

Adabas Session Execution

An Adabas session involves the execution of the Adabas nucleus which controls access/update to a single database. This chapter describes the job control statements needed when executing an Adabas session under each supported operating system. For examples of the Adabas utility jobs, see the Adabas Utilities documentation.

This chapter covers the following topics:

- Program Synchronization Using Operating System Services
 - BS2000 Session
 - OS/390 or z/OS Session
 - VM/ESA or z/VM Session
 - VSE/ESA Session
 - Notes
 - Single-User Mode
 - User Profile
-

Program Synchronization Using Operating System Services

Adabas version 7 uses operating system services to synchronize the start and end of nucleus and utility executions. Only one program can modify the data integrity block (DIB) at a time.

The operating system services used are as follows:

Operating System	Service
OS/390 and z/OS	systems-wide ENQ/DEQ macros (SCOPE=SYSTEMS) with major name (QNAME) 'ADABAS'
BS2000	system-wide ENQAR/DEQAR macros (SCOPE=GLOBAL)
VSE/ESA	system-wide LOCK/UNLOCK macros
VM/ESA and z/VM	system-wide ENQ/DEQ macros (SCOPE=SYSTEMS) with major name (QNAME) 'ADABAS'

This feature reliably and efficiently guarantees proper synchronization of DIB updates within a single operating-system image.

If your database resides on disks that are shared among multiple images of the operating system and you run nucleus or utility jobs against the same database on more than one of the system images, you need to ensure that

- the system images are installed in such a way that synchronization is effective on all systems where nucleus and utility jobs execute; or
- nucleus and utility jobs do not execute concurrently on different system images.

Consult your system programmer for the needed information.



Warning:

If different nucleus or utility jobs updating the same file are allowed to start or terminate on different system images at the same time without proper synchronization, a DIB update may be lost. If this happens, a lock in the DIB may be violated, thereby opening the file to the possibility of destruction due to concurrent unsynchronized updates by utilities.

BS2000 Session

The following table contains all datasets which are used when executing an Adabas session under BS2000.

Dataset	Link Name	Logical Unit	Storage Medium	Additional Information
ADARUN parameters	DDCARD	SYSDTA	disk	note 1
ADARUN / Adabas messages	DDPRINT	SYSOUT	disk	note 2
Associator	DDASSORn		disk	note 3
Data Storage	DDDATArn		disk	note 3
Work	DDWORKR1		disk	note 4
Recovery Aid log	DDRLOGR1		disk	note 5
Protection log multiple log 1 multiple log 2	DDSIBA DDPLOGR1 DDPLOGR2		tape disk disk disk	note 6 note 7 note 7
Command log multiple log 1 multiple log 2	DDLOG DDCLOGR1 DDCLOGR2		tape disk disk disk	note 8 note 9 note 9
ECS encoding objects	DDECSONJ		tape/disk	note 10

- Example of Adabas Session Job Control (BS2000)
- JCL Required for UES Support (BS2000)

Example of Adabas Session Job Control (BS2000)

This job includes multiple protection logging, multiple command logging, Recovery Aid logging, and universal encoding support (UES):

In SDF Format:

```
/ .ADANUC LOGON
/MODIFY-TEST-OPTIONS DUMP=YES
/REMARK *
/REMARK * ADABAS NUCLEUS
/REMARK *
/ASS-SYSLST L.NUC
/ASS-SYSDTA *SYSCMD
/SET-FILE-LINK DDLIB,ADAvrs.MOD
/SET-FILE-LINK DDASSOR1,ADAYYYYYY.ASSO,SHARE-UPD=YES
/SET-FILE-LINK DDDATAR1,ADAYYYYYY.DATA,SHARE-UPD=YES
/SET-FILE-LINK DDWORKR1,ADAYYYYYY.WORK
/SET-FILE-LINK DDPLGR1,ADAYYYYYY.PLOGR1,SHARE-UPD=YES
/SET-FILE-LINK DDPLGR2,ADAYYYYYY.PLOGR2,SHARE-UPD=YES
/SET-FILE-LINK DDCLOGR1,ADAYYYYYY.CLOGR1,SHARE-UPD=YES
/SET-FILE-LINK DDCLOGR2,ADAYYYYYY.CLOGR2,SHARE-UPD=YES
/SET-FILE-LINK DDRLOGR1,ADAYYYYYY.RLOGR1,SHARE-UPD=YES
/START-PROGRAM *M(ADA.MOD,ADARUN),PR-MO=ANY
ADARUN PROG=ADANUC,DB=yyyyy
ADARUN LBP=600000
ADARUN LWP=320000
ADARUN LS=80000
ADARUN LP=400
ADARUN NAB=24
ADARUN NC=50
ADARUN NH=2000
ADARUN NU=100
ADARUN TNAAE=180,TNAA=180,TNAX=600,TT=90
ADARUN NPLOG=2,PLOGSIZE=1800,PLOGDEV=dddd
ADARUN NCLOG=2,CLOGSIZE=1800,CLOGDEV=dddd
/REMARK
/LOGOFF SYS-OUTPUT=DEL
```

