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## Workshop: Rational Developer for System z

**zEO51**

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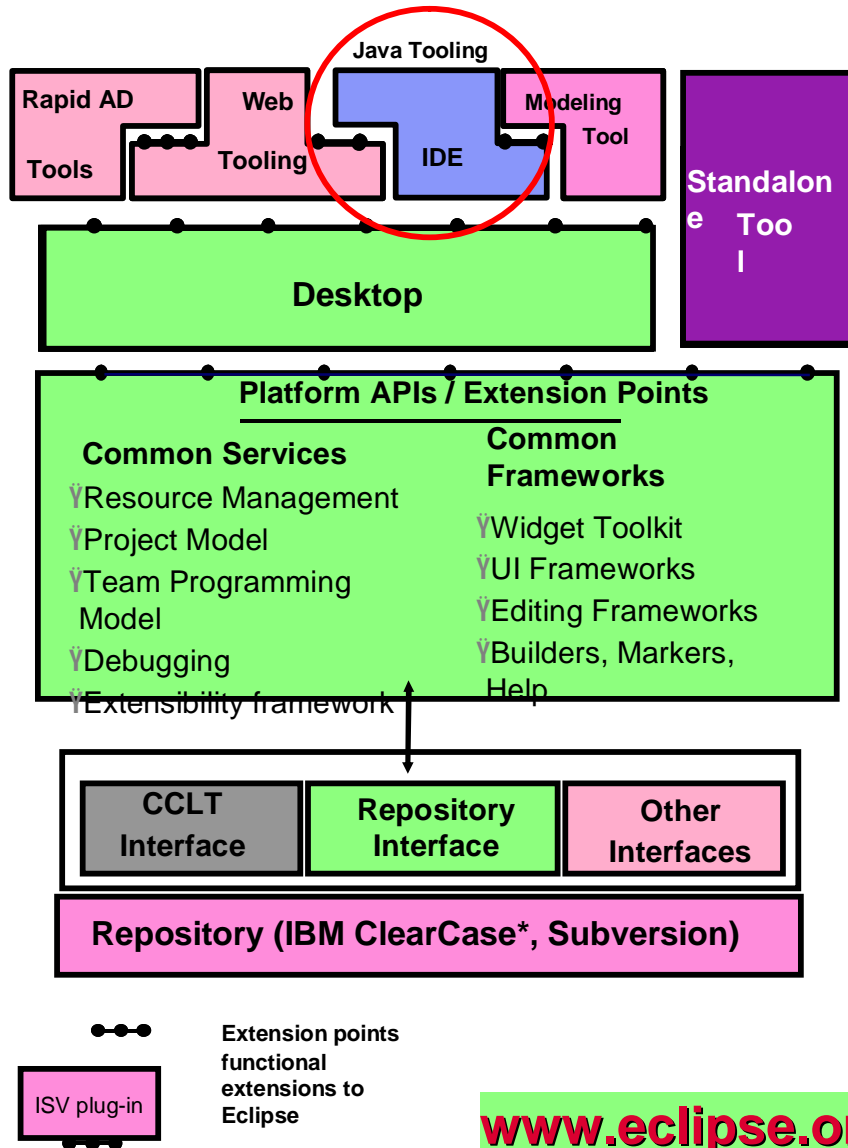
