JCL/JCS Requirements and Examples

This section describes the job control information required to run ADAFRM with BS2000, OS/390 or z/OS, VM/ESA or z/VM, and VSE/ESA systems and shows examples of each of the job streams.

Note:
When running with the optional Recovery Aid (RLOG), all temporary datasets must also be cataloged in the job control.

This chapter covers the following topics:

- BS2000
- OS/390 or z/OS
- VM/ESA or z/VM
- VSE/ESA

BS2000

Dataset	Link Name	Storage	More Information
Associator	DDASSORn	disk	datasets to be formatted
Data Storage	DDDATARn		
Work	DDWORKR1 DDWORKR4		
Temp	DDTEMPR1		
Sort	DDSORTRn		
Multiple command logs	DDCLOGRn		
Multiple protection logs	DDPLOGRn		
Recovery log	DDRLOGR1		
ADARUN parameters	SYSDTA/ DDCARD		*Operations*
ADAFRM parameters	SYSDTA/ DDKARTE		
ADARUN messages	SYSOUT/ DDPRINT		*Messages and Codes*
ADAFRM messages	SYSLST/ DDDRUCK		*Messages and Codes*

ADAFRM JCL Example (BS2000)

In SDF Format:

```
/.ADAFRM LOGON
/MODIFY-TEST-OPTIONS DUMP=YES
/REMARK *
/REMARK * A D A F R M ALL FUNCTIONS
/REMARK *

/ASS-SYSLST L.FRM
/ASS-SYSDTA *SYSCMD
/SET-FILE-LINK DDLIB,ADAvrs.MOD
/SET-FILE-LINK DDASSOR1,ADAyyyyy.ASSO,OPEN-MODE=OUTIN,BUFF-LEN=STD(1)
/SET-FILE-LINK DDDATAR1,ADAyyyyy.DATA,OPEN-MODE=OUTIN,BUFF-LEN=STD(2)
/SET-FILE-LINK DDWORKR1,ADAyyyyy.WORK,OPEN-MODE=OUTIN,BUFF-LEN=STD(2)
/SET-FILE-LINK DDTEMPR1,ADAyyyyy.TEMP,OPEN-MODE=OUTIN,BUFF-LEN=STD(2)
/SET-FILE-LINK DDSORTR1,ADAyyyyy.SORT,OPEN-MODE=OUTIN,BUFF-LEN=STD(2)
/SET-FILE-LINK DDPLOGR1,ADAyyyyy.PLOGR1,OPEN-MODE=OUTIN,BUFF-LEN=STD(2)
/SET-FILE-LINK DDPLOGR2,ADAyyyyy.PLOGR2,OPEN-MODE=OUTIN,BUFF-LEN=STD(2)
/SET-FILE-LINK DDRLOGR1,ADAyyyyy.RLOGR1,OPEN-MODE=OUTIN,BUFF-LEN=STD(2)
/START-PROGRAM *M(ADA.MOD,ADARUN),PR-MO=ANY
ADARUN PROG=ADAFRM,DB=yyyyy,IDTNAME=ADABAS5B
ADAFRM ASSOFRM SIZE=100
ADAFRM DATAFRM SIZE=200
ADAFRM WORKFRM SIZE=40
ADAFRM SORTFRM SIZE=25
ADAFRM TEMPFRM SIZE=10
ADAFRM PLOGFRM SIZE=40,NUMBER=1
ADAFRM PLOGFRM SIZE=40,NUMBER=2
ADAFRM RLOGFRM SIZE=10
/LOGOFF SYS-OUTPUT=DEL
```

In ISP Format:

```
/.ADAFRM LOGON
/OPTION MSG=FH,DUMP=YES
/REMARK *
/REMARK * A D A F R M ALL FUNCTIONS
/REMARK *
/SYSFILE SYSLST=L.FRM
/FILE ADA.MOD,LINK=DDLIB
/FILE ADAyyyyy.ASSO ,LINK=DDASSOR1,OPEN=OUTIN,BLKSIZE=(STD,1)
/FILE ADAyyyyy.DATA ,LINK=DDDATAR1,OPEN=OUTIN,BLKSIZE=(STD,2)
/FILE ADAyyyyy.WORK ,LINK=DDWORKR1,OPEN=OUTIN,BLKSIZE=(STD,2)
/FILE ADAyyyyy.TEMP ,LINK=DDTEMPR1,OPEN=OUTIN,BLKSIZE=(STD,2)
/FILE ADAyyyyy.SORT ,LINK=DDSORTR1,OPEN=OUTIN,BLKSIZE=(STD,2)
/FILE ADAyyyyy.PLOGR1,LINK=DDPLOGR1,OPEN=OUTIN,BLKSIZE=(STD,2)
/FILE ADAyyyyy.PLOGR2,LINK=DDPLOGR2,OPEN=OUTIN,BLKSIZE=(STD,2)
/FILE ADAyyyyy.RLOGR1,LINK=DDRLOGR1,OPEN=OUTIN,BLKSIZE=(STD,2)
/EXEC (ADARUN,ADA.MOD)
ADARUN PROG=ADAFRM,DB=yyyyy,IDTNAME=ADABAS5B
ADAFRM ASSOFRM SIZE=100
ADAFRM DATAFRM SIZE=200
ADAFRM WORKFRM SIZE=40

ADAFRM SORTFRM SIZE=25
ADAFRM TEMPFRM SIZE=10
ADAFRM PLOGFRM SIZE=40,NUMBER=1
ADAFRM PLOGFRM SIZE=40,NUMBER=2
ADAFRM RLOGFRM SIZE=10
/LOGOFF NOSPOOL
```

