

Performing System Operator Command Functions

Selecting Session Opercoms (option **O**) from the **Main Menu** displays the **Session Opercoms** menu:

```

13:14:33          ***** A D A B A S  BASIC  SERVICES *****          2009-08-24
                        - Session Opercoms -                               PACI002

Code  Service                                           Code  Service
-----
A    Allocate/Deallocate CLOG/PLOG                    S    Stop user(s)
C    Issue reactivate CLOG command                    T    Termination Commands
E    Extended Error Recovery                          U    Manage Online Utilities
F    Force CLOG or PLOG switch                        V    User Table Maintenance
L    Lock or unlock files                             X    Replicator Management
R    Reset ONLINE-DUMP-Status                          ?    Help
.    Exit

-----
Code ..... _
Userid(ETID) ... _____
CLOG/PLOG Ind .. _ Global.. _
Database ID .... 1955   (WIS1955)                   NucID .. 1021

Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help                Exit                Menu

```

Note:

A zero value in the NucID field indicates that the command applies to all nuclei in the cluster (global). A non-zero value for NucID indicates that the command applies only to the cluster nucleus specified.

System operator command functions you can perform are accessed from the Session Opercoms menu by entering the appropriate code, as follows:

Option	Function
A	<i>Allocating/Deallocating CLOG and PLOG Data Sets</i>
C	<i>Reactivating Command Logging</i>
E	<i>Extended Error Recovery Functions</i>
F	<i>Forcing Dual/Multiple CLOG/PLOG Switch</i>
L	<i>Locking / Unlocking files</i>
R	<i>Resetting Online Dump Status</i>
S	<i>Stopping Users</i>
T	<i>Termination Commands</i>
U	<i>Managing Online Utilities</i>
V	<i>Maintaining the User Table (nucleus cluster environments only)</i>
X	<p>Displays the Replication Management menu, which allows you to access the Adabas Event Replicator Subsystem (SYSRPTR) as well as to activate and deactivate subsystem definitions, run the RPLCHECK, RPLCLEANUP, or RPLREFRESH utilities, and display subsystem parameters and definitions.</p> <p>Note: This option is only available if the database you have selected is an Event Replicator Server database.</p> <p>For more information about the Adabas Event Replicator Subsystem or any of the functions you can perform from the Replication Management menu, refer to your Event Replicator for Adabas documentation.</p>

Allocating/Deallocating CLOG and PLOG Data Sets

Option A (Allocate/Deallocate CLOG/PLOG) on the **Session Opercoms** menu is used to dynamically add and delete CLOG and PLOG data sets without terminating your current nucleus session. Using this function, you can specify up to eight CLOG or PLOG data sets. This will reduce the chances of a wait condition in the nucleus, when the nucleus waits for an available CLOG or PLOG. You might find this particularly useful during busier times of the month or year.

This function corresponds to the utility functions ADADBS ADDCLOG, ADDPLOG, DELCLOG, and DELPLOG.

When you select option A, the **Allocate/Deallocate CLOG/PLOG** menu appears.

To add a CLOG or PLOG data set dynamically, the nucleus must know about its JCL at startup time. To use this functionality in AOS, you must set up your Adabas nucleus startup jobs to include definition statements for the maximum number of CLOG and PLOG data sets as you plan to use, but limit the actual usage of the PLOGs using the ADARUN NCLOG and NPLOG parameters. For example, you might start a nucleus with eight PLOG definitions in the Adabas startup JCL, but limit the number of PLOGs actually used during nucleus processing to three PLOGs by setting the NPLOG parameter to "3". When the nucleus starts up, only three PLOGs will be opened and logged in the PPT, even though eight are defined

in the JCL. The additional PLOG data sets can then be dynamically added using this ADADBS ADDPLOG utility or the functions provided on the AOS **Allocate/Deallocate CLOG/PLOG** menu.

