CSQ4SAMP CSQ4VD0 CSQ4VD0 CSQ4VD1	8 0 8 8 8 8 7 7 7	000063 000049 000065 000058 000058 000062 00004E 00004E	000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073.	- 2 - 2 - 8 - 2 - 2 - 2 - 2 - 2 - 2 - 6	1 1 1 1 1	The C C C C
	EMS1 EMS9 MAIL	Show Transier Threadsafe Re Show Affinitie Transactions I Programs Use Web Services Collector	nt Data sport QBy Type Jsed d Used			Comma MQ CICS MQ CICS CICS CICS CICS CICS CICS	CLOSE IGNORE INQUIRE LINK UNK OPEN RECEIVE RECEIVE RECEIVE	QUEUE CONDITL OUEUE PROGRA. PROGRA. OUEUE MAP MAP MAPSET	Object CSQ4SAMP TST4CVD2 TST4CVD4 CSQ4SAMP CSQ4VD0 CSQ4VD1 CSQ4VD1 CSQ4VDM	8 0 8 8 8 8 7 7 7 7	000063 000049 000065 000058 000058 000062 00004E 00004E	000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073.	2 2 8 2 2 2 2 2 2 2 2 2 2 3 2 2 3 2 3 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	EMS1 EMS9 MAIL	Show Transier Threadsafe Re Show Affinitie Transactions I Programs Use Web Services Collector	nt Data sport QBy Type Jsed d Used			Comma MQ CICS MQ CICS CICS CICS CICS CICS CICS	CLOSE IGNORE INQUIRE LINK UNK OPEN RECEIVE RECEIVE RECEIVE RECEIVE	QUEUE CONDITL QUEUE PROGRA. PROGRA. PROGRA. PROGRA. MAP MAP MAPSET MAPSET	Object CSQ4SAMP TST4CVD2 TST4CVD4 CSQ4SAMP CSQ4VD0 CSQ4VD0 CSQ4VD1 CSQ4VD1 CSQ4VD1	8 0 8 8 8 8 7 7 7 7 7 7	000063 000049 000065 00005A 00005A 000062 00004E 00004E 00004E 00004E	000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073.	- 2 - 2 - 8 - 2 - 2 - 2 - 2 - 2 - 6 - 2 - 6 - 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	EMS1 EMS9 MAIL	Show Transier Threadsafe Re Show Affinitie Transactions I Programs Use Web Services Collector	nt Data sport QBy Type Jsed d Used			Comma MQ CICS MQ CICS CICS CICS CICS CICS CICS CICS CIC	CLOSE IGNORE INQUIRE LINK UNK OPEN RECEIVE RECEIVE RECEIVE RECEIVE SEND	QUEUE CONDITL QUEUE PROGRA. PROGRA. QUEUE MAP MAP MAPSET MAP	Object CSQ4SAMP TST4CVD2 TST4CVD4 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0	8 0 8 8 8 7 7 7 7 7 7 7 7	000063 000049 000053 000054 000058 000062 00004E 00004E 00004E	000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073.	- 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 6 - 2 - 6 - 2 - 6 - 2	11111	
	EMS1 EMS9 MAIL	Show Transier Threadsafe Re Show Affinitie Transactions I Programs Use Web Services Collector	nt Data sport QBy Type Jsed d Used			Comma MQ CICS MQ CICS CICS CICS CICS CICS CICS CICS CIC	CLOSE IGNORE INQUIRE LINK UNK OPEN RECEIVE RECEIVE RECEIVE RECEIVE SEND SEND	QUEUE CONDITL QUEUE PROGRA. PROGRA. PROGRA. QUEUE MAP MAP MAPSET MAP MAP	Object CSQ4SAMP CSQ4SAMP TST4CVD2 TST4CVD4 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0	8 0 8 8 8 7 7 7 7 7 7 7 7 7	000063. 000049. 000055. 000058. 000058. 000062. 00004E. 000056. 00004E. 000058.	000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073.	- 2 - 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 6 - 2 - 6 - 2 - 6 - 2 - 6	11111	The r r r r r r r r r r r r r r r r r r r
	EMS1 EMS9 MAIL	Show Transier Threadsafe Re Show Affinitie Transactions I Programs Use Web Services Collector	nt Data sport QBy Type Jsed d Used			Comma MQ CICS CICS CICS CICS CICS CICS CICS CIC	CLOSE IGNORE INQUIRE LINK UNK OPEN RECEIVE RECEIVE RECEIVE SEND SEND SEND	QUEUE CONDITL QUEUE PROGRA. PROGRA. PROGRA. MAP MAP MAPSET MAP MAPSET MAP MAPSET	Object CSQ4SAMP_ TST4CVD2 TST4CVD4 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0	8 0 8 8 8 7 7 7 7 7 7 7 7 7 7 7 7	000063., 000049., 000065., 000054., 000054., 000052., 000045., 000054., 000054., 000054., 000054., 000058., 000046.,	000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073.	2 3 4 2 3 2 2 2 2 2 2 2 2 2 3 2 3 4 2 2 3 2 3 4 2 2 3 4 2 2 3 4 2 2 3 4 2 2 3 4 5 4 5 6 6 6 7 2 2 2 3 6 6 6 7 7 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7	11111	The
	EMS1 EMS9 MAIL	Show Transier Threadsafe Re Show Affinitie Transactions I Programs Use Web Services Collector	nt Data sport QBy Type Jsed d Used			Comma MQ CICS MQ CICS CICS CICS CICS CICS CICS CICS CIC	CLOSE IGNORE INQUIRE LINK UNK OPEN RECEIVE RECEIVE RECEIVE RECEIVE SEND SEND	QUEUE CONDITL QUEUE PROGRA. PROGRA. PROGRA. QUEUE MAP MAP MAPSET MAP MAP	Object CSQ4SAMP CSQ4SAMP TST4CVD2 TST4CVD4 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0 CSQ4VD0	8 0 8 8 8 7 7 7 7 7 7 7 7 7	000063. 000049. 000053. 000054. 000054. 000052. 000045. 000054. 000054. 000054. 000054. 000054. 000058. 000058.	000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073. 000073.	2 3 4 2 2 2 2 2 2 2 2 2 2 2 2 2	11111	

