

JCL/JCS Requirements and Examples

This section describes the job control information required to run ADAORD with BS2000, z/OS, and z/VSE systems and shows examples of each of the job streams.

Note:

When running with the optional Recovery Aid (ADARAI) for RESTRUCTURExx or STORE functions, all temporary data sets must also be cataloged in the job control.

This chapter covers the following topics:

- BS2000
- z/OS
- z/VSE

BS2000

Data Set	Link Name	Storage	More Information
Associator	DDASSORn	disk	
Data Storage	DDDATARn	disk	
Intermediate storage	DDFILEA	tape/ disk	
Recovery log (RLOG)	DDRLOGR1	disk	Required when using the ADARAI option
ADARUN parameters	SYSDTA/ DDCARD		<i>Operations</i>
ADAORD parameters	SYS/DTA/DDKARTE		
ADARUN messages	SYSOUT/ DDPRINT		<i>Messages and Codes</i>
ADAORD messages	SYSLST/ DDDRUCK		<i>Messages and Codes</i>

ADAORD JCL Examples (BS2000)

Reorder File Data Storage, Reorder File, Reorder Data, Reorder Database

In SDF Format:

```

/ .ADAORD LOGON
/ MODIFY-TEST-OPTIONS DUMP=YES
/ REMARK *
/ REMARK * A D A O R D REORDER FILE DATA, REORDER FILE, REORDER DATA
/ REMARK * REORDER DATABASE
/ REMARK *
/ DELETE-FILE ADAyyyyyy.FILEA
/ SET-JOB-STEP
/ CREATE-FILE ADAyyyyyy.FILEA, PUB( SPACE=( 4800 , 480 ) )
/ SET-JOB-STEP

```

```

/ASS-SYSLST L.ORD.DATA
/ASS-SYSDTA *SYSCMD
/SET-FILE-LINK DDLIB,ADAvrs.MOD
/SET-FILE-LINK DDASSOR1,ADAYyyyy.ASSO,SHARE-UPD=YES
/SET-FILE-LINK DDDATAR1,ADAYyyyy.DATA,SHARE-UPD=YES
/SET-FILE-LINK DDWORKR1,ADAYyyyy.WORK,SHARE-UPD=YES
/SET-FILE-LINK DDFILEA,ADAYyyyy.FILEA
/START-PROGRAM *M(ADA.MOD,ADARUN),PR-MO=ANY
ADARUN PROG=ADAORD,DB=yyyyyy,IDTNAME=ADABAS5B
ADAORD REORDATA FILE=1,DSSIZE=80,DATAFAC=30
/LOGOFF SYS-OUTPUT=DEL

```

In ISP Format:

```

/.ADAORD LOGON
/OPTION MSG=FB,DUMP=YES
/REMARK *
/REMARK * A D A O R D REORDER FILE DATA, REORDER FILE, REORDER DATA
/REMARK * REORDER DATABASE
/REMARK *
/SYSFILE SYSLST=L.ORD.DATA
/FILE ADA.MOD,LINK=DDLIB
/FILE ADAYyyyy.ASSO,LINK=DDASSOR1,SHARUPD=YES
/FILE ADAYyyyy.DATA,LINK=DDATAR1,SHARUPD=YES
/FILE ADAYyyyy.WORK,LINK=DDWORKR1,SHARUPD=YES
/FILE ADAYyyyy.FILEA,LINK=DDFILEA,SPACE=(4800,480)
/EXEC (ADARUN,ADA.MOD)
ADARUN PROG=ADAORD,DB=yyyyyy,IDTNAME=ADABAS5B
ADAORD REORDATA FILE=1,DSSIZE=80,DATAFAC=30
/LOGOFF NOSPOOL

