

ADASAV JCL/JCS Requirements and Examples

This section describes the job control information required to run the ADASAV functions for the Delta Save Facility with BS2000/OSD, z/OS, z/VM, VSE/ESA and z/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/OSD
- z/OS
- z/VM
- VSE/ESA and z/VSE

BS2000/OSD

Data Set	Link Name	Storage	More Information
Full save input(s)	DDRESTn	tape/disk	for RESTORE DELTA function
Full save input	DDFULL	tape/disk	for MERGE function
Delta save input(s)	DDDELn	tape/disk	for MERGE/RESTORE DELTA
Delta save images (DSIM)	DDDSIMR1	disk	required for online saves
Associator	DDASSORn	disk	
Data Storage	DDDATARn	disk	required for SAVE/RESTORE
Work	DDWORKR1	disk	required if nucleus is inactive
Dual/multiple PLOG	DDPLOGRn	disk	optional for RESTORE DELTA
Dual/multiple CLOG	DDCLOGRn	disk	optional for RESTORE DELTA
Recovery log	DDRLOGR1	disk	required for recovery log
Full or delta save outputs	DDSAVEN	tape/disk	required for SAVE/SAVE DELTA /MERGE functions
Dual full or delta save outputs	DDDUALn	tape/disk	required for TWOCOPIES
ADARUN parameters	SYSDTA/DDCARD		<i>Adabas Operations</i> documentation
ADASAV parameters	SYSDTA/DDKARTE		
ADARUN messages	SYSOUT/DDPRINT		<i>Adabas Messages and Codes</i>
ADASAV messages	SYSLST/DDDRUCK		<i>Adabas Messages and Codes</i>

Merge Delta Save Output (ADASAV MERGE)

```

/ .MERGE                LOGON

/ MOD-JOB-OPTIONS      LISTING=YES

/ MOD-TEST              DUMP=YES

/ ASS-SYSLST            DO . SAV . MERGE . LST

/ ASS-SYSOUT            DO . SAV . MERGE . OUT

/ SET-JOB-STEP

/ ASS-SYSDTA            *SYSCMD

/ SET-FILE-LINK        DDASSOR1 ,

ADABAS . DB010 . ASSOR1 , SUP=DISK ( SHARE-UPD=YES )

```

```

/SET-FILE-LINK      DDDSIMR1 , ADABAS.DB010.DSIM
, SUP=DISK( SHARE-UPD=YES )

/SET-FILE-LINK      DDFULL   , ADABAS.DB010.SAVE039.PART1
/SET-FILE-LINK      DDFULL01, ADABAS.DB010.SAVE039.PART2
/SET-FILE-LINK      DDFULL02, ADABAS.DB010.SAVE039.PART3
/SET-FILE-LINK      DDFULL03, ADABAS.DB010.SAVE039.PART4
/SET-FILE-LINK      DDDEL1   , ADABAS.DB010.MASTER.DELTA.OLD
/SET-FILE-LINK      DDSAVE1  , ADABAS.DB010.SAVE040.PART1
/SET-FILE-LINK      DDSAVE2  , ADABAS.DB010.SAVE040.PART2
/SET-FILE-LINK      DDSAVE3  , ADABAS.DB010.SAVE040.PART3
/SET-FILE-LINK      DDSAVE4  , ADABAS.DB010.SAVE040.PART4
/SET-FILE-LINK      DDDUAL1  , ADABAS.DB010.COPY040.PART1
/SET-FILE-LINK      DDDUAL2  , ADABAS.DB010.COPY040.PART2
/SET-FILE-LINK      DDDUAL3  , ADABAS.DB010.COPY040.PART3
/SET-FILE-LINK      DDDUAL4  , ADABAS.DB010.COPY040.PART4
/SET-FILE-LINK      DDLIB    , ADABAS.MOD

/REMARK

/START-PROGRAM      FROM-FILE=*MOD( ADABAS.MOD, ADARUN )

ADARUN   PROG=ADASAV, DSF=YES...

ADASAV MERGE PATTERN=FD

ADASAV      DRIVES=4

ADASAV      TWOCOPIES

/ASS-SYSLST      *PRIM
/ASS-SYSOUT      *PRIM
/ASS-SYSDTA      *PRIM

/LOGOFF          SYS-OUTPUT=DEL

```

Merge and Restore Database (ADASAV RESTORE DELTA)

```

/ .REST          LOGON

/ MOD-JOB-OPTIONS LISTING=YES

/ MOD-TEST       DUMP=YES

/ ASS-SYSLST     DO.SAV.REST.LST

