

# JCL/JCS Requirements and Examples

This section describes the job control information required to run ADAULD 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.

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
Unloaded data	DDOUT1	tape/ disk	Output by ADAULD (see note)
Unloaded data	DDOUT2	tape/ disk	Output by ADAULD (see note)
Unloaded ISNs	DDISN	tape/ disk	Required with DDISN
Save tape	DDSAVE	tape/ disk	Required with SAVETAPE
Sequential PLOG	DDPLOG	tape/ disk	Required for online save tapes
Temp area	DDTEMPR1	disk	Required for online save tapes
Recovery log (RLOG)	DDRLOGR1	disk	Required for ADARAI
ADARUN parameters	SYSDTA/ DDCARD		<i>Operations</i>
ADAULD parameters	SYSDTA/ DDKARTE		
ADARUN messages	SYSOUT/ DDPRINT		<i>Messages and Codes</i>
ADAULD messages	SYSLST/ DDDRUCK		<i>Messages and Codes</i>

**Note:**

DDOUT1 and DDOUT2 must have the same block size; otherwise, an ADAULD error will occur. DDOUT2 is required only if NUMOUT=2 is specified.

## ADAULD JCL Examples (BS2000)

### Unload from Database

#### In SDF Format:

```

/.ADAULD LOGON
/MODIFY-TEST-OPTIONS DUMP=YES
/REMARK *
/REMARK * A D A U L D NON-SAVETAPE FUNCTIONS
/REMARK *
/DELETE-FILE ADAyyyyy.OUT1
/SET-JOB-STEP
/CREATE-FILE ADAyyyyy.OUT1 ,PUB(SPACE=( 480 , 48 ))
/SET-JOB-STEP
/ASS-SYSLST L.ULD
/ASS-SYSDTA *SYSCMD
/SET-FILE-LINK DDLIB,ADAvrs.MOD
/SET-FILE-LINK DDOUT1,ADAyyyyy.OUT1
/START-PROGRAM *M(ADA.MOD,ADARUN) ,PR-MO=ANY
ADARUN PROG=ADAULD,DB=yyyyyy, IDTNAME=ADABAS5B
ADAULD FILE=1, SORTSEQ=AA
/LOGOFF SYS-OUTPUT=DEL

```

#### In ISP Format:

```

/.ADAULD LOGON
/OPTION MSG=FB,DUMP=YES
/REMARK *
/REMARK * A D A U L D NON-SAVETAPE FUNCTIONS
/REMARK *
/SYSFILE SYSLST=L.ULD
/FILE ADA.MOD ,LINK=DDLIB
/FILE ADAyyyyy.OUT1 ,LINK=DDOUT1 ,SPACE=(480,48)
/EXEC (ADARUN,ADA.MOD)
ADARUN PROG=ADAULD,DB=yyyyyy, IDTNAME=ADABAS5B
ADAULD FILE=1, SORTSEQ=AA
/LOGOFF NOSPOOL

```

### Unload from Offline Save Tape

#### In SDF Format:

```

/.ADAULD LOGON
/MODIFY-TEST-OPTIONS DUMP=YES
/REMARK *
/REMARK * A D A U L D SAVETAPE FUNCTION
/REMARK *
/DELETE-FILE ADAyyyyy.OUT1
/SET-JOB-STEP
/CREATE-FILE ADAyyyyy.OUT1 ,PUB(SPACE=( 480 , 48 ))
/SET-JOB-STEP
/ASS-SYSLST L.ULD
/ASS-SYSDTA *SYSCMD
/SET-FILE-LINK DDLIB,ADAvrs.MOD
/SET-FILE-LINK DDOUT1,ADAyyyyy.OUT1
/SET-FILE-LINK DDSAVE,ADAyyyyy.SAVE
/START-PROGRAM *M(ADA.MOD,ADARUN) ,PR-MO=ANY
ADARUN PROG=ADAULD,DB=yyyyyy, IDTNAME=ADABAS5B
ADAULD FILE=1, SAVETAPE
/LOGOFF SYS-OUTPUT=DEL

```

**In ISP Format:**

```

/ .ADAULD LOGON
/OPTION MSG=FH,DUMP=YES
/REMARK *
/REMARK * A D A U L D SAVETAPE FUNCTION
/REMARK *
/SYSFILE SYSLST=L.ULD
/FILE ADA.MOD ,LINK=DDLIB
/FILE ADAyyyyy.OUTPUT1 ,LINK=DDOUT1 ,SPACE=(480,48)
/FILE ADAyyyyy.SAVE ,LINK=DDSAVE
/EXEC (ADARUN,ADA.MOD)
ADARUN PROG=ADAULD,DB=yyyyy,IDTNAME=ADABAS5B
ADAULD FILE=1,SAVETAPE
/LOGOFF NOSPOOL

