

# JCL/JCS Requirements and Examples

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

**Note:**

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

This chapter covers the following topics:

- BS2000
- z/OS
- z/VM
- VSE

## BS2000

Data Set	Link Name	Storage	More Information
Associator	DDASSORn	disk	data sets 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		<i>Operations</i>
ADAFRM parameters	SYSDTA/ DDKARTE		
ADARUN messages	SYSOUT/ DDPRINT		<i>Messages and Codes</i>
ADAFRM messages	SYSLSST/ DDDRUCK		<i>Messages and Codes</i>

## 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,ADAYyyyyy.ASSO,OPEN-MODE=OUTIN
/SET-FILE-LINK DDDATAR1,ADAYyyyyy.DATA,OPEN-MODE=OUTIN
/SET-FILE-LINK DDWORKR1,ADAYyyyyy.WORK,OPEN-MODE=OUTIN
/SET-FILE-LINK DDTEMPR1,ADAYyyyyy.TEMP,OPEN-MODE=OUTIN
/SET-FILE-LINK DDSORTR1,ADAYyyyyy.SORT,OPEN-MODE=OUTIN
/SET-FILE-LINK DDPLOGR1,ADAYyyyyy.PLOGR1,OPEN-MODE=OUTIN
/SET-FILE-LINK DDPLOGR2,ADAYyyyyy.PLOGR2,OPEN-MODE=OUTIN
/SET-FILE-LINK DDRLOGR1,ADAYyyyyy.RLOGR1,OPEN-MODE=OUTIN
/START-PROGRAM *M(ADA.MOD,ADARUN),PR-MO=ANY ADARUN PROG=ADAFRM,DB=yyyyyy, 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=FB,DUMP=YES
/REMARK *
/REMARK * A D A F R M ALL FUNCTIONS
/REMARK *

/SYSFILE SYSLST=L.FRM
/FILE ADA.MOD,LINK=DDLIB
/FILE ADAYyyyyy.ASSO,LINK=DDASSOR1,OPEN=OUTIN
/FILE ADAYyyyyy.DATA,LINK=DDDATAR1,OPEN=OUTIN
/FILE ADAYyyyyy.WORK,LINK=DDWORKR1,OPEN=OUTIN
/FILE ADAYyyyyy.TEMP,LINK=DDTEMPR1,OPEN=OUTIN
/FILE ADAYyyyyy.SORT,LINK=DDSORTR1,OPEN=OUTIN
/FILE ADAYyyyyy.PLOGR1,LINK=DDPLOGR1,OPEN=OUTIN
/FILE ADAYyyyyy.PLOGR2,LINK=DDPLOGR2,OPEN=OUTIN
/FILE ADAYyyyyy.RLOGR1,LINK=DDRLOGR1,OPEN=OUTIN
/EXEC (ADARUN,ADA.MOD)
ADARUN PROG=ADAFRM,DB=yyyyyy, 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

```

**z/OS**

Data Set	DD Name	Storage	More Information
Associator	DDASSORn	disk	data sets 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	<i>Operations</i>
ADAFRM parameters	DDKARTE	disk	
ADARUN messages	DDPRINT	printer	<i>Messages and Codes</i>
ADAFRM messages	DDDRUCK	printer	<i>Messages and Codes</i>

**ADAFRM JCL Example (z/OS)**

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

```
//ADAFRM    JOB
//*
//*      ALLOCATE AND FORMAT THE DATABASE COMPONENTS
//*
//*      MORE THAN ONE DATA SET CAN BE FORMATTED IN A SINGLE RUN
//*
//*
//FRM      EXEC PGM=ADARUN
//STEPLIB  DD  DISP=SHR,DSN=ADABAS.ADAvrs.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
/*
```

## z/VM

Data Set	DD Name	Storage	More Information
Associator	DDASSORn	disk	data sets 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	<i>Operations</i>
ADAFRM parameters	DDKARTE	disk/ terminal/ reader	
ADARUN messages	DDPRINT	disk/ terminal/ printer	<i>Messages and Codes</i>
ADAFRM messages	DDDRUCK	disk/ terminal/ printer	<i>Messages and Codes</i>

### ADAFRM JCL Example (z/VM)

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

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	<i>Messages and Codes</i>
ADAFRM messages	-	printer	SYS009	<i>Messages and Codes</i>

*\* Any programmer logical unit may be used.*

## ADAFRM JCS Example (VSE)

See Library and File Procedures for VSE Examples for descriptions of the VSE 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
```