Note:

Any CLOG or PLOG data sets you add dynamically will not be retained once you recycle your Adabas nucleus. To retain these new data sets when Adabas is stopped and restarted, alter the Adabas startup JCL as well, ensuring that the number of PLOG definition statements in the JCL matches the increased number of PLOG data sets and that the NPLOG ADARUN parameter setting includes the new PLOG data sets.

```

14:26:24          ***** A D A B A S  BASIC  SERVICES *****          2009-08-24
                   - Allocate/Deallocate CLOG/PLOG -                   PACIA02

                   Code      Service
                   ----      -
                   A         Allocate CLOG
                   D         Deallocate CLOG
                   P         Allocate PLOG
                   S         Deallocate PLOG
                   ?         Help
                   .         Exit
                   ----      -

Code ..... _
Dataset number . _
Dataset Name ... _____

Database ID .... 1955 (WIS1955)          NucID .. 1021

Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----

```

This section covers the following topics:

- Allocating CLOG Data Sets
- Deallocating CLOG Data Sets
- Allocating PLOG Data Sets
- Deallocating PLOG Data Sets

Allocating CLOG Data Sets

Option **A** (Allocate CLOG) on the **Allocate/Deallocate CLOG/PLOG** menu is used to dynamically add CLOG data sets without terminating your current nucleus session.

This function corresponds to the utility function ADADBS ADDCLOG.

 **To allocate a CLOG data set:**

1. Select option **A** on the **Allocate/Deallocate CLOG/PLOG** menu.

2. In the Dataset number field, specify the number of the CLOG data set, as defined in your Adabas startup JCL.
3. In the Dataset Name field, specify the data set name of the CLOG data set, as defined in your Adabas startup JCL.
4. Press Enter.

The CLOG data set is allocated and can immediately be used.

When you select option **A**, the **Allocate/Deallocate CLOG/PLOG** menu appears.

Deallocating CLOG Data Sets

Option **D** (Deallocate CLOG) on the **Allocate/Deallocate CLOG/PLOG** menu is used to dynamically delete CLOG data sets without terminating your current nucleus session.

This function corresponds to the utility function ADADBS DELCLOG.

To deallocate a CLOG data set:

1. Select option **D** on the **Allocate/Deallocate CLOG/PLOG** menu.
2. In the Dataset number field, specify the number of the CLOG data set, as defined in your Adabas startup JCL.
3. In the Dataset Name field, specify the data set name of the CLOG data set, as defined in your Adabas startup JCL.
4. Press Enter.

The CLOG data set is deallocated and can no longer be used.

Allocating PLOG Data Sets

Option **P** (Allocate PLOG) on the **Allocate/Deallocate CLOG/PLOG** menu is used to dynamically add PLOG data sets without terminating your current nucleus session.

This function corresponds to the utility function ADADBS ADDPLOG.

To allocate a PLOG data set:

1. Select option **P** on the **Allocate/Deallocate CLOG/PLOG** menu.
2. In the Dataset number field, specify the number of the PLOG data set, as defined in your Adabas startup JCL.
3. In the Dataset Name field, specify the data set name of the PLOG data set, as defined in your Adabas startup JCL.
4. Press Enter.

The PLOG data set is allocated and can immediately be used.

Deallocating PLOG Data Sets

Option **S** (Deallocate PLOG) on the **Allocate/Deallocate CLOG/PLOG** menu is used to dynamically delete PLOG data sets without terminating your current nucleus session.

This function corresponds to the utility function ADADBS DELPLOG.

To deallocate a PLOG data set:

1. Select option **S** on the **Allocate/Deallocate CLOG/PLOG** menu.
2. In the Dataset number field, specify the number of the PLOG data set, as defined in your Adabas startup JCL.
3. In the Dataset Name field, specify the data set name of the PLOG data set, as defined in your Adabas startup JCL.
4. Press Enter.

The PLOG data set is deallocated and can no longer be used.

Reactivating Command Logging

Option **C** (Issue reactivate CLOG command) on the **Session Opercoms** menu is used to reactivate command logging in an active nucleus where it had been disabled previously as a result of an I/O error. The cause of the I/O error needs to be corrected before running this function or command logging will simply fail again and will not be reactivated.

This function corresponds to the utility function ADADBS REACTLOG.

When you select option **C**, a request to reactivate command logging is issued.