OS/390 or z/OS

Dataset	DD Name	Storage	More Information
Associator	DDASSORn	disk	datasets to be formatted
Data Storage	DDDATARn		
Work	DDWORKR1 DDWORKR4		
Temp	DDTEMPR1		
Sort	DDSORTRn		
Multiple command logs	DDCLOGRn		
Multiple protection logs	DDPLOGRn		
Recovery log	DDRLOGR1		
ADARUN parameters	DDCARD	reader	*Operations*
ADAFRM parameters	DDKARTE	disk	
ADARUN messages	DDPRINT	printer	*Messages and Codes*
ADAFRM messages	DDDRUCK	printer	*Messages and Codes*

ADAFRM JCL Example (OS/390 or z/OS)

Refer to ADAFRM in the MVSJOBS dataset for this example.

```
//ADAFRM    JOB
//*
//*     ALLOCATE AND FORMAT THE DATABASE COMPONENTS
//*
//*     MORE THAN ONE DATASET CAN BE FORMATTED IN A SINGLE RUN
//*
//*

//FRM       EXEC PGM=ADARUN
//STEPLIB   DD   DISP=SHR,DSN=ADABAS.Vvrs.LOAD                <=== ADABAS LOAD
//*
//DDASSOR1  DD   DISP=(NEW,CATLG),DSN=EXAMPLE.DByyyyy.ASSOR1, <=== ASSO
//            SPACE=(CYL,(0,100)),UNIT=DISK,VOL=SER=VOL001
//DDDATAR1  DD   DISP=(NEW,CATLG),DSN=EXAMPLE.DByyyyy.DATAR1, <=== DATA
//            SPACE=(CYL,(0,200)),UNIT=DISK,VOL=SER=VOL002
//DDWORKR1  DD   DISP=(NEW,CATLG),DSN=EXAMPLE.DByyyyy.WORKR1, <=== WORK
//            SPACE=(CYL,(0,40)),UNIT=DISK,VOL=SER=VOL003
//DDSORTR1  DD   DISP=(NEW,CATLG),DSN=EXAMPLE.DByyyyy.SORTR1, <=== SORT
//            SPACE=(CYL,(0,100)),UNIT=DISK,VOL=SER=VOL003
//DDTEMPR1  DD   DISP=(NEW,CATLG),DSN=EXAMPLE.DByyyyy.TEMPR1, <=== TEMP
//            SPACE=(CYL,(0,100)),UNIT=DISK,VOL=SER=VOL003
//DDPLOGR1  DD   DISP=(NEW,CATLG),DSN=EXAMPLE.DByyyyy.PLOGR1, <=== PLOG1
//            SPACE=(CYL,(50)),UNIT=DISK,VOL=SER=VOL003
//DDPLOGR2  DD   DISP=(NEW,CATLG),DSN=EXAMPLE.DByyyyy.PLOGR2, <=== PLOG2
//            SPACE=(CYL,(50)),UNIT=DISK,VOL=SER=VOL003
//DDCLOGR1  DD   DISP=(NEW,CATLG),DSN=EXAMPLE.DByyyyy.CLOGR1, <=== CLOG1
//            SPACE=(CYL,(50)),UNIT=DISK,VOL=SER=VOL003
```

```
//DDCLOGR2  DD   DISP=(NEW,CATLG),DSN=EXAMPLE.DByyyyy.CLOGR2, <=== CLOG2
//            SPACE=(CYL,(50)),UNIT=DISK,VOL=SER=VOL003
//DDDRUCK   DD   SYSOUT=X
//DDPRINT   DD   SYSOUT=X
//SYSUDUMP  DD   SYSOUT=X
//DDCARD    DD   *
ADARUN PROG=ADAFRM,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
//DDKARTE   DD   *
ADAFRM ASSOFRM SIZE=100,DEVICE=dddd
ADAFRM DATAFRM SIZE=200,DEVICE=dddd
ADAFRM WORKFRM SIZE=40,DEVICE=dddd
ADAFRM SORTFRM SIZE=100,DEVICE=dddd
ADAFRM TEMPFRM SIZE=100,DEVICE=dddd
ADAFRM PLOGFRM SIZE=50,NUMBER=1,DEVICE=dddd
ADAFRM PLOGFRM SIZE=50,NUMBER=2,DEVICE=dddd
ADAFRM CLOGFRM SIZE=50,NUMBER=1,DEVICE=dddd
ADAFRM CLOGFRM SIZE=50,NUMBER=2,DEVICE=dddd
/*
```

