Adabas Fastpath

Adabas Fastpath Online Services

Version 8.6.1

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ADABAS & NATURAL

Table of Contents

1 About this Documentation

Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
`Monospace font`	Identifies service names and locations in the format `folder.subfolder.service`, APIs, Java classes, methods, properties.
`Italic`	Identifies: Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
`Monospace font`	Identifies: Text you must type in. Messages displayed by the system. Program code.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
|	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the | symbol.
[ ]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [ ] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

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2 Adabas Fastpath Online Services

This document describes the Adabas Fastpath Online Services application (SYSAFP).

Using Online Services
System Settings
Maintenance and Job History
Current Activity Displays
Buffer History
Buffer Debug Event Controls
Printing Facility (APFCMD)
Special Services
AFPLOOK (Optimization Sampling)

3   **Using Online Services**

This section describes the general usage of Adabas Fastpath Online Services.

Online Services Main Menu

≫ **to invoke the Adabas Fastpath Online Services main menu:**

1   logon to Adabas Fastpath online administration

2   enter the command MENU

The Main Menu screen appears as shown below:

```
14:06:43      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-03-04
                          -  Main Menu   -                            F1MAINM1


                 Code    Service
                 ----    ---------------------------------
                  0      System Settings
                  1      Maintenance
                  2      Current Activity Displays
                  3      Buffer History
                  4      Printing Facility
                  5      Special Services
                  6      Afplook
                  7      About Adabas Fastpath
                  .      Exit
                 ----    ---------------------------------
          Code ..: _

 You can easily switch around the tools for Fastpath, Vista etc by use of
 PF11, or use the codes COR, AFP, AVI, AAF, ATM as commands - anytime.


 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help        Exit                                            Prods Vers
```

The following services are available:

Service	Description
System Settings	Maintain Adabas Fastpath configuration file.
Maintenance	Maintain Adabas Fastpath optimization parameters.
Current Activity Displays	Display Adabas Fastpath session statistics.
Buffer History	Display Adabas Fastpath buffer history information.
Printing	Print Adabas Fastpath reports.
Special Services	Perform miscellaneous actions for the Adabas Fastpath components.
APFLOOK (Online Sampling)	Perform optimization sampling.
About Adabas Fastpath	Display Adabas Fastpath release information.

> **Note:** When you invoke Adabas Fastpath, you are logged on automatically to the highest installed, non-demo version of Adabas Fastpath Online Services. The Adabas Fastpath version is displayed in the first line of screen headers. If you have not installed the INPL from the Adabas Fastpath installation tape, "Demo" will be appended to the version in this line. From the main menu you can then use PF12 to obtain a list of installed versions, from which you may select one.

> **Note:** From the Adabas Fastpath main menu, you may switch to the online systems of Adabas System Coordinator, Adabas Vista, Adabas SAF Security or Adabas Transaction Manager by pressing PF11. This will result in a window appearing within which you can make your product selection. You may also switch from any screen with a command line by entering the appropriate three-character code (for example, AVI for Adabas Vista) as a command. You may only switch to the same version of another online system.

Navigation

You can access Adabas Fastpath Online Services screens in two ways:

- sequentially by selecting a menu option and entering it in the Option field; or

- directly by typing one of the numerical commands indicated in the following table on the command line.

For example, entering the command `1.1` on the command line directly accesses the Buffer List screen within the Parameter Maintenance function without first accessing the Parameter Maintenance menu.

Function	Object	Command
System Settings	Menu	0
	LFILE 152 Maintenance	1
	SAF Security Settings	2
Maintenance	Menu	1
	Buffer Parameters	1.1
	Buffer Add	1.1.1
	File Parameters	1.1
	File Add	1.2.1
	Client Runtime Controls	1.3
Current Activity Displays	Menu	2
	Buffer Display	2.1
	Database List	2.2
	File Lists	2.2.1
	File Set Summary List	2.2.2
	File Set List	2.2.3
	Optimized Job List	2.3
	System Job List	2.4
Buffer History	Menu	3
Online Printing (AFPCMD)		4
Special Services	Menu	5
	Buffer	5.1
	Database Component	5.2
	Local SYSAFP	5.3
	Fix Display	5.4
Online Sampling (AFPLOOK)	Menu	6
	Start AFPLOOK	6.1
	Display Files	6.2
	Display File Detail	6.2.1
	Display Summary	6.3
About Adabas Fastpath	List	7

PF Keys

Adabas Fastpath Online Services uses PF keys for various actions. Key functions are standard throughout the system, wherever possible. The PF keys that apply to each screen are indicated at the bottom of the screen.

