



Application Developers Controlled Distribution, (ADCD) z/OS Release 1.9 (12/2007)

Product 5799-HHC
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IMPORTANT INFORMATION !!PLEASE READ!!

Disclaimer

The z/OS Application Developer's Controlled Distribution DVD packet is a special packaging of z/OS Software for the exclusive use of product development and support. It is restricted for use by qualified PartnerWorld for Developers members on S/390 development systems that were purchased through our program, or through approved IBM Business Partners that are fully authorized to sell the FLEX-ES emulator from Fundamental Software, Inc.. The S/390 ADCD SW stack is licensed to the specific system by machine type/model serial number and cannot be transferred to any other machine. Use of the S/390 ADCD SW on any other system or SW emulator is strictly prohibited and is in violation of the terms and conditions of the loan agreement.

License

The ADCD is a customization of z/OS and related products. It is not an IBM program product and is not supported as a product. The intent of the ADCD is allow a user a way to quickly implement a z/OS system in order to concentrate on application development. In general choice of parameters and customizations are default install options with some changes due to user experiences.

Qualified members with FLEX-ES based xSeries or Thinkpad

development systems will need to have a signed ADCD license agreement on file with IBM prior to receiving a copy of the z/OS ADCD.

Please view the instructions at :

<http://www.developer.ibm.com/zseries/license.html>.

System Requirements

The currently supported ADCD environments are:

- z/OS 1.8 December 2006 under Red Hat and Flex
- z/OS 1.8S June 2007 under Red Hat and Flex
- z/OS 1.9 December 2007 under Red Hat and Flex
- z/OS 1.5 on the MP3000. ADCD customization and install support only. Defect support for z/OS 1.5 is no longer available through IBM. See [Status of MP3000](#)

ADCD z/OS requires a minimum of xseries or thinkpad systems running FLEX from Fundamental Software Inc. P/390, R/390, and Integrated Servers are no longer supported. The distributed ADCD packet is in Linux gzip and Flex ckdbackup format. The packets will not load on AWS emulated systems.

If you receive a current ADCD z/OS shipment and have only an MP3000 system do not attempt to load the packet. The dvd's will error when trying to unzip.

Downloads

A procedure for obtaining CICS, DB2, IMS, WAS, and z/OS 1.5 at various formats is found at [Subsystem Downloads](#).

Additional Information

For additional information and documentation regarding previous ADCD releases please go to the website at dtsc.dfw.ibm.com.

Special Handling of Infoprint Server Transforms

PLEASE NOTE: Product 5694-A01 IBM Infoprint Server Transforms for z/OS is included in this software stack but is disabled. You are NOT licensed to use this code and can not use this product or any of its components as part of the loaned software ADCD system. If you want to use these products you MUST purchase them by contacting IBM at 1-800-CALL-IBM. Only after a valid license is obtained can the product be enabled.

Customization Help and Location of Product PGMDIR's

A great deal of effort has gone into the ADCD to customize the products. However, you may find some products that are not fully customized or are customized with options that you need to change. Included in this release, are files in the format of p.SVSC.l where p=product HLQ and l=library name. The purpose of these files is to provide PGMDIR's, README, and INSTALL instructions. This ADCD is built from a driver system that uses different volume and library names. Thus, you will notice that the names referenced in the SVSC files are different than the ADCD. You may need to make translations on names to implement in the ADCD. Include on DVD1 on the RES1 volume are datasets with HLQ of MVS.ZOSRxx that document MVS. The MVS PGMDIR is contained in this grouping.

Contents of DVD's

Note: Each DVD contains a DVDx file. This file is an executable file under Linux for a standard (non-raw) type of unload. The executable file will first format the required disk. Then unzip and restore the 3390 data.

DVD Disk 1

FILE	DESCRIPTION
DVD1	Unloads the entire DVD
ures1	Contains the unload commands for Z9RES1
ures2	Contains the unload commands for Z9RES2
ures3	Contains the unload commands for Z9RES3
usys1	Contains the unload commands for Z9SYS1
uuss1	Contains the unload commands for Z9USS1
uprd1	Contains the unload commands for Z9PRD1
usares1	Contains the unload commands for sares1
defz9	Flex Definition file that was used in testing the ADCD
shz9	Flex Shell file that was used in testing the ADCD
readme.html	Initial Readme file
z9res1.gz	RES Volume 1 - Required for IPL
z9res2.gz	RES Volume 2 - Required for IPL
z9res3.gz	RES Volume 3 - Required for IPL
z9sys1.gz	System volume 1 - Required for IPL
z9uss1.gz	UNIX Services Volume 1 - Required for IPL
z9prd1.gz	Product Target - Not required for IPL
sares1.gz	Standalone Res volume - single volume IPL

DVD Disk 2

FILE	DESCRIPTION
DVD2	Unloads the entire DVD

udis1	Contains the unload commands for Z9DIS1
udis2	Contains the unload commands for Z9DIS2
udis3	Contains the unload commands for Z9DIS3
udis4	Contains the unload commands for Z9DIS4
udis5	Contains the unload commands for Z9DIS5
udis6	Contains the unload commands for Z9DIS6
z9dis1.gz	Distribution Volume 1
z9dis2.gz	Distribution Volume 2
z9dis3.gz	Distribution Volume 3
z9dis4.gz	Distribution Volume 4
z9dis5.gz	Distribution Volume 5
z9dis6.gz	Distribution Volume 6

DVD Disk 3

FILE	DESCRIPTION
DVD3	Unloads the entire DVD
ucic1	Contains the unload commands for Z9CIC1
uims1	Contains the unload commands for Z9IMS1
udb81	Contains the unload commands for Z9DB81
udb82	Contains the unload commands for Z9DB82
udb91	Contains the unload commands for Z9DB91
udb92	Contains the unload commands for Z9DB92
z9db81.gz	DB2 V8 Target
z9db82.gz	DB2 V8 Distribution Libs
z9db91.gz	DB2 V9 Target
z9db92.gz	DB2 V9 Distribution Libs and Utilities
z9cic1.gz	CICS TS 3.1 Target and Dlib
z9ims1.gz	IMS 9.1.0 Target and Dlib