In ISP Format:

```
/ .ADANUC LOGON
/OPTION MSG=FH,DUMP=YES
/REMARK *
/REMARK * ADABAS NUCLEUS
/REMARK *
/SYSFILE SYSLST=L.NUC

/FILE ADAvrs.MOD ,LINK=DDLIB
/FILE EXAMPLE.ADAYYYYYY.ASSOR1,LINK=DDASSOR1,SHARUPD=YES
/FILE EXAMPLE.ADAYYYYYY.DATAR1,LINK=DDDATAR1,SHARUPD=YES
/FILE EXAMPLE.ADAYYYYYY.WORKR1,LINK=DDWORKR1
/FILE EXAMPLE.ADAYYYYYY.PLOGR1,LINK=DDPLGR1,SHARUPD=YES
/FILE EXAMPLE.ADAYYYYYY.PLOGR2,LINK=DDPLGR2,SHARUPD=YES
/FILE EXAMPLE.ADAYYYYYY.CLOGR1,LINK=DDCLOGR1,SHARUPD=YES
/FILE EXAMPLE.ADAYYYYYY.CLOGR2,LINK=DDCLOGR2,SHARUPD=YES
/FILE EXAMPLE.ADAYYYYYY.RLOGR1,LINK=DDRLOGR1,SHARUPD=YES
/EXEC (ADARUN,ADAvrs.MOD)
ADARUN PROG=ADANUC,DB=yyyyy
ADARUN LBP=600000
ADARUN LWP=320000
```

```
ADARUN LS=80000
ADARUN LP=400
ADARUN NAB=24
ADARUN NC=50
ADARUN NH=2000
ADARUN NU=100
ADARUN TNAE=180,TNAA=180,TNAX=600,TT=90
ADARUN NPLOG=2,PLOGSIZE=1800,PLOGDEV=dddd
ADARUN NCLOG=2,CLOGSIZE=1800,CLOGDEV=dddd
/REMARK
/LOGOFF NOSPOOL
```

JCL Required for UES Support (BS2000)

If you are using universal encoding support (UES), the following additional JCL is required for BS2000 environments:

In SDF Format:

```
/SET-FILE-LINK DDECSDJ,ADAvrs.ALLECSO
```

In ISP Format:

```
/FILE ADAvrs.ALLECSO,LINK=DDECSDJ
```

OS/390 or z/OS Session

The following datasets are required when executing an Adabas session under OS/390 or z/OS.

Dataset	Dataset Name	Storage Medium	Additional Information
ADARUN parameters	DDCARD	card image	note 1
ADARUN / Adabas messages	DDPRINT	printer	note 2
Associator	DDASSORn	disk	note 3
Data Storage	DDDATARn	disk	note 3
Work	DDWORKR1	disk	note 4
Recovery Aid log	DDRLOGR1	disk	note 5
Protection log multiple log 1 multiple log 2	DDSIBA DDPLOGR1 DDPLOGR2	tape/disk disk disk	note 6 note 7 note 7
Command log multiple log 1 multiple log 2	DDLOG DDCLOGR1 DDCLOGR2	tape/disk disk disk	note 8 note 9 note 9
ECS encoding objects	DDECSONJ	tape/disk	note 10
Abnormal termination	MPMDUMP	printer	note 11
SMGT dump and snap dump	ADASNAP	printer	note 12

- Example of Adabas Session Job Control (OS/390 and z/OS)
- JCL Required for UES Support (OS/390 and z/OS)
- JCL Required for UES and TCP/IP Support (OS/390 and z/OS)