```

Reorder Associator

In SDF Format:

```

/.ADAORD LOGON
/MODIFY-TEST-OPTIONS DUMP=YES
/REMARK *
/REMARK * A D A O R D REORDER FILE ASSO, REORDER ASSO
/REMARK *
/DELETE-FILE ADAYyyyy.FILEA
/SET-JOB-STEP
/CREATE-FILE ADAYyyyy.FILEA,PUB(SPACE=(4800,480))
/SET-JOB-STEP
/ASS-SYSLST L.ORD.REOR
/ASS-SYSDTA *SYSCMD
/SET-FILE-LINK DDLIB,ADAvrs.MOD
/SET-FILE-LINK DDASSOR1,ADAYyyyy.ASSO,SHARE-UPD=YES
/SET-FILE-LINK DDDATAR1,ADAYyyyy.DATA,SHARE-UPD=YES
/SET-FILE-LINK DDFILEA,ADAYyyyy.FILEA
/START-PROGRAM *M(ADA.MOD,ADARUN),PR-MO=ANY
ADARUN PROG=ADAORD,DB=yyyyyy,IDTNAME=ADABAS5B
ADAORD REORFASSO
ADAORD FILE=1,MAXISN=20000,NISIZE=300B
ADAORD FILE=3,NISIZE=400B,ASSOPFAC=2
/LOGOFF SYS-OUTPUT=DEL

```

In ISP Format:

```

/.ADAORD LOGON
/OPTION MSG=FH,DUMP=YES
/REMARK *
/REMARK * A D A O R D REORDER FILE ASSO, REORDER ASSO
/REMARK *
/SYSFILE SYSLST=L.ORD.REOR
/FILE ADA.MOD,LINK=DDLIB
/FILE ADAyyyyy.ASSO ,LINK=DDASSOR1,SHARUPD=YES
/FILE ADAyyyyy.DATA ,LINK=DDDATAR1,SHARUPD=YES
/FILE ADAyyyyy.FILEA ,LINK=DDFILEA ,SPACE=(4800,480)
/EXEC (ADARUN,ADA.MOD)
ADARUN PROG=ADAORD,DB=yyyyyy, IDTNAME=ADABAS5B
ADAORD REORFASSO
ADAORD FILE=1,MAXISN=20000,NISIZE=300B
ADAORD FILE=3,NISIZE=400B,ASSOPFAC=2
/LOGOFF NOSPOOL

```

Restructure**In SDF Format:**

```

/.ADAORD LOGON
/MODIFY-TEST-OPTIONS DUMP=YES
/REMARK *
/REMARK * A D A O R D RESTRUCTURE
/REMARK *
/DELETE-FILE ADAyyyyy.FILEA
/SET-JOB-STEP
/CREATE-FILE ADAyyyyy.FILEA,PUB(SPACE=(4800,480))
/SET-JOB-STEP
/ASS-SYSLST L.ORD.REST
/ASS-SYSDTA *SYSCMD
/SET-FILE-LINK DDLIB,ADAvrs.MOD
/SET-FILE-LINK DDASSOR1,ADAyyyyy.ASSO,SHARE-UPD=YES
/SET-FILE-LINK DDRLOGR1,ADAyyyyy.RLOGR1,SHARE-UPD=YES
/SET-FILE-LINK DDFILEA,ADAyyyyy.FILEA
/START-PROGRAM *M(ADA.MOD,ADARUN),PR-MO=ANY
ADARUN PROG=ADAORD,DB=yyyyyy, IDTNAME=ADABAS5B
ADAORD RESTRUCTUREF
ADAORD FILE=1,DATADEV=dddd
/LOGOFF SYS-OUTPUT=DEL

```

In ISP Format:

```

/.ADAORD LOGON
/OPTION MSG=FH,DUMP=YES
/REMARK *
/REMARK * A D A O R D RESTRUCTURE
/REMARK *
/SYSFILE SYSLST=L.ORD.REST
/FILE ADA.MOD,LINK=DDLIB
/FILE ADAyyyyy.ASSO ,LINK=DDASSOR1,SHARUPD=YES
/FILE ADAyyyyy.RLOGR1 ,LINK=DDRLOGR1,SHARUPD=YES
/FILE ADAyyyyy.FILEA ,LINK=DDFILEA ,SPACE=(4800,480)
/EXEC (ADARUN,ADA.MOD)
ADARUN PROG=ADAORD,DB=yyyyyy, IDTNAME=ADABAS5B
ADAORD RESTRUCTUREF
ADAORD FILE=1,DATADEV=dddd
/LOGOFF NOSPOOL