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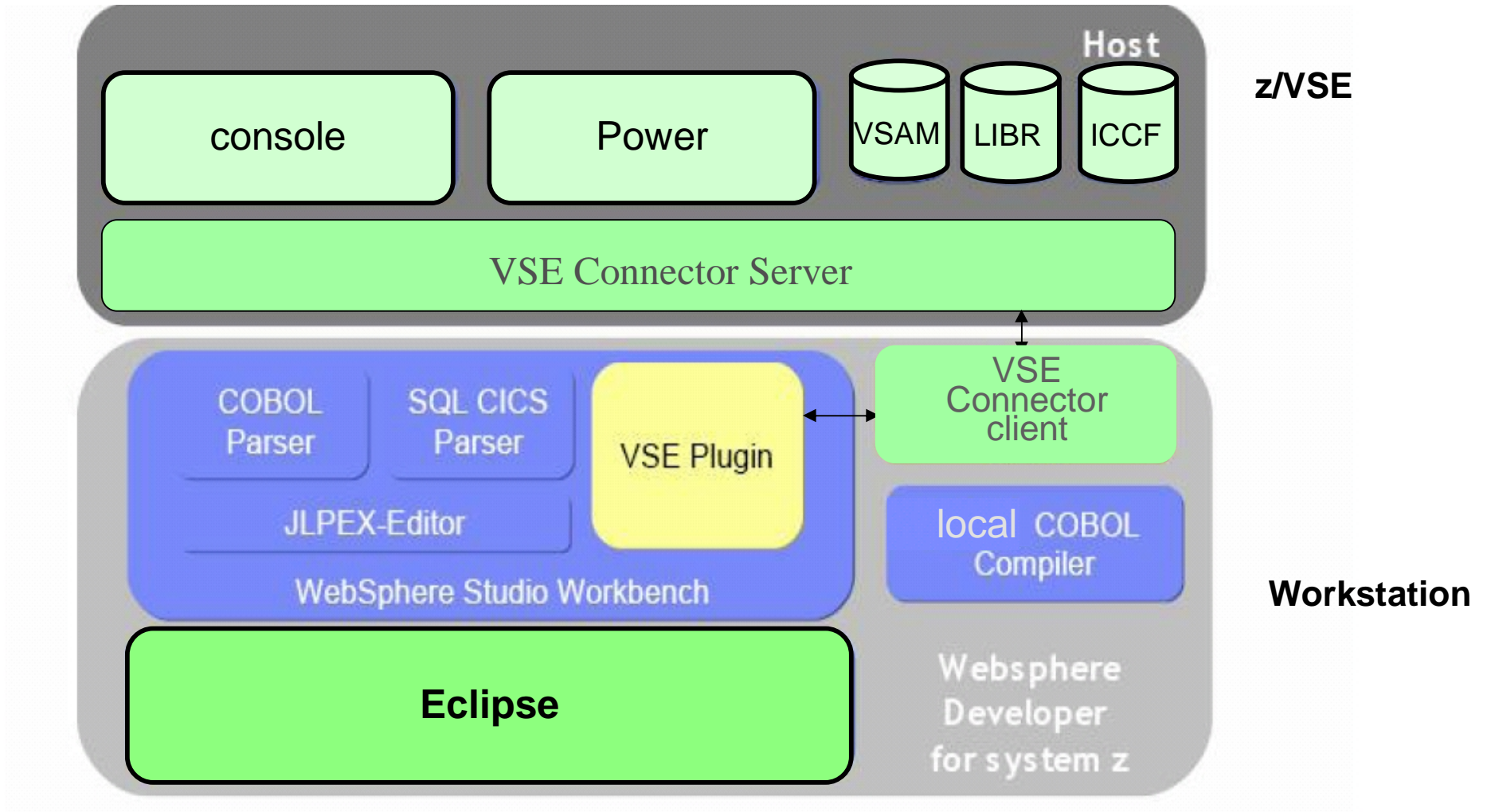
# Eclipse – the open Standard for application development



