

The Modern Mainframe... At the Heart of Your Business

Tools for Rapid Development and
Deployment

Discover Your Assets on the Mainframe

How can our new employees
discover the existing assets?



Service Oriented Finance
CIO

WebSphere Studio
Asset Analyzer can
help them



IBM

Rational Developer for System z (RDz)

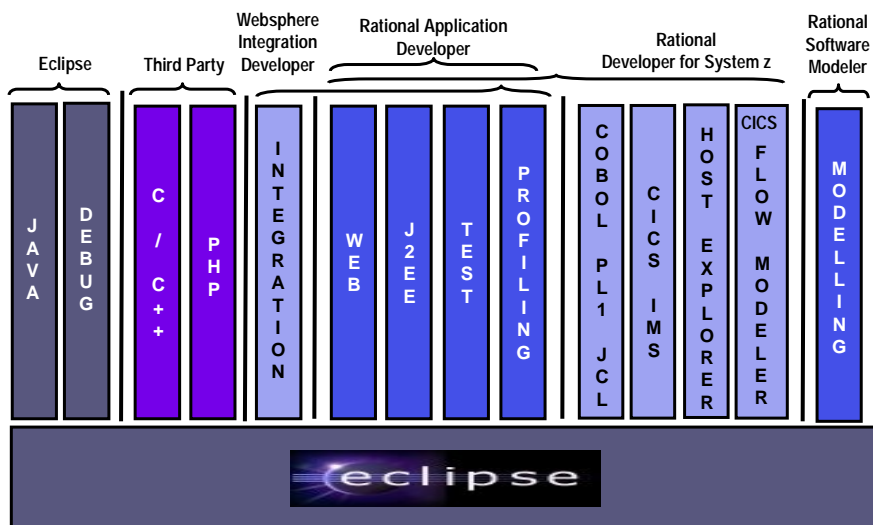
- IBM's latest tool for System z development
 - ▶ Version 7.1 shipped Sep 2007
- Single integrated tool for developing mainframe applications using both traditional and newer technologies
 - ▶ Develop traditional COBOL/PL1/ASM/JCL/BMS/EGL applications
 - ▶ Develop Java/J2EE and Web applications, including JSF and struts
- Boosts developer productivity compared to green screen tools
 - ▶ Workstation tool based on Eclipse
- Leverage existing assets in a Service Oriented Architecture
 - ▶ Quickly expose CICS transactions as native services
 - ▶ Visually wire together CICS transactions into a business flow

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IBM Tools for SOA Development

Function delivered as perspectives in eclipse



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DEMO: Introducing Rational Developer for System z

- Perspectives and views
- Remote System Explorer
- Working with host datasets
- Language-sensitive COBOL editor
- Edit/Compile/Debug
- Productivity features



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Rational Developer for System z Dramatically Lowers the Cost of Development for System z

- Productivity Increases over ISPF:
 - ▶ COBOL and PL/I Traditional Development
 - + 5% in program understanding
 - +10% in edit activities
 - +44% in compile/debug activities
 - ▶ Web Services and SOA development
 - +300% in programmer productivity

NEW! An independent study from the Branham Group

- Workstation based edit, compile, debug saves mainframe cycles
 - 80% reduction in cost of compiles

**Based on customer studies at
Fiducia, Deutsche Bank AG,
Nationwide, etc.**

http://www.branhamgroup.com/wdz_study

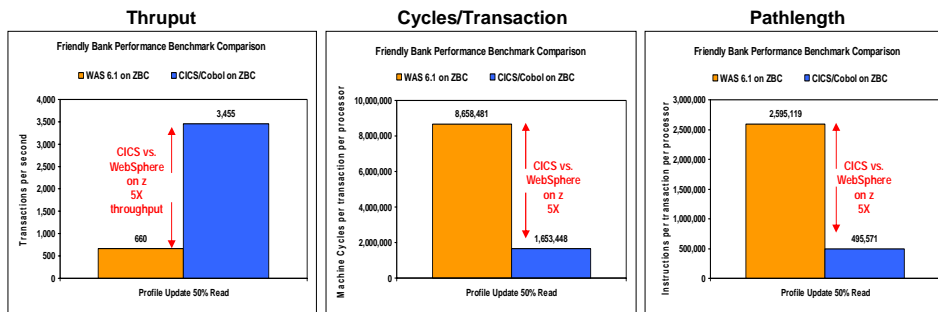
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Why Continue to Program in COBOL/CICS?

Case	Software	Hardware	Model	Processor Speed (Ghz)	# of Procs	Transactions per second	Total Cycles per instruction per processor	Total Cycles per transaction per processor	Instructions per transaction per processor
Profile Update 50% Read	WAS/zOS	Z	Z9BC	1.428	4	659.3	3.3	8,658,481	2,595,119
Profile Update 50% Read	CICS/zOS	Z	Z9BC	1.428	4	3454.6	3.3	1,653,448	495,571

Five times thruput advantage due to efficient pathlengths



Source: SWG Internal Measurements

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A Look at Rational Enterprise Generation Language (EGL)

- New development tool supports high level, Enterprise Generation Language
 - ▶ A simplified high level programming language that lets developers write full-function applications quickly
- Code in higher level language, then generate to language of choice (Java or COBOL)
 - ▶ Tight integration with Java Server Faces
- Well suited for “business oriented developers”
 - ▶ Who are used to using Oracle Forms, Informix 4GL, Visual Basic, and RPG
- Learn and use quickly and easily

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Business Problem Solved

I am glad to see you have reduced our programming costs and our application backlog



Service Oriented Finance
CEO

Increased productivity using WSAA and RDz made this possible. I didn't need to hire more System z development skills.



Service Oriented Finance
CIO