```

**OS/390 or z/OS**

<b>Dataset</b>	<b>DD Name</b>	<b>Storage</b>	<b>More Information</b>
Unloaded data	DDOUT1	tape/ disk	Output by ADAULD (see note)
Unloaded data	DDOUT2	tape/ disk	Output by ADAULD (see note)
Unloaded ISNs	DDISN	tape/ disk	Required with DDISN
Save tape	DDSAVE	tape/ disk	Required with SAVETAPE
Sequential PLOG	DDPLOG	tape/ disk	Required for online save tapes
Temp area	DDTEMPR1	disk	Required for online save tapes
Recovery log (RLOG)	DDRLOGR1	disk	Required for ADARAI
ADAULD messages	DDDRUCK	printer	<i>Messages and Codes</i>
ADARUN messages	DDPRINT	printer	<i>Messages and Codes</i>
ADARUN parameters	DDCARD	reader	<i>Operations</i>
ADAULD parameters	DDKARTE	reader	

**Note:**

DDOUT1 and DDOUT2 must have the same block size; otherwise, an ADAULD error will occur. DDOUT2 is required only if NUMOUT=2 is specified.

## ADAULD JCL Examples (OS/390 or z/OS)

### Unload a File

```
//ADAULD    JOB
//*
//*    ADAULD:
//*        UNLOAD A FILE
//*
//ULD      EXEC PGM=ADARUN
//STEPLIB DD  DISP=SHR,DSN=ADABAS.Vvrs.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

//DDOUT1   DD
DISP=(,CATLG),DSN=EXAMPLE.DByyyyy.OUT1,UNIT=DISK, <===
//          VOL=SER=DISK01,SPACE=(TRK,(200,10),RLSE)
//DDCARD   DD  *
ADARUN PROG=ADAULD,MODE=MULTI,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
//DDKARTE  DD  *
ADAULD FILE=1, SORTSEQ=AA

00000100
/*
```

Refer to ADAULD in the MVSJOBS dataset for this example.

### Unload a File from Save Tape Created Offline

```
//ADAULDS   JOB
//*
//*    ADAULD:
//*        UNLOAD A FILE FROM AN OFFLINE SAVE TAPE
//*
//ULD      EXEC PGM=ADARUN
//STEPLIB DD  DISP=SHR,DSN=ADABAS.Vvrs.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
//DDSAVE   DD  DISP=SHR,DSN=EXAMPLE.DByyyyy.SAVE   <=== SAVE DATASET
//DDDRUCK DD  SYSOUT=X
//DDPRINT DD  SYSOUT=X
//SYSUDUMP DD  SYSOUT=X
//DDOUT1   DD  DISP=(,CATLG),DSN=EXAMPLE.DByyyyy.OUT1,UNIT=DISK, <===
//          VOL=SER=DISK01,SPACE=(TRK,(200,10),RLSE)
//DDCARD   DD  *
ADARUN PROG=ADAULD,MODE=MULTI,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
//DDKARTE  DD  *
ADAULD FILE=1,SAVETAPE

00000100
/*
```

Refer to ADAULDS in the MVSJOBS dataset for this example.

## VM/ESA or z/VM

Dataset	DD Name	Storage	More Information
Unloaded data	DDOUT1	tape/ disk	Output by ADAULD (see note)
Unloaded data	DDOUT2	tape/ disk	Output by ADAULD (see note)
Unloaded ISNs	DDISN	tape/ disk	Required with DDISN
Save tape	DDSAVE	tape/ disk	Required with SAVETAPE
Sequential PLOG	DDPLOG	tape/ disk	Required for online save tapes
Temp area	DDTEMPR1	disk	Required for online save tapes
Recovery log (RLOG)	DDRLOGR1	disk	Required for ADARAI
ADAULD messages	DDDRUCK	disk/ terminal/ printer	<i>Messages and Codes</i>
ADARUN messages	DDPRINT	disk/ terminal/ printer	<i>Messages and Codes</i>
ADARUN parameters	DDCARD	disk/ terminal/ reader	<i>Operations</i>
ADAULD parameters	SYSIPT	disk/ terminal/ reader	

### Note:

DDOUT1 and DDOUT2 must have the same block size; otherwise, an ADAULD error will occur.  
DDOUT2 is required only if NUMOUT=2 is specified.