DVD Disk 4

FILE	DESCRIPTION
DVD4	Unloads the entire DVD
uwas1	Contains the unload commands for Z9WAS1
uwas2	Contains the unload commands for Z9WAS2
uwas3	Contains the unload commands for Z9WAS3
z9was1.gz	Websphere Application Server Target
z9was2.gz	Websphere Application Server Dlibs
z9was3.gz	Websphere Application Server Dlib Websphere Process Server Websphere Enterprise Service Bus

What's New in this release

- z/OS 1.9 and related products upgraded to PUT0709
- PSF for z/OS 4.1.0
- Websphere Application Server 6.1.0
- Debug Tool Base 7.1.0
- FAULT ANALYZER/ 7.1.0
- FILE MANAGER Z/OS/ 7.1.0
- A new volume Z9PRD1 containing products that are not required for IPL.
- Catalog structure name changes
 - CATALOG.Z19.MASTER - Master Catalog found on Z9SYS1
 - USERCAT.Z19.PRODS - z/OS Product Catalog found on Z9RES2
 - USERCAT.Z19.CICS - CICS Catalog found on Z9CIC1
 - USERCAT.Z19.IMS - IMS Catalog found on Z9IMS1
 - USERCAT.Z19.DB2V8 - DB2V8 Catalog found on Z9DB81
 - USERCAT.Z19.DB2V9 - DB2V8 Catalog found on Z9DB91
 - USERCAT.Z19.WAS - Websphere catalog found on Z9WAS1
- ADCD Library names found in this release - all of the following reside on Z9RES1.
 - ADCD.Z19.PARMLIB
 - ADCD.Z19.PROCLIB
 - ADCD.Z19.TCPPARMS
 - ADCD.Z19.VTAMLIB
 - ADCD.Z19.VTAMLIST
 - ADCD.Z19.VTAM.SOURCE
 - ADCD.DYNISPF.ISPPLIB
 - ADCD.LIB.JCL
 - ADCD.Z19.CLIST
 - ADCD.Z19.DBS.ISPPLIB

- o ADCD.Z19.DBS1.ISPPLIB
- o ADCD.Z19.ISPPLIB
- o ADCD.Z19.LINKLIB
- o ADCD.Z19.LPALIB
- o ADCD.Z19.WLMIN

Products Contained in this Release

Table_1.Base

Product Number	Description	Fmid	Feature	HLQ
5655-M32	PSF for z/OS Base	HPRF410	HPRF410	APS410
5655-M32	UPLOAD FOR z/OS	HPRF417	HPRF417	APS410
5655-M32	ENHANCED AFP INDEXING FACILITY/BASE FUNCTION	HQN2231	HQN2231	APS410
5655-M32	Font Sample	H0HL140	H0HL140	APS410
5655-M32	Code Page	H0HL141	H0HL141	APS410
5655-M32	Code Page	H0HL15C	H0HL15C	APS410
5655-M32	Code Page	H0HL15D	H0HL15D	APS410
5655-M32	AFP Download Plus	HPRF410	JPRF411	APS410
5655-M32	Download for z/OS	HPRF410	JPRF412	APS410
5655-M32	Compats	H0HL15D	JOHL14S	APS410
5655-M32	Compats	H0HL141	JOHL143	APS410
5655-M32	Compats	H0HL15C	JOHL144	APS410
5698-SA3	SA z/OS Base Automation	HWRE310	HWRE310	AUT310
5698-SA3	SA z/OS CICS AUTO	HWRE310	JWRE31C	AUT310
5698-SA3	SA z/OS IMS AUTO	HWRE310	JWRE31I	AUT310
5698-SA3	SA z/OS UCE	HWRE310	JWRE312	AUT310
5655-M74	WEBSHERE EVENT BROKER	HEB6000	HEB6000	BIP600
5655-M74	WEBSHERE MESSAGE BROKER	HMB6000	HMB6000	BIP600
5655-M74	IBM WebSphere MQ for z/OS Base	HMS6000	HMS6000	CSQ600
5655-M74	IBM WebSphere MQ for z/OS US English ENU	HMS6000	JMS6001	CSQ600
5655-M74	IBM WebSphere MQ for z/OS Uppercase English ENP	HMS6000	JMS6004	CSQ600
5655-M74	IBM WebSphere MQ for z/OS Client Attachment	HMS6000	JMS6007	CSQ600
5655-M74	Java support	HMS6000	JMS6008	CSQ600
5694-A01	ICKDSF - Device Support Facilities, Base	EDU1H01	EDU1H01	SYS1

5694-A01	MVS Base	EMI2220	EMI2220	SYS1
5694-A01	MVS Base	ETI1106	ETI1106	SYS1
5694-A01	ICKDSF - Device Support Facilities, ISMF/MODS	EDU1H01	FDU1H07	SYS1
5694-A01	ICKDSF - Device Support Facilities, ISMF/ENU	EDU1H01	FDU1H08	SYS1
5694-A01	BCP Base	HBB7740	HBB7740	SYS1
5694-A01	MVS Base	HBCNC00	HBCNC00	SYS1
5694-A01	SMP/E Planning and Migration Assistant	HBCND0B	HBCND0B	SYS1
5694-A01	BDT	HBD6602	HBD6602	SYS1
5694-A01	Bookmanager	HBKM300	HBKM300	SYS1
5694-A01	Bookmanager	HBKP300	HBKP300	SYS1
5694-A01	Library Server	HBKQ320	HBKQ320	SYS1
5694-A01	Unix System Services	HCMG110	HCMG110	SYS1
5694-A01	Hardware Configuration Manager	HCM1910	HCM1910	SYS1
5694-A01	Cryptographic Services - System SSL Base	HCPT390	HCPT390	SYS1
5694-A01	Cryptographic Services - OCSF Base	HCRY740	HCRY740	SYS1
5694-A01	Cryptographic Services - ICSF	HCR7740	HCR7740	SYS1
5694-A01	Hardware Configuration Definition Base	HCS7740	HCS7740	SYS1
5694-A01	Network File System Server and Client	HDZ119N	HDZ119N	SYS1
5694-A01	Data Facility System Managed Storage Base & ENU	HDZ1190	HDZ1190	SYS1
5694-A01	FFST	HFST101	HFST101	SYS1
5694-A01	MVS Base	HFX1112	HFX1112	SYS1
5694-A01	MVS Base	HGD3200	HGD3200	SYS1
5694-A01	MVS Base	HGD3201	HGD3201	SYS1
5694-A01	ISPF Base	HIF5H02	HIF5H02	SYS1
5694-A01	IBM HTTP Server Base	HIMW530	HIMW530	SYS1
5694-A01	Communications Server IP	HIP6190	HIP6190	SYS1
5694-A01	Integrated Security Services - Enterprise Identit	HIT7730	HIT7730	SYS1
5694-A01	JES2 Base	HJE7740	HJE7740	SYS1
5694-A01	JES3	HJS7740	HJS7740	SYS1
5694-A01	Cryptographic Services - PKI Services	HKY7740	HKY7740	SYS1
5694-A01	XL C/C++ Base	HLB7740	HLB7740	SYS1
5694-A01	Language Environment Base	HLE7740	HLE7740	SYS1