```

Store

Tape Example In SDF Format:

```

/.ADAORD LOGON
/MODIFY-TEST-OPTIONS DUMP=YES
/REMARK *
/REMARK * A D A O R D STORE
/REMARK *
/DELETE-FILE ADAYyyyyy.FILEA
/SET-JOB-STEP
/REMARK Here, a tape has already been initialized in TSOS by
/REMARK /START-INIT
/REMARK INIT T-C4,VSN=ADA001,UNIT=M0 or M1
/REMARK END
/CREATE-FILE ADAYyyyyy.FILEA,SUP=TAPE(DEVICE=TAPE-C4,VOL=ADA001)
/SET-JOB-STEP
/ASS-SYSLST L.ORD.STOR
/ASS-SYSDTA *SYSCMD
/SET-FILE-LINK DDLIB,ADAvrs.MOD
/SET-FILE-LINK DDASSOR1,ADAYyyyyy.ASSO,SHARE-UPD=YES
/SET-FILE-LINK DDDATAR1,ADAYyyyyy.DATA,SHARE-UPD=YES
/SET-FILE-LINK DDRLOGR1,ADAYyyyyy.RLOGR1,SHARE-UPD=YES
/REMARK Do not set the BUFFER-SIZE option for this file
/SET-FILE-LINK DDFILEA,ADAYyyyyy.FILEA
/REMARK
/REMARK Here, using TAPEREL=NO, the tape will remain
/REMARK mounted This must be done from the console.
/REMARK if the tape is to be dismounted, omit this
/REMARK parameter
/REMARK
/START-PROGRAM *M(ADA.MOD,ADARUN),PR-MO=ANY
ADARUN PROG=ADAORD,DB=yyyyyy,IDTNAME=ADABAS5B,TAPEREL=NO
ADAORD STORE
ADAORD FILE=1,DSSIZE=80,DATAPFAC=30,DSRABN=1234
ADAORD MAXISN=200000
/LOGOFF SYS-OUTPUT=DEL

```

Tape Example In ISP Format:

```

/.ADAORD LOGON
/OPTION MSG=FB,DUMP=YES
/REMARK *
/REMARK * A D A O R D STORE
/REMARK *
/SYSFILE SYSLST=L.ORD.STOR
/FILE ADA.MOD,LINK=DDLIB
/FILE ADAYyyyyy.ASSO,LINK=DDASSOR1,SHARUPD=YES
/FILE ADAYyyyyy.DATA,LINK=DDATAR1,SHARUPD=YES
/FILE ADAYyyyyy.RLOGR1,LINK=DDRLOGR1,SHARUPD=YES
/REMARK Here, a tape has already been initialized in TSOS by
/REMARK /START-INIT
/REMARK INIT T-C4,VSN=ADA001,UNIT=M0 or M1
/REMARK END
/REMARK Do not set the BLKSIZE option for this file
/FILE ADAYyyyyy.FILEA,LINK=DDFILEA,DEVICE=TAPE-C4,VOLUME=ADA001,LABEL=STD
/REMARK
/REMARK Here, using TAPEREL=NO, the tape will remain
/REMARK mounted This must be done from the console.
/REMARK if the tape is to be dismounted, omit this
/REMARK parameter
/REMARK

```

```

/EXEC (ADARUN,ADA.MOD)
ADARUN PROG=ADAORD,DB=yyyyyy, IDTNAME=ADABAS5B,TAPEREL=NO
ADAORD STORE
ADAORD FILE=1,DSSIZE=80,DATAPFAC=30,DSRABN=1234
ADAORD MAXISN=200000
/LOGOFF NOSPOOL