Extended Error Recovery Functions

Selecting option **E** (Extended Error Recovery) on the **Session Opercoms** menu displays the **Extended Error Recovery** menu:

```

15:41:51          ***** A D A B A S  BASIC  SERVICES *****          2009-08-24
                  - Extended Error Recovery -                          PACIE02

          Code      Service
          ----      -
          B          Display message buffer
          D          Display/modify environment
          E          Display/modify Exit routines
          M          Add/Delete PIN modules
          P          Display/modify PIN routines
          R          Refresh threshold and alert exits
          S          SNAP a nucleus dump
          ?          Help
          .          Exit
          ----      -

Code ..... _
Start Address .. _____ End Address ... _____
Database ID .... 1955      (WIS1955)                NUCID .. 1021

Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help              Exit                          Menu

```

From this menu you can:

- display the message buffer
- display or modify the parameters controlling the extended error handling environment;
- display or modify parameters for invoking the error handling exits;
- add or delete PIN modules;
- display, activate, or deactivate specific PIN routines;
- SNAP a dump image of nucleus memory.

Note:

Option **R** (Refresh threshold and alert exits) is no longer a functional option.

This section covers the following topics:

- Display Message Buffer
- Display/Modify Environment
- Display/Modify Exits
- Add/Delete PIN Modules
- Display/Modify PIN Routines
- Refresh Threshold and Alert Exits

- SNAP a Nucleus Dump

Display Message Buffer

Selecting option **B** (Display Message Buffer) on the **Extended Error Recovery** menu displays the contents of the message buffer on the Display Message Buffer screen.

These functions are the same as the error handling operator commands:

```
SMGT,DISPLAY=MSGBUF
```

```
15:42:46          ***** A D A B A S  BASIC  SERVICES *****          2009-08-24
DBID 1955          -  Display Message Buffer  -          PACIEB2
NUCID .. 1021
Select starting message _____
  Msg Num      Time      Msg ID          Message
-----
      65 07:23:57 ADAM93  User gone Job USAWISRT User ID C4AF1BCC45580904
      66 07:24:21 ADAF1C  Connected to local Reptor 1954
      67 07:24:21 ADAF9W  Cluster connected to Reptor 1954
      68 07:24:21 ADAF9V  Starting a cluster connection to Reptor 1954
      69 07:24:21 ADAF1D  Reconnected to local Reptor 1954
      70 07:24:21 ADAF9W  Cluster connected to Reptor 1954
      71 10:19:51 ADAL13          REACTLOG not allowed
      72 10:44:28 ADAL13          REACTLOG not allowed
      73 10:44:49 ADAL13          REACTLOG not allowed
      74 10:44:54 ADAL13          REACTLOG not allowed
      75 10:44:58 ADAL13          REACTLOG not allowed
      76 10:45:01 ADAL13          REACTLOG not allowed

Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help          Exit       Latest    --        -          +          Menu
```

Press PF4 to refresh the screen and show the latest messages added to the buffer.

The Msg Num column contains the sequential record number for each item in the message buffer. Enter a record number in the field Select starting message to position the display to a particular record.

Display/Modify Environment

Selecting option **D** (Display/modify environment) on the **Extended Error Recovery** menu displays the current setting of several extended error handling parameters on the Display/Modify Environment screen.

The functions on this screen mirror the error handling operator commands:

```
SMGT,{ON | OFF}
SMGT,ABNORMALTERM={ON | OFF}
SMGT,DUMP={ON | OFF}
SMGT,MSGBUF={ON | OFF}
SMGT,DISPLAY=LAST
```

```

15:59:16          ***** A D A B A S  BASIC  SERVICES *****          2009-08-24
DBID 1955          -  Display/Modify Environment  -          PACIED2
NUCID .. 1021

          ----- Parameters ----- Status - Executions -
Extended Error Recovery (SMGT)  ON          0
Message Buffering ..... ON
Abnormal Term. Handler ..... ON          0
Response Code Handler ..... ON          0
Full System Dump (DUMP) ..... OFF

          ----- Most Recent Recovery Action -----
          No error conditions handled

PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help      MsgBuf   Exit                               Menu

```

The parameters with "ON"/"OFF" values in the Status column can be activated and deactivated by changing the value.

Display/Modify Exits

Selecting option **E** (Display/modify Exit routines) on the **Extended Error Recovery** menu displays the status of the exits currently loaded on the List/Modify Exit Routines screen.

