

## IBM Education Assistance for z/OS V2R1

Item: Unicode Auto-conversion Support

Element/Component: Language Environment





## Agenda

- Trademarks
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- Presentation Summary
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### **Trademarks**

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### **Presentation Objectives**

 Explain the Language Environment interfaces to the Unix System Service Unicode Auto-conversion environment.



#### Overview

- Problem Statement / Need Addressed
  - -Customers can no longer assume their files are read or written on the same system, or at the same geographic location from which they originated. Tagging and conversion of files between varying code pages is expected to become more prevalent in the future.
- Solution
  - Provide interfaces to the Unicode Auto-conversion environment.
- Benefit / Value
  - Applications can use files that come from other platforms without changing, and can generate files that can be used directly by applications on other platforms as well.



### **Usage & Invocation**

- To enable the conversion environment, a user can use one of the following methods:
  - -Set environment variable \_BPXK\_AUTOCVT to "ALL".
    - setenv() and putenv() have no effect on multi-thread program. And non-IPT threads will have the same AUTOCVT state as IPT thread.
  - Using C runtime library function fcntl() to set cvtcmd to SETCVTALL.
  - Using C runtime library function \_\_ae\_autoconvert\_state() with CVTSTATE\_ALL.



### **Usage & Invocation**

- To query the conversion environment of a thread, a user can use one of the following methods:
  - -Using C runtime library function fcntl() to set cvtcmd to QUERYCVT.
  - Using C runtime library function \_\_ae\_autoconvert\_state() with CVTSTATE\_QUERY.
- To tag a file
  - Using C runtime library function fcntl() with F\_SETTAG
- To set a CCSID to a thread.
  - -Set environment variable \_BPXK\_PCCSID to the CCSID.



### **Presentation Summary**

■ The interfaces of Unicode Auto-conversion are provided.



# **Appendix**

Publication references:

-z/OS XL C/C++ Programming Guide	SC09-4765
-z/OS XL C/C++ Runtime Library Reference	SA22-7821
-z/OS Language Environment Customization	SA22-7564
-z/OS Language Environment Vendor Interfaces	SA22-7568