## Examples (VM/ESA or z/VM)

### Unload from Database

```
DATADEF DDOUT1 , DSN=ADABASVv.ULD1 , UNIT=181 , VOL=ULDF1
DATADEF DDPRINT , DSN=ADAULD.DDPRINT , MODE=A
DATADEF DUMP , DUMMY
DATADEF DDDRUCK , DSN=ADAULD.DDDRUCK , MODE=A
DATADEF DDCARD , DSN=RUNULD.CONTROL , MODE=A
DATADEF DDKARTE , DSN=ADAULD.CONTROL , MODE=A
ADARUN
```

### Contents of RUNULD CONTROL A1:

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

**Contents of ADAULD CONTROL A1:**

```
ADAULD FILE=1 , SORTSEQ=AA
```

**Unload from "Offline" Save Tape**

```
DATADEF DDOUT1 , DSN=ADABASVv.ULD1 , UNIT=181 , VOL=ULDF1
DATADEF DDSAVE , DSN=ADABASVv.ULD1 , UNIT=181 , VOL=ULDF1
DATADEF DDPRINT , DSN=ADAULD.DDPRINT , MODE=A
DATADEF DUMP , DUMMY
DATADEF DDDRUCK , DSN=ADAULD.DDDRUCK , MODE=A
DATADEF DDCARD , DSN=RUNULD.CONTROL , MODE=A
DATADEF DDKARTE , DSN=ADAULD.CONTROL , MODE=A
ADARUN
```

**Contents of RUNULD CONTROL A1:**

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

**Contents of ADAULD CONTROL A1:**

```
ADAULD FILE=1 , SAVETAPE
```

**VSE/ESA**

File	Symbolic Name	Storage	Logical Unit	More Information
Unloaded data	OUT1	tape disk	SYS010 see note 1	Output by ADAULD (see note 2)
Unloaded data	OUT2	tape disk	SYS011 see note 1	Output by ADAULD (see note 2)
Unloaded ISNs	ISN	tape disk	SYS012 see note 1	Required with DDISN
Save tape	SAVE	tape disk	SYS013 see note 1	Required with SAVETAPE
Sequential PLOG	PLOG	tape disk	SYS014 see note 1	Required for online save tapes
Temp area	TEMPR1	disk	see note 1	Required for online save tapes
Recovery log (RLOG)	RLOGR1	disk	see note 1	Required for ADARAI
Messages	SYSLST	printer		<i>Messages and Codes</i>
ADARUN parameters	SYSRDR CRD	reader/ tape/ disk		<i>Operations</i>
ADAULD parameters	SYSIPT	reader		

**Notes:**

1. Any programmer logical unit can be used.
2. OUT1 and OUT2 must have the same block size; otherwise, an ADAULD error will occur. OUT2 is required only if NUMOUT=2 is specified.

**ADAULD JCS Examples (VSE/ESA)**

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

**Unload a File from a Database**

```

* $$ JOB JNM=ADAULD,CLASS=A,DISP=D
* $$ LST CLASS=A,DISP=D

// JOB ADAULD
* UNLOAD A FILE
// EXEC PROC=ADAVvLIB
// EXEC PROC=ADAVvFIL
// ASSGN SYS004,DISK,VOL=vvvvvv,SHR
// DLBL OUT1,'EXAMPLE.ADA99.OUT1'
// EXTENT SYS004,,,,ssss,nnnn
// EXEC ADARUN,SIZE=ADARUN
    
```

```
ADARUN PROG=ADAULD,MODE=MULTI,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
ADAULD FILE=1,SORTSEQ=AA
/*
/&
* $$ EOJ
```

Refer to member ADAULD.X for this example.

### Unload a File from Save Tape Created Offline

```
* $$ JOB JNM=ADAULDS,CLASS=A,DISP=D
* $$ LST CLASS=A,DISP=D
// JOB ADAULDS
*          UNLOAD A FILE FROM AN OFFLINE SAVE TAPE
// EXEC PROC=ADAVvLIB
// EXEC PROC=ADAVvFIL
// ASSGN SYS004,DISK,VOL=vvvvvv,SHR
// DLBL OUT1,'EXAMPLE.ADA99.OUT1'
// EXTENT SYS004,,,,ssss,nnnn
// ASSGN SYS013,TAPE
// PAUSE MOUNT LOAD SAVE FILE ON TAPE cuu
// TLBL SAVE,'EXAMPLE.DByyyyy.SAVE'
// EXEC ADARUN,SIZE=ADARUN
ADARUN PROG=ADAULD,MODE=MULTI,SVC=xxx,DEVICE=dddd,DBID=yyyyy
/*
ADAULD FILE=1,SAVETAPE
/*
/&
* $$ EOJ
```

Refer to member ADAULDS.X for this example.