

Adabas® Bridge for VSAM®

Version 5.1.1

Release Notes



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This document applies to Adabas Bridge for VSAM Version 5.1.1 and to all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

Readers' comments are welcomed. Comments may be addressed to the Documentation Department at the address on the back cover or to the following e-mail address:

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ADABAS BRIDGE FOR VSAM VERSION 5.1.1 RELEASE NOTES

Adabas Bridge for VSAM (AVB) version 5 supports current operating system environments, reintegrates and simplifies the code for OS/390 and VSE/ESA systems, and includes all known bug fixes.

Support for Previous Versions of AVB

Software AG plans to provide support for previous AVB releases and SMs as follows:

Release	Date Released	End-of-Support Date
Version 3.4.1 (VSE/ESA)	January 1996	April 2003
Version 4.2.1 (OS/390)	March 1998	April 2003
Version 5.1.1 (All)	May 2002	

Support for a version level will be provided through the month specified in the End-of-Support Date column.

Supported Environments

AVB version 5 supports the current releases of IBM OS/390, z/OS, and VSE/ESA operating platforms, as well as the latest versions of CICS for these platforms. It supports the CICS Transaction Server on OS/390 and VSE/ESA 2.4.

Operating Systems

AVB 5.1 supports the following operating systems:

- OS/390 version 2 release 6 and above
- z/OS version 1.1 and above
- VSE/ESA version 2.4 and above is the basis for CICS command-level interface support on the VSE platform. Macro-level code is not supported.

Note:

VSE CICS macro-level support is still provided by AVB version 3.4.1.

31-bit Processing

AVB 5.1 supports 31-bit processing including programs residing above the 16-megabyte line. Applications that make VSAM requests can reside above or below the 16-MB line: use AMODE=24, AMODE=31, RMODE 24, and RMODE ANY.

CICS Environment

OS/390 or z/OS

For OS/390, AVB version 5.1 supports CICS/ESA 4.1 and above and CICS/TS 1.1 and above.

CICS/ESA 4.1 requires the following IBM APAR/PTF levels:

- APAR PN81921 (addresses problems with EXEC CICS calls in the Resource Manager user exits)

Warning:

PN81921 must be applied before AVB 5.1 will function in a CICS 4.1 environment.

- PTF UN90903

AVB 5 supports the enhancements IBM has added to CICS/TS. In addition, several key enhancements provided with CICS/TS 1.1 and above, such as the CICS INQUIRE FILE exits, provide improved capabilities for AVB functions.

To successfully run AVB 5.1 under CICS/TS 1.3, IBM fix PTF number **UQ49289** is required. Without this fix, the IBM CICS CEMT transaction may ABENDSOC4 after the AVB 5.1 SPI exits are enabled and started.

VSE/ESA

For VSE/ESA, AVB version 5.1 supports CICS/TS for VSE version 1.1 and above.

CICS/TS 1.1 for VSE/ESA requires IBM APAR PQ49753 to assure proper execution of CEMT after the AVB SPI exit is installed and started.

Note:

When global file control and SPI exits are installed under VSE CICS/TS 1.1, the CECI transaction used to enter CICS VSAM commands may terminate abnormally. Software AG is working with IBM to resolve the problem. In the meantime, Software AG recommends not using CECI to simulate VSAM requests while the AVB global user exits (GLUEs) are active.

AVB Online Services Environment

AVB online services is written in Natural and runs under CICS. It requires Natural version 2.3 or above and is delivered on the tape in an INPL file and an error messages (ERRN) file.

Programming Languages and Compiler Levels

AVB version 5.1 provides expanded support for application languages including LE/370 versions. Support for LE/370 languages means that

- the AVB engine can handle more complicated array structures; and
- files with subscripted arrays have simpler MCTAB entries since offsets to subscript fields and array elements are no longer set in the MCTAB entry.

