



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

Tools for Rapid Development and Deployment



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Discover Your Assets on the Mainframe

How can our new employees discover the existing assets?

WebSphere Studio Asset Analyzer can help them



**Service Oriented Finance
CIO**



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DEMO: WebSphere Studio Asset Analyzer

Explore MVS assets

Explore MVS assets: AC* QA*

| Run time | Total | Results | Pri |
|--------------------|-------|---------|-----|
| Batch job | 20 | 4 | |
| CICS group | 123 | 0 | |
| CICS online region | 4 | 0 | |
| CICS transaction | 658 | 25 | |
| DB2 system | 1 | 0 | |
| IMS DBD | 11 | 0 | |
| IMS subsystem | 3 | 0 | |
| IMS transaction | 23 | 0 | |
| Run unit | 358 | 17 | |

Impact analysis detail: Impact analysis results

Search: CICS ACCT04 (7% A&T log)
 Description: CICS ACCT04 (7% A&T log)
 Total of asset instances: 1
 Program ID: CICS ACCT04 (7% A&T log)
 Installation path: /usr/lpp/IBM/ACCT04/ACCT04.PGM

Structure: Summary Details

The following impact analysis shows a subset of asset instances impacted under change directly and indirectly affect.

```

graph TD
    ACCT04[ACCT04] --> ACCT02[ACCT02]
    ACCT02 --> ACCT01[ACCT01]
    ACCT01 --> ACCTERR[ACCTERR]
    ACCT01 --> ACCTFEL[ACCTFEL]
    ACCT01 --> ACERLOG[ACERLOG]
    ACCT01 --> ACCT04
  
```

Direct Impacts:

- ACCT04 (7% A&T log)
- ACCT02 (7% A&T log)
- ACCT01 (7% A&T log)
- ACCTERR (7% A&T log)
- ACCTFEL (7% A&T log)
- ACERLOG (7% A&T log)

Indirect Impacts:

- ACCT04 (7% A&T log)
- ACCT02 (7% A&T log)
- ACCT01 (7% A&T log)
- ACCTERR (7% A&T log)
- ACCTFEL (7% A&T log)
- ACERLOG (7% A&T log)

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Service Oriented Finance Needs Productive Developer Tools

We have a lot of new solutions to build. If I build them all on System z, I will have to find more System z development skills



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With modern tools like WebSphere Developer for System z, you can boost the productivity of your existing team



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WebSphere Developer for System z (WDz)

- IBM's latest tool for System z development
 - ▶ Version 7 shipped Dec 2006

- 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

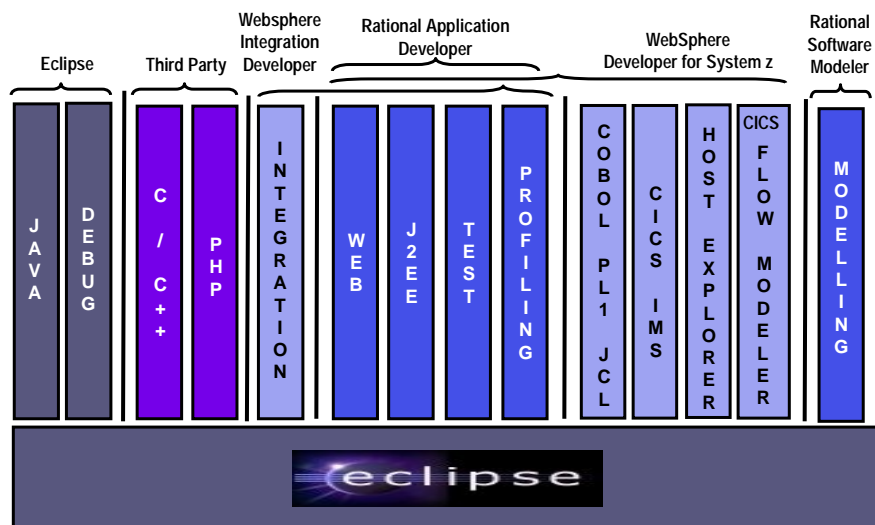
- Leverage existing assets in a Service Oriented Architecture
 - ▶ Quickly expose CICS transactions as native services
 - ▶ Visually wire together CICS transactions into a business flow

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IBM Tools for SOA Development

Function delivered as perspectives in eclipse



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DEMO: Introducing WebSphere 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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WebSphere 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

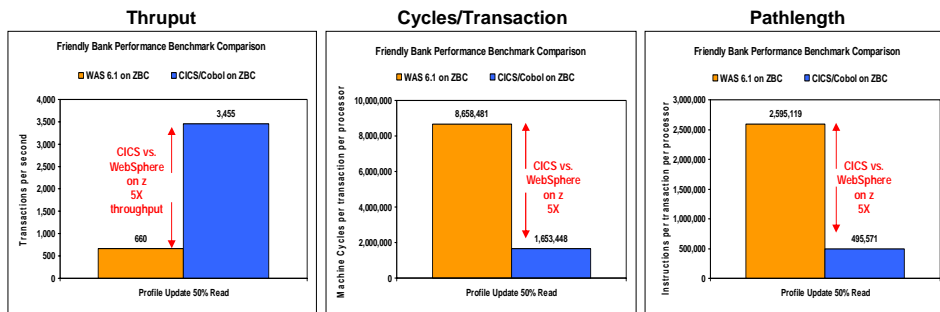
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Why Continue to Program in COBOL/CICS?

| 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 throughput advantage due to efficient pathlengths



Source: SWG Internal Measurements

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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 WDz made this possible. I didn't need to hire more System z development skills.



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