Example of Adabas Session Job Control (OS/390 and z/OS)

This job includes multiple protection logging, multiple command logging, and Recovery Aid logging:

```
//NUC099    EXEC PGM=ADARUN
//STEPLIB   DD DISP=SHR,DSN=ADABAS.Vvrs.ADAvrs.MVSLOAD
//DDASSOR1  DD DISP=SHR,DSN=EXAMPLE.ADAYYYYYY.ASSOR1
//DDDATAR1  DD DISP=SHR,DSN=EXAMPLE.ADAYYYYYY.DATAR1
//DDWORKR1  DD DISP=OLD,DSN=EXAMPLE.ADAYYYYYY.WORKR1
//DDPLOGR1  DD DISP=SHR,DSN=EXAMPLE.ADAYYYYYY.PLOGR1
//DDPLOGR2  DD DISP=SHR,DSN=EXAMPLE.ADAYYYYYY.PLOGR2
//DDCLOGR1  DD DISP=SHR,DSN=EXAMPLE.ADAYYYYYY.CLOGR1
//DDCLOGR2  DD DISP=SHR,DSN=EXAMPLE.ADAYYYYYY.CLOGR2
//DDRLOGR1  DD DISP=SHR,DSN=EXAMPLE.ADAYYYYYY.RLOGR1
//DDPRINT   DD SYSOUT=X
//SYSUDUMP  DD SYSOUT=X
//MPMDUMP   DD SYSOUT=X
//ADASNAP   DD SYSOUT=X
//DDCARD    DD *
ADARUN PROG=ADANUC,DB=YYYYYY
ADARUN LBP=600000
ADARUN LWP=320000
ADARUN LS=80000
```

```

ADARUN LP=400
ADARUN NAB=24
ADARUN NC=1000
ADARUN NH=2000
ADARUN NU=100
ADARUN TNAAE=180 ,TNAAA=180 ,TNAX=600 ,TT=90
ADARUN NPLOG=2 ,PLOGSIZE=1800 ,PLOGDEV=dddd
ADARUN NCLOG=2 ,CLOGSIZE=1800 ,CLOGDEV=dddd
//
```

where

ddd is a valid device type.

nn is the load library level. If the library with a higher level number is not a full replacement for the lower level load library(s), the library with the higher level must precede those with lower numbers in the steplib concatenation.

vrs is the version, revision, and system maintenance level of the product.

yyyyy is the physical database ID.

JCL Required for UES Support (OS/390 and z/OS)

If you are using universal encoding support (UES), you must

- include the following additional libraries for internal products in the steplib:

```

//STEPLIB DD DISP=SHR,DSN=ADABAS.Vvrs.BTEvrs.MVSLDnn
//          DD DISP=SHR,DSN=ADABAS.Vvrs.APSvrs.MVSLDnn
```

where "nn" is the load library level. If the library with a higher level number is not a full replacement for the lower level load library(s), the library with the higher level must precede those with lower numbers in the steplib concatenation.

Note:

If you are using an Adabas load library prior to version 7.2.2, it contains internal product libraries with an earlier version number and must be ordered below the current internal product libraries in the steplib concatenation.

- add the following additional JCL related to internal product libraries:

```

//DDECSDOJ DD DISP=SHR,DSN=ADABAS.Vvrs.BTEvrs.MVSECSO
//SYSPARM DD *
SYSTEM_ID=ADAAPS
ABEND_RECOVERY=NO
TRHEAD_ABEND_RECOVERY=NO
```

JCL Required for UES and TCP/IP Support (OS/390 and z/OS)

If you are connecting your UES-enabled database directly through a TCP/IP link, you must also

- include the ADATCP library in the steplib:

```
//STEPLIB DD ....
//          DD DISP=SHR,DSN=ADABAS.Vvrs.WATvrs.MVSLOAD
```