These functions are the same as the error handling operator commands

```

SMGT,DISPLAY=EXITS
SMGT,{XACTIVATE | XDEACTIVATE}=exit-code
SMGT,XLOAD=exit-code
SMGT,XLOAD=(exit-code,module-name)
SMGT,{XCRITICAL | XNOTCRITICAL}=exit-code

```



```

16:00:13          ***** A D A B A S BASIC SERVICES *****           2009-08-24
DBID 1955                - List/Modify Exit Routines -                 PACIEE2
NUCID .. 1021
Mark with 'A' Activate, 'D' Deactivate, 'L' Load, 'C' Critical, 'N' Not Crit
M Exit Program Status Critical M Exit Program Status Critical
- - - - -
_ SX00 ADASMXIT Active Critical _ _ _ _ _
- _ _ _ _
- _ _ _ _
- _ _ _ _
- _ _ _ _
- _ _ _ _
- _ _ _ _
- _ _ _ _
- _ _ _ _
- _ _ _ _
- _ _ _ _
- _ _ _ _
- _ _ _ _

PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help                Exit       Refr       --        -         +         Menu
  
```



The exit code, the name of the program invoked by the exit, the current status, and the criticality are listed for each exit. You can change the status and criticality of the exit from this screen.

To change the status and criticality of the exit, enter one of the following codes in the M column next to the selected exit:

Code	Description
A	Activates the exit
D	Deactivates the exit
L	Reloads the exit program in memory or to loads a new exit
C	Makes the exit critical
N	Makes the exit noncritical

After changes have been made, use PF4 to refresh this screen.

Add/Delete PIN Modules

Selecting option **M** (Add/Delete PIN modules) on the **Extended Error Recovery** menu displays a list of currently available PIN modules on the Add/Delete PIN Modules screen.

These functions are the same as the error handling operator commands

```

SMGT, {ADDPIN | DELPIN}=module-name
  
```

```

16:09:48          ***** A D A B A S  BASIC  SERVICES *****          2009-08-24
DBID 1955          -  Add/Delete PIN Modules  -          PACIEM2
NUCID .. 1021

Mark entries with 'A' to Add or 'D' to Delete:

      M  Module      Description      Message
      -  - - - - -  - - - - - - - - - -  - - - - -
      -  ADAMXY      Standard Nucleus PIN Routines
      -  PINAAF      SAF Security
      -  PINAFP      Adabas Fastpath
      -  PINATM      Adabas Transaction Manager
      -  PINAVI      Adabas Vista
      -  PINRSP      Adabas Response Code Handler
      -  PINUES      Universal Encoding Support

PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help                Exit                Menu

```

▶ To load a PIN module into memory:

- Enter "A" in the M column next to the module name.

This command is successful only if the exit module exists in a library accessible to the Adabas nucleus.

▶ To remove a PIN module from memory:

- Enter a "D" in the M column next to the module name.

When deleting a PIN module from memory, all related PIN routines are also removed.

Display/Modify PIN Routines

Selecting option **P** (Display/modify PIN routines) on the **Extended Error Recovery** menu displays a list of PINs currently loaded in memory on the List/Modify PIN Routines screen.

These functions are the same as the error handling operator commands

```

SMGT,DISPLAY=PINS
SMGT,{ACTPIN | DEACTPIN}=pin-number

```

```

16:10:12          ***** A D A B A S  BASIC  SERVICES *****          2009-08-24
DBID 1955          - List/Modify PIN Routines -          PACIEP2
NUCID .. 1021
Mark entries with 'A' Activate, or 'D' Deactivate:          Total Pins: 012

 M  Condition          Error Location          Status  Uses  Module          Message
-  - - - - -          - - - - -          - - - - -  - - - - -  - - - - -          - - - - -
_  000C1000  All Locations          Active   0    ADAMXY
_  000C2000  All Locations          Active   0    ADAMXY
_  000C3000  All Locations          Active   0    ADAMXY
_  000C4000  All Locations          Active   0    ADAMXY
_  000C5000  All Locations          Active   0    ADAMXY
_  000C6000  All Locations          Active   0    ADAMXY
_  000C7000  All Locations          Active   0    ADAMXY
_  000C8000  All Locations          Active   0    ADAMXY
_  000C9000  All Locations          Active   0    ADAMXY
_  000CB000  All Locations          Active   0    ADAMXY
_  000CF000  All Locations          Active   0    ADAMXY
_  00047000  All Locations          Active   0    ADAMXY

PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help          Exit          Refr          --          -          +          Menu

```

For all PIN routines on the list, the screen indicates the conditions that cause them to be executed, the current status, the number of times they have been used, and the module in which they are located.