OS/390 or z/OS

Under OS/390, AVB version 5.1 supports applications written in the following languages:

- COBOL for OS/390 and COBOL LE
- PL/I and PL/I LE
- Assembler H and high-level Assembler
- RPGII (batch only)

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VSE/ESA

AVB 5.1 supports the following compiler levels under VSE/ESA:

- COBOL for VSE/ESA
- COBOL LE Version 1.1
- VSE PL/I Version 1, release level 6.0 and subsequent releases
- PL/I LE Version 1.1
- VSE RPGII release level 3.0 and subsequent releases (batch only)

Adabas Environment

AVB version 5.1 requires Adabas version 7.1.2 or above.

Two-byte file numbers and database IDs, long-alpha fields, and native Adabas read backwards features of Adabas are supported; however, not all Adabas features are supported.

Support for Unique Keys

When a primary key is defined, or a secondary key is defined as unique (MCTAB keyword **UNIQUE=Y**), the Adabas field definition for the 2-byte key field must specify the UQ option. Performance is improved because Adabas rather than AVB then enforces the unique value for the key.

Adabas fields are referenced by 2-character Adabas FDT names.

Adabas Link Routines for CICS

For CICS processing, a single CICS command-level link routine is used for both Adabas and AVB. The routine

- is compatible with all supported versions of Adabas. It supports 2-byte DBIDs and FNRs.
- supports Natural 3.1 and above and AVB concurrently with a single link routine.
- uses the CICS task-related user exit (TRUE). You must specify **AVB=YES** and **TRUE=YES** in the ADAGSET macro used when assembling the Adabas/CICS command-level components.

AVB version 5.1 requires the Adabas/CICS command-level link routine provided in the ACI library of Adabas version 7.1.2 or above. For VSE/ESA, Software AG recommends that you use the ACI components delivered with Adabas 7.1.3 or above. The link routine and supporting modules are no longer provided in the AVB 5.1 distribution libraries.

The Adabas ACI library may be used with the ADATRUE modules from the same library.

Notes:

1. *The macro-level Adabas link routine is not supported. A macro-level link routine or a version of the command-level link routine prior to that provided with Adabas 7.1.2 **cannot** be used with AVB version 5.1.*
2. *Supported levels of CICS do not support the OPID option for the CICS USERID field.*

Note that the ADAGSET parameter **UBPLOC** replaces the **MVS/XA** parameter used with versions of Adabas prior to 6.1.4.

CICS Macro-Level Code No Longer Supported

Command level CICS is supported under both OS/390 and VSE/ESA. Macro-level CICS is no longer supported under either operating system environment.

- CICS/TS does not permit execution of CICS macro-level code. Support for CICS/ESA releases prior to 4.1 has been dropped on OS/390. For VSE/ESA 2.4, the command-level AVB 5 components are supported.
- The Adabas/CICS command-level interfaces, file control GLUE (global user exit), and syncpoint TRUES (task-related user exits) have been modified to run under the CICS Transaction Server. This is a major change under VSE, where previous releases used CICS macro-level code for AVB processing. The code base between OS/390 and VSE/ESA 2.4 is shared wherever possible.

New Features and Enhancements

Shared Code Base for OS/390 and VSE/ESA

Adabas Bridge for VSAM (AVB) version 5.1.1 simplifies the code base and shares code between the OS/390 and VSE/ESA versions where possible. AVB version 5 has a single AVBPROG module for both operating environments and shares CICS modules such as AVBCICS0, AVBCICS1, AVBCICS2, AVBCICS3, and AVBCICS9.

Online Services Application

AVB online services is written in Natural and runs under CICS. You can now activate and deactivate AVB online, modify the file status (open, closed, VSAM), and display, print, or download various AVB information such as file definitions and statistics, the AVB options table, the AVB trace table, and the list of fixes (ZAPs) applied to AVB.

Simplified CICS Interface

AVB version 5 simplifies the CICS interface by reducing the need for “batch” component execution under CICS.

Dummy VSAM Datasets No Longer Required

AVB version 5 eliminates the need for “dummy” VSAM datasets in CICS regions, making the bridging of VSAM applications to Adabas more transparent.

Support for Native Adabas Read-Backward

Adabas Bridge for VSAM (AVB) version 5.1 implements Adabas native read-backward support to make AVB more closely compatible with Adabas version 7.1 and above.