- identify the TCP/IP stack you intend to use with the CDI_DRIVER parameter of the SYSPARM statement:

```
//DDECSDOJ DD DISP=SHR,DSN=ADABAS.BTEvrs.MVSECSO
//SYSPARM DD *
SYSTEM_ID=ADAAPS
ABEND_RECOVERY=NO
TRHEAD_ABEND_RECOVERY=NO
* User must choose one of the following depending on the TCP/IP stack used:
*CDI_DRIVER=(‘tcpip,PAALSOCK,SUBSYS=ACSS’)           <--Interlink TCP/IP stack
*CDI_DRIVER=(‘tcpip,PAAISOCK,ADDRSPCE=STACKNAME’)    <--IBM TCP/IP stack for HPS
*CDI_DRIVER=(‘tcpip,PAAOSOCK,ADDRSPCE=STACKNAME’)    <--IBM TCP/IP stack for OE
```

VM/ESA or z/VM Session

The following table contains all datasets which are used when executing an Adabas session under VM/ESA.

Dataset	Dataset Name	Storage Medium	Additional Information
ADARUN parameters	DDCARD	card image	note 1
ADARUN/Adabas messages	DDPRINT	printer	note 2
Associator	DDASSORn	disk	note 3
Data Storage	DDDATARn	disk	note 3
Work	DDWORKR1	disk	note 4
Recovery Aid log	DDRLOGR1	disk	note 5
Protection log multiple log 1 multiple log 2	DDSIBA DDPLOGR1 DDPLOGR2	tape/disk disk disk	note 6 note 7 note 7
Command log multiple log 1 multiple log 2	DDLOG DDCLOGR1 DDCLOGR2	tape/disk disk disk	note 8 note 9 note 9
ECS encoding objects	DDECSDOJ	tape/disk	note 10
Abnormal termination	-	printer	note 11

- Example of Adabas Session Job Structure (VM/ESA or z/VM)
- JCL Required for UES Support (VM/ESA or z/VM)

Example of Adabas Session Job Structure (VM/ESA or z/VM)

This job includes multiple protection logging, multiple command logging, Recovery Aid logging, and universal encoding support (UES):

```

DATADEF DDASSOR1,DSN=EXAMPLE.ADAyyyyy.ASSOR1,VOL=ASSOV1
DATADEF DDDATAR1,DSN=EXAMPLE.ADAyyyyy.DATAR1,VOL=DATAV1
DATADEF DDWORKR1,DSN=EXAMPLE.ADAyyyyy.WORKR1,VOL=WORKV1
DATADEF DDPLOGR1,DSN=EXAMPLE.ADAyyyyy.PLOGR1,VOL=PLOGV1
DATADEF DDPLOGR2,DSN=EXAMPLE.ADAyyyyy.PLOGR2,VOL=PLOGV2
DATADEF DDCLOGR1,DSN=EXAMPLE.ADAyyyyy.CLOGR1,VOL=CLOGV1
DATADEF DDCLOGR2,DSN=EXAMPLE.ADAyyyyy.CLOGR2,VOL=CLOGV2
DATADEF DDRLOGR1,DSN=EXAMPLE.ADAyyyyy.RLOGR1,VOL=RLOGV1
DATADEF DDPRT,DSN=ADANUC.DDPRT,MODE=A
DATADEF DUMP,DUMMY
DATADEF DDCARD,DSN=RUNNUC.CONTROL,MODE=A
ADARUN

```

CONTENTS OF RUNNUC.CONTROL.A1 :

```

ADARUN PROG=ADANUC,DEVICE=dddd,DB=YYYYYY
ADARUN LBP=600000
ADARUN LWP=320000
ADARUN LS=80000
ADARUN LP=400
ADARUN NAB=24
ADARUN NC=1000
ADARUN NH=2000
ADARUN NU=100
ADARUN TNAA=180,TNAX=600,TT=90
ADARUN NPLOG=2,PLOGSIZE=1800,PLOGDEV=dddd
ADARUN NCLOG=2,CLOGSIZE=1800,CLOGDEV=dddd

```

Note:

See the Adabas Installation documentation for more information about Adabas operation under VM/ESA or z/VM.

JCL Required for UES Support (VM/ESA or z/VM)

If you are using universal encoding support (UES), the following additional JCL is required for VM/ESA environments:

```
DATADEF DDECSDJ,DSN=ADAvrs.ALLECSO,VOL=ECSOBJ
```

VSE/ESA Session

The following table contains all datasets used when executing an Adabas session under VSE/ESA. "SYSnnn" means that any programmer logical unit may be used.