```

```
/ASS-SYSOUT          DO.SAV.REST.OUT

/SET-JOB-STEP

/ASS-SYSDTA          *SYSCMD

/SET-FILE-LINK       DDASSOR1,
ADABAS.DB010.ASSOR1,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK       DDDATAR1,
ADABAS.DB010.DATAR1,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK       DDWORKR1, ADABAS.DB010.WORK,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK       DDPLOGR1,
ADABAS.DB010.PLOGR1,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK       DDPLOGR2,
ADABAS.DB010.PLOGR2,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK       DDCLOGR1,
ADABAS.DB010.CLOGR1,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK       DDCLOGR2,
ADABAS.DB010.CLOGR2,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK       DDDSIMR1, ADABAS.DB010.DSIM
,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK       DDREST1 , ADABAS.DB010.SAVE040.PART1

/SET-FILE-LINK       DDREST2 , ADABAS.DB010.SAVE040.PART2

/SET-FILE-LINK       DDREST3 , ADABAS.DB010.SAVE040.PART3

/SET-FILE-LINK       DDREST4 , ADABAS.DB010.SAVE040.PART4

/SET-FILE-LINK       DDDEL1 , ADABAS.DB010.MASTER.DELTA.OLD

/SET-FILE-LINK       DDDEL2 , ADABAS.DB010.MASTER.DELTA1

/SET-FILE-LINK       DDDEL201, ADABAS.DB010.MASTER.DELTA2

/SET-FILE-LINK       DDDEL202, ADABAS.DB010.MASTER.DELTA3

/SET-FILE-LINK       DDLIB , ADABAS.MOD

/REMARK

/START-PROGRAM       FROM-FILE=*MOD(ADABAS.MOD,ADARUN)

ADARUN   PROG=ADASAV,DSF=YES...
```

```

ADASAV RESTORE DELTA,OVERWRITE

ADASAV          PATTERN=FDD

ADASAV          DSIMDEV=2000

ADASAV          DRIVES=4

ADASAV          PLOGDEV=2000,CLOGDEV=2000

/ASS-SYSLST     *PRIM

/ASS-SYSOUT     *PRIM

/ASS-SYSDTA     *PRIM

/LOGOFF        SYS-OUTPUT=DEL

```

Restore Files (ADASAV RESTORE DELTA,FMOVE...)

```

/.REST          LOGON

/MOD-JOB-OPTIONS LISTING=YES

/MOD-TEST       DUMP=YES

/ASS-SYSLST     DO.SAV.REST.LST

/ASS-SYSOUT     DO.SAV.REST.OUT

/SET-JOB-STEP

/ASS-SYSDTA     *SYSCMD

/SET-FILE-LINK  DDASSOR1,

ADABAS.DB010.ASSOR1,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK  DDDATAR1,

ADABAS.DB010.DATAR1,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK  DDWORKR1, ADABAS.DB010.WORK

,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK  DDDSIMR1, ADABAS.DB010.DSIM

,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK  DDREST1,

ADABAS.DB010.SAVE040.PART1

/SET-FILE-LINK  DDREST01, ADABAS.DB010.SAVE040.PART2

/SET-FILE-LINK  DDREST02, ADABAS.DB010.SAVE040.PART3

/SET-FILE-LINK  DDREST03, ADABAS.DB010.SAVE040.PART4

```

```

/SET-FILE-LINK      DDDEL1  , ADABAS.DB010.MASTER.DELTA.OLD
/SET-FILE-LINK      DDDEL2  , ADABAS.DB010.MASTER.DELTA1
/SET-FILE-LINK      DDLIB   , ADABAS.MOD
/REMARK
/START-PROGRAM      FROM-FILE=*MOD(ADABAS.MOD,ADARUN)
ADARUN  PROG=ADASAV,DSF=YES...
ADASAV  RESTORE DELTA,OVERWRITE
ADASAV      FMOVE=10,20,30,...
/ASS-SYSLST        *PRIM
/ASS-SYSOUT        *PRIM
/ASS-SYSDTA        *PRIM
/LOGOFF            SYS-OUTPUT=DEL

```

Save Database (ADASAV SAVE)

```

/.SAVE              LOGON
/MOD-JOB-OPTIONS   LISTING=YES
/MOD-TEST          DUMP=YES
/ASS-SYSLST        DO.SAV.LST
/ASS-SYSOUT        DO.SAV.OUT
/SET-JOB-STEP
/ASS-SYSDTA        *SYSCMD
/SET-FILE-LINK     DDASSOR1,
ADABAS.DB010.ASSOR1,SUP=DISK(SHARE-UPD=YES)
/SET-FILE-LINK     DDDATAR1,
ADABAS.DB010.DATAR1,SUP=DISK(SHARE-UPD=YES)
/SET-FILE-LINK     DDWORKR1, ADABAS.DB010.WORK
,SUP=DISK(SHARE-UPD=YES)
/SET-FILE-LINK     DDDSIMR1, ADABAS.DB010.DSIM
,SUP=DISK(SHARE-UPD=YES)
/SET-FILE-LINK     DDSAVE1 , ADABAS.DB010.SAVE039.PART1
/SET-FILE-LINK     DDSAVE2 , ADABAS.DB010.SAVE039.PART2
/SET-FILE-LINK     DDSAVE3 , ADABAS.DB010.SAVE039.PART3