AVB version 5 supports VSAM read-previous (read-backward) requests without using an Adabas hyperexit, as was required with earlier versions of AVB. It is no longer necessary to use the HEX25RBW or other hyperdescriptor exit in the Adabas nucleus address space or partition to support VSAM read-previous requests.

The AVB options table parameter READBWD is obsolete and has been removed from version 5.1.

Two-Byte Database ID and File Number Support

AVB version 5.1 supports two-byte database IDs and Adabas file numbers under z/OS, OS/390, and VSE/ESA.

SVC Screening Implemented

Adabas Bridge for VSAM (AVB) version 5.1 eliminates the Entire Platform Manager (EPM) and the global OPEN/CLOSE SVC intercepts under OS/390.

Instead, AVB version 5 uses OPEN/CLOSE SVC screening in batch under OS/390, which

- reduces the impact of AVB to only those address spaces where AVB is active;
- makes recovery from abnormal termination safer and easier by limiting the impact of a failed program to the address space where the failure occurs;
- makes installation easier since AVB 5 has no “system-wide” impact; and
- permits the use of tighter security coding practices making AVB 5 more secure than its predecessors.

Integration with IBM's LE

AVB version 5 provides better integration with IBM's 3GL LE facilities on both OS/390 and VSE/ESA 2.4. In addition, the "LE only" restriction for batch operation has been dropped.

The new LE integration promotes common interfaces for supporting facilities such as internal sorts and error recovery in complex run-time units involving more than one application running under the auspices of AVB. This in turn enhances AVB's capabilities in modern complex environments where 3GLs, Natural, and products like CA/SORT must coexist.

Features No Longer Supported

- Entire Platform Manager (EPM) has been dropped in favor of SVC screening of open and close under OS/390 in batch.
- Support has been dropped for Adabas 4 format buffers. This simplifies the code base in AVBPROG and AVBPROGB and makes it easier to code the AVB transparency tables.

Compatibility and Migration Requirements

Compatibility with Other Versions of this Product

AVB 5 is not downward compatible with earlier versions of AVB; earlier versions of AVB are not upward compatible with AVB 5. In particular, you must reprogram the AVB transparency tables you used in previous versions of AVB.

It is not possible to mix AVB 5.1 and earlier versions of AVB in the same (MVS) OS/390 or z/OS system, which precludes mixing AVB 5.1 and the CICS regions of earlier versions of AVB in the same OS/390 image.

Earlier macro-level AVB code is not executable under the version of CICS delivered with VSE/ESA 2.4 and supported by AVB 5.1.

Under VSE/ESA, the IBM high-level assembler is required to assemble AVB source components. All macros and copy code used by AVB are delivered as ".A" books in the AVB VSE library. No ".E" books are delivered with AVB 5.1.

Migration

Important:

All existing AVB applications must be migrated to AVB version 5.1.

The global EPM open/close intercepts used by AVB 4.1 and 4.2 under MVS are incompatible with the SVC screening approach that is implemented in AVB 5.

It is also not possible to mix components in the CICS environment because the GLUEs and TRUEs are incompatible between AVB 5 and earlier releases of AVB.

This impacts existing AVB customers while they test AVB version 5 on systems that already use AVB version 4.1 or 4.2. AVB version 4.2 customers can at least activate and deactivate the EPM open/close intercepts dynamically to allow the testing of AVB version 5.

- It is not possible to run AVB version 5.1 batch applications while the EPM components of AVB version 4.1 or 4.2 are active.
- If the CICS AVB components have all been upgraded to AVB version 5.1, it should be possible to run AVB version 5.1 transactions under CICS/TS while the AVB version 4 EPM intercepts are active for batch use in an OS/390 system.
- It is not possible to mix AVB version 4 components with AVB version 5.1 components in a given CICS region. Software AG also does not recommend mixing AVB version 5.1 and AVB version 4 components in a CICS MRO or CICSplex environment.

