JCL/JCS Requirements and Examples

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

This chapter covers the following topics:

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

BS2000

Data Set	Link Name	Storage	More Information
Associator	DDASSORn	disk	
Data Storage	DDDATARn	disk	
Work	DDWORKR1 DDWORKR4	disk	
ADARUN parameters	SYSDTA/ DDCARD		*Operations*
ADADEF parameters	SYSDTA/ DDKARTE		*Utilities*
ADARUN messages	SYSOUT/ DDPRINT		*Messages and Codes*
ADADEF messages	SYSLST/ DDDRUCK		*Messages and Codes*

ADADEF JCL Examples (BS2000)

Define Database

In SDF Format:

```
/.ADADEF LOGON
/MODIFY-TEST-OPTIONS DUMP=YES
/REMARK *
/REMARK * A D A D E F DEFINE DATABASE
/REMARK *
/ASS-SYSLST L.DEF.DATA
/ASS-SYSDTA *SYSCMD
/SET-FILE-LINK DDLIB,ADAvrs.MOD
/SET-FILE-LINK DDASSOR1,ADAyyyyy.ASSO
/SET-FILE-LINK DDDATAR1,ADAyyyyy.DATA
/SET-FILE-LINK DDWORKR1,ADAyyyyy.WORK
/START-PROGRAM *M(ADA.MOD,ADARUN),PR-MO=ANY
ADARUN PROG=ADADEF,DB=yyyyy,IDTNAME=ADABAS5B
ADADEF DEFINE DBNAME=EXAMPLE-DB
ADADEF ASSOSIZE=100,DATASIZE=200,WORKSIZE=40
ADADEF MAXFILES=120
```

```
ADADEF FILE=1,CHECKPOINT
ADADEF NAME= CHECKPOINT ,MAXISN=5000,UISIZE=10B
ADADEF DSSIZE=500B,NISIZE=100B
/LOGOFF SYS-OUTPUT=DEL
```

In ISP Format:

```
/.ADADEF LOGON
/OPTION MSG=FH,DUMP=YES
/REMARK *
/REMARK * A D A D E F DEFINE DATABASE
/REMARK *
/SYSFILE SYSLST=L.DEF.DEFI
/FILE ADA.MOD,LINK=DDLIB
/FILE ADAyyyyy.ASSO ,LINK=DDASSOR1
/FILE ADAyyyyy.DATA ,LINK=DDDATAR1
/FILE ADAyyyyy.WORK ,LINK=DDWORKR1
/EXEC (ADARUN,ADA.MOD)
ADARUN PROG=ADADEF,DB=yyyyy,IDTNAME=ADABAS5B
ADADEF DEFINE DBNAME=EXAMPLE-DB
ADADEF ASSOSIZE=100,DATASIZE=200,WORKSIZE=40
ADADEF MAXFILES=120
ADADEF FILE=1,CHECKPOINT
ADADEF NAME= CHECKPOINT ,MAXISN=5000,UISIZE=10B
ADADEF DSSIZE=500B,NISIZE=100B
/LOGOFF NOSPOOL
```

z/OS

Data Set	DD Name	Storage	More Information
Associator	DDASSORn	disk	
Data Storage	DDDATARn	disk	
Work (Current)	DDWORKR1 DDWORKR4	disk	
ADARUN parameters	DDCARD	reader	*Operations*
ADADEF parameters	DDKARTE	reader	
ADARUN messages	DDPRINT	printer	*Messages and Codes*
ADADEF messages	DDDRUCK	printer	*Messages and Codes*

ADADEF JCL Examples (z/OS)

Define Database

```
//ADADEF    JOB
//*
//*   ADADEF:
//*      DEFINE THE PHYSICAL LAYOUT OF THE DATABASE
//*      DEFINE THE NUCLEUS SYSTEM FILE: CHECKPOINT FILE
//*
//DEF       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
//DDWORKR1  DD   DISP=SHR,DSN=EXAMPLE.DByyyyy.WORKR1 <=== WORK
//DDDRUCK   DD   SYSOUT=X
//DDPRINT   DD   SYSOUT=X
//SYSUDUMP  DD   SYSOUT=X
//DDCARD    DD   *
ADARUN PROG=ADADEF,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
//DDKARTE   DD   *
ADADEF DEFINE DBNAME=EXAMPLE-DB,DBIDENT=YYYYY
ADADEF        ASSOSIZE=100,DATASIZE=200,WORKSIZE=40
ADADEF        MAXFILES=120
*

ADADEF FILE=19,CHECKPOINT
ADADEF   NAME='CHECKPOINT',MAXISN=5000
ADADEF   DSSIZE=100B,NISIZE=3B,UISIZE=3B
/*
```

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

Define New Work

```
//ADADEFNW  JOB
//*
//*    ADADEF: DEFINE NEW WORK
//*
//DEF       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
//DDWORKR1  DD   DISP=SHR,DSN=EXAMPLE.DByyyyy.WORKR1 <=== WORK
//DDDRUCK   DD   SYSOUT=X
//DDPRINT   DD   SYSOUT=X
//SYSUDUMP  DD   SYSOUT=X
//DDCARD    DD   *
ADARUN PROG=ADADEF,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
//DDKARTE   DD   *
ADADEF NEWWORK WORKSIZE=60,WORKDEV=eeee
/*
```