```

```

/SET-FILE-LINK      DDSAVE4 , ADABAS.DB010.SAVE039.PART4

/SET-FILE-LINK      DDLIB   , ADABAS.MOD

/REMARK

/START-PROGRAM      FROM-FILE=*MOD(ADABAS.MOD,ADARUN)

ADARUN   PROG=ADASAV,DSF=YES...

ADASAV SAVE

ADASAV      TTSYN=10

ADASAV      DRIVES=4

/ASS-SYSLST      *PRIM

/ASS-SYSOUT      *PRIM

/ASS-SYSDTA      *PRIM

/LOGOFF          SYS-OUTPUT=DEL

```

Save Database (ADASAV SAVE DELTA)

```

/.DELTA           LOGON

/MOD-JOB-OPTIONS LISTING=YES

/MOD-TEST         DUMP=YES

/ASS-SYSLST       DO.SAV.DELTA.LST

/ASS-SYSOUT       DO.SAV.DELTA.OUT

/SET-JOB-STEP

/ASS-SYSDTA       *SYSCMD

/SET-FILE-LINK    DDASSOR1,

ADABAS.DB010.ASSOR1,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK    DDDATAR1,

ADABAS.DB010.DATAR1,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK    DDWORKR1, ADABAS.DB010.WORK

,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK    DDDSIMR1, ADABAS.DB010.DSIM

,SUP=DISK(SHARE-UPD=YES)

/SET-FILE-LINK    DDSAVE1 , ADABAS.DB010.SAVE

/SET-FILE-LINK    DDLIB   , ADABAS.MOD

/REMARK

```

```
/START-PROGRAM      FROM-FILE=*MOD(ADABAS.MOD,ADARUN)
ADARUN      PROG=ADASAV,DSF=YES...
ADASAV SAVE DELTA
ADASAV      TTSYN=10
ADASAV      DSIMDEV=2000
/ASS-SYSLST      *PRIM
/ASS-SYSOUT      *PRIM
/ASS-SYSDTA      *PRIM
/LOGOFF      SYS-OUTPUT=DEL
```

z/OS

Data Set	DD Name	Storage	More Information
Full save input(s)	DDRESTn	tape/disk	for RESTORE DELTA
Full save input	DDFULL	tape/disk	for MERGE
Delta save input(s)	DDDELn	tape/disk	for MERGE/RESTORE DELTA
Delta Save images (DSIM)	DDDSIMR1	disk	required for online saves
Associator	DDASSORn	disk	
Data Storage	DDDATARn	disk	required for SAVE/RESTORE
Work	DDWORKR1	disk	required for SAVE/RESTORE if nucleus is inactive
Dual/multiple PLOG	DDPLOGRn	disk	optional for RESTORE DELTA
Dual/multiple CLOG	DDCLOGRn	disk	optional for RESTORE DELTA
Recovery log	DDRLOGR1	disk	required for recovery log
Full or delta save outputs	DDSAVEN	tape/disk	required for SAVE/SAVE DELTA /MERGE functions
Dual full or delta save outputs	DDDUALn	tape/disk	required for TWOCOPIES
ADARUN parameters	DDCARD		<i>Adabas Operations</i> documentation
ADASAV parameters	DDKARTE		
ADARUN messages	DDPRINT		<i>Adabas Messages and Codes</i>
ADASAV messages	DDDRUCK		<i>Adabas Messages and Codes</i>

Merge Delta Save Output (ADASAV MERGE)

```
//MERGE      EXEC  PGM=ADARUN

//DDASSOR1 DD  DSN=ADABAS.DB010.ASSOR1,DISP=SHR

//DDDSIMR1 DD  DSN=ADABAS.DB010.DSIM,DISP=SHR

//DDFULL    DD  DSN=ADABAS.DB010.SAVE039.PART1,DISP=SHR

//          DD  DSN=ADABAS.DB010.SAVE039.PART2,DISP=SHR

//          DD  DSN=ADABAS.DB010.SAVE039.PART3,DISP=SHR

//          DD  DSN=ADABAS.DB010.SAVE039.PART4,DISP=SHR

//DDEL1     DD  DSN=ADABAS.DB010.MASTER.DELTA.OLD,DISP=SHR
```

```

//DDSAVE1 DD
DSN=ADABAS.DB010.SAVE040.PART1,DISP=(NEW,CATLG),
//
UNIT=CASS,...
//DDSAVE2 DD DSN=ADABAS.DB010.SAVE040.PART2,DISP=(NEW,CATLG),
//
UNIT=CASS,...
//DDSAVE3 DD DSN=ADABAS.DB010.SAVE040.PART3,DISP=(NEW,CATLG),
//
UNIT=CASS,...
//DDSAVE4 DD DSN=ADABAS.DB010.SAVE040.PART4,DISP=(NEW,CATLG),
//
UNIT=CASS,...
//DDDUAL1 DD DSN=ADABAS.DB010.COPY040.PART1,DISP=(NEW,CATLG),
//
UNIT=CASS,...
//DDDUAL2 DD DSN=ADABAS.DB010.COPY040.PART2,DISP=(NEW,CATLG),
//
UNIT=CASS,...
//DDDUAL3 DD DSN=ADABAS.DB010.COPY040.PART3,DISP=(NEW,CATLG),
//
UNIT=CASS,...
//DDDUAL4 DD DSN=ADABAS.DB010.COPY040.PART4,DISP=(NEW,CATLG),
//
UNIT=CASS,...
//DDCARD DD *
ADARUN PROG=ADASAV,DSF=YES,...
//DDKARTE DD *
ADASAV MERGE PATTERN=FD
ADASAV DRIVES=4
ADASAV TWOCOPIES
//DDPRINT DD SYSOUT=*
//DDDRUCK DD SYSOUT=*