Dataset	File Name	Logical Unit	Storage Medium	Additional Information
ADARUN parameters	none CARD CARD	SYSRDR SYS000 SYSnnn	reader tape disk	note 1
ADARUN/Adabas messages	none	SYSLST	printer	note 2
Associator	ASSORn	SYSn nn	disk	note 3
Data Storage	DATARn	SYSn nn	disk	note 3
Work	WORKR1	SYSn nn	disk	note 4
Recovery Aid log	RLOGR1	SYSn nn	disk	note 5
Protection log multiple log 1 multiple log 2	SIBA PLOGR1 PLOGR2	SYS014 SYSn nn SYSn nn SYSn nn	tape disk disk disk	note 6 note 7 note 7
Command log multiple log 1 multiple log 2	LOG CLOGR1 CLOGR2	SYS012 SYSn nn SYSn nn SYSn nn	tape disk disk disk	note 8 note 9 note 9
ECS encoding objects	DDEC SOJ	SYS020 *	tape disk	note 10

- Example of Adabas Session Job Control (VSE/ESA)
- JCL Required for UES Support (VSE/ESA)

Example of Adabas Session Job Control (VSE/ESA)

This job includes multiple protection logging, multiple command logging, and Recovery Aid logging:

```
// ASSGN SYS031,dddd,VOL=ADA001,SHR
// ASSGN SYS032,dddd,VOL=ADA002,SHR
// ASSGN SYS033,dddd,DISK,VOL=ADA003,SHR
// ASSGN SYS034,dddd,VOL=ADA004,SHR
// DLBL
ASSOR1,'EXAMPLE.ADAYYYYYY.ASSOR1',2099/365,DA
// EXTENT SYS031,ADA001,,,15,1500
// DLBL DATAR1,'EXAMPLE.ADAYYYYYY.DATAR1',2099/365,DA
// EXTENT SYS032,ADA002,,,15,3000
// DLBL WORKR1,'EXAMPLE.ADAYYYYYY.WORKR1',2099/365,DA
// EXTENT SYS033,ADA003,,,15,600
// DLBL PLOGR1,'EXAMPLE.ADAYYYYYY.PLOGR1',2099/365,DA
// EXTENT SYS034,ADA004,,,15,600
// DLBL PLOGR2,'EXAMPLE.ADAYYYYYY.PLOGR2',2099/365,DA
// EXTENT SYS034,ADA004,,,615,600
// DLBL CLOGR1,'EXAMPLE.ADAYYYYYY.CLOGR1',2099/365,DA
// EXTENT SYS034,ADA004,,,1215,600
// DLBL CLOGR2,'EXAMPLE.ADAYYYYYY.CLOGR2',2099/365,DA
// EXTENT SYS034,ADA004,,,1815,600
// DLBL RLOGR1,'EXAMPLE.ADAYYYYYY.RLOGR1',2099/365,DA
```

```

// EXTENT SYS034,ADA004,,,1300,600
// DLBL ADAvCL,'ADABAS.Vvrs.LOADLIB',2099/365
// EXTENT ,ADADSK
// EXEC ADARUN,SIZE=ADARUN
ADARUN PROG=ADANUC,SVC=xxx,DEVICE=dddd,DB=YYYYYY
ADARUN LBP=600000
ADARUN LWP=320000
ADARUN LS=80000
ADARUN LP=400
ADARUN NAB=24
ADARUN NC=1000
ADARUN NH=2000
ADARUN NU=100
ADARUN TNAAE=180,TNAA=180,TNAX=600,TT=90
ADARUN NPLOG=2,PLOGSIZE=1800,PLOGDEV=dddd
ADARUN NCLOG=2,CLOGSIZE=1800,CLOGDEV=dddd
/*
/*

```

JCL Required for UES Support (VSE/ESA)

The following additional JCL is required for universal encoding support (UES):

```

// ASSGN SYS020,disk,VOL=volume,SHR
// DLBL DDECSDJ,'ADABAS.Vvrs.ECSLIB'
// EXTENT SYS020

```

Notes

1.

This dataset is used to provide the Adabas session parameters.

2.

This dataset is used to print messages produced by the control module ADARUN and/or the Adabas nucleus.

3.

The Adabas Associator and Data Storage. These datasets are mandatory.