5694-A01	DCE Base Services	HMB3190	HMB3190	SYS1
5694-A01	Infoprint Server - IP PrintWay Base	HMOS705	HMOS705	SYS1
5694-A01	SMP/E Base	HMP1G00	HMP1G00	SYS1
5694-A01	High Level Assembler Base	HMQ4150	HMQ4150	SYS1
5694-A01	Managed System Infrastructure for Setup - Framework	HMSI707	HMSI707	SYS1
5694-A01	Managed System Infrastructure for Setup - DFSMS S	HMSI737	HMSI737	SYS1
5694-A01	Infoprint Server - NetSpool Base	HNET730	HNET730	SYS1
5694-A01	Infoprint Server - Print Interface Base	HOP1730	HOP1730	SYS1
5694-A01	z/OS UNIX System Services Application Services Ba	HOT7740	HOT7740	SYS1
5694-A01	CIM Server Runtime Environment	HPG2900	HPG2900	SYS1
5694-A01	TBD - Missing Desc	HPMG110	HPMG110	SYS1
5694-A01	BCP - Program Management Binder	HPM7740	HPM7740	SYS1
5694-A01	BCP - Capacity Provisioning	HPV7740	HPV7740	SYS1
5694-A01	SDSF Base	HQX7740	HQX7740	SYS1
5694-A01	Security Server - RACF Base	HRF7740	HRF7740	SYS1
5694-A01	RMF Base	HRM7740	HRM7740	SYS1
5694-A01	Integrated Security Services - Open Crypto Enhanc	HRO7740	HRO7740	SYS1
5694-A01	IBM Tivoli Directory Server for z/OS Base	HRSL380	HRSL380	SYS1
5694-A01	SecureWay Security Server - DCE Base	HRSS190	HRSS190	SYS1
5694-A01	z/OS UNIX System Services-Integrated Call Level I	HSAP360	HSAP360	SYS1
5694-A01	Metal C Runtime Library	HSD7740	HSD7740	SYS1
5694-A01	DFSORT Base	HSM1H00	HSM1H00	SYS1
5694-A01	TBD - Missing Desc	HSWF100	HSWF100	SYS1
5694-A01	Integrated Security Services-Network Authenticati	HSWK390	HSWK390	SYS1
5694-A01	TSO/E Base	HTE7740	HTE7740	SYS1
5694-A01	Run-Time Library Extensions Base	HTV7740	HTV7740	SYS1
5694-A01	BCP - Support for Unicode Base	HUN7740	HUN7740	SYS1
5694-A01	Communications Server	HVT6190	HVT6190	SYS1

	SNA			
5694-A01	IBM Alternate Library for REXX on zSeries	HWJ9143	HWJ9143	SYS1
5694-A01	zSeries File System Base	HZFS390	HZFS390	SYS1
5694-A01	OSA/SF	H0GI400	H0GI400	SYS1
5694-A01	Distributed File Service Base	H0H2390	H0H2390	SYS1
5694-A01	MVS Base	H24P111	H24P111	SYS1
5694-A01	MVS Base	HBD6602	JBD6201	SYS1
5694-A01	MVS Base	HBD6602	JBD6202	SYS1
5694-A01	MVS Base	HBKM300	JBKM310	SYS1
5694-A01	MVS Base	HBKP300	JBKP310	SYS1
5694-A01	MVS Base	HGD3200	JGD3219	SYS1
5694-A01	IBM HTTP Server North America Secure	HIMW530	JIMW531	SYS1
5694-A01	Communications Server X11R4 XWindows	HIP6190	JIP619X	SYS1
5694-A01	Communications Server HFS	HIP6190	JIP6199	SYS1
5694-A01	High Level Assembler Toolkit	HMQ4150	JMQ415A	SYS1
5694-A01	eServer OS Management CIM providers for z/OS	HPG2900	JPG290A	SYS1
5694-A01	CIM and SLP Client for Java(tm)	HPG2900	JPG290B	SYS1
5694-A01	Integrated Security Services - LDAP Server Base	HRSL380	JRSL38A	SYS1
5694-A01	DFSORT ISPF ENU	HSM1H00	JSM1H01	SYS1
5694-A01	TSO/E ENU	HTE7740	JTE774E	SYS1
5655-103	DITTO/ESA base	H0GB310	H0GB310	DIT130
5655-R45	Debug Tool Base	HAC2710	HAC2710	EQA710
5655-R45	Debug Tool Utilities and Advanced Functions Base	HAC3710	HAC3710	EQA710
5695-014	IBM Library for REXX on zSeries	HWJ9140	HWJ9140	FAN140
5695-014	IBM Alternate Library for REXX on zSeries	HWJ9143	HWJ9143	FAN140
5695-014	IBM Compiler for REXX on zSeries	HWK0140	HWK0140	FAN140
5655-R47	FILE MANAGER Z/OS/BASE	HFIM710	HFIM710	FMN710
5655-R47	INTERACTIVE PANEL VIEWER	HVWR110	HVWR110	FMN710
5655-R47	FILE MANAGER Z/OS/DB2	HFIM710	JFIM712	FMN710
5655-R47	FILE MANAGER Z/OS/IMS	HFIM710	JFIM714	FMN710
5655-R47	FILE MANAGER Z/OS/CICS	HFIM710	JFIM716	FMN710