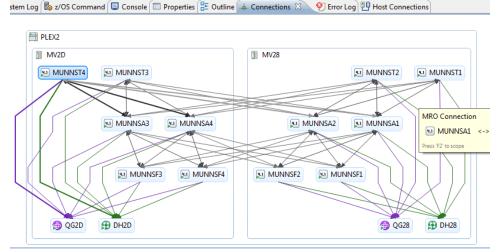
CICS Deployment Assistant for z/OS V5.2

What's new in CICS DA V5.2?

- Support for IBM CICS Transaction Server V5.2
- New RESTful API to access model
- Cloning of unmanaged and crosslogical partition (LPAR) regions
- New Comparison view
- New TCP/IP usage report.

CICS DA enables you to

- Visualize and manage your CICS topology
- Discover existing regions and sus-systems
- Automation creates new CICSplex
- Plexify and clone CICS regions
- Start and stop a CICS region
- Share model with other applications



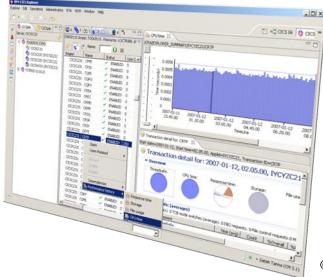
CICS Performance Analyzer for z/OS V5.2

What's new in CICS PA V5.2?

- IBM CICS Transaction Server V5.2
 support
- Performance summary reports for platforms and applications
- Multi-version analysis of dynamic mobile applications
- Reporting, visualization, statistics alerts and analysis enhancements
- Transaction Performance Alert plug-in view
- Visualization of the performance of individual transactions

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



CICS Configuration Manager for z/OS V5.2

What's new in CICS CM V5.2?

- Plug-in support for migration schemes
- New deployment analysis from plug-in
- New support for IBM CICSPlex SM topology and workload management definitions
- New support for NIST SP800-131A security standard
- New migration of TCPIPSERVICE and IPCONN definitions for high availability connections

CICS CM enables you to...