```

Merge and Restore Database (ADASAV RESTORE DELTA)

```

//RESTORE EXEC PGM=ADARUN
//DDASSOR1 DD DSN=ADABAS.DB010.ASSOR1,DISP=SHR
//DDDATAR1 DD DSN=ADABAS.DB010.DATAR1,DISP=SHR
//DDWORKR1 DD DSN=ADABAS.DB010.WORKR1,DISP=SHR
//DDPLOGR1 DD DSN=ADABAS.DB010.PLOGR1,DISP=SHR

```

```

//DDPLOGR2 DD DSN=ADABAS.DB010.PLOGR2,DISP=SHR

//DDCLOGR1 DD DSN=ADABAS.DB010.CLOGR1,DISP=SHR

//DDCLOGR2 DD DSN=ADABAS.DB010.CLOGR2,DISP=SHR

//DDDSIMR1 DD DSN=ADABAS.DB010.DSIM,DISP=SHR

//DDREST1 DD DSN=ADABAS.DB010.SAVE040.PART1,DISP=SHR

//DDREST2 DD DSN=ADABAS.DB010.SAVE040.PART2,DISP=SHR

//DDREST3 DD DSN=ADABAS.DB010.SAVE040.PART3,DISP=SHR

//DDREST4 DD DSN=ADABAS.DB010.SAVE040.PART4,DISP=SHR

//DDDEL1 DD DSN=ADABAS.DB010.MASTER.DELTA.OLD,DISP=SHR

//DDDEL2 DD DSN=ADABAS.DB010.MASTER.DELTA1,DISP=SHR

// DD DSN=ADABAS.DB010.MASTER.DELTA2,DISP=SHR

// DD DSN=ADABAS.DB010.MASTER.DELTA3,DISP=SHR

//DDCARD DD *

ADARUN PROG=ADASAV,DSF=YES,...

//DDKARTE DD *

ADASAV RESTORE DELTA,OVERWRITE

ADASAV PATTERN='FDD'

ADASAV DRIVES=4

ADASAV DSIMDEV=8381

ADASAV PLOGDEV=3390,CLOGDEV=3390

//DDPRINT DD SYSOUT=*

//DDDRUCK DD SYSOUT=*

```

Restore Files (ADASAV RESTORE DELTA,FMOVE...)

```

//RESTORE EXEC PGM=ADARUN

//DDASSOR1 DD DSN=ADABAS.DB010.ASSOR1,DISP=SHR

//DDDATAR1 DD DSN=ADABAS.DB010.DATAR1,DISP=SHR

//DDWORKR1 DD DSN=ADABAS.DB010.WORKR1,DISP=SHR

//DDREST1 DD DSN=ADABAS.DB010.SAVE040.PART1,DISP=SHR

// DD DSN=ADABAS.DB010.SAVE040.PART2,DISP=SHR

// DD DSN=ADABAS.DB010.SAVE040.PART3,DISP=SHR

```

```
//          DD DSN=ADABAS.DB010.SAVE040.PART4,DISP=SHR

//DDDEL1   DD DSN=ADABAS.DB010.MASTER.DELTA.OLD,DISP=SHR

//DDDEL2   DD DSN=ADABAS.DB010.MASTER.DELTA1,DISP=SHR

//DDCARD   DD *

ADARUN   . . .

//DDKARTE  DD *

ADASAV RESTORE DELTA,OVERWRITE

ADASAV          FMOVE=10,20,30,...

//DDPRINT  DD SYSOUT=*

//DDDRUCK  DD SYSOUT=*
```