5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL24A	H0HL24A	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL24B	H0HL24B	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL24C	H0HL24C	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL24D	H0HL24D	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL24E	H0HL24E	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL24F	H0HL24F	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL24T	H0HL24T	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL24U	H0HL24U	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL24V	H0HL24V	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL24W	H0HL24W	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL24X	H0HL24X	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL24Y	H0HL24Y	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL24Z	H0HL24Z	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL240	H0HL240	FON210
5648-B33	AFT FONT	H0HL241	H0HL241	FON210

	COLLECTION FOR MVS OS390 VM AND VSE			
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL245	H0HL245	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL246	H0HL246	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL247	H0HL247	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL248	H0HL248	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL249	H0HL249	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL25A	H0HL25A	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL25B	H0HL25B	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL25D	H0HL25D	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL25E	H0HL25E	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL25F	H0HL25F	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL25G	H0HL25G	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL25H	H0HL25H	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL25I	H0HL25I	FON210
5648-B33	AFT FONT COLLECTION FOR	H0HL25J	H0HL25J	FON210

	MVS OS390 VM AND VSE			
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL25K	H0HL25K	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL250	H0HL250	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL251	H0HL251	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL252	H0HL252	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL253	H0HL253	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL254	H0HL254	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL255	H0HL255	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL256	H0HL256	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL257	H0HL257	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL258	H0HL258	FON210
5648-B33	AFT FONT COLLECTION FOR MVS OS390 VM AND VSE	H0HL259	H0HL259	FON210
5655-JAV	VA JAVA COMP ENU	H0A5201	H0A5201	HPJ200
5655-JAV	VA JAVA RTL ENU	H0A5202	H0A5202	HPJ200
5655-R46	FAULT ANALYZER/BASE	HAC4710	HAC4710	IDI710
5655-H31	IBM ENTERPRISE PL/I FOR Z/OS	H270360	H270360	IEL360
5655-H31	IBM ENTERPRISE PL/I FOR Z/OS FEATURE	H270360	J270361	IEL360
5655-G53	IBM ENTERPRISE	H26L340	H26L340	IGY340

	COBOL FOR Z/OS BASE			
5655-G53	IBM ENTERPRISE COBOL FOR Z/OS HFS	H26L340	J26L34H	IGY340
5655-G53	IBM ENTERPRISE COBOL FOR Z/OS ENU	H26L340	J26L341	IGY340
5655-B85	C/C++ Productivity Tools Base	HCKVB00	HCKVB00	IPT110
5655-B85	C/C++ Productivity Tools Base	H0GP110	H0GP110	IPT110
5655-B85	C/C++ Productivity Tools Base	H24P111	H24P111	IPT110
5655-B85	C/C++ Productivity Tools Base	HCKVB00	JCKVB03	IPT110
5655-B85	C/C++ Productivity Tools Base	HCKVB00	JCKVB05	IPT110
5655-B85	C/C++ Productivity Tools Base	H24P111	J24P112	IPT110
5655-I39	WORKLOAD SIMULATOR BASE	H281110	H281110	ITP110
5655-J51	XML Toolkit for z/OS	HXML190	HXML190	IXM190
5655-I56	IBM SDK for z/OS, Java 2 Technology Edition	HJVA140	HJVA140	JVA140
5748-XX9	DOCUMENT COMPOSITION FACILITY	HQG1406	HQG1406	DCF140
5748-XX9	DOCUMENT COMPOSITION FACILITY	HSR1401	HSR1401	DCF140
5748-XX9	DOCUMENT COMPOSITION FACILITY	JQG1410	JQG1410	DCF140
5748-XX9	DOCUMENT COMPOSITION FACILITY	HSR1401	JSR1411	DCF140
5748-XX9	DOCUMENT COMPOSITION FACILITY	HSR1401	JSR1413	DCF140
5697- ENV	Tivoli NetView System Services Base	HENV520	HENV520	NET520
5697- ENV	Tivoli NetView System Services ENU	HENV520	JENV521	NET520
5697- ENV	Tivoli NetView Enterprise Base	HENV520	JENV523	NET520
5697- ENV	Tivoli NetView Enterprise English	HENV520	JENV524	NET520