- Manage changes throughout the life-cycle
- Create reports to identify redundant definitions, show resource relationships, and change management history
- Manage audit, back-out and change authorizations

🚯 Configurations 🖶 Cl	nange Packages 🔀	-	• 🗙 🗞 🗸 🗖	
Packages Des	cription	Last Action	Changetime	
the CP1		CREATE	2012/05/21 06:49:	
🖶 DEMO Dem	o PKG	CREATE	2012/07/19 08:28:	:
	lopment to Test	READY	2012/09/27 05:44:	
Open		READY	2012/09/19 08:38:	:
🖶 E Ready 🕨	of change packaging via explorer	UNREADY	2012/09/25 21:26:	:
🗄 E Unready	or Humana	MIGRATE	2012/09/26 13:51:	:
🗄 E Migrate	ackage for Eric	MIGRATE	2012/09/18 10:22:	:
🖶 🖉 BacSout	tion of GENAPP resource	READY	2012/04/29 12:40:	≣
SFCPKG1 Pack	age for SFC app	MIGRATE	2012/05/02 17:52:	:
K SSACHPKG Char	nge package for WMQ definitions	MIGRATE	2012/07/11 03:44:	:
🖶 0000001 Migra	ate resources from CICS TS 3.2 to 4.1	READY	2012/04/18 05:31:	:
🖶 0000002 Migra	ate from AOR6 to AOR7	MIGRATE	2012/02/13 08:24:	:
🖶 0000003 Migra	ate from CSD to CPSM BAS	BACKOUT	2012/05/30 03:55:	~
<	Ш		>	

CICS Transaction Gateway V9.1

Mobile integration, robust connectivity, and strong security options

zkaterprise

Service enablement

Mobile integration with JSON web services

- Dynamic routing of mobile workload
- Shared tech with CICS TS + z/OS connect
- JSON xform from COBOL, C and PL/1
- Full monitoring and statistics

Foundation

Exploit zEC12 hardware with SDK 7.1
Virtualized CICS servers with IBM RTW *Build test-suites for Java/JCA ECI applications*Channel data for request monitoring
API support for latest Windows

Secure connectivity SSL for .NET applications Full NIST SP800-131A compliance TLS 1.2 secure connections for • Java JCA .NET APIs to the Gateway

• Gateway to CICS with IPIC connections

Modern connectivity

Connection management
For 24x7 continuous operation
Exploits IPIC heartbeat support
Improved availability across larger TCP/IP networks

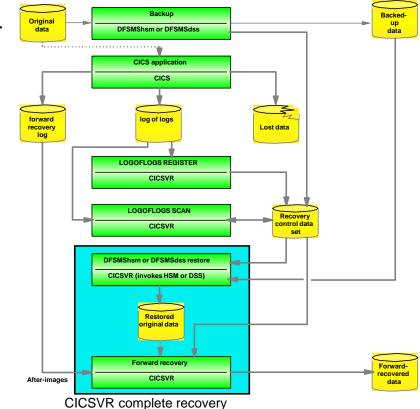
CICS VSAM Recovery for z/OS V5.2

CICS VR enables you to...

- Supports backups created by Backup-While-Open (BWO)
- Automate recovery
- Test forward recovery and backout
- Produce disaster recovery reports
- Implement continuous availability solution

What's new in CICS VR V5.2?

- CICS Transaction Server for z/OS V5.2 support
- Migration and coexistence enhancements
- Message and report enhancements
- Scavenger and registration
 48 enhancements

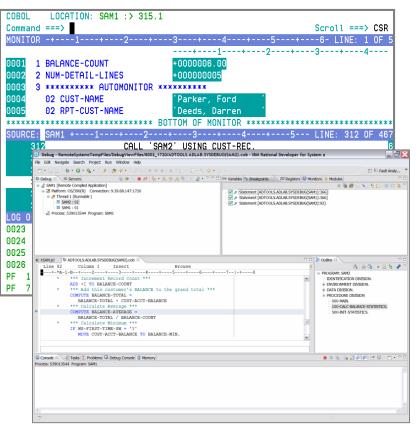


Debugging of enterprise applications BM Debug Tool V13

- IBM Debug Tool can help you increase debugging efficiencies and reduce application development cycle times.
- Program testing and analysis aid that helps you examine, monitor, and control the execution of application programs on z/OS (CICS/DB2/IMS/ COBOL/PLI/ASM,C/C++/ASM/JAVA w Toolkit)
- Proven 3270-based interface and free graphical user interface.