Under VSE, the earlier macro-level AVB code is not executable under the CICS delivered with VSE/ESA 2.4 and above (CICS/TS for VSE). It is not possible to run AVB version 3.4 batch applications with AVB version 5.1 batch applications in the same VSE system due to changes in common AVB control blocks and changes in the structure of the AVB transparency table.



APPENDIX A—DISTRIBUTED LIBRARIES

This appendix lists the AVB distributed libraries for AVB version 5.1.1.

OS/390 or z/OS Libraries

Load Library

Member	Mode	Usage
AVBCICS	CICS	AVB Online Services interface routine
AVBCICSA	CICS	File control program SPI global user exit (GLUE)
AVBCICSV	CICS	AVB installation verification
AVBCICSZ	CICS	AVB emergency shutdown task-related user exit (TRUE)
AVBCICS0	CICS	Install AVB in CICS
AVBCICS1	CICS	AVB transaction AVB1
AVBCICS2	CICS	File control program global user exits (GLUES)
AVBCICS3	CICS	Syncpoint task-related user exit (TRUE)
AVBCICS4	CICS	AVB syncpoint activity table
AVBCICS5	CICS	AVB5 transaction (file/group OPEN/CLOSE)
AVBCICS6	CICS	AVB online display trace
AVBCICS7	CICS	AVB logo program
AVBCICS8	CICS	AVB online problem determination
AVBCICS9	CICS	AVB termination
AVBCOMIT	Batch	Handles user calls for ET/BT/C1/RE
AVBESTAE	Batch	AVB ESTAE exit; deactivates OPEN/CLOSE SVC screening in event of ABEND (ALIAS)
AVBETBT	Batch	Stub program that calls AVBCOMIT
AVBFIXTB	Batch/CICS	AVB fix number table
AVBHOOKC	Batch	Analyzes CLOSE requests (ALIAS)
AVBHOOKO	Batch	Analyzes OPEN requests (ALIAS)



Member	Mode	Usage
AVBHOOKR	Batch	Validates and processes access requests (ALIAS)
AVBLOAD	Batch	Initializes AVB in batch
AVBPROG	Batch/CICS	Adabas command analyzer/processor
AVBREQT	CICS	Adabas request handler TRUE
AVBRESMG	Batch	AVB clean-up resource manager routine
AVBRIDGE	Batch	AVB request analyzer
AVBSCRN	Batch	Determines whether OPEN/CLOSE will be handled by AVB or operating system (ALIAS)
AVBSOCNM	Batch	Includes AVBESTAE, AVBHOOKC, AVBHOOKO, AVBHOOKR, and AVBSCRN

Source Library

IVP = Installation-verification program

Member	Mode	Usage
\$INFO\$	N/A	General information about the library
AVBCICSG	CICS	Sample group table module for AVB5 transaction
AVBCICS4	CICS	SPP activity table
AVBCIVC1	CICS	COBOL II IVP for CICS
AVBCIVP	CICS	Assembler IVP for CICS (KSDS files)
AVBCIVPR	CICS	Assembler IVP for CICS (RRDS files)
AVBOPT	Batch/CICS	Sample options table
AVBPLI	Batch	Sample PL/I program (KSDS files)
AVBPLIE	Batch	Sample PL/I program (ESDS files)
AVBPLIR	Batch	Sample PL/I program (RRDS files)
AVBPLTPI	CICS	Sample PLTPI entry for AVB start-up program
AVBPLTSD	CICS	Sample PLTSD entry for AVB shut-down program
AVBTABB	Batch	Sample AVB transparency table for IVPs
AVBTABC	CICS	Sample transparency table for IVPs
AVB00001	Batch	Sample COBOL II KSDS program



