



# IBM Technical Update

GSE Large Systems Working Group

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AIX*	IBM eServer	z/VM*
CICS*	IBM logo*	zSeries*
DB2*	IMS	
DB2 Connect	On Demand Business logo	
DB2 Universal Database	Parallel Sysplex*	
DRDA*	System z	
FICON*	System z9	
GDPS*	WebSphere*	
HiperSockets	z/Architecture	
IBM*	z/OS*	

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## Enhancements to GDPS

- **Can now be integrated with GDOC (Geographically Dispersed Open Clusters)**
- **Coordinated disaster recovery across System z and Open environments**
- **Works with AIX, Hewlett-Packard UX, Linux, Solaris and System z**

## IBM 64-bit SDK for z/OS Java Technology Edition V6

- **Test and deploy Java applications in a 64-bit environment**
- **Continue the “write-once, run-anywhere” paradigm**
- **Use System z Application Assist Processors (zAAPs) on z9-EC, z9-BC, z990 and z890 machines**
- **Leverage traditional System z benefits:**
  - Availability, Scalability, Reliability and Performance
- **Java APIs at the SDK 6 level**
- **Java Record I/O (JRIO)**
- **JZOS Support**
- **XML Support**
- **Exploits enhanced z/OS linkage capabilities (XPLINK)**
- **IBMJSSE2 is the sole JSSE Security provider**
- **System Authorization Facility (SAF) and cryptographic support**
  
- **This is a **no-charge** product**
- **Requires z/OS V1R7 or z/OS.E V1R7 or later**
- **Requires zSeries or System z processor**

## IBM 31-bit SDK for z/OS Java Technology Edition V6

- Similar features as on previous foil but with fewer bits... 😊
- Use System z Application Assist Processors (zAAPs) on z9-EC, z9-BC, z990 and z890 machines
- Leverage traditional System z benefits:
  - Availability, Scalability, Reliability and Performance
- Java Record I/O (JRIO)
- JZOS Support
- XML Support
- Exploits enhanced z/OS linkage capabilities (XPLINK)
- IBMJSSE2 is the sole JSSE Security provider
- System Authorization Facility (SAF) and cryptographic support
- Just **half the cost** of the 64-bit SDK !
- Requires z/OS V1R7 or z/OS.E V1R7 or later
- Requires zSeries or System z processor

## IBM Enterprise Cobol for z/OS V4R1

- **XML GENERATE** allows more flexibility and control over the form of the XML document
- **XML PARSE** support is enhanced
  - z/OS XML System Services is now supported as a parser
  - Makes latest IBM parsing technology available to COBOL users
  - Offload COBOL XML parsing to speciality processors (zAAPs)
  - Improved support for parsing XML documents that use XML namespaces
- **Enhanced performance of COBOL application programs with use of new z/Architecture instructions**
- **Performance of COBOL UNICODE support has been significantly improved**
- **Enhanced DB2 support and exploitation of DB2 V9**
- **Debug Tool for z/OS V8.1 now offered separately**
  - No distinction between Full / Alternate function

## Recent Redbooks

- **z/OS V1R9 Implementation Guide**
- **IMS V10 Implementation Guide: A Technical Overview**
- **Fibre Channel Protocol for Linux and z/VM on IBM System z**
- **IBM DB2 V9 for z/OS: New Tools for Query Optimization**
- **WebSphere Application Server V6.1 Problem Determination:**
  - IBM RedPaper Collection
- **Introduction to the new mainframe: z/VM Basics**
- **Security on z/VM**
- **Understanding SOA Security Design and Implementation**
- **Threadsafe considerations for CICS**

## Recent Redpapers

- **HFS to zFS migration tool**
- **IBM Tivoli Security and System z**
- **SSL Server Implementation for z/VM V5R2**
- **Index compression with DB2 V9 for z/OS**

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## Draft Redbooks

- **IBM System Storage DS8000: Copy Services with IBM System z**
- **IBM Virtualization Engine TS7700: Tape Virtualization for System z servers**
- **Exploring Systems Monitoring for CICS Transaction Gateway V7.1 for z/OS**
- **z/OS V1R8 DFSMS Technical Update**
- **IBM System Storage DS8000 series: Architecture and Implementation**
- **San Volume Controller: Best practices and Performance Guidelines**
- **Communications Server for z/OS V1R9 TCP/IP Implementation Volume 3:**
  - High Availability, Scalability and Performance
- **ABC's of Systems Programming Volume 1**
- **End to end planning for availability and performance monitoring**
- **Monitoring System z cryptographic services**

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