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

z/VM

Data Set	DD Name	Storage	More Information
Associator	DDASSORn	disk	
Data Storage	DDDATARn	disk	
Work	DDWORKR1 DDWORKR4	disk	
ADARUN parameters	DDCARD	disk/ terminal/ reader	*Operations*
ADADEF parameters	DDKARTE	disk/ terminal/ reader	
ADARUN messages	DDPRINT	disk/ terminal/ printer	*Messages and Codes*
ADADEF messages	DDDRUCK	disk/ terminal/ printer	

ADADEF JCL Examples (z/VM)

Define Database

```
DATADEF DDASSOR1,DSN=ADABASVv.ASSO,VOL=ASSOV1
DATADEF DDDATAR1,DSN=ADABASVv.ASSO,VOL=DATAV1
DATADEF DDWORKR1,DSN=ADABASVv.WORK,VOL=WORKV1
DATADEF DDPRINT,DSN=ADADEF.DDPRINT,MODE=A
DATADEF DUMP,DUMMY

DATADEF DDDRUCK,DSN=ADADEF.DDDRUCK,MODE=A
DATADEF DDCARD,DSN=RUNDEF.CONTROL,MODE=A
DATADEF DDKARTE,DSN=ADADEF.CONTROL,MODE=A
ADARUN
```

Contents of RUNDEF CONTROL A1:

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

Contents of ADADEF CONTROL A1:

```
ADADEF DEFINE DBNAME=EXAMPLE-DB
ADADEF        ASSOSIZE=100,DATASIZE=200,WORKSIZE=40
ADADEF        MAXFILE=120
*

ADADEF FILE=1,CHECKPOINT
ADADEF NAME='CHECKPOINT',MAXISN=5000,UISIZE=10B
ADADEF                   DSSIZE=500B,NISIZE=100B
```

Define New Work

```
DATADEF DDASSOR1,DSN=ADABASVv.ASSO,VOL=ASSOV1
DATADEF DDDATAR1,DSN=ADABASVv.ASSO,VOL=DATAV1
DATADEF DDWORKR1,DSN=ADABASVv.WORK,VOL=WORKV1
DATADEF DDPRINT,DSN=ADADEF.DDPRINT,MODE=A
DATADEF DUMP,DUMMY

DATADEF DDDRUCK,DSN=ADADEF.DDDRUCK,MODE=A
DATADEF DDCARD,DSN=RUNDEF.CONTROL,MODE=A
DATADEF DDKARTE,DSN=ADADEF.CONTROL,MODE=A
ADARUN
```

Contents of RUNDEF CONTROL A1:

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

Contents of ADADEF CONTROL A1:

```
ADADEF NEWWORK WORKSIZE=60,WORKDEV=eeee
```

VSE

File	Symbolic Name	Storage	Logical Unit	More Information
Associator	ASSORn	disk	*	
Data Storage	DATARn	disk	*	
Work (Current)	WORKR1	disk	*	
ADARUN parameters	- CARD CARD	reader tape disk	SYSRDR SYS000 *	
ADADEF parameters	-	reader	SYSIPT	
ADARUN messages	-	printer	SYSLST	
ADADEF messages	-	printer	SYS009	*Messages and Codes*

** Any programmer logical unit may be used.*

ADADEF JCS Examples (VSE)

See Library and File Procedures for VSE Examples for descriptions of the VSE procedures.

Define Database

Refer to member ADADEF.X for this example.

```
* $$ JOB JNM=ADADEF,CLASS=A,DISP=D
* $$ LST CLASS=A,DISP=D
// JOB ADADEF
*       DEFINE THE PHYSICAL LAYOUT OF THE DATABASE
*       DEFINE THE NUCLEUS SYSTEMFILE: CHECKPOINT FILE
// EXEC PROC=ADAVvLIB
// EXEC PROC=ADAVvFIL
// EXEC ADARUN,SIZE=ADARUN
ADARUN PROG=ADADEF,MODE=SINGLE,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
ADADEF DEFINE DBNAME=EXAMPLE-DB,DBIDENT=yyyyy
ADADEF        ASSOSIZE=100,DATASIZE=200,WORKSIZE=40
ADADEF        MAXFILES=120
*

ADADEF FILE=19,CHECKPOINT
```

```
ADADEF   NAME='CHECKPOINT',MAXISN=5000
ADADEF   DSSIZE=100B,NISIZE=3B,UISIZE=3B
/*
/&
* $$ EOJ
```

Define New Work

Refer to member ADADEFNW.X for this example.

```
* $$ JOB JNM=ADADEFNW,CLASS=A,DISP=D
* $$ LST CLASS=A,DISP=D
// JOB ADADEFNW
*       DEFINE NEW WORK
// EXEC PROC=ADAVvLIB
// EXEC PROC=ADAVvFIL
// EXEC ADARUN,SIZE=ADARUN
ADARUN PROG=ADADEF,MODE=SINGLE,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
ADADEF NEWWORK WORKSIZE=60,WORKDEV=eeee
/*
/&
* $$ EOJ
```