- What is Eclipse about:
- § Open source development framework
    - with modern Editors
    - syntax help & check
    - semantic check
  - § Centralized source code maintenance
    - entire source code in central Repository
    - cross platform project administration
  - § Versioning software interface
    - CVS, Subversion, or IBM ClearCase
    - automatic Workgroup-control
      - i.e. development groups, system group
  - § Open for ISVs development Plug-Ins
    - Integrated Development Environments (IDE)
      - for System z (WDz, RDz)
      - for Java, COBOL, PL/I, ASM,C
    - Application analysis and optimization
      - Analyze the applications and workflows with graphical correlations
    - IBM HATS Development Plug-In (LVC xxx)
      - develop new front-ends to 3270 appls.
    - IBM EGL development Plug-In for z/VSE
      - follow-on to Visual Age Generator

[www.eclipse.org](http://www.eclipse.org)

# IBM Rational Developer for System z (RDz) with z/VSE Development Plug-in



# IBM Rational Developer (RDz) in z/VSE perspective

The screenshot shows the IBM Rational Developer (RDz) interface in z/VSE perspective. The main editor window (4. Editor) displays COBOL code for a program named PRINTAPP. The code includes sections for Identification, Data, Working-Storage, Linkage, and Procedure Division. Annotations 1 through 6 highlight specific areas: 1. Perspective (the main editor), 2. View (the right-hand pane showing system and library views), 3. Projects (the left-hand pane showing project structure), 4. Editor (the central code editor), 5. Outline View (the bottom-left pane showing a hierarchical outline of the program), and 6. VSE Console (the bottom-right pane showing system status and command input).

**1. Perspective**

**2. View**

**3. Projects**

**4. Editor**

**5. Outline View**

**6. VSE Console**

```

000001 Identification Division.
000002 Program-ID. PRINTAPP.
000003
000004 Data Division.
000005 Working-Storage Section.
000006 01 Work-Parms.
000007 05 In-Len PIC S9(4) BINARY.
000008 05 Char-count PIC 99 Value ZEROS.
000009 05 Out-Name PIC X(100).
000010
000011 Linkage Section.
000012 01 Recvd-Parms.
000013 05 In-name PIC x(30).
000014
000015
000016 Procedure Division using Recvd-Parms.
000017 Move spaces to Out-Name.
000018
000019 Move 0 to Char-count
000020 Inspect Function Reverse(In-Name)
000021 Tallying Char-count For Leading Spaces
000022 Compute In-Len = 30 - Char-count
000023
000024 Move 'Thanks to ' to Out-Name (1:10).
000025 Move In-name(1:In-Len) to Out-Name(11:In-Len)
000026 Move ' for succeeding!' to Out-Name ((11 + In-Len):16).
000027 Display Out-name.
000028 Goback.
000029
    
```

NAP	SPACE	AREA	V-SIZE	GETVIS	V-ADDR	UNUSED	NAME
AR 0015	S	SUP	716K				\$\$\$SUPI
AR 0015	S	SVA-24	1888K	1748K	B3000	768K	
AR 0015	0	BC V	1280K	4864K	500000	45056K	
AR 0015	1	F1 V	1024K	4096K	500000	OK	POWSTART
AR 0015	2	F2 V	2048K	49152K	500000	OK	CICSICCF
AR 0015	3	F3 V	600K	14760K	500000	OK	VTAMSTRT
AR 0015	4	F4 V	2048K	18432K	500000	OK	
AR 0015	5	F5 V	768K	256K	500000	OK	
AR 0015	6	F6 V	256K	256K	500000	OK	
AR 0015	7	F7 V	1024K	19456K	500000	OK	TCPIP00
AR 0015	8	F8 V	2048K	49152K	500000	OK	
AR 0015	9	F9 V	256K	256K	500000	OK	
AR 0015	A	FA V	256K	256K	500000	OK	
AR 0015	B	FB V	256K	256K	500000	OK	SECSERV
AR 0015	S	SVA-31	7588K	6748K	3700000		