Member	Mode	Usage
AVB00002	Batch	Sample COBOL II RRDS program
COBSTRT	Batch	Assembler front-end VS/COBOL interface module
COBUEX6	Batch	Sample Adabas user exit 6 (KSDS files)
COBUEX6R	Batch	Sample Adabas user exit 6 (RRDS files)
COBUSERT	Batch	COBOL interface for user exit 6
COB2ENV	Batch	Create COBOL/LE environment for user exit 6 (KSDS files)
COB2ENVR	Batch	Create COBOL/LE environment for user exit 6 (RRDS files)
DDCARD	Batch/CICS	ADARUN statements for DBID, SVC, and DEVICE
DEFAVBC	CICS	Sample CSD definitions for AVB
IVPDATA1	Batch	Test data for Assembler and COBOL IVP
IVPDATA2	Batch	Test data for COBOL IVP
IVPTAB	Batch	Sample transparency table
IVPTABB	Batch	Sample transparency table
MCACTT	CICS	Macro to define AVBCICS4 table
MCGLOBS	Batch/CICS	Macro to define operating system, AVB version, and mode (batch/CICS); invoked during installation
MCGROUP	CICS	Macro to define file OPEN/CLOSE groups (AVB5 transaction)
MCOPT	Batch/CICS	Macro to generate options table
MCPLN	Batch/CICS	Macro invoked by MCTAB
MCTAB	Batch/CICS	Macro to generate transparency table
MCTITLE	Batch/CICS	Macro to place a title line on assembly listings for AVB modules and tables
PLIDATA1	Batch	Test data for PL/I IVP
PLIDATA2	Batch	Test data for PL/I IVP
PLIDATA3	Batch	Test data for PL/I IVP



Jobs Library

IVP = Installation-verification program

JOB/PROC	Mode	Usage
\$INFO\$	N/A	General information about the library
ASMAVBB	Batch	Assemble AVB batch components
ASMAVBC	CICS	Assemble AVB CICS components
ASMCICSG	CICS	Assemble the AVBCICSG group file table (AVB5 transaction)
ASMCICS4	CICS	Assemble the AVBCICS4 syncpoint activity table
ASMCIVP	CICS	Preprocess, assemble, and link assembler KSDS IVP
ASMCIVR	CICS	Preprocess, assemble, and link assembler RRDS IVP
ASMOPT	Batch/CICS	Assemble the installation options table
ASMTABB	Batch	Assemble the batch transparency table
ASMTABC	CICS	Assemble the CICS transparency table
ASMUEX6	Batch	Assemble/compile and link user exit 6 for KSDS IVP
ASMUEX6R	Batch	Assemble/compile and link user exit 6 for RRDS IVP
AVBASM	Batch	Assemble AVB modules and tables
AVBCASM	CICS	Preprocess, assemble, and link CICS IVPs
AVBCCOM	Batch	Compile the COBOL KSDS IVP
AVBCCOMR	Batch	Compile the COBOL RRDS IVP
AVBCEXEC	Batch	Execute the COBOL KSDS IVP
AVBCEXER	Batch	Execute the COBOL RRDS IVP
AVBCOPY	Batch	Copy AVB modules to 'USER LINKLIB'
AVBCSDUP	CICS	Execute the batch CSD update utility
AVBC5LDR	Batch	Load the sample COBOL RRDS IVP Adabas file
AVBC5LOD	Batch	Load the sample COBOL KSDS IVP Adabas file
AVBINPL	CICS	Load the AVB Online Services data
AVBLOD5	Batch	Load the sample Adabas IVP files
AVBPCOM	Batch	Compile the sample PL/I IVP for KSDS
AVBPCOME	Batch	Compile the sample PL/I IVP for ESDS
AVBPCOMR	Batch	Compile the sample PL/I IVP for RRDS



JOB/PROC	Mode	Usage
AVBPEXEC	Batch	Execute the PL/I KSDS IVP
AVBPEXEE	Batch	Execute the PL/I ESDS IVP
AVBPEXER	Batch	Execute the PL/I RRDS IVP
AVBP5LDE	Batch	Load the PL/I sample ESDS IVP file into Adabas
AVBP5LDR	Batch	Load the PL/I sample RRDS IVP file into Adabas
AVBP5LOD	Batch	Load the PL/I sample KSDS IVP file into Adabas
COBAVB	Batch	Compile the sample AVB COBOL programs
COB2COMP	CICS	Preprocess, compile, and link a CICS COBOL II (or COBOL/LE) program for CICS
DEFGDG	Batch	Define a generation data group (GDG)
DEFIVPE	Batch	IDCAMS job to define the IVP ESDS cluster
DEFIVPR	Batch	IDCAMS job to define the IVP RRDS cluster
PASMAVB	CICS	Preprocess, assemble, and link AVB modules and tables
PLIAVB	Batch	Compile and link the PL/I IVPs
RUNAVB	Batch	Execute AVB in batch
USEGDG	Batch	Utilize a generation data group (GDG) for IPCS dump dataset
XAVBCBL	Batch	Execute COBOL batch IVPs
XAVBPLI	Batch	Execute PL/I batch IVPs