What's new?

- Smooth debugging mixed apps JAVA/COBOL/PLI
- Improved Code Coverage
- Automatic start IMS MPP regions, dynamic routing of transactions
- IMS Startup Cross Reference table for WASz and Web started transactions
- RDz Playback
- Support for DB2 V11, IMS V13, CICS TS 5.1, z/OS 2.1, WASz 8.5,, COBOL V5.1, Enterprise PLI V4.4, C/C++ for z/OS 2.1, RDz 9.0
- A range of other enhancements to address key customer
 ⁴⁹requirements



Source code debugging to improve development productivity

Pinpoint the cause of enterprise application failures IBM Fault Analyzer V13

- IBM Fault Analyzer improves developer productivity and decreases deployment costs by helping to analyze and correct application failures quickly (CICS/DB2/IMS/MQ/COBOL/PLI/ASM/ C/C++/ASM/JAVA).
- Develop and test new and existing applications more productively, helping to reduce costs along the way.
- Proven 3270-based interface and free graphical user interface.

What's new?

- Optimize
 - Sidefile checking and reporting
 - Customer specific module and abend descriptions
 - ISPF Virtual Relief
- Modernize
 - Enhanced web interface using Dojo
- Enhanced Java support
- Support for DB2 V11, IMS V13, CICS TS 5.1, z/OS 2.1, COBOL V5, PL/I V4.4, Java V7

<u>F</u> ile <u>V</u> iew <u>S</u> ervices <u>H</u> elp	
Synopsis Line 12 Col 1 8	
Command ===> Scroll ===> <u>CSF</u>	
JOBNAME: DNET246S SYSTEM ABEND: 0C7 DEMOMVS 2007/10/30 20:00:1	2
Source	_
Line #	_
000088 * *** Add this customer's BALANCE to the grand total ***	
000089 COMPUTE BALANCE-TOTAL =	
000090 BALANCE-TOTAL + CUST-ACCT-BALANCE	_
	_
The COBOL source code for data fields involved in the failure:	
Sour	
IBM CICS Explorer	
Line Explorer Edit Project Search Window Help	
0000 : 📑 👻 🔛 : 🛷 *	
0000 🕰 Fault Analyzer Artifacts 😫 😃 🗆 🖼 F00047.far 😫	-
G PA Art/facts Rowse Dump	1

Sour	IBM CICS Explorer							
Line	Explorer Edit Project Search Window	Help						
0000	i 📫 • 🗔 i 🛷 •						📑 🚉 Faul	t Analyze »
0000	🕰 Fault Analyzer Artifacts 😒 📃 🗆	🕄 F00047.far 😒						
Data f	Q FA Artifacts 9.30.128.24:8000 DEMONVS.DEMOPKG.IBM.COM: D K History Files	Browse Dump Fault Summary Module SAM2, p:	rogram SA	M2, source l	ine # <u>89</u> : Abe	nd <u>8007</u> (Da	ta Exception)	4
	🦗 FAULTANL.V11R1.HIST	Synopsis						
BALA		IBM FAU:	LT AN	ALYZER	SYNOP	SIS		
CUST								
*** Bc	× 111	A system abend						>
	🗄 Outine 🖾 🔲 Properties 🔍 🗆	Default 😣 🖽	ookup				Column Configura	ation 🔻 🗖 🗖
	Main Report Summary Synopsis Event Summary	System Name Fault History File or Vie		DEMOPKG.IBM.COM V11R1.HIST	1:5124			
	Abend Job Information B-System Wide Information	Fault_ID	lob/Tran	User_ID	Sys/Job	Abend	I_Abend	Job_1
	Misc Information		NET047A	DNET047	DEMOMVS	S0C7	S0C7	JOB01
			NET422	DNET422	DEMOMVS	S522 ATNI	S522 ATNI	STC01 =
			TCN DS0001A	DDS0001 DDS0001	CICSAOR 1 DEMOMVS	S0C7	S0C7	STC0- JOB0
			ICSCMJ	DDS2006	DEMOMVS	5007	5047	3080
			DS0485	DDS0485	DEMOMVS	S0C7	S0C7	TSUO
			UNDB2C	DDS 1986	DEMOMVS	SOC1	SOC1	3080
			OS0001A	DDS0001	DEMOMVS	SOC7	S0C7	3080
			UNDB2C	DDS1986	DEMOMVS	S0C1	S0C1	JOB0(
			ESTING	DDS0280	DEMOMVS	\$378	\$378	JOB0(
			ESTING	DDS0280	DEMOMVS	\$378	\$378	JOBO
		F00036 T	ESTING	DDS0280	DEMOMVS	\$378	\$378	JOB0(M
	. 							