Table_2. DB2

Product Number	Description	Fmid	Feature	HLQ
5625-DB2	DB2	HDAS810	HDAS810	DSN810

	ADMINISTRATION SERVER			
5625-DB2	DB2 ONLINE HELP	HDB881A	HDB881A	DSN810
5625-DB2	DB2 BASE/TSO	HDB8810	HDB8810	DSN810
5625-DB2	DB2 RACF EXIT	HDRE810	HDRE810	DSN810
5625-DB2	IRLM	HIR2220	HIR2220	DSN810
5625-DB2	DB2 IMS/VIS ATTACH	HIY8810	HIY8810	DSN810
5625-DB2	DB2 SUBSYSTEM INIT	HIZ8810	HIZ8810	DSN810
5625-DB2	DB2 IAV EXTENDERS	HDB8810	JDB881B	DSN810
5625-DB2	DB2 Text Extender	HDB8810	JDB881C	DSN810
5625-DB2	390 ENABLEMENT TO DB2 MGMT CLIENTS PACKAGE	HDB8810	JDB881D	DSN810
5625-DB2	DB2 OPERATIONAL UTILITIES	HDB8810	JDB881K	DSN810
5625-DB2	DB2 DIAG/RECOVER UTILITIES	HDB8810	JDB881M	DSN810
5625-DB2	DB2 XML EXTENDER	HDB8810	JDB881X	DSN810
5625-DB2	DB2 JDBC/SQLJ SUPPORT	HDB8810	JDB8812	DSN810
5625-DB2	DB2 ENGLISH PANELS	HDB8810	JDB8814	DSN810
5625-DB2	DB2 ODBC BASE	HDB8810	JDB8817	DSN810
5655-160	DB2 REPLICATION COMMON LIBRARY FOR Z/OS	HAAW820	HAAW820	ASN820
5655-160	DB2 INFORMATION INTEGRATOR REPLICATION FOR Z/OS	HAAW821	HAAW821	ASN820
5655-160	DB2 DATAPROGATOR FOR Z/OS	HAAW822	HAAW822	ASN820
5625-DB2	DB2 Net Search Extender	HDB771N	HDB771N	DNE810
5625-DB2	QUERY MANAGEMENT FACILITY ENGLISH	HSQ8810	HSQ8810	QMF810
5625-DB2	NET.DATA/390	H242710	H242710	DTW810
5635-DB2	DB2 ADMINISTRATION SERVER	HDAS910	HDAS910	DSN910
5635-DB2	DB2 BASE/TSO	HDB9910	HDB9910	DSN910
5635-DB2	DB2 RACF EXIT	HDRE910	HDRE910	DSN910
5635-DB2	IRLM	HIR2220	HIR2220	DSN910
5635-DB2	DB2 IMS/VIS ATTACH	HIY9910	HIY9910	DSN910
5635-DB2	DB2 SUBSYSTEM INIT	HIZ9910	HIZ9910	DSN910
5635-DB2	Z/OS ENABLEMENT FOR DB2 CONTROL CENTER	HDB9910	JDB991D	DSN910
5635-DB2	DB2 OPERATIONAL UTILITIES	HDB9910	JDB991K	DSN910
5635-DB2	DB2 XML EXTENDER	HDB9910	JDB991X	DSN910

5635-DB2	DB2 JDBC/SQLJ Z/OS	HDB9910	JDB9912	DSN910
5635-DB2	DB2 ENGLISH PANELS	HDB9910	JDB9914	DSN910
5635-DB2	DB2 ODBC BASE	HDB9910	JDB9917	DSN910
5635-DB2	Z/OS APPLICATION CONNECTIVITY TO DB2 FOR Z/OS	HDDA211	HDDA211	ACD211
5697-L90	DB2 ADMINISTRATION TOOL FOR Z/OS	H0IH720	H0IH720	ADB720
5635-DB2	QUERY MANAGEMENT FACILITY ENGLISH	HSQ9910	HSQ9910	QMF910

Table_3. IMS 9.1.0

Product Number	Description	Fmid	Feature	HLQ
5655-J38	IRLM	HIR2220	HIR2220	IMS910
5655-J38	IMS SYSTEM SERVICES	HMK9900	HMK9900	IMS910
5655-J38	IMS DATABASE MANAGER	HMK9900	JMK9901	IMS910
5655-J38	IMS TRANSACTION MANAGER	HMK9900	JMK9902	IMS910
5655-J38	IMS EXT. TERMINAL OPT	HMK9900	JMK9903	IMS910
5655-J38	IMS RLT	HMK9900	JMK9904	IMS910
5655-J38	IMS DLT	HMK9900	JMK9905	IMS910
5655-J38	IMS JAVA	HMK9900	JMK9906	IMS910
5697-I08	IBM IMS CONNECT	HIC2220	HIC2220	IMSUTIL
5697-I08	IMS CONN FOR JAVA	HIC2221	HIC2221	IMSUTIL
5697-I08	IMS QUEUE CONTROL FACILITY	H0GN120	H0GN120	IMSUTIL
5697-I08	IMS HP LOAD	H1IM210	H1IM210	IMSUTIL
5697-I08	IMS HP UNLOAD	H1IN110	H1IN110	IMSUTIL
5697-I08	IMS HP PREFIX RESOLUTION	H1IP210	H1IP210	IMSUTIL
5697-I08	IMS SRG	H1J1110	H1J1110	IMSUTIL
5697-I08	DFR	H1J2220	H1J2220	IMSUTIL
5697-I08	IMS HD COMPRESSION EXTENDED	H22D220	H22D220	IMSUTIL
5697-I08	BTS	H22J310	H22J310	IMSUTIL
5697-I08	IMS DATABASE REPAIR FACILITY	H22K110	H22K110	IMSUTIL
5697-I08	IMS INDEX BUILDER	H22O230	H22O230	IMSUTIL
5697-I08	IMS PARALLEL REORG	H25N210	H25N210	IMSUTIL
5697-I08	IMS DATAPROPAGATOR	H25T310	H25T310	IMSUTIL
5697-I08	IMS MFS REVERSAL	H255110	H255110	IMSUTIL

	UTILITIES			
5697-I08	IMS DATABASE RECOVERY FACILITY FOR Z/OS	H27L210	H27L210	IMSUTIL
5697-I08	IMS HP Fast Path Utilities	H31A210	H31A210	IMSUTIL

Table_4.CICS TS 3.2

Product Number	Description	Fmid	Feature	HLQ
5655-M15	CICS CICS TS for z/OS V3.2	HBDD110	HBDD110	DFH320
5655-M15	CICS - Base	HCI6500	HCI6500	DFH320
5655-M15	CICS CICS TS for z/OS V3.2	H0B5110	H0B5110	DFH320
5655-M15	CICS CICS TS for z/OS V3.2	H0B7110	H0B7110	DFH320
5655-M15	CICS CICS TS for z/OS V3.2	H0Z2110	H0Z2110	DFH320
5655-M15	CICS - JAVA/IOP	HCI6500	JCI650D	DFH320
5655-M15	CICS - System Manager	HCI6500	JCI650M	DFH320
5655-M15	REXX Altlib for CICS	HCI6500	JCI650R	DFH320
5655-M15	CICS - WS Security	HCI6500	JCI650W	DFH320
5655-M15	CICS - COBOL feature	HCI6500	JCI6501	DFH320
5655-M15	CICS - PL/1 feature	HCI6500	JCI6502	DFH320
5655-M15	CICS - 'C' feature	HCI6500	JCI6503	DFH320