VSE/ESA AVB Libraries

The tables below list the members in the Adabas Bridge for VSAM sublibrary for VSE/ESA according to file type: phases, object modules, and source members.

Load Library (Phase)

The AVB library contains the following phases:

Phase	Mode	Usage
\$\$BAVBC1	Batch	B-transient used during file close
\$\$BAVBO1	Batch	B-transient used during file open
ADAUEX6	Batch	Sample Adabas user exit 6 for ADACMP used in an installation verification
ADAUEX6R	Batch	Sample Adabas user exit 6 for RRDS files
AVBAVBO2	Batch	Open transient extension
AVBCICS	CICS	AVB Online Services interface routine
AVBCICSA	CICS	AVB SPI global user exit (GLUE)
AVBCICSV	CICS	Installation verification program (IVP)
AVBCICSZ	CICS	AVB emergency shutdown task-related user exit (TRUE)
AVBCICS0	CICS	Automatic AVB initialization module
AVBCICS1	CICS	Transaction AVB1
AVBCICS2	CICS	AVB file control global user exit (GLUE)
AVBCICS3	CICS	Syncpoint task-related user exit (TRUE)
AVBCICS4	CICS	Syncpoint program (SPP) activity table
AVBCICS5	CICS	File open/close transaction
AVBCICS6	CICS	Online display trace program
AVBCICS7	CICS	AVB logo program
AVBCICS8	CICS	Online problem-determination program
AVBCICS9	CICS	AVB termination program
AVBCOB	Batch	KSDS IVP program compiled with VS/COBOL



Phase	Mode	Usage
AVBFIXTB	CICS	AVB table of fixes applied
AVBINST	Batch	Phase to install job control exit
AVBJBXT	Batch	AVB job control exit
AVBMSGS	Batch	Common messages module
AVBPROG	Batch/CICS	AVB request analyzer
AVBPVT	Batch	AVB VSE partition table
AVBREQT	CICS	AVB request handler TRUE
AVBRIDGE	Batch	AVB batch nucleus module
AVBSWI	Batch	Activates/deactivates AVBRIDGE

Object Library

Member	Mode	Usage
\$\$BAVBC1	Batch	B-transient used during file close
\$\$BAVBO1	Batch	B-transient used during file open
AVBABEND	Batch	Provides selective dumps
AVBAREAS	Batch	Reentrant anchor storage
AVBAVBO2	Batch	Open transient extension
AVBCICS	CICS	AVB Online Services Natural interface routine
AVBCICSA	CICS	AVB SPI global user exit (GLUE)
AVBCICSG	CICS	Sample AVB group file table
AVBCICSV	CICS	Installation verification program (IVP)
AVBCICSZ	CICS	AVB emergency shutdown task-related user exit (TRUE)
AVBCICS0	CICS	Automatic AVB initialization module
AVBCICS1	CICS	Transaction AVB1
AVBCICS2	CICS	AVB file control global user exit (GLUE)
AVBCICS3	CICS	Syncpoint task-related user exit (TRUE)
AVBCICS4	CICS	Syncpoint program (SPP) activity table
AVBCICS5	CICS	File open/close transaction