To change the status of the PINs from this screen, enter one of the following codes in the M column next to the PIN number:

Code	Description
A	Activates a PIN
D	Deactivates a PIN

After changes have been made, use PF4 to refresh the screen.

Refresh Threshold and Alert Exits

Selecting option "R" (Refresh Threshold and Alert Exits) from the Extended Error Recovery menu is no longer a functional option.

SNAP a Nucleus Dump

Selecting option S (SNAP a nucleus dump) on the **Extended Error Recovery** menu generates a formatted dump of the nucleus without error diagnostics.

This function is the same as the error handling operator command

```
SMGT, SNAP[=(start,end)]
```

▶ **To generate a dump of the whole nucleus:**

1. Leave the Start Address and End Address fields on the menu blank.

Or:

To generate a SNAP dump of only a range of addresses, enter hexadecimal addresses in the Start Address and End Address fields on the menu.

2. Press Enter.

The formatted dump is written to the DDPRINT data set specified in the nucleus.

Forcing Dual/Multiple CLOG/PLOG Switch

Option **F** (Force CLOG or PLOG switch) on the **Session Opercoms** menu allows you to immediately switch (by forcing an end-of-file) between dual or multiple command log (CLOG) or protection log (PLOG) files. Switching (that is, "togglng") changes from one CLOG or PLOG file to another.

Equivalent direct commands are:

```
FORCE CLOGSWITCH
```

```
FORCE PLOGSWITCH
```

Locking / Unlocking Files

Option **L** (Lock or unlock files) on the **Session Opercoms** menu is used to lock, unlock, or display locked files. Files can be locked or unlocked for all users or for all but utility or EXF users. Once locked for all users, a file cannot be unlocked for utility users only.

- Locking is immediate; a transaction in process whose file becomes locked will be backed out.
- Unlocking makes the file available again for normal use.

Equivalent direct commands are:

```
LOCK FILE
```

```
UNLOCK FILE
```

Selecting option **L** displays the **Lock/Unlock Files** menu.

```

10:12:10          ***** A D A B A S  BASIC  SERVICES  *****      2008-07-14
                   - Lock / Unlock Files -                          PACIL02

                   Code      Service
                   ----      -
                   D         Display locked files
                   F         Lock file for all users
                   K         Advance lock file
                   L         Lock file except for UTI/EXF users
                   N         Unlock file from general lock
                   R         Release an advance lock
                   U         Unlock file from UTI/EXF lock
                   ?         Help
                   .         Exit
                   ----      -

Code ..... _
File Number .. 30
UTI/EXF Ind .. U
Database ID .. 105      (RD-105)

Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help           Exit           Menu
    
```

For the most part, the options on this menu perform locking or unlocking functions without the use of additional AOS screens.

Option	Description
D	Displays locked files and allows you to modify their locked status on the Display Locked Files screen, as described later in this section.
F	Locks the file identified in the File Number field for all users.
K	Performs an advance lock on the file identified in the File Number field.
L	Locks the file identified in the File Number field for either utility functions (UTI) or EXF users, as specified in the UTI/EXF Ind field.
N	Unlocks the file identified in the File Number field for all users.
R	Releases an advance lock on the file identified in the File Number field.
U	Unlocks the file identified in the File Number field for either utility functions (UTI) or EXF users, as specified in the UTI/EXF Ind field.

▶ To list and modify the locked status of files using the Display Locked Files screen:

1. Select option **D** (Display locked files) on the **Lock/Unlock Files** menu..

The Display Locked Files screen appears:

```

16:28:56          ***** A D A B A S BASIC SERVICES *****          2009-08-24
DBID 1955          - Display Locked Files -          PACID02

Mark entries with 'U' to unlock:
M  Fnr.   Lock Status              M  Fnr.   Lock Status
-  -----  -----  -  -----  -----
-   1     Locked for ALL users
-   35    Locked except for UTI
-   50    Locked except for EXU/EXF
-   55    Locked for ALL users
-   60    Locked for ALL users

PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help                Exit                --         -         +         Menu

```

- To unlock a file on the Display Locked Files, enter a "U" in the M column to the left of the file number on this screen.

Multiple files may be unlocked at the same time.