```

Non-Tape Example In SDF Format:

```

/.ADAORD LOGON
/MODIFY-TEST-OPTIONS DUMP=YES
/REMARK *
/REMARK * A D A O R D STORE
/REMARK *
/DELETE-FILE ADAyyyyyy.FILEA
/SET-JOB-STEP
/CREATE-FILE ADAyyyyyy.FILEA,PUB(SPACE=(4800,480))
/SET-JOB-STEP
/ASS-SYSLST L.ORD.STOR
/ASS-SYSDTA *SYSCMD
/SET-FILE-LINK DDLIB,ADAvrs.MOD
/SET-FILE-LINK DDASSOR1,ADAYyyyyy.ASSO,SHARE-UPD=YES
/SET-FILE-LINK DDDATAR1,ADAYyyyyy.DATA,SHARE-UPD=YES
/SET-FILE-LINK DDRLOGR1,ADAYyyyyy.RLOGR1,SHARE-UPD=YES
/SET-FILE-LINK DDFILEA,ADAYyyyyy.FILEA
/START-PROGRAM *M(ADA.MOD,ADARUN),PR-MO=ANY
ADARUN PROG=ADAORD,DB=yyyyyy, IDTNAME=ADABAS5B
ADAORD STORE
ADAORD FILE=1,DSSIZE=80,DATAPFAC=30,DSRABN=1234
ADAORD MAXISN=200000
/LOGOFF SYS-OUTPUT=DEL

```

Non-Tape Example In ISP Format:

```

/.ADAORD LOGON
/OPTION MSG=FH,DUMP=YES
/REMARK *
/REMARK * A D A O R D STORE
/REMARK *
/SYSFILE SYSLST=L.ORD.STOR
/FILE ADA.MOD,LINK=DDLIB
/FILE ADAYyyyyy.ASSO,LINK=DDASSOR1,SHARUPD=YES
/FILE ADAYyyyyy.DATA,LINK=DDATAR1,SHARUPD=YES
/FILE ADAYyyyyy.RLOGR1,LINK=DDRLOGR1,SHARUPD=YES
/FILE ADAYyyyyy.FILEA,LINK=DDFILEA,SPACE=(4800,480)
/EXEC (ADARUN,ADA.MOD)
ADARUN PROG=ADAORD,DB=yyyyyy, IDTNAME=ADABAS5B
ADAORD STORE
ADAORD FILE=1,DSSIZE=80,DATAPFAC=30,DSRABN=1234
ADAORD MAXISN=200000
/LOGOFF NOSPOOL

```

Data Set	DD Name	Storage	More Information
Associator	DDASSORn	disk	
Data Storage	DDDATARn	disk	Not used for REORASSO or REORFASSO
Intermediate storage	DDFILEA	tape/ disk	
Recovery log (RLOG)	DDRLOGR1	disk	Required when using the ADARAI option
ADARUN parameters	DDCARD	reader	<i>Operations</i>
ADAORD parameters	DDKARTE	reader	
ADARUN messages	DDPRINT	printer	<i>Messages and Codes</i>
ADAORD messages	DDDRUCK	printer	<i>Messages and Codes</i>

ADAORD JCL Examples (z/OS)

Reorder File Associator

```
//ADAORDA JOB
//*
//*      ADAORD: REORDER FILE ASSO,
//*              REORDER ASSO
//*
//ORD      EXEC PGM=ADARUN
//STEPLIB DD DISP=SHR,DSN=ADABAS.ADAvrs.LOAD          <=== ADABAS LOAD
//*
//DDASSOR1 DD DISP=SHR,DSN=EXAMPLE.DByyyyy.ASSOR1 <=== ASSO
//DDFILEA DD DSN=&&DDFILEA,DISP=(,PASS), <===INTERMEDIATE
//          UNIT=SYSDA,VOL=SER=vvvvvv,SPACE=(CYL,NN)          STORAGE
//DDDRUCK DD SYSOUT=X
//DDPRINT DD SYSOUT=X
//SYSUDUMP DD SYSOUT=X
//DDCARD DD *
ADARUN PROG=ADAORD,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
//DDKARTE DD *
ADAORD REORFASSO
ADAORD FILE=1,ASSOPFAC=15,MAXISN=10000
/*
```

Refer to ADAORDA in the JOBS data set for this example.