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Member	Mode	Usage
AVBCICS6	CICS	Online display trace program
AVBCICS7	CICS	AVB logo program
AVBCICS8	CICS	Online problem-determination program
AVBCICS9	CICS	AVB termination program
AVBETBT	Batch	Handles user calls for ET/BT/C1
AVBEXIT6	Batch	Sample AVB user exit
AVBFIXTB	CICS	AVB table of fixes applied
AVBHOOKC	Batch	Processes VSAM close requests
AVBHOOKO	Batch	Processes VSAM open requests
AVBHOOKR	Batch	Processes VSAM requests
AVBINIT	Batch	Initialization module
AVBINST	Batch	Module to install job control exit
AVBIOV	Batch	Common I/O module for AVB files
AVBJBXT	Batch	AVB job control exit
AVBMSGs	Batch	Common messages module
AVBPATCH	Batch/CICS	For Software AG internal use
AVBPROG	Batch/CICS	AVB request analyzer
AVBPROGB	Batch	AVB batch front-end
AVBPVT	Batch	AVB VSE partition table
AVBREQT	CICS	AVB request handler TRUE
AVBSTATS	Batch	Statistics module
AVBSWI	Batch	Activates/deactivates AVBRIDGE
AVBTERM	Batch	Termination module
AVBTRACE	Batch	Provides trace of VSAM request
AVBVCONS	Batch	Work areas
AVBWTO	Batch	WTO routine
COBSTRT	Batch	Sample user exit 6
COBUEx6	Batch	Sample Adabas user exit 6
COBUEx6R	Batch	Sample Adabas user exit 6 (RRDS files)



Member	Mode	Usage
COBUSERT	Batch	Sample user exit 6 (COBOL interface)
COB2ENV	Batch	Sample initialization routine for COBUEx6
COB2ENVR	Batch	Sample initialization routine for COBUEx6R

The following table lists the object modules that are used as input to the VSE/ESA linkage editor when applying maintenance with the MSHP utility:

Module	Link book for . . .
LNKBC1	\$\$BAVBC1
LNKBO1	\$\$BAVBO1 module
LNKBO2	AVBAVBO2 module
LNKBRDG	AVBRIDGE batch module
LNKCICS	AVBCICS
LNKCICSA	AVBCICSA
LNKCICSV	AVBCICSV
LNKCICSZ	AVBCICSZ
LNKCICS0	AVBCICS0
LNKCICS1	AVBCICS1
LNKCICS2	AVBCICS2
LNKCICS3	AVBCICS3
LNKCICS5	AVBCICS5
LNKCICS6	AVBCICS6
LNKCICS7	AVBCICS7
LNKCICS8	AVBCICS8
LNKCICS9	AVBCICS9
LNKFIXT	AVBfixTB
LNKINST	AVBINST
LNKJBXT	AVJBXT
LNKMSGs	AVBMSGs



Module	Link book for . . .
LNKPROG	AVBPROG
LNKREQT	AVBREQT
LNKSWI	AVBSWI

Source Library

Note:

IVP = installation verification program.

Member	Mode	Usage
AVBCICSG.A	CICS	Group table for AVB5 transaction
AVBCICS4.A	CICS	Sample AVB syncpoint activity table
AVBCIVP.A	CICS	IVP for CICS
AVBCIVR.A	CICS	IVP for CICS (RRDS)
AVBOPT.A	Batch/CICS	Sample options table
AVBPLTPI.A	CICS	Sample PLTPI table entries
AVBPLTSD.A	CICS	Sample PLTSD table entries
AVBPVT.A	Batch	Sample AVBPVT module set to define 20 dynamic partitions for VSE/ESA
AVBTAB.A	CICS	Sample AVB transparency table for CICS
COBSTRT.A	Batch	Sample user exit 6 (COBOL front-end for VSE)
COBUSERT.A	Batch	Sample user exit 6 (COBOL interface)
COB2ENV.A	Batch	Sample COBOL VSE initialization routine for COBUEX6
COB2ENVR.A	Batch	Sample COBOL VSE initialization routine for COBUEXR6
DEFAVBC.A	CICS	Sample CICS definitions for the CSD
IVPTAB.A	Batch	Sample Adabas transparency table
MCACTT.A	CICS	Macro to assemble AVBCICS4 syncpoint activity table
MCGLOBS.A	Batch/CICS	Book to define the operating system, AVB version, and mode (batch/CICS)