Table_5.Websphere

Product Number	Description	Fmid	Feature	HLQ
5655-N01	WebSphere Application Server for z/OS	H28W610	H28W610	WAS610
5655-N01	WebSphere Application Server for z/OS Optional Ma	H28W610	JIWO610	WAS610
5655-N53	WebSphere Process Server for z/OS	HWPS601	HWPS601	WPS601
5655-R15	WebSphere Enterprise Service Bus for z/OS	HESB601	HESB601	ESB501

Table_6.Tivoli

Product Number	Description	Fmid	Feature	HLQ
5698-A17	Tivoli Workload Scheduler for z/OS	HWSZ300	HWSZ300	TWS830

Information on Problems Found, Preventative Maintenance, Fixes

Reported Problems to Date 01/10/2008

IGGN504A Error upon IPL.

The following error may occur upon IPL for the first time.

```
IGGN504A SPECIFY UNIT FOR CATALOG.Z19.MASTER ON
Z9SYS1
```

This error is caused by a z/OS 1.9 defect that does not correctly service emulated IO devices. This message occurs when more than 64 devices exist in the Flex definition file. The fixing PTF is UA37111 which is now in a closed status. The fixing PTF can either be obtained through normal IBM support channels or through the ADCD download process, [Subsystem Downloads](#).

The following process can be used to fix this defect. This is information only. You will need to download the PTF from a secure site as noted above. This process information is repeated on the download site.

1. IPL your ADCD z/OS 1.9 system with on the necessary volumes. For example use the defz9 flex definition that is distributed on DVD1 of the ADCD packet. Minimal requirements for IPL and applying this PTF are the 3390-3 volumes, Z9RES1, Z9RES2, Z9RES3, Z9SYS1, Z9USS1, and Z9DIS1.
2. Obtain the fixing PTF by downloading:

```
HTTPD1.ZT186.HDL.ADCD.UA37111.BIN
```

The bin file when placed in a z/OS 1.9 system needs to be a record length (LRECL) of 80. This is a z/OS object file that will be linkedited during the apply processing. The file needs to be transferred as a binary file.

The bin file is in tso xmit format. You will need to transfer the bin file to the running z/OS 1.9 system. Then either use the TSO receive command or run the following sample job. Assume the downloaded binary file is contained in 'ADCD.UA37111.BIN'.

```
//TSO          EXEC PGM=IKJEFT01 , DYNAMNBR=100
//SYSPRINT DD   SYSOUT=*
//SYSTSPRT DD   SYSOUT=*
//SYSTSIN DD   *
RECEIVE INDA('ADCD.UA37111.BIN')
DA('ADCD.UA37111.PTF')
/*
```

3. Run the following SMPE jobs.

```
//*      Receive PTF UA37111
//S1          EXEC PGM=GIMSMP,
//            PARM= 'PROCESS=WAIT' ,
//            DYNAMNBR=120
//SMPCSI     DD DISP=SHR,DSN=MVS.GLOBAL.CSI
//SMPPTS     DD DISP=SHR,DSN=MVS.GLOBAL.SMPPTS1
//SMPPTFIN   DD DISP=SHR,DSN=ADCD.UA37111.PTF
//SMPHOLD    DD DUMMY                                F
//*
//*
//SMPCNTL    DD *
              SET      BOUNDARY (GLOBAL) .
              RECEIVE .
```

Return code from this job should be 0.

```
//*      Apply PTF UA37111
//S1          EXEC PGM=GIMSMP,
//            PARM= 'PROCESS=WAIT' ,
//            DYNAMNBR=120
//SMPCSI     DD DISP=SHR,DSN=MVS.GLOBAL.CSI
//SMPPTS     DD DISP=SHR,DSN=MVS.GLOBAL.SMPPTS1
//*
//*
//SMPCNTL    DD *
              SET      BOUNDARY (MVST) .
              APPLY
                  REDO
                  SELECT (UA37111)
                          BYPASS (HOLDSYSTEM(IPL)) RETRY(YES) .
```

You will receive GIM42001W with return code of 4 to indicate that you have bypassed HOLDSYSTEM(IPL). The Hold information for this PTF states that an IPL with CLPA is required. Any of the ADCD loadparms that perform a cold start will satisfy this requirement. Any other return code of 4 or higher should be investigated.

Note it is customary to first perform an apply check on the PTF to insure the PTF will go on correctly.

Click [here](#) to display the output from a successful apply of this PTF.

4. Shutdown your active z/OS 1.9 system. Stop you Flex resource. Start your original Flex definition file that caused the error. IPL your original system. This PTF and procedure corrected this defect in the ADCD build and test lab.
5. If problems persist contact your IBM ADCD Flex support group.

Incorrect gzip file names

Due to an error in the ADCD build process, the following list of zip files are incorrectly named.

Gzip File	z/OS volume
z9prd1.gz	z9cic1
z9dis1.gz	z9prd1
z9dis2.gz	z9dis1
z9dis3.gz	z9dis2
z9dis4.gz	z9dis3
z9dis5.gz	z9dis4
z9dis6.gz	z9dis5
z9cic1.gz	z9dis6

Follow the instructions in the readme of the FIX DVD that is included in the ADCD distribution. The FIX DVD includes the above files with the correct names. Unload the appropriate file from the FIX DVD instead of DVD1, DVD2, or DVD3 distribution.

SARES1 volume included on DVD1 is z/OS 1.8.

The standalone restore volume, SARES1, is a z/OS 1.8 system. If you wish to obtain a SARES1 volume containing z/OS 1.9, please send a note to etpadmin@us.ibm.com.

Build Structure

Z9RES1 Z9RES2 Z9RES3

Z9RES1 is a 3390-3 volume that contains the base MVS system software target, or run-time libraries, and other system data sets required to IPL the system and use TSO/E and ISPF. This is the MVS IPL volume. This release uses the extended indirect catalog feature with &SYSR1 in the master catalog.