Helps to identify the cause, analyze the failure, and fix the problem

50 A range of key customer requirements

Manage a variety of enterprise data file structures IBM File Manager V13

- IBM File Manager allows you to manage production, test, and development data across multiple formats and storage media.
- Create, edit, copy, browse, extract, print, and compare enterprise data (VSAM/DB2/IMS,CICS/MQ)
- Proven 3270-based interface and free graphical user interface.

What's new?

- IMS GUI
- FM DB2 enhancements
- Batch template and update support
- UNICODE and various CCSIDs support
- Support for DB2 V11, IMS V13, CICS TS 5.1, MQ8.5, z/OS2.1, PL/I 4.4,
- DB2 Large Object (LOB) including XML columns
- A range of other enhancements to address key customer requirements

Pro	cess	s Options	Help										
<mark>Edit</mark> Comm		F ===>	I:TSS12	CUS DS: TS		LAB.CUS	+			Rec Scroll			
Key	0220	32		Type K	SDS					Format			
							То	p Line	e is 1	of 1	.5		
Curr	ent	01: CUST-R	EC						Le	ength <u>33</u>	81		
Ref				Start Lo	en D	ata							
2	2 (CUSTOMER-KE	Y										
			AN	1	5								
3	3	CUST-ID											
		X (5)	AN	1	5 0	2202							
4	2	E Systems Information	n 🛛 🔍 🗖 E	🛛 🗟 KEEPER.PLUGI	N.PEOPLE.KS	DS X							- 0
5	2 f	h (E 🗄 🔍 🔻 🖱	/		- 0	🔒 🗔 Current			Total 101		Edit type	VIEW
		Type here to search th	e tree (Ctrl+F)	Navigation		• •		2		Total 101		Edit type	VIEW
6	2 (pthfmd2:2802 -	nthfmd2-2802		PERSONID	FIRSTNAME	SURNAME	PHONE		POSTCODE	COUNTRY		
		Action Histor	•	1	100	Roanna	Ryan	(581)	219-5666	45760	Colombia		Ξ
7	2 f	CICS	,	2	101	Jocelyn	Clayton	(471)	342-2303	98900	Bolivia		
8	2 (Data Sets		3	102	Alma	Massey	(761)	407-1773	96909	Italy		
9	2 :	👷 DB2		4	103	Emily	Ellis	(735)	824-8349	96010	Bermuda		
		🖗 Message Que	eue Managers	5	104	Talon	Dickerson	(865)	152-0625	52311	Nepal		
12	2 (🗷 UNIX System	Services	6	105	Keelie	Weiss	(998)	495-3164	83644	Cuba		
		📕 pthfmd2:2802 -	pthfmd2:2802	7	106	Orlando	Larsen	(800)	753-0647	46120	Bhutan		Ŧ
***	End			•									•
				Layout PEOPLE		▼ Te	emplate KEEPER.	PI UGIN TEN	AND ATE (PEC 🔻				
				Formatted Mode									
		Properties 🛙	° 6	🛯 🗟 KEEPER.PLUGI	N.PEOPLE.KS	DS ଅ 🍰 Lool	kup Ϋ Host Conr	nections					- 8
			🗄 🍃 🗟 🛃 🏾	Layout PEOPLE		1	Current 2		Tot	al 101			
		Property	Value 🔺						100	ui 101			
		Description	pthfmd2:280.	Field	Picture	Туре	Start	Length	Data				
		FM client version	02.01	PERSONID	S999	ZD	1	3	101				Ξ
		FM server version	02.01	FIRSTNAME	A(10)	AN	4	10	Jocely	n			
		Host name	pthfmd2	SURNAME	A(10)	AN	14	10	Clayto	n			
		IPV client version	01.01	PHONE	X(14)	AN	24	14	(471)	342-2303			Ŧ
		IPV server version	01.01 -	View Mode Sine	alo Moda	• Incost Marda	Incort						