Member	Mode	Usage
MCGROUP.A	CICS	Book to assemble AVBCICSG.
MCOPT.A	Batch/CICS	Book to generate the options table at assembly time
MCPLN.A	Batch/CICS	Book invoked by MCTAB at assembly time
MCPVTA.A	Batch	Book to assemble the AVBPVT module for dynamic partition support
MCTAB.A	Batch/CICS	Book to generate the transparency table at assembly time
MCTITLE.A	Batch/CICS	Book to place a title line on assembly listings for AVB modules and tables
AVBCIVC1.C	CICS	Sample COBOL IVP
AVBCOB.C	Batch	Sample COBOL KSDS IVP
COBUEX6.C	Batch	Sample Adabas user exit 6
COBUEX6R.C	Batch	Sample Adabas user exit 6 (RRDS files)
ASMCICSG.X	CICS	Assemble CICS group table
ASMCICS4.X	CICS	Assemble AVBCICS4 table
ASMCIVP.X	CICS	Preprocess, assemble, and link the command-level IVP for CICS
ASMCIVR.X	CICS	Preprocess, assemble, and link the command-level IVP for CICS (RRDS)
ASMOPTB.X	Batch	Assemble options table
ASMOPTC.X	CICS	Assemble options table
ASMPVT.X	Batch	Assemble/catalog the AVBPVT object module
ASMTABB.X	Batch	Assemble/link IVPTAB
ASMTABC.X	CICS	Assemble/link AVB transparency table into the CICS core image library
ASMUEX6.X	Batch	Assemble/compile/link Adabas user exit 6 (COBSTRT, COBUSERT, and COBUEX6)
ASMUEX6R.X	Batch	Assemble/compile and link Adabas user exit 6 (RRDS)
AVBACT.X	Batch	Initial installation and activation of AVB
AVBCCOM.X	Batch	Compile and link the COBOL IVP
AVBCCOMR.X	Batch	Compile/link program for the COBOL IVP (RRDS)



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Member	Mode	Usage
AVBCEXEC.X	Batch	Execute COBOL IVP
AVBCEXER.X	Batch	Execute COBOL IVP (RRDS)
AVBCSDUP.X	CICS	Sample job to run the CSD update utility
AVBC5LDR.X	Batch	Load Adabas file for the COBOL IVP (RRDS)
AVBC5LOD.X	Batch	Load Adabas file for the COBOL IVP
AVBINPL.X	CICS	Load the AVB Online Services data
AVBLINKB.X	Batch	Link B-transients, AVBJBXT, AVBINST, AVBSWI, and AVBRIDGE phase
AVBLINKC.X	CICS	Link AVB modules into the CICS core image library
AVBLUEX6.X	Batch	Link Adabas user exit 6
AVBLUX6R.X	Batch	Link Adabas user exit 6 (RRDS files)
AVBPCOM.X	Batch	Compile and link the PL/I IVP
AVBPCOME.X	Batch	Compile and link the PL/I IVP (ESDS)
AVBPCOMR.X	Batch	Compile/link program for the PL/I IVP (RRDS)
AVBPEXEC.X	Batch	Execute PL/I IVP
AVBPEXEE.X	Batch	Execute PL/I IVP (ESDS)
AVBPEXER.X	Batch	Execute PL/I IVP (RRDS)
AVBPROC.X	Batch	Create AVBRIDGE PROC
AVBP5LDE.X	Batch	Load Adabas file for the PL/I IVP (ESDS)
AVBP5LDR.X	Batch	Load Adabas file for the PL/I IVP (RRDS)
AVBP5LOD.X	Batch	Load Adabas file for the PL/I IVP
AVBRCOM.X	Batch	Compile/link program for the RPGII IVP
AVBREXEC.X	Batch	Execute RPGII IVP
AVBR5LOD.X	Batch	Load Adabas file for the RPGII IVP
AVBZAP.X	Batch	Zap DTF for AVB trace file

Notes

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