Resetting Online Dump Status

Option **R** (Reset ONLINE-DUMP-Status) on the **Session Opercoms** menu is used to reset the online dump status for use when an ADASAV online dump operation has abended.

An equivalent direct command is:

```
RESET ONLINESTATUS
```

Stopping Users

Selecting option **S** (Stop user(s)) on the **Session Opercoms** menu displays the **Stop Users** menu.

```

16:45:58          ***** A D A B A S  BASIC  SERVICES *****          2009-08-24
                   - Stop Users -                                     PACIS02

                   Code  Service
                   ----  -
                   F    Stop users using file
                   I    Stop inactive users
                   J    Stop users by jobname
                   U    Stop a selected user
                   ?    Help
                   .    Exit
                   ----  -

Code ..... _
File Number ..... 66___
Last Activity .... _____ (elapsed time in seconds)
Job Name ..... _____
Purge UQE(s) ..... N
Selected Userid ..
Database ID ..... 1955      (WIS1955)          NUCID .. 1021

Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help      Disp UQ   Exit      Clear UID          Menu

```

You can stop a specific user, all users from a specific job, all users using a specific file, or all inactive users. Any open transactions of the stopped users are backed out. When the Purge UQE(s) field is set to "Y", the stopped users are also deleted. Note that EXF and UTI users are not stopped or deleted.

The following table describes what each of the screen options allows you to do and how to use them effectively:

Option	Description
F	<p>Stops all users who are using a specific file. When you use this option, specify the file number in the File Number field.</p> <p>The nucleus backs out all open transactions of any users of the file. If the Purge UQE(s) field is set to "Y", the stopped users are also deleted. If the Purge UQE(s) field is set to "N" or Adabas is running with ADARUN OPENRQ=YES, a stopped user who returns (by sending a command) will receive response code 9.</p> <p>Caution: If Adabas is running with ADARUN OPENRQ=NO (specifying that users are not required to issue an OP as the first command of the session), select this option with the Purge UQE(s) field set to "Y" only if you are certain that the users to be deleted are no longer active. If a user with an open transaction is deleted, but then returns (by sending a command), no indication is given about the transaction backout. If the user continues the transaction, logical inconsistencies in the database could occur.</p>

Option	Description
I	<p>Stops all users who have not executed a command during a specific time interval. When you use this option, specify the inactivity time (in seconds) in the Last Activity field.</p> <p>The nucleus backs out all open transactions of the affected users. If the Purge UQE(s) field is set to "Y", the stopped users are also deleted. If the Purge UQE(s) field is set to "N" or Adabas is running with ADARUN OPENRQ=YES, a stopped user who returns (by sending a command) will receive response code 9.</p> <p>Caution: If Adabas is running with ADARUN OPENRQ=NO (specifying that users are not required to issue an OP as the first command of the session), select this option with the Purge UQE(s) field set to "Y" only if you are certain that the users to be deleted are no longer active. If a user with an open transaction is deleted, but then returns (by sending a command), no indication is given about the transaction backout. If the user continues the transaction, logical inconsistencies in the database could occur.</p>
J	<p>Stops and deletes all users from a specific job. When you use this option, specify the job name in the Job Name field.</p> <p>The nucleus backs out any open transactions from the job and deletes the users (purges their user queue elements), regardless of the setting of the Purge UQE(s) field.</p> <p>Caution: If Adabas is running with ADARUN OPENRQ=NO (specifying that users are not required to issue an OP as the first command of the session), select this option only if you are certain that the users to be deleted are no longer active. If a user with an open transaction is deleted, but then returns (by sending a command), no indication is given about the transaction backout. If the user continues the transaction, logical inconsistencies in the database could occur.</p>
U	<p>Stops and deletes a specific user. When you use this option, specify the user ID of the user you want to stop in the Selected Userid field. You can do this by selecting a user from the current user queue (select PF2 on this screen).</p> <p>The nucleus backs out any open transaction of the user and deletes the user (purges the user queue element), regardless of the setting of the Purge UQE(s) field.</p> <p>Caution: If Adabas is running with ADARUN OPENRQ=NO (specifying that users are not required to issue an OP as the first command of the session), select this option only if you are certain that the user to be deleted is no longer active. If a user with an open transaction is deleted, but then returns (by sending a command), no indication is given about the transaction backout. If the user continues the transaction, logical inconsistencies in the database could occur.</p>

Option	Description
?	access online help for this screen.
.	exit this screen.