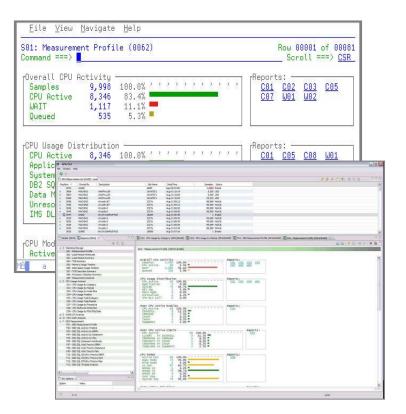
Data management tool supporting key file structures like VSAM, DB2, CICS, and IMS

Pinpointing where application performance problems occur IBM Application Performance Analyzer V13

- IBM Application Performance Analyzer helps 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)
- Proven 3270-based interface and free graphical user interface.

What new?

- Enhanced support for WebSphere and Java
- Sampling enhancements to improve accuracy of reports
- WAS Phase 2 to support simultaneous sampling of servant regions, CICS and DB2 activity
- Support for DB2 V11, IMS V13, CICS TS V5.1, z/OS 2.1, WASz V8.5, COBOL V5.1, PL/I V4.4, Java V7
- A range of key customer requirements



Monitor and optimize performance at the application level

Regression and load test interactive z/OS applications **IBM Workload Simulator**

- IBM Workload Simulator helps eliminate the need for large amounts of terminal hardware and terminal operator time for testing.
- Ideal for stress, performance, regression, function, and capacity planning tests.
- Proven 3270-based interface and new free graphical user interface.

What's new?

 Graphical user interface (GUI) updates provides access to the power of the host product

WSim Test Manager

Select one of the following. Then press Enter.

E Outline 🖾

outline is not available

acteur une un	the fortowing	j. men press Ent	61.	
Command P 1. CASE 2. GROUP 3. CYCLE 4. RUN D. DOC P. PROJECT U. UTIL W. WII	Create and Create and Create WSim Create Test Add/Change Run WSim Te	Process Testgroup Process Testgroup Process Testgroup Inetworks and Sch Documentation Project or Altern st Manager Utilit /ISPF Interface	s s edule WSim Simula [;] ate HLI	tion Runs
Project:		Alter	nate HLI:	
-				
Licensed Mater	🐺 Project View 🛛 🔪	<u>(</u> 1) 🕹 🖗	🛚 📴 🗖 🗐 CASEB 🖄	
5655-I39 (C) (🔗 🖽 🖻 🕐		Tese ca	se overview
US Government	a 🗁 TEST3			
restricted bu	a 🗁 Test Case		Test case info	ormation
	♦ CASE3			
Command ===>	🔹 CA 😂		Name:	
F1=Help	♦ CA +	New Test Case	Description:	V case1
F7=Up	♦ CA DestG	Edit STI		
MA C	⊳ iest d	Notes		
	Repor	Translate		
	> 🍋 TEST1			
	D 🗁 TEST2	UTBL	Other inform	ation
		View	Type	CPIC
	×	Delete		
			Notes flag:	
			UTLB counts	
	1			

Simulates a network of terminals and the associated messages

Date and Time Simulation for z/OS applications **IBM HourGlass V7.1**

- IBM HourGlass allows testing of timesensitive application programs without dedicated individual LPARs or costly IPLs
- Provides support for popular middleware elements such as DB2, IMS, CICS, and COBOL, on the z/OS platform.
- Proven 3270-based interface and batch interface options.

What's new?