Reorder File Data Storage, Reorder File, Reorder Data, Reorder Database

```
//ADAORDD JOB
//*
//*      ADAORD: REORDER DATA STORAGE
//*
//ORD      EXEC PGM=ADARUN
//STEPLIB DD DISP=SHR,DSN=ADABAS.ADAvrs.LOAD          <=== ADABAS LOAD
//*
//DDASSOR1 DD DISP=SHR,DSN=EXAMPLE.DByyyyy.ASSOR1 <=== ASSO
//DDDATAR1 DD DISP=SHR,DSN=EXAMPLE.DByyyyy.DATAR1 <=== DATA
//DDFILEA DD DSN=DDFILEA,                               <=== INTERMEDIATE
```

```
//          UNIT=TAPE,VOL=SER=vvvvvv,DISP=(,PASS)          FILE
//DDDRUCK  DD   SYSOUT=X
//DDPRINT  DD   SYSOUT=X
//SYSUDUMP DD   SYSOUT=X

//DDCARD   DD   *
ADARUN PROG=ADAORD,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
//DDKARTE  DD   *
ADAORD REORDATA
ADAORD FILE=1,DSSIZE=80,DATAPFAC=30
/*
```

Refer to ADAORDD in the JOBS data set for this example.

Restructure

```
//ADAORDR  JOB
/*
/*      ADAORD:  RESTRUCTURE
/*
//ORD      EXEC  PGM=ADARUN
//STEPLIB DD   DISP=SHR,DSN=ADABAS.ADAvrs.LOAD          <=== ADABAS LOAD
/*
//DDASSOR1 DD   DISP=SHR,DSN=EXAMPLE.DByyyyy.ASSOR1 <== ASSO
//DDDATAR1 DD   DISP=SHR,DSN=EXAMPLE.DByyyyy.DATAR1 <== DATA
//DDFILEA  DD   DSN=FILEA,                               <== INTERMEDIATE
//          UNIT=TAPE,VOL=SER=vvvvvv,DISP=(,KEEP)       <== FILE
//DDDRUCK  DD   SYSOUT=X
//DDPRINT  DD   SYSOUT=X
//SYSUDUMP DD   SYSOUT=X
//DDCARD   DD   *
ADARUN PROG=ADAORD,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
//DDKARTE  DD   *
ADAORD RESTRUCTUREF
ADAORD FILE=1,DATADEV=eeee
/*
```

Refer to ADAORDR in the JOBS data set for this example.

Store

```
//ADAORDS  JOB
/*
/*      ADAORD:  STORE INTO A DIFFERENT DATABASE
/*      AFTER ADAORD RESTRUCTURE
/*
//ORD      EXEC  PGM=ADARUN
//STEPLIB DD   DISP=SHR,DSN=ADABAS.ADAvrs.LOAD          <=== ADABAS LOAD
/*
//DDASSOR1 DD   DISP=SHR,DSN=EXAMPLE.DByyyyy.ASSOR1 <=== ASSO
//DDDATAR1 DD   DISP=SHR,DSN=EXAMPLE.DByyyyy.DATAR1 <=== DATA
//DDFILEA  DD   DSN=FILE1,                               <=== INTERMEDIATE
//          UNIT=TAPE,VOL=SER=vvvvvv,DISP=OLD           STORAGE
//DDDRUCK  DD   SYSOUT=X
//DDPRINT  DD   SYSOUT=X
//SYSUDUMP DD   SYSOUT=X
//DDCARD   DD   *
ADARUN PROG=ADAORD,SVC=xxx,DEVICE=dddd,DBID=yyyyy <=== DBID
/*
```

```
//DDKARTE DD *
ADAORD STORE
ADAORD FILE=1,DSSIZE=80,DATAPFAC=30,DSRABN=1234,MAXISN=200000
/*
```

Refer to ADAORDS in the JOBS data set for this example.

z/VSE

File	Symbolic Name	Storage	Logical Unit	More Information
Associator	ASSORn	disk	*	
Data Storage	DATARn	disk	*	
Intermediate Storage	FILEA	tape disk	SYS010 *	
Recovery log (RLOG)	RLOGR1	disk		Required when using the ADARAI option
ADARUN parameters	- CARD CARD	reader tape disk	SYSRDR SYS000 *	
ADAORD parameters		reader	SYSIPT	
ADARUN messages		printer	SYSLST	<i>Messages and Codes</i>
ADAORD messages		printer	SYS009	<i>Messages and Codes</i>

* Any programmer logical unit may be used.

