

# IBM Education Assistance for z/OS V2R1

Item: Nested CEEPIPI Environments

Element/Component: Language Environment





# Agenda

- Trademarks
- Presentation Objectives
- Overview
- Usage & Invocation
- Presentation Summary
- Appendix



#### **Trademarks**

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#### **Presentation Objectives**

 Describe new support that allows applications in an active Preinitialization MAIN\_DP environment to call CEEPIPI to run applications in a nested MAIN\_DP environment



#### Overview

- Problem Statement / Need Addressed
  - -Preinitialization applications running in a MAIN\_DP environment need the ability to call CEEPIPI to run applications in nested MAIN\_DP environments. In prior releases, the CEEPIPI call would fail if this is attempted.
- Solution
  - -Allow certain CEEPIPI calls from an active MAIN DP environment
- Benefit / Value
  - —An application running in a MAIN\_DP environment can call another application in a nested MAIN\_DP environment, without having to return to the assembler PreInit driver to call the second application.



# **Usage & Invocation**

- To run Preinitialization applications in nested MAIN\_DP environments, the following general steps are needed:
  - -Create more than one MAIN\_DP environment, using the existing CEEPIPI init\_main\_dp function (integer value = 19), and keep track of the output tokens.
  - -Use the existing CEEPIPI call\_main function (integer value = 2) with one of the tokens to run application program A.
  - -From application program A, use the CEEPIPI call\_main function with another token to invoke application program B in a nested MAIN\_DP environment.
  - Application B program can invoke yet another application in a third nested MAIN\_DP environment.



# Usage & Invocation

#### Example 1:

- -Assembler driver: call CEEPIPI(init\_main\_dp,,,token1)
- -Assembler driver: call CEEPIPI(init\_main\_dp,,,token2)
- -Assembler driver: call CEEPIPI(call\_main,,token1,,) to invoke Program\_A (pass token2 as a parameter to Program\_A)
- -Program\_A: call CEEPIPI(call\_main,,token2) to invoke Program\_B (may need to call assember code to make the CEEPIPI call).
- –Program\_B: returns to Program\_A, which returns to the Assembler driver.
- Assembler driver: call CEEPIPI(term,token1) and
  CEEPIPI(term,token2) to end the two MAIN\_DP environments.



# **Usage & Invocation**

#### Example 2:

- –Assembler driver: call CEEPIPI(init\_main\_dp,,,token1)
- -Assembler driver: call CEEPIPI(call\_main,,token1,,) to invoke Program\_A
- -Program\_A: call CEEPIPI(init\_main\_dp,,,token2) to create a second MAIN DP environment
- -Program\_A: call CEEPIPI(call\_main,,token2) to invoke Program\_B
- –Program\_B: returns to Program\_A
- –Program\_A: call CEEPIPI(term,token2) to end the second MAIN\_DP environment and return to the Assembler driver
- Assembler driver: call CEEPIPI(term,token1) to end the first MAIN\_DP environment.



#### **Presentation Summary**

 New Preinitialization support allows applications running in a MAIN\_DP environment to make CEEPIPI calls to run applications in nested MAIN\_DP environments.



### **Appendix**

- Publication Numbers:
  - -SA22-7561: z/OS Language Environment Programming Guide
  - -SA22-7562: z/OS Language Environment Programming Reference