Z9RES2 and Z9RES3 are 3390-3 volumes that are an extension of the SYSRES volume Z9RES1. The two volumes are also required for IPL. The release utilizes the extended indirect cataloging feature with &SYSR2 and &SYSR3 in the master catalog. Z9RES2 contains the usercatalog USERCAT.Z19.PRODS containing entries for z/OS related products.

Z9SYS1

This 3390-3 volume contains data sets that you might change, either through normal use of the system or user customization. All USER.xxxxxx datasets are on this volume. System control data sets, such as SYS1.IPLPARM, the RACF database, IODF (I/O Definition File), and system's master catalog (CATALOG.Z19.MASTER) reside on this volume. This volume is required to IPL.

Z9USS1

Z9USS1 is a 3390-3 volume that contains all HFS files for UNIX System Services of z/OS. The volume contains the ROOT and Version HFS files. This volume is required to IPL.

Z9PRD1

Z9PRD1 is a 3390-3 volume that contains all z/OS products that are not required to IPL as delivered. If the products are customized at some future date i.e. parmlib members updated, then this volume may be required for IPL.

Z9DIS1, Z9DIS2, Z9DIS3, Z9DIS4, Z9DIS5, Z9DIS6

These volumes contains the base MVS system software distribution libraries. They contain the DLIB (Distribution Library) and zone CSI's. These volumes need not be present to IPL, but are needed to install service or products on the MVS system using SMP/E. These volumes are all 3390-3.

Z9DB81 Z9DB82

Z9DB81 is a 3390-3 volume that contains DB2 V8 related data. Z9DB81 contains the DB2 usercatlog, USERCATALOG.Z19.DB2V8. Also Z9DB81 contains All DB2 target libs, DB2 Catalog databases, and databases created by some IVP processing. This volume is not required to IPL but is required to bring up DB2 V8.

Z9DB82 is a 3390-3 volume that contains DB2 V9 DLIB and CSI's. Also contained are target and dlib for various DB2 V9 utility products. The volume is not required for IPL but is needed to apply DB2 maintenance and run DB2 utilities, i.e. QMF

Z9DB91 Z9DB92

Z9DB91 is a 3390-3 volume that contains DB2 V9 related data. Z9DB91 contains the DB2 usercatlog, USERCATALOG.Z19.DB2V9. Also Z9DB91 contains All DB2 target libs, DB2 Catalog databases, and databases created by some IVP processing. This volume is not required to IPL but is required to bring up DB2 V9.

Z9DB92 is a 3390-3 volume that contains DB2 V9 DLIB and CSI's. Also contained are target and dlib for various DB2 V9 utility products. The volume is not required for IPL but is needed to apply DB2 maintenance and run DB2 utilities, i.e. DB2 Admin Utility and QMF.

Z9CIC1

Z9CIC1 is a 3390-3 volume that contains CICS Target, DLIB and all related data for CICS. USERCATALOG.Z19.CICS resides on this volume. This volume is not required to IPL but is required to bring up CICS.

Z9WAS1, Z9WAS2, Z9WAS3

Z9WAS1 is a 3390-3 volume that contains Websphere Application Services Target libraries. Z9WAS2 is a 3390-3 volume that contains Websphere Application Services Distribution libraries. Z9WAS3 is a 3390-3 volume that contains one Websphere Application Services Distribution library that is very large. Also contains the target and dlib for Websphere Process Server and Websphere Enterprise Server Bus. These volumes are not required to IPL but Z9WAS1 is required to bring up Websphere Application Services. Z9WAS3 is required to run and maintain Websphere Process Server and Websphere Enterprise Server Bus. Z9WAS2 and Z9WAS3 are required to perform maintenance on Websphere Application Services.

Z9IMS1

Z9IMS1 is a 3390-3 volume that contains IMS Target, DLIB and all related data for IMS. USERCATALOG.Z19.IMS resides on this volume. This volume is not required to IPL but is required to bring up IMS.

SARES1

This 3390-3 volume contains a single volume stand alone system. This volume can be used to IPL and logon to a TSO/ISPF session.

The disk volume can assist in building LPAR environments and correct errors that prevent system IPL.

Recommended use of this volume is to install the volume and leave accessible. The volume should not be altered. The volume should stay in a background mode and be available for emergency type of situations. If other z/OS, OS/390, or LPAR partitions contain errors, the SARES1 volume could be used to solve the problem.

The stand alone system does not contain TCPIP or Unix system service support. The system cannot be used to install products or apply maintenance via SMP/E.

To IPL the standalone res volume:

Load Address: 0Axx
Load Parms: 0AxxSAM

System Guidelines

The following guidelines will make it easier for you to replace this level of system software with new levels built the same way.

- Only IBM-supplied system software should reside on Z9RES1, Z9RES2, Z9RES3, Z9PRD1, Z9DIS1, Z9DIS2, Z9DIS3, Z9DIS4, Z9DIS5, Z9DIS6 and Z9USS1. These volumes are intended to be replaced between releases. You should try to use alternatives to updating these volumes when possible.
- All changes to these volumes will be ****LOST**** when they

are replaced. You should keep a record of any changes made to them, and back-up your system on a regular scheduled basis.

- The ADCD does not contain a generalized migration utility or process. Each user has unique requirements. It is recommended that you build a migration plan based on your unique needs. The ADCD does have some assistance. The ADCD uses a system of concatenated libraries (see below) The highest level of concatenation is USER.xxxxxxxx. The ADCD distributes these libraries empty. It is recommended that the user place changes or overrides in these libraries. It is further recommended that the USER.xxxxxxxx libraries be backed up regularly. When a new ADCD release is installed the USER.xxxxxxxx libraries can be copied from backups to the new USER.xxxxxxxx libraries to provide instance migration of programs and parameters.
- The ADCD is distributed with a standard library concatenation for the following:

LINKLST
 PROCLIB (including TSO procedures)
 CLIST
 ISPPLIB (TSO panels)
 LPALIB
 PARMLIB
 VTAMLST
 VTAMLIB
 VTAM source

The configured order of concatenation is user, adcd developers, and z/OS system datasets. For example, the LINKLST concatenation would be as follows:

USER.LINKLIB
 ADCD.Z19.LINKLIB
 SYS1.LINKLIB

USER.xxxxx libraries have all been built on Z9SYS1 which is the only volume that is migrated.