The following table describes the use of the fields on this screen:

Field	Description
Code	Specify the code of the function you wish to perform, as described in the table above.
File Number	When selecting the F option (stop users of a specific file), specify the file number; all users of the file will be stopped.
Last Activity	When selecting the I option (stop inactive users), specify the inactivity time of the users (in seconds); users who have not executed a command during the specified time interval will be stopped.
Job Name	When selecting the J option (stop and delete users from a specific job), specify the job name; all users from that job will be stopped and deleted.
Purge UQE(s)	When selecting the F or I options specify (with "Y" or "N") whether the user queue elements (UQEs) of the stopped users should be purged. Users stopped via the J or U options are always purged. Caution: If Adabas is running with ADARUN OPENRQ=NO (specifying that users are not required to issue an OP as the first command of the session), select this option only if you are certain that the users to be deleted are no longer active. If a user with an open transaction is deleted, but then returns (by sending a command), no indication is given about the transaction backout. If the user continues the transaction, logical inconsistencies in the database could occur.
Selected Userid	Lists the selected user ID. To change the user ID, press the PF2 key and select a new user ID from the current user queue. To clear a user ID from this field, press the PF4 key. If no specific user is listed in this field, all users are assumed. This field is used only when the U Code (stop a specific user) is selected.
Database ID	Specify the database ID of the database for which the users are stopped.

The following special function keys are also available for use on this screen:

- Press PF2 (Disp UQ) to display the current user queue. You can select a user from the current user queue list.
- Press PF4 (Clear UID) to clear the Selected Userid field.

An equivalent direct command is:

<u>STOP</u> <u>USERS</u>

Termination Commands

Selecting option **T** (Termination Commands) on the **Session Opercoms** menu invokes the **Session Termination** menu from which you can choose to terminate a session normally (ADAEND), cancel a session immediately (CANCEL), or stop a session (HALT).

```

16:50:00          ***** A D A B A S  BASIC  SERVICES *****          2009-08-24
                   -  Session Termination  -                               PACT002

                   Code      Service
                   ----      -
                   A         Normal session termination (ADAEND)
                   C         Cancel session immediately (CANCEL)
                   H         Stop session                      (HALT)
                   ?         Help
                   .         Exit
                   ----      -

Code ..... _
Database ID .. 1955   (WIS1955)                                NUCID .. 1021
                                                                Global.. _

Current nr. of users in User Queue ... 9
Nr. of users with open transactions .. 0
Nr. of active nucs in Plex cluster ... 9

Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help      Exit      Menu

```

In all cases, you are prompted to confirm your termination request before the action is taken.

An equivalent direct command is:

```
TERMINATE SESSION
```

Managing Online Utilities

Selecting option **U** (Manage Online Utilities) on the **Session Opercoms** menu displays the Manage Online Processes screen:

```

10:28:33          ***** A D A B A S  BASIC SERVICES  *****          2009-08-24
DBID 1955          - Manage Online Processes -          PACIP02

Total Processes...
Mark entries with 'S' (Suspend), 'R' (Resume), or 'X' (Stop):
  I      I Process I Sort I Current I Throw- I Process I      I
M I  FNR I   Type I Seq I RABN/ISN I  Backs I   ID  I  Status I
-----
_ I    50 I Reor Data I Phy I      3345 I      6 I 000003FC I Active I
_ I    61 I Invert DE I AA  I      286 I      1 I 000003FF I Suspended I
_ I   101 I Reor Asso I BJ  I          I      1 I 000000C2 I Active I
_ I      I          I      I          I      I      I      I      I
_ I      I          I      I          I      I      I      I      I
_ I      I          I      I          I      I      I      I      I
_ I      I          I      I          I      I      I      I      I
_ I      I          I      I          I      I      I      I      I
_ I      I          I      I          I      I      I      I      I
_ I      I          I      I          I      I      I      I      I
_ I      I          I      I          I      I      I      I      I
_ I      I          I      I          I      I      I      I      I
_ I      I          I      I          I      I      I      I      I

PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help          Exit      Refresh  --      -      +      Menu
    
```

From this screen, you can manage (that is, monitor, suspend, resume, and stop) online utility processes.