- Support for SYSPLEX synchronization
- Additional CICS, IMS invocation command options supported
- Dynamic update of repository
- JES exit to ensure time options are valid

Cmd	Sel/Stat/Disp	Туре	Name	Owner	Job/name	User-ID	Date	Time
	DISA	DB2	CEDB001	AGGUSR	PLAN1	USRDEV	2006-01-01	M0100
	ENAB	DB2	CEDB002	AGGUSR	PLAN2	TSONAM	2006-02-01	M0100
	ENAB	IMS	CEIM001	AGGUSR	REG1	USRDEV1	2006-01-01	P0100
	DISA	IMS	CEIM002	AGGUSR	REG2	USRDEV2	2006-02-01	M0200
	DISA	JSCD	CEJS001	AGGUSR			2006-01-01	M0400
	DISA	JSCD	CEJS002	AGGUSR			2006-02-01	A1600
	ENAB	MBAT	CEMB001	AGGUSR	USRJOB1		2007-01-01	M0100
	ENAB	MBAT	CEMB002	AGGUSR	USRJ0B2		2007-02-01	P0100
	ENAB	MBAT	CEMB003	AGGUSR	USRJ0B3		2007-03-01	M0300
	ENAB	MBAT	CEMB004		USRJOB4		2007-04-01	
_	ENAB	MBAT	CEMB005		USRJ0B5		2007-05-01	
	ENAB	MBAT	CEMB006		USRJ0B6		2007-06-01	
_	ENAB	TSOI	CETI001	AGGUSR		USRDEV	2005-11-30	
_	DISA	TSOI	CETI002	AGGUSR		USRHRQ	2005-05-01	

Simulates date and time for future and past dates, time zone shifting, etc.

Take command of your data sets to improve IT productivity

Data Set Commander V8.1

- IBM Data Set Commander provides efficient tools and shortcuts to improve handling of PDS and PDSE.
- Fully automated facility to manage caching of PDS and PDSE members.
- Fully compatible replacement for IEBCOPY, enhancing capability to manage and manipulate PDS and PDSE.
- Manage PDSE member generations (versions)
- Integrated front end to ISPF. It enhances ISPF functions, including browse, edit, TSO shell, and DSLIST, UNDELETE, and provides many additional capabilities

What's new?

- Automated PDS/PDSE caching (LLA)
- Manage PDSE member generations (versions)

LLA Monitor Options Menu	
	n POLL=5m PAUSE=0s
lected option as follows:	
defined LLA library groups	
monitored LLA libraries	
monitored load modules	
	Row 1 to 14 of 25,55: Scroll ===> <mark>CSR</mark>
R Refresh S Sort list X Exit to main	nmenu
LNKLST. FAULTANL. V12R1. SIDIMOD1 LNKLST. FAULTANL. V12R1. SIDIMOD1	Last Refresh 13/09/11 13:20 13/09/11 13:20 13/09/11 13:20 13/09/11 13:20 13/09/11 13:20 13/09/11 13:20 13/09/11 13:20 13/09/11 13:20 13/09/11 13:20
r	CTIVE Timer: UNIT=1s DELAY=2s AUTO=10m ULL lected option as follows: defined LLA library groups monitored LLA libraries monitored load modules LLA Monitored Modules LLA Monitored Modules LLA Monitored Modules Data Set Name LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1 LNKLST.FAULTANL.V12R1.SIDIMOD1

Provides useful, cost-saving capability in daily handling of data sets.

IBM Problem Determination Tools V13

What's new in PD Tools V13?

- New IBM Problem Determination Tools Studio pre-packaged with plug-ins
- Significant improvements to Debug Tool, Fault Analyzer, File Manager, Application Performance Analyzer, Workload Simulator, HourGlass, and Data Set Commander
- Support for z/OS V2.1, DB2 V11, IMS V13, CICS TS 5.1, WASz 8.5, COBOL V5.1, Enterprise PLI V4.4, C/C++ for z/OS V2.1, Java V7, and RD/z V9.0
- Java enhancements for APA, DT and FA allowing PD Tools to work in a "mixed mode" environments

PD Tools provides ...

- Five tools addressing z/OS problem resolution needs - Debug Tool, Fault Analyzer, File Manager, Application Performance Analyzer and Workload Simulator
- Subsystem and language support traversing z/OS provided in a timely manner when subsystems and languages are updated
- Improved TCO with full function tools at competitive price