Save Database (ADASAV SAVE)

```
//SAVE     EXEC PGM=ADARUN

//DDASSOR1 DD DSN=ADABAS.DB010.ASSOR1,DISP=SHR

//DDDATAR1 DD DSN=ADABAS.DB010.DATAR1,DISP=SHR

//DDWORKR1 DD DSN=ADABAS.DB010.WORKR1,DISP=SHR

//DDDSIMR1 DD DSN=ADABAS.DB010.DSIM,DISP=SHR

//DDSAVE1  DD DSN=ADABAS.DB010.SAVE039.PART1,DISP=(NEW,CATLG)

//          UNIT=CASS,...

//DDSAVE2  DD DSN=ADABAS.DB010.SAVE039.PART2,DISP=(NEW,CATLG)

//          UNIT=CASS,...

//DDSAVE3  DD DSN=ADABAS.DB010.SAVE039.PART3,DISP=(NEW,CATLG)

//          UNIT=CASS,...

//DDSAVE4  DD DSN=ADABAS.DB010.SAVE039.PART4,DISP=(NEW,CATLG)

//          UNIT=CASS,...

//DDCARD   DD *

ADARUN PROG=ADASAV,DSF=YES,...

//DDKARTE  DD *

ADASAV SAVE

ADASAV          DRIVES=4

ADASAV          TTSYN=10
```

```
//DDPRINT DD SYSOUT=*
```

```
//DDDRUCK DD SYSOUT=*
```

Save Database (ADASAV SAVE DELTA)

```
//SAVE EXEC PGM=ADARUN
```

```
//DDASSOR1 DD DSN=ADABAS.DB010.ASSOR1,DISP=SHR
```

```
//DDDATAR1 DD DSN=ADABAS.DB010.DATAR1,DISP=SHR
```

```
//DDWORKR1 DD DSN=ADABAS.DB010.WORKR1,DISP=SHR
```

```
//DDDSIMR1 DD DSN=ADABAS.DB010.DSIM,DISP=SHR
```

```
//DDSAVE1 DD DSN=ADABAS.DB010.DELTA,DISP=OLD
```

```
//DDCARD DD *
```

```
ADARUN PROG=ADASAV,DSF=YES,...
```

```
//DDKARTE DD *
```

```
ADASAV SAVE DELTA
```

```
ADASAV TTSYN=10
```

```
ADASAV DSIMDEV=8381
```

```
//DDPRINT DD SYSOUT=*
```

```
//DDDRUCK DD SYSOUT=*
```

z/VM

Data Set	DD Name	Storage	More Information
Full save input(s)	DDRESTn	tape/disk	for RESTORE DELTA
Full save input	DDFULL	tape/disk	for MERGE
Delta save input(s)	DDDELn	tape/disk	for MERGE/RESTORE DELTA
Delta Save images (DSIM)	DDDSIMR1	disk	required for online saves
Associator	DDASSORn	disk	
Data Storage	DDDATARn	disk	required for SAVE/RESTORE
Work	DDWORKR1	disk	required if nucleus is inactive
Dual/multiple PLOG	DDPLOGRn	disk	optional for RESTORE DELTA
Dual/multiple CLOG	DDCLOGRn	disk	optional for RESTORE DELTA
Recovery log	DDRLOGR1	disk	required for recovery log
Full or delta save outputs	DDSAVEn	tape/disk	required for SAVE/SAVE DELTA /MERGE functions
Dual full or delta save outputs	DDDUALn	tape/disk	required for TWOCOPIES
ADARUN parameters	DDCARD	disk/ terminal/ reader	<i>Adabas Operations</i> documentation
ADASAV parameters	DDKARTE	disk/ terminal/ reader	
ADARUN messages	DDPRINT	disk/ terminal/ printer	<i>Adabas Messages and Codes</i>
ADASAV messages	DDDRUCK	disk/ terminal/ printer	<i>Adabas Messages and Codes</i>

Merge Delta Save Output (ADASAV MERGE)

```
DATADEF DDASSOR1 , DSN=ADABASVv . ASSO , VOL=ASSOV1
```

```
DATADEF DDDSIMR1 , DSN=ADABASVv . DSIM , VOL=DSIM
```

```
DATADEF DDFULL , DSN=ADABASVv . SAVE039 . PART1 , MODE=A
```

```
DATADEF DDFULL , DSN=ADABASVv . SAVE039 . PART2 , MODE=A , CONCAT=1
```

```
DATADEF DDFULL , DSN=ADABASVv . SAVE039 . PART2 , MODE=A , CONCAT=2
```

```
DATADEF DDFULL , DSN=ADABASVv . SAVE039 . PART2 , MODE=A , CONCAT=3
```

```
DATADEF DDDEL1 , DSN=ADABASVv . MASTER . DELTA , MODE=A
```

```
DATADEF DDSAVE1 , DSN=ADABASVv . SAVE040 . PART1 , MODE=A
```

```
DATADEF DDSAVE2 , DSN=ADABASVv . SAVE040 . PART2 , MODE=A
```

```

DATADEF DDSAVE3 ,DSN=ADABASVv .SAVE040 .PART3 ,MODE=A
DATADEF DDSAVE4 ,DSN=ADABASVv .SAVE040 .PART4 ,MODE=A
DATADEF DDDUAL1 ,DSN=ADABASVv .COPY040 .PART1 ,MODE=A
DATADEF DDDUAL2 ,DSN=ADABASVv .COPY040 .PART2 ,MODE=A
DATADEF DDDUAL3 ,DSN=ADABASVv .COPY040 .PART3 ,MODE=A
DATADEF DDDUAL4 ,DSN=ADABASVv .COPY040 .PART4 ,MODE=A
DATADEF DDPRINT ,DSN=ADASAV .DDPRINT ,MODE=A
DATADEF DDDRUCK ,DSN=ADASAV .DDRUCK ,MODE=A
DATADEF DDCARD ,DSN=RUNSAV .CONTROL ,MODE=A
DATADEF DDKARTE ,DSN=ADASAV .CONTROL ,MODE=A

ADARUN