"n" represents the number of the Associator and Data Storage dataset, respectively. If only one dataset exists for each, "n" must be "1". If more than one dataset exists for Associator and/or Data Storage, a separate statement is required for each. For example, if the Associator consists of two datasets, the statements DD/ASSOR1 and DD/ASSOR2 are required.

4.

The Adabas Work dataset. This dataset is mandatory.

Software AG recommends running the nucleus with DISP=OLD (under OS/390 or z/OS; "share" not specified for BS2000 and VSE/ESA) for the WORKR1 dataset as a way of preventing two nuclei from writing to the same WORK dataset and corrupting the database. This could otherwise happen if the ADARUN parameters FORCE and IGNDIB are improperly used.

5.

If the Adabas Recovery Aid is being used, this logging dataset is required.

6.

The data protection log dataset. This dataset is required if the database will be updated during the session and logging of protection information is desired. This dataset is not applicable if multiple protection logging is used.

The data protection log may be assigned to tape or disk. A new dataset must be used for each Adabas session (DISP=MOD may not be used). See *Adabas Restart and Recovery* for additional information.

7.

Multiple (two to eight) data protection log datasets. These datasets are required only if multiple data protection logging is to be in effect for the session.

Multiple data protection logging is activated by the ADARUN NPLOG and PLOGSIZE parameters. The device type of the multiple protection logs is specified with the ADARUN PLOGDEV parameter.

Whenever one of multiple protection log datasets is full, Adabas switches automatically to another dataset and notifies the operator through a console message that the log which is full should be copied using the PLCOPY function of the ADARES utility. This copy procedure may also be implemented using the user exit 12 facility as described in the User Exits documentation.

If no command logging is to be performed, this dataset may be omitted.

8.

The command log dataset. This dataset is required if command logging is to be performed during the session. Command logging is activated by the ADARUN LOGGING parameter.

9.

Multiple (two to eight) command log datasets. These datasets are required only if multiple command logging is to be in effect for the session.

Multiple command logging is activated by the ADARUN NCLOG and CLOGSIZE parameters. The device type of the multiple command log datasets is specified with the ADARUN CLOGDEV parameter.

Whenever one of multiple command log datasets is full, Adabas switches automatically to another dataset and notifies the operator through a console message that the log which is full should be copied using the CLCOPY function of the ADARES utility. This copy procedure may also be implemented using the user exit 12 facility as described in the Adabas User Exits documentation.

10.

The Entire Conversion Services (ECS) objects dataset is required for universal encoding support (UES).

11.

This dataset is used to take an Adabas dump including SVC, ID-TABLE and allocated CSA in the event that an abnormal termination occurs.

The line count in the JCL must be set appropriately; otherwise, the dump cannot be printed in its entirety.

12.

This dataset is used under OS/390 or z/OS to take an Adabas dump (SMGT,DUMP) or snap dump (SMGT,SNAP) when using the error handling and message buffering facility.

Single-User Mode

Although the normal mode of operation is multiuser mode, it is also possible to execute Adabas together with a user program or Adabas utility in the same region.

For single-user mode, you must include the Adabas nucleus job control that you use along with the job control for the utility or user program.

The Adabas prefetch option cannot be used in single-user mode; however, single-user mode *must* be used when running a read-only nucleus and an update nucleus simultaneously.

User Profile

Some information within an Adabas database is user-related and must be retained from session to session. One such kind of information is ET data records; another is the priority value assigned to a user.

A set of user-related information can be stored in a profile table. The values stored in this table are read at OPEN time and assigned to the user. The direct call user must OPEN the Adabas session with the proper call; that is, as an ID user with an ETID in the additions 1 field of the Adabas control block. For Natural users, the profile table is identified by the Natural ETID.

The associated fields are user-related timeout and threshold values, and the OWNERID for mult-client fields. One record per user is stored. The profile table is maintained using Adabas Online System.