ADAORD JCS Examples (z/VSE)

See *Library and File Procedures for z/VSE Examples* for a description of the z/VSE procedures (PROCs).

Refer to the following members for these examples:

Example	Member
Reorder File Associator	ADAORDA.X
Reorder File Data Storage	ADAORDD.X
Restructure	ADAORDR.X
Store Files	ADAORDS.X

Reorder File Associator

```
* $$ JOB JNM=ADAORDA,CLASS=A,DISP=D
* $$ LST CLASS=A,DISP=D
// JOB ADAORDA
*      REORDER THE ASSOCIATOR.
// EXEC PROC=ADAVvLIB
// EXEC PROC=ADAVvFIL
// ASSGN SYS010,DISK,VOL=DISK01,SHR
// DLBL FILEA,'ADABAS.ADAvrs.TEMP'
// EXTENT SYS010,DISK01,1,0,sssss,nnnnn
// EXEC ADARUN,SIZE=ADARUN
ADARUN PROG=ADAORD,SVC=xxx,DEVICE=dddd,DBID=yyyyy/*ADAORD REORFASSO
ADAORD FILE=1,ASSOPFAC=15,MAXISN=10000
/*
/&
* $$ EOJ
```

Reorder File Data Storage, Reorder File, Reorder Data, Reorder Database

```
* $$ JOB JNM=ADAORDD,CLASS=A,DISP=D
* $$ LST CLASS=A,DISP=D
// JOB ADAORDD
*      REORDER DATA STORAGE
// EXEC PROC=ADAVvLIB
// EXEC PROC=ADAVvFIL
// ASSGN SYS010,TAPE,D0
// PAUSE MOUNT SCRATCH TAPE ON TAPE cuu
// MTC REW,SYS010
// MTC WTM,SYS010,5
// MTC REW,SYS010
// TLBL FILEA,'ADABAS.ADAvrs.TEMP'
// EXEC ADARUN,SIZE=ADARUN
ADARUN PROG=ADAORD,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
ADAORD REORDATA
ADAORD FILE=1,DSSIZE=80,DATAPFAC=30
/*
/&
* $$ EOJ
```

Restructure

```
* $$ JOB JNM=ADAORDR,CLASS=A,DISP=D
* $$ LST CLASS=A,DISP=D
// JOB ADAORDR
*      RESTRUCTURE
// EXEC PROC=ADAVvLIB
// EXEC PROC=ADAVvFIL
// ASSGN SYS010,TAPE,D0
// PAUSE MOUNT SCRATCH TAPE ON TAPE cuu
// MTC REW,SYS010
// MTC WTM,SYS010,5
// MTC REW,SYS010
// TLBL FILEA,'ADABAS.ADAvrs.TEMP'
// EXEC ADARUN,SIZE=ADARUN
ADARUN PROG=ADAORD,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
ADAORD RESTRUCTUREF
```

```
ADAORD FILE=1,DATADEV=eeee
/*
/&
* $$ EOJ
```

Store Files

```
* $$ JOB JNM=ADAORDS,CLASS=A,DISP=D
* $$ LST CLASS=A,DISP=D
// JOB ADAORDS
*      STORE
// EXEC PROC=ADAVvLIB
// EXEC PROC=ADAVvFIL
// ASSGN SYS010,TAPE,D0
// PAUSE MOUNT SCRATCH TAPE ON TAPE cuu
// MTC REW,SYS010
// MTC WTM,SYS010,5
// MTC REW,SYS010
// TLBL FILEA,'ADABAS.ADAvrs.TEMP'
// EXEC ADARUN,SIZE=ADARUN
ADARUN PROG=ADAORD,SVC=xxx,DEVICE=dddd,DBID=yyyyyy
/*
ADAORD STORE
ADAORD FILE=1,DSSIZE=80,DATAPFAC=30,DSRABN=1234,MAXISN=200000
/*
/&
* $$ EOJ
```