USER.xxxxx will not be changed by ADCD or System processes; thus, user updates in USER.xxxxx will be retained between release levels. ADCD.Z19.xxxxx libraries are allocated on Z9RES1 and are the libraries that are used by ADCD developers. No RACF rules exist on these libraries; however, changes to these libraries could destroy customization necessary to bring up many products. In addition changes to ADCD.Z19.xxxxx libraries could be lost upon upgrade to the next release. SYS1.xxxxx libraries should NEVER be updated by users or ADCD development. System libraries should ONLY be updated through SMP/E install, maintenance processes, or like processes.

PLEASE NOTE: Changes to System libraries or ADCD pre-customization may corrupt your system and prevent or delay IBM support activities.

The correct procedure for a user update to system data is to:

- Copy the system data from SYS1.xxxxx or ADCD.xxxx to USER.xxxxx
- Edit, compile, or run user program against the USER.xxxx item

- Re-ipl, recycle system service, or re-logon to TSO

Removing a user update would be the reverse of the above procedure.

DVD Installation on Thinkpad or Netfinity using Flex-ES

Please consult with your re-seller vendor for the latest instructions on installation in your environment. On each DVD is a executable file DVDx. The file performs a standard flex install. Please consult FLEX or IBM Redbook manuals for use of flex raw installs. The raw install is not used in the ADCD due to possible uniqueness of the user hardware and flex software environment. A standard install consist of first formatting a Linux file into flex ckd format. Next the distributed gz file is unzipped and piped into a ckdrestore operation.

LOADPARMS Options

The following table list the pre-configured distributed loadparms.

Loadparms

LOADPARAM	Description
CS	CLPA and cold start of JES2. Base z/OS system functions i.e. no CICS, DB2, IMS, WAS, etc.
00	Warm start of JES2. Base z/OS system functions i.e. no CICS, DB2, IMS, WAS, etc.
WS	Warm start of JES2. Base z/OS system functions i.e. no CICS, DB2, IMS, WAS, etc.
DC	CLPA, brings in CICS LPA modules, cold start of JES2, starts up DB2 and CICS.
DB	Warmstart of JES2 and starts the DB2 and CICS.
DI	CLPA and cold start of JES2 and loads the IMS Libraries. IMS must be manually started.
CC	CLPA and cold start of JES2, loads the CICS Libraries, starts up CICS, no DB2.
CW	Warm start of JES2, and starts up CICS.
9C	CLPA, cold start of JES2, starts up DB2 V9 only.
9W	Warm start of JES2, starts up DB2 V9 only.
8C	CLPA, cold start of JES2, starts up DB2 v8 only.
8W	Warm start of JES2, starts up DB2 v8 only.
2C	CLPA, cold start of JES2, starts up DB2 v8 and DB2 v9.
2W	Warm start of JES2, starts up DB2 v8 and DB2 v9.
IC	CLPA and cold start of JES2 and load the IMS Libraries, start IMS, no DB2 or CICS.
IW	Warm start of JES2 start IMS, no DB2 or CICS.
AC	CLPA and cold start of JES2 load IMS and CICS libraries, start IMS, DB/2 v8, and CICS.
AW	Warmstart of JES2. start IMS, DB/2 v8, and CICS.
BC	CLPA and cold start of JES2, load WAS libraries, WAS is

	manually started
BW	Warmstart of JES2. WAS is manually started.

NOTE: JES2 should be cold started the first time you bring up the system. LoadParm is preset to 0A82CS.

Master Console PF Keys

Master Console PF Keys

ACTION	COMMAND
Display Devices	PF 1
Display 3270 Devices	PF 2
Clear Top of Screen	PF 3
Create a 10-line Display Area	PF 4
Display Address Space Information	PF 5
Display Outstanding Reply Requests and Error Messages	PF 6
Display PF Keys	PF 7
Scroll Display Area	PF 8
Display TSO Users	PF 9
Display Active Address Spaces	PF 10
Display Active Jobs	PF 11
Clear Bottom Screen	PF 12

USERIDS

The following TSO Userids and Passwords have already been set up on your system:

Table 38. Pre-Defined USERIDS

USERID	PASSWORD
ADCDMST (RACF special authority)	SYS1 or ADCDMST
IBMUSER (RACF special authority)	SYS1 or IBMUSER
SYSADM (DB2 and RACF special auth)	SYS1 or SYSADM
SYSOPR (DB2 and RACF special auth)	SYS1 or SYSOPR
ADCDA - ADCDZ	TEST
WEBADM	WEBADM
OPEN1 - OPEN3	SYS1

Maintenance Service Levels

All the products on the ADCD consist of maintenance that is in a closed status. A PTF that is still in open status or has other than a document hold at the time the ADCD was built would not be added to the ADCD. The following PUT levels may be minus PTFs that were open at build time. Also some functions may be better than the PUT level due to the addition of RSUs and individual PTFs. In general the following is valid.

- All functions of the base Z/OS 1.9 product are at PUT level 0709.
- All functions of the CICS TS3.2 are at PUT level 0709.
- The functions of the DB2 8.1.0 and DB2 9.1.0 base are at PUT level 0709.
The Application Connectivity for DB2 product is at PUT level 0703.
QMF 9.1.0 is at PUT 0708.
DB2 v8 utilities are at PUT level 0708.
- All functions of the IMS 9.1.0 are at PUT level 0709.
- All functions of the WAS 6.1.0 service level 6.1.0.11.

The ibmadcd@us.ibm.com email address has been discontinued. Contact [IBM Innovation Center, Dallas](#) for assistance.