```

Contents of RUNSAV CONTROL A1:

```
ADARUN  PROG=ADASAV ,DSF=YES . . .
```

Contents of ADASAV CONTROL A1:

```

ADASAV MERGE  PATTERN='FD'
          DRIVES=4
          TWOCOPIES

```

Merge and Restore Database (ADASAV RESTORE DELTA)

```

DATADEF DDASSOR1 ,DSN=ADABASVv .ASSO ,VOL=ASSOV1
DATADEF DDDATAR1 ,DSN=ADABASVv .DATA ,VOL=DATAV1
DATADEF DDWORKR1 ,DSN=ADABASVv .WORK ,VOL=WORKV1
DATADEF DDCLOGR1 ,DSN=ADABASVv .CLOG1 ,VOL=CLOGV1
DATADEF DDCLOGR2 ,DSN=ADABASVv .CLOG2 ,VOL=CLOGV2
DATADEF DDDSIMR1 ,DSN=ADABASVv .DSIM ,VOL=DSIM
DATADEF DDREST1 ,DSN=ADABASVv .SAVE040 .PART1 ,MODE=A
DATADEF DDREST2 ,DSN=ADABASVv .SAVE040 .PART2 ,MODE=A
DATADEF DDREST3 ,DSN=ADABASVv .SAVE040 .PART3 ,MODE=A
DATADEF DDREST4 ,DSN=ADABASVv .SAVE040 .PART4 ,MODE=A
DATADEF DDDEL1 ,DSN=ADABASVv .DELTA1 ,MODE=A
DATADEF DDDEL2 ,DSN=ADABASVv .DELTA2 ,MODE=A

```

```

DATADEF DDDEL2 , DSN=ADABASVv . DELTA3 , MODE=A , CONCAT=1

DATADEF DDDEL2 , DSN=ADABASVv . DELTA4 , MODE=A , CONCAT=2

DATADEF DDPRINT , DSN=ADASAV . DDPRINT , MODE=A

DATADEF DDDRUCK , DSN=ADASAV . DDDRUCK , MODE=A

DATADEF DDCARD , DSN=RUNSAV . CONTROL , MODE=A

DATADEF DDKARTE , DSN=ADASAV . CONTROL , MODE=A

ADARUN

```

Contents of RUNSAV CONTROL A1:

```
ADARUN PROG=ADASAV , DSF=YES . . .
```

Contents of ADASAV CONTROL A1:

```

ADASAV RESTORE DELTA , OVERWRITE

ADASAV      PATTERN= ' FDD '

ADASAV      DSIMDEV=2000

ADASAV      DRIVES=4

ADASAV      PLOGDEV= . . . , CLOGDEV= . . .

```

Restore Files (ADASAV RESTORE DELTA,FMOVE...)

```

DATADEF DDDATAR1 , DSN=ADABASVv . DATA , VOL=DATAV1

DATADEF DDASSOR1 , DSN=ADABASVv . ASSO , VOL=ASSOV1

DATADEF DDWORKR1 , DSN=ADABASVv . WORK , VOL=WORKV1

DATADEF DDDSIMR1 , DSN=ADABASVv . DSIM , VOL=DSIM

DATADEF DDREST1 , DSN=ADABASVv . SAVE040 . PART1 , MODE=A

DATADEF DDREST1 , DSN=ADABASVv . SAVE040 . PART2 , MODE=A , CONCAT=1

DATADEF DDREST1 , DSN=ADABASVv . SAVE040 . PART3 , MODE=A , CONCAT=2

DATADEF DDREST1 , DSN=ADABASVv . SAVE040 . PART4 , MODE=A , CONCAT=3

DATADEF DDDEL1 , DSN=ADABASVv . DELTA1 , MODE=A

DATADEF DDDEL2 , DSN=ADABASVv . DELTA2 , MODE=A

DATADEF DDPRINT , DSN=ADASAV . DDPRINT , MODE=A

DATADEF DDDRUCK , DSN=ADASAV . DDDRUCK , MODE=A

DATADEF DDCARD , DSN=RUNSAV . CONTROL , MODE=A

DATADEF DDKARTE , DSN=ADASAV . CONTROL , MODE=A

ADARUN