# IBM Rational Developer (RDz) in z/VSE perspective

1. Perspective

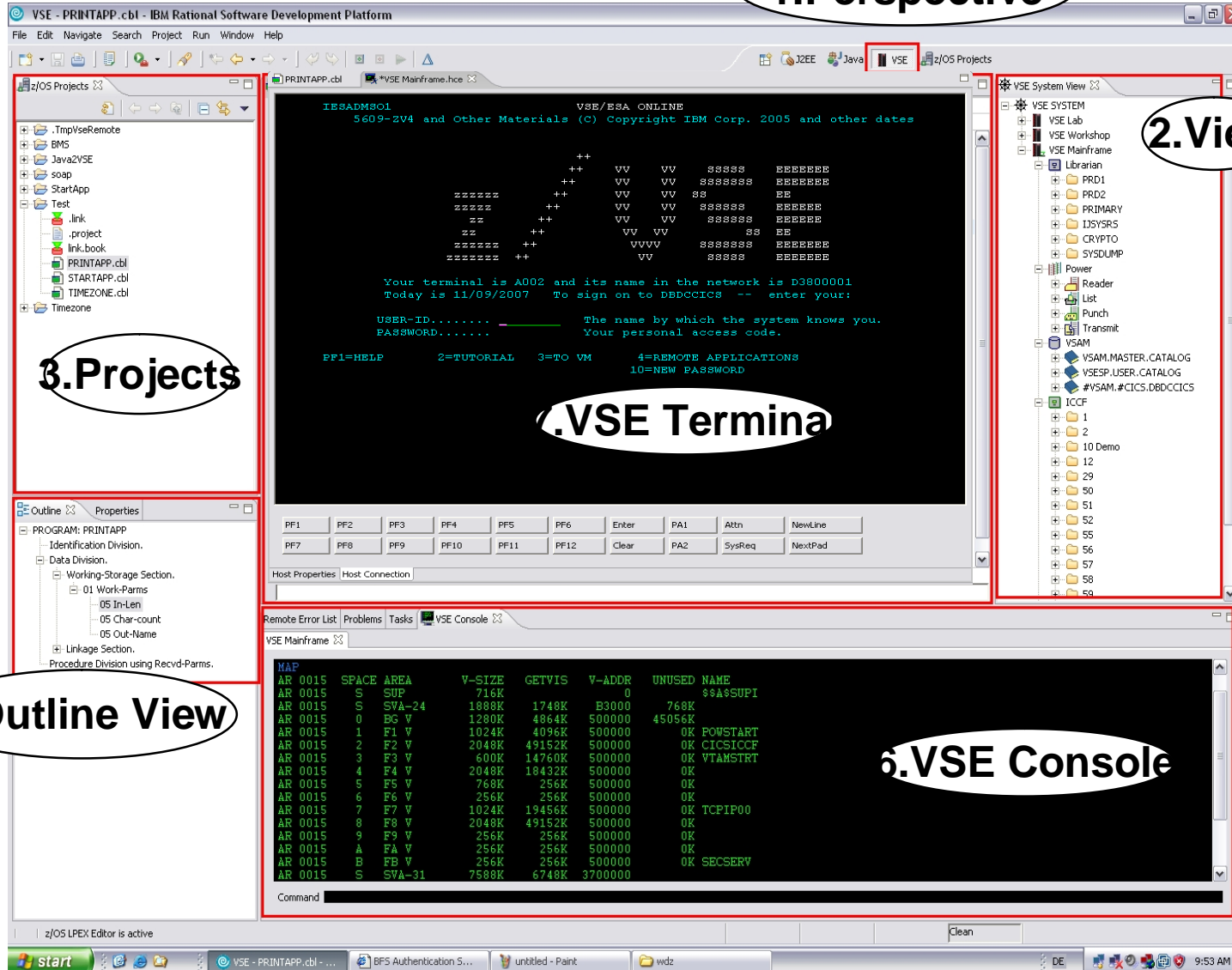
2. View

3. Projects

4. VSE Terminal

5. Outline View

6. VSE Console

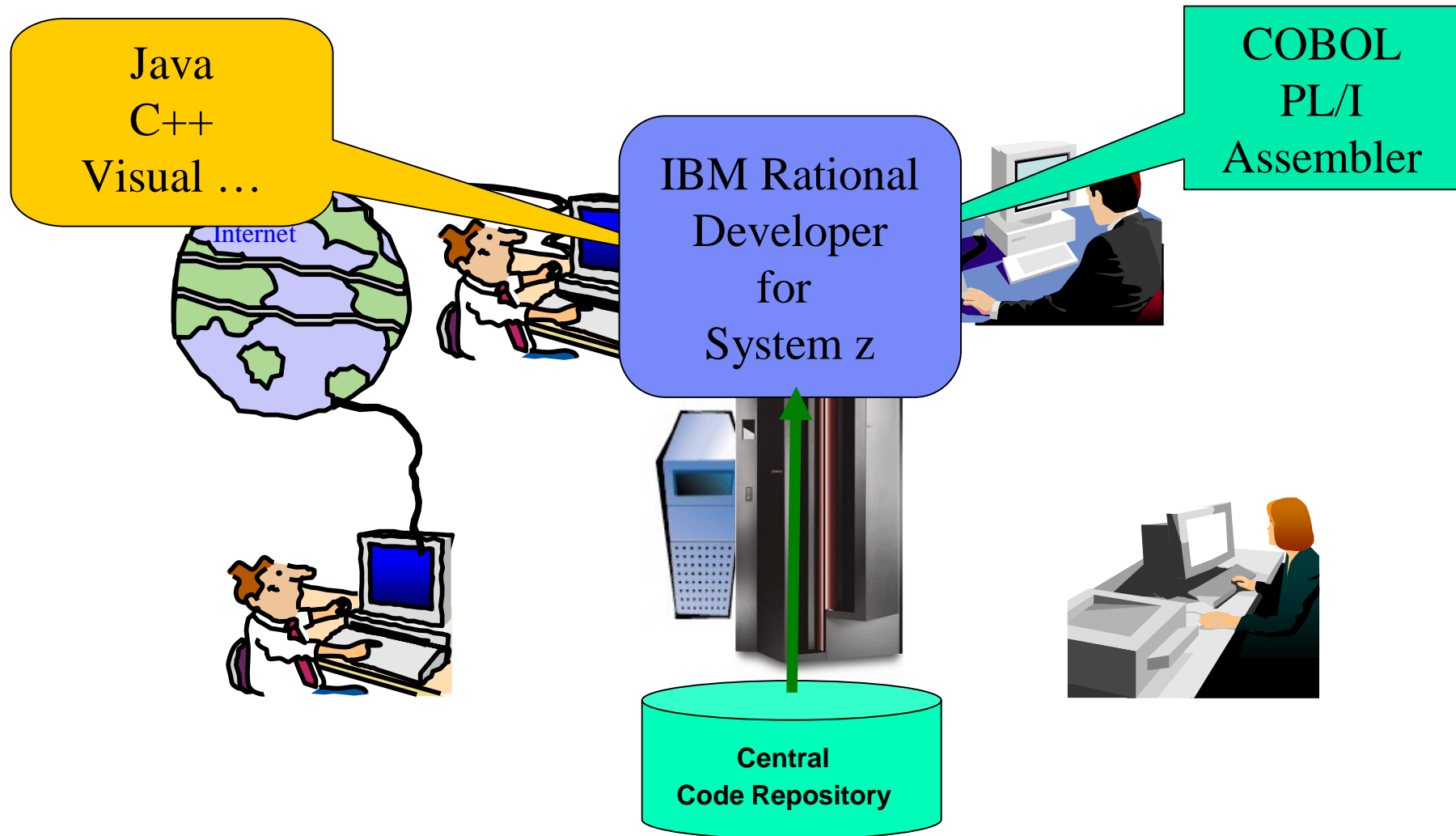


## Conclusion: Development for all platforms with one tool set

- § A modern tool set to support z/VSE development and maintenance
  - modern editor for enhanced productivity
  - tools to analyze and optimize existent applications and workflow
  
- § Common framework for enterprise development
  - standard for all developers
  - example: z/VSE with COBOL, Linux on System z with Java
  - easy skill transfer
  
- § Open source framework
  - commonly thought in schools and universities
  - smooth introduction of new developers to the mainframe



# Eclipse – an open Integrated Development Environment for the enterprise





# Questions ?