Profile Table Values

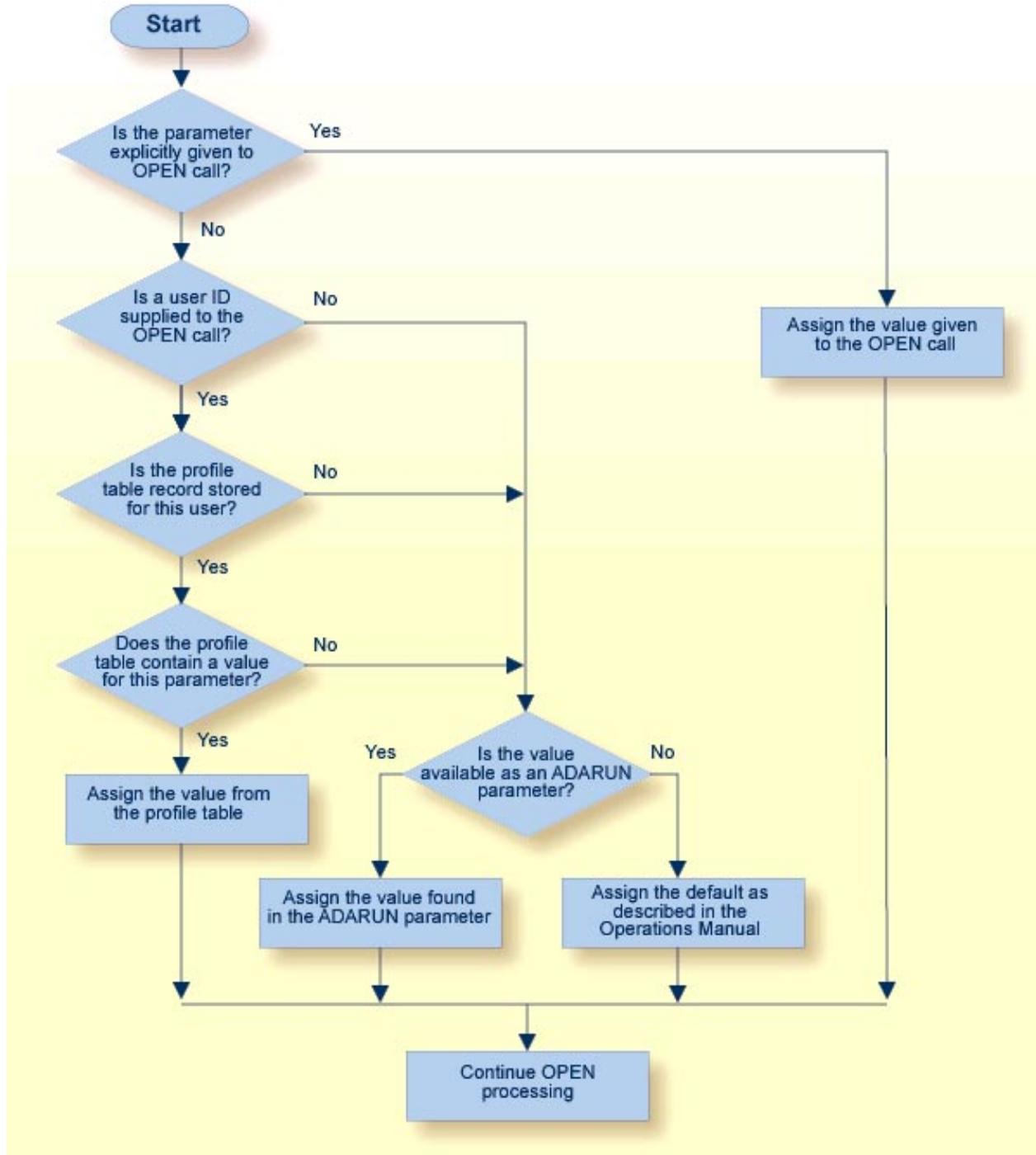
The user-related values shown below are currently stored in the profile table.

Value	Description
PRIORITY	User's priority (0-255)
TNAA*	Access user non-activity time
TNAE*	ET user non-activity time
TNAX*	EXU/EXF user non-activity time
TT*	Transaction time threshold
TLSCMD*	Sx command threshold
NSISN*	Maximum number of ISNs per TBI element
NSISNHQ*	Maximum number of records held by user
NQCID*	Maximum number of active command IDs per user
OWNERID	Owner ID for multiclient file access

* The decision sequence for determining the values for a user at the time of an open call is shown in *Managing the User Profile*.

Managing the User Profile

Adabas Online System (AOS) must be used to maintain the profile table. See the Adabas Online System documentation for detailed information about managing the profile table.



Profile Table Decision Flow