VM/ESA or z/VM

Dataset	DD Name	Storage	More Information
Associator	DDASSORn	disk	datasets to be formatted
Data Storage	DDDATARn		
Work	DDWORKR1 DDWORKR4		
Temp	DDTEMPR1		
Sort	DDSORTRn		
Multiple command logs	DDCLOGRn		
Multiple protection logs	DDPLOGRn		
Recovery log	DDRLOGR1		
ADARUN parameters	DDCARD	disk/ terminal/ reader	*Operations*
ADAFRM parameters	DDKARTE	disk/ terminal/ reader	
ADARUN messages	DDPRINT	disk/ terminal/ printer	*Messages and Codes*
ADAFRM messages	DDDRUCK	disk/ terminal/ printer	*Messages and Codes*

ADAFRM JCL Example (VM/ESA or z/VM)

```
DATADEF DDASSOR1,DSN=ADABASVv.ASSO,VOL=ASSOV1
DATADEF DDDATAR1,DSN=ADABASVv.DATA,VOL=DATAV1
DATADEF DDWORKR1,DSN=ADABASVv.WORK,VOL=WORKV1
DATADEF DDSORTR1,DSN=ADABASVv.SORT,VOL=SORTV1
DATADEF DDTEMPR1,DSN=ADABASVv.TEMP,VOL=TEMPV1
DATADEF DDPLOGR1,DSN=ADABASVv.PLOG1,VOL=PLOGV1
DATADEF DDPLOGR2,DSN=ADABASVv.PLOG2,VOL=PLOGV2
DATADEF DDRLOGR1,DSN=ADABASVv.RLOG1,VOL=RLOGV1
DATADEF DDPRINT,DSN=ADAFRM.DDPRINT,MODE=A
```

```
DATADEF DUMP,DUMMY
DATADEF DDDRUCK,DSN=ADAFRM.DDDRUCK,MODE=A
DATADEF DDCARD,DSN=RUNFRM.CONTROL,MODE=A
DATADEF DDKARTE,DSN=ADAFRM.CONTROL,MODE=A
ADARUN
```

Contents of RUNFRM CONTROL A1:

```
ADARUN PROG=ADAFRM,DEVICE=dddd,DB=yyyyy
```

Contents of ADAFRM CONTROL A1:

```
ADAFRM ASSOFRM SIZE=100
ADAFRM DATAFRM SIZE=200
ADAFRM WORKFRM SIZE=40
ADAFRM SORTFRM SIZE=25
ADAFRM TEMPFRM SIZE=10
ADAFRM PLOGFRM SIZE=40
ADAFRM PLOGFRM SIZE=40,NUMBER=2
ADAFRM RLOGFRM SIZE=10
```

VSE/ESA

File	Symbolic Name	Storage	Logical Unit	More Information
Associator	ASSORn	disk	*	files to be formatted
Data Storage	DATARn			
Work	WORKR1			
Temp	TEMPR1			
Sort	SORTR1			
Multiple command log	CLOGRn			
Multiple protection log	PLOGRn			
Recovery log	RLOGR1			
ADARUN parameters	- CARD CARD	reader tape disk	SYSRDR SYS000 *	
ADAFRM parameters	-	reader	SYSIPT	
ADARUN messages	-	printer	SYSLST	*Messages and Codes*
ADAFRM messages	-	printer	SYS009	*Messages and Codes*

* *Any programmer logical unit may be used.*

ADAFRM JCS Example (VSE/ESA)

See Procedures for VSE/ESA Examples for descriptions of the VSE/ESA procedures (PROCs).

Refer to member ADAFRM.X for this example.

```
* $$ JOB JNM=ADAFRM,CLASS=A,DISP=D
* $$ LST CLASS=A,DISP=D
// JOB ADAFRM
*       FORMAT THE DATABASE COMPONENTS
?/ EXEC PROC=ADAVvLIB
// EXEC PROC=ADAVvFIL
// EXEC ADARUN,SIZE=ADARUN
ADARUN PROG=ADAFRM,MODE=SINGLE,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
ADAFRM ASSOFRM SIZE=100,DEVICE=dddd
ADAFRM DATAFRM SIZE=200,DEVICE=dddd
ADAFRM WORKFRM SIZE=40,DEVICE=dddd
ADAFRM SORTFRM SIZE=100,DEVICE=dddd
ADAFRM TEMPFRM SIZE=100,DEVICE=dddd
ADAFRM PLOGFRM SIZE=50,NUMBER=1,DEVICE=dddd
ADAFRM PLOGFRM SIZE=50,NUMBER=2,DEVICE=dddd
ADAFRM CLOGFRM SIZE=50,NUMBER=1,DEVICE=dddd
ADAFRM CLOGFRM SIZE=50,NUMBER=2,DEVICE=dddd
/*
/&
* $$ EOJ
```