```


Contents of RUNSAV CONTROL A1:

```
ADARUN  PROG=ADASAV,DSF=YES...
```

Contents of ADASAV CONTROL A1:

```
ADASAV  RESTORE DELTA,OVERWRITE
```

```
ADASAV          FMOVE=10,20,30,...
```

Save Database (ADASAV SAVE)

```
DATADDEF  DDDATAR1,DSN=ADABASV.V.DATA,VOL=DATAV1
```

```
DATADDEF  DDWORKR1,DSN=ADABASV.V.WORK,VOL=WORKV1
```

```
DATADDEF  DDASSOR1,DSN=ADABASV.V.ASSO,VOL=ASSOV1
```

```
DATADDEF  DDDSIMR1,DSN=ADABASV.V.DSIM,VOL=DSIM
```

```
DATADDEF  DDSAVE1,DSN=ADABASV.V.SAVE040.PART1,MODE=A
```

```
DATADDEF  DDSAVE2,DSN=ADABASV.V.SAVE040.PART2,MODE=A
```

```
DATADDEF  DDSAVE3,DSN=ADABASV.V.SAVE040.PART3,MODE=A
```

```
DATADDEF  DDSAVE4,DSN=ADABASV.V.SAVE040.PART4,MODE=A
```

```
DATADDEF  DDPRINT,DSN=ADASAV.DDPRINT,MODE=A
```

```
DATADDEF  DDDRUCK,DSN=ADASAV.DDDRUCK,MODE=A
```

```
DATADDEF  DDCARD,DSN=RUNSAV.CONTROL,MODE=A
```

```
DATADDEF  DDKARTE,DSN=ADASAV.CONTROL,MODE=A
```

```
ADARUN
```

Contents of RUNSAV CONTROL A1:

```
ADARUN  PROG=ADASAV,DSF=YES...
```

Contents of ADASAV CONTROL A1:

```
ADASAV  SAVE
```

```
ADASAV          DRIVES=4
```

```
ADASAV          TTSYN=10
```

Save Database (ADASAV SAVE DELTA)

```
DATADDEF  DDDATAR1,DSN=ADABASV.V.DATA,VOL=DATAV1
```

```
DATADDEF  DDWORKR1,DSN=ADABASV.V.WORK,VOL=WORKV1
```

```
DATADDEF  DDASSOR1,DSN=ADABASV.V.ASSO,VOL=ASSOV1
```

```
DATADDEF  DDDSIMR1,DSN=ADABASV.V.DSIM,VOL=DSIM
```

```
DATADDEF  DDSAVE1,DSN=ADABASV.V.SAVE,MODE=A
```

```
DATADEF DDPRINT , DSN=ADASAV . DDPRINT , MODE=A
DATADEF DDDRUCK , DSN=ADASAV . DDDRUCK , MODE=A
DATADEF DDCARD , DSN=RUNSAV . CONTROL , MODE=A
DATADEF DDKARTE , DSN=ADASAV . CONTROL , MODE=A
ADARUN
```

Contents of RUNSAV CONTROL A1:

```
ADARUN PROG=ADASAV , DSF=YES . . .
```

Contents of ADASAV CONTROL A1:

```
ADASAV SAVE DELTA
ADASAV      TTSYN=10
ADASAV      DSIMDEV=8381
```

VSE/ESA and z/VSE

Data Set	Symbolic	Storage	Logical Unit	More Information
Full save input(s)	RESTn	tape/disk		for RESTORE DELTA
Full save input	FULL	tape disk	SYS030 *	for MERGE
Delta save input(s)	DELn	tape disk	SYS031- SYS038 *	for MERGE or RESTORE DELTA
Delta Save images (DSIM)	DSIMR1	disk		required for online saves
Associator	ASSORn	disk	*	
Data Storage	DATARn	disk		required for SAVE or RESTORE
Work	WORKR1	disk		required for SAVE or RESTORE if nucleus is inactive
Dual/multiple PLOG	PLOGRn	disk	*	optional for RESTORE DELTA
Dual/multiple CLOG	CLOGRn	disk	*	optional for RESTORE DELTA
Recovery log	RLOGR1	disk		required for recovery log
Full or delta save outputs	SAVEN	tape disk	SYS011- SYS018 *	required for SAVE, SAVE DELTA or MERGE
Dual full or delta save outputs	DUALn	tape disk	SYS021- SYS028 *	required if TWOCOPIES is specified
ADARUN parameters	CARD	disk tape reader	* SYS000 SYSIPT	<i>Adabas Operations</i> documentation
ADASAV parameters		reader	SYSIPT	
ADARUN messages		printer	SYSLST	<i>Adabas Messages and Codes</i>
ADASAV messages		printer	SYS009	<i>Adabas Messages and Codes</i>

* Any programmer logical unit can be used.

See the VSE/ESA-related job information in section VSE/ESA Job Control for Delta Save.

For information about using ZAPs to change VSE/ESA logical units, see the *Adabas Installation* documentation.