All online processes currently in the database nucleus are listed, up to a maximum of 40. You can use PF6 (back to the start of the list), PF7 (back one screen), and PF8 (forward one screen) to scroll among the processes.

The equivalent direct command is:

```

DISPLAY PROCESS
    
```

To maintain the processes, enter one of the following maintenance codes in the M column to the left of the process named in the Process Type column:

Code	Description
S	Suspends an active process
R	Resumes a suspended process
P	Stops a process

You can maintain multiple processes at the same time.

The equivalent direct command is

```

MANAGE PROCESS
    
```

The sort sequence used by a process is indicated in the Sort Seq column:

For process type . . .	Sort Seq. contains the descriptor currently being . . .
reorder Data Storage	reordered*
invert descriptor	inverted
reorder Associator	reordered

* When reordering Data Storage for a file, the default sort sequence is physical sequence or "PHY". Other possible options include "ISN" if the file is to be sorted in ISN order, or the two character descriptor name to sort the file according to the value of the specified descriptor.

The Current RABN/ISN column shows the progress of work:

For process type . . .	Current RABN/ISN displays the current . . .
reorder Data Storage	RABN being processed
invert descriptor	ISN, as this function works in ISN sequence
reorder Associator	(left blank)

Maintaining the User Table

Note:

This option is available in Adabas nucleus cluster environments only.

When option **V** (User Table Maintenance) is selected on the **Session Opercoms** menu, the **User Table Maintenance** menu appears:

```

17:04:44          ***** A D A B A S  BASIC  SERVICES *****          2009-08-24
                   - User Table Maintenance -                          PACIV02

                   Code      Service
                   ----      -
                   C          Begin CLUFREEUSER process
                   ?          Help
                   .          Exit
                   ----      -

Code ..... _
TNA ..... 0_____
UID ..... _____
Force ..... _
Global ..... _

Database ID .. 1955 (WIS1955)          NucID .. 1021

Command ==>
PF1----- PF2----- PF3----- PF4----- PF6----- PF7----- PF8----- PF12-----
Help       Exit       Menu
    
```

The CLUFREEUSER command is only valid in cluster environments. It can be issued against the local nucleus only or, with the Global option, against all active and inactive nuclei in the cluster.

The command is used to delete leftover user table elements (UTEs) in common storage that are no longer associated with user queue elements (UQEs) in a nucleus where:

Screen Field	Description
TNA	<p>A decimal number specifying the timeout value in seconds. UTEs that are not used during the time specified may be deleted if other conditions are fulfilled. If TNA is not specified, UTEs may be deleted without regard to their recent use.</p>
UID	<p>A character string or hexadecimal byte string as follows:</p> <p>ccccccc where the argument is 1-8 letters, digits, or embedded '-' signs without surrounding apostrophes.</p> <p>'ccccccc' where the argument is 1-8 characters with surrounding apostrophes.</p> <p>X'xxxxxxxxxxxxxxxx' where the argument is an even number of 2-16 hexadecimal digits enclosed by apostrophes and preceded by an X.</p> <p>A character string must be enclosed in apostrophes if it contains characters other than letter, digits, or embedded '-' signs. If a specified character string is less than 8 characters long, it is implicitly padded with blanks. If a specified hexadecimal string is shorter than 16 hexadecimal digits, it is implicitly padded with binary zeros. If the last 8 bytes of a user's 28-byte communication ID match a specific user ID or user ID prefix, that user's UTE may be deleted if other conditions are fulfilled. If UID not specified, UTEs may be deleted regardless of their user IDs.</p>
FORCE	<p>Indicates whether leftover UTEs should be deleted even if the users are due a response code 9, subcode 20. If FORCE is not specified, such UTEs are not deleted. Before using the FORCE parameter, ensure that the users owning the UTEs to be deleted will not expect any of their transactions to remain open. Specify FORCE on this screen by marking the Force field with any character.</p>
GLOBAL	<p>Indicates whether leftover UTEs should be deleted throughout the Adabas cluster if they are no longer associated with UQEs and are eligible according to the other specified parameters. Additionally and subject to the other rules, delete leftover UTEs if their assigned nuclei have terminated since their last use. If GLOBAL is not specified, only UTEs assigned to the local nucleus and used since the nucleus start are eligible for deletion. Specify GLOBAL on this screen by marking the Global field with any character.</p>