Merge Delta Save Output (ADASAV MERGE)

```
// EXEC PROC=ADAVvFIL
// EXEC PROC=ADAVvLIB
// ASSGN SYS030,TAPE
// TLBL FULL,'EXAMPLE.DB99.SAVE01'
// TLBL FULL01,'EXAMPLE.DB99.SAVE02'
// TLBL FULL02,'EXAMPLE.DB99.SAVE03'
// TLBL FULL03,'EXAMPLE.DB99.SAVE04'
// ASSGN SYS031,TAPE
// TLBL DEL1,'EXAMPLE.DB99.DEL1'
// ASSGN SYS011,TAPE
// TLBL SAVE1,'EXAMPLE.DB99.SAVE1'
// ASSGN SYS012,TAPE
// TLBL SAVE2,'EXAMPLE.DB99.SAVE2'
// ASSGN SYS013,TAPE
// TLBL SAVE3,'EXAMPLE.DB99.SAVE3'
// ASSGN SYS014,TAPE
// TLBL SAVE4,'EXAMPLE.DB99.SAVE4'
// ASSGN SYS021,TAPE
// TLBL DUAL1,'EXAMPLE.DB99.DUAL1'
// ASSGN SYS022,TAPE
// TLBL DUAL2,'EXAMPLE.DB99.DUAL2'
// ASSGN SYS023,TAPE
// TLBL DUAL3,'EXAMPLE.DB99.DUAL3'
// ASSGN SYS024,TAPE
// TLBL DUAL4,'EXAMPLE.DB99.DUAL4'
// EXEC ADARUN,SIZE=ADARUN
ADARUN PROG=ADASAV,DSF=YES,...
/*
ADASAV MERGE PATTERN='FD'
ADASAV          DRIVES=4
```

```
ADASAV          TWOCOPIES
```

```
/*
```

Merge and Restore Database (ADASAV RESTORE DELTA)

```
// EXEC PROC=ADAVvFIL
// EXEC PROC=ADAVvLIB
// ASSGN SYS031,TAPE
// TLBL DEL1,'EXAMPLE.DB99.DEL1'
// ASSGN SYS032,TAPE
// TLBL DEL2,'EXAMPLE.DB99.DEL2'
// TLBL DEL201,'EXAMPLE.DB99.DEL3'
// TLBL DEL202,'EXAMPLE.DB99.DEL4'
// ASSGN SYS011,TAPE
// TLBL REST1,'EXAMPLE.DB99.SAVE1'
// ASSGN SYS012,TAPE
// TLBL REST2,'EXAMPLE.DB99.SAVE2'
// ASSGN SYS013,TAPE
// TLBL REST3,'EXAMPLE.DB99.SAVE3'
// ASSGN SYS014,TAPE
// TLBL REST4,'EXAMPLE.DB99.SAVE4'
// EXEC ADARUN,SIZE=ADARUN
ADARUN PROG=ADASAV,DSF=YES,...
```

```
/*
```

```
ADASAV RESTORE DELTA,OVERWRITE
```

```
ADASAV          DRIVES=4
```

```
ADASAV          DSIMDEV=8381
```

```
ADASAV          PATTERN='FDD'
```

```
ADASAV          PLOGDEV=3390,CLOGDEV=3390
```

```
/*
```

Restore Files (ADASAV RESTORE DELTA,FMOVE...)

```
// EXEC PROC=ADAVvFIL
// EXEC PROC=ADAVvLIB
// ASSGN SYS031,TAPE
// TLBL DEL1,'EXAMPLE.DB99.DEL1'
// ASSGN SYS032,TAPE
// TLBL DEL2,'EXAMPLE.DB99.DEL2'
// ASSGN SYS011,TAPE
// TLBL REST1,'EXAMPLE.DB99.SAVE1'
// TLBL REST101,'EXAMPLE.DB99.SAVE2'
// TLBL REST102,'EXAMPLE.DB99.SAVE3'
// TLBL REST103,'EXAMPLE.DB99.SAVE4'
// EXEC ADARUN,SIZE=ADARUN
```

```
ADARUN PROG=ADASAV,DSF=YES,...
```

```
/*
```

```
ADASAV RESTORE DELTA,OVERWRITE
```

```
ADASAV          FMOVE=...
```

```
/*
```

Save Database (ADASAV SAVE)

```
// EXEC PROC=ADAVvFIL
// EXEC PROC=ADAVvLIB
// ASSGN SYS011,TAPE
// TLBL SAVE1,'EXAMPLE.DB99.SAVE1'
// EXEC ADARUN,SIZE=ADARUN
```

```
ADARUN PROG=ADASAV,DSF=YES,...
```

```
/*
```

```
ADASAV SAVE
```

```
ADASAV          DRIVES=4
```

```
/*
```

Save Database (ADASAV SAVE DELTA)

```
// EXEC PROC=ADAVvFIL
// EXEC PROC=ADAVvLIB
// ASSGN SYS011,TAPE
// TLBL SAVE1,'EXAMPLE.DB99.SAVE1'
// EXEC ADARUN,SIZE=ADARUN
ADARUN PROG=ADASAV,DSF=YES,...
/*
ADASAV SAVE DELTA
ADASAV      TTSYN=10
ADASAV      DSIMDEV=8381,...
/*
```