The following keys apply throughout the system:

PF Key	Function	Description
1	Help	Invoke the help specific to the current screen
3	Quit	Quit and return to the previous screen
12	Menu	Return immediately to the main menu

The following keys apply generally, depending upon the type of action or function in use:

PF Key	Function	Description
4	Refr	Active screens: refresh the data
5	Upd	Maintenance screens: commit the update
7	Top	Lists: return to the top of the list
8	Next	Lists: move to the next page
10	Add	Maintenance screens: add an object

Online Help

Online help information can be invoked using PF1. The help screen that appears applies to the current screen and may comprise several pages. From each help screen, you can access lower level options or return to previous, higher levels. An example of a help screen follows:

```
15:40:35 ***** A D A B A S   FASTPATH SERVICES v.r.s *****          2025-05-19
       H E L P for Buffer Parameter Maintenance      Page 1 of 1        F11100H1


 This screen allows the user to select from a list of Adabas Fastpath Buffers.
 All buffers are shown even though they may not be accessible from the current
 environment. This allows any parameters to be maintained and controlled from
 any environment with access to the configuration file.
 The SVC and DBID shown are for the Buffer; do not confuse with file and
 database parameters.
 If the list extends to more than one page, then PF6 may be used to restart the
 list at the top, PF7 to move back a page, PF8 to move to the next page and PF9
 to the bottom of the list.


 The following options are available:
 1 ADD     - PF10 is used
 2 MODIFY  - 'm' = modification of detailed parameters
 3 DISPLAY - 'd' = display buffer parameter details
 4 PURGE   - 'p' = deletion of buffer and any file parameters
 5 RENAME  - 'r' = rename of the buffer and any file parameters
 6 COPY    - 'c' = copy buffer and any files to a new name
 7 FILE    - 'f' = display list of file and database parameters for the buffer


    Enter options 1 to 7 for Help about the individual functions, or,
  . '.' to End Help, '-' for Previous Pages
```

Help Screen Example

In the above example, you can navigate by entering

-	to move backwards and up a menu level; or
1 through 7	to move down a level to the function selected.

If the help screen comprises multiple pages, you can enter

+	to move to the next page; and
-	to move to a previous page until page 1, then back up a level.

4   System Settings

This service is used to maintain the Adabas Fastpath configuration file.

System Settings Menu

Selecting option code 0 from the main menu or entering the command 0 on the command line displays the System Settings menu.

```
15:18:03       ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-03-04
                      -  System Settings  -                            F10000M1


               Code    Service
               ----    --------------------
               1       LFILE 152 Maintenance
               2       SAF Security Settings
               .       Exit
               ----    --------------------
          Code..: _












 Command ==>


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit                                                  Menu
```

Configuration File (LFILE 152) Maintenance

Option code 1 on the System Settings menu invokes the screen shown below:

```
18:24:45              LFILE 152 Maintenance              2025-05-19
                                                          U1LFILM2


Current Settings for LFILE 152:
 Original LFILE = ( 152 , 135   ,  18    )
 Current LFILE  = ( 152 , 135__ ,  18___ )
                 (effective only for this Natural session)

 Default pop-up settings:
  Do you want to see this window again?
                        - for the current SYSAFP session... N
                        - for future SYSAFP sessions....... N



              PF3 Exit      PF5 Update/Confirm
```

Configuration File Maintenance

The original and current settings for the Adabas Fastpath configuration file are shown. You can enter or change the database and file number to be used for the current Adabas Fastpath configuration file.

You can also indicate whether or not you wish to have this window displayed for the current or future SYSAFP sessions.

SAF Security Settings

≫ **To activate security protection for online administration**

■   Select `service 2` from the System Settings menu or enter the command 0.2 on a command line. The SAF Security settings window will appear:

```
15:21:56              SAF Security Settings           2025-03-04
                                                      U1SAFSM1


Protect SYSAFP with SAF Security: N (Y/N)
System Coordinator Daemon Group : _____

Action if no daemon available (mark one):
          Disallow all functions: _
      Allow read functions only: _
             Allow all functions: _




                PF3 Exit      PF5 Update/Confirm
```

For an explanation of these settings refer to Activating security protection for online administration of Fastpath in the Adabas SAF Security documentation.

5   Maintenance and Job History

This service is used to define the Adabas Fastpath optimization parameters.

Maintenance Menu

Selecting option code 1 from the main menu or entering the command 1 on the command line displays the Maintenance menu.

```
18:21:37 ***** A D A B A S  FASTPATH SERVICES v.r.s *****        2025-05-19
                 -  Parameter Maintenance  -                      F11000M1


             Code    Service
             ----    -----------------
              1      Buffer Parameters
              2      File Parameters
              3      Client Runtime Controls
              .      Exit
             ----    -----------------
       Code ..: _




 Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help        Exit                                                  Menu
```

Parameter Maintenance

Select an option code to invoke the corresponding menu for the type of parameters to be defined/modified:

- **Buffer Parameters**
- **File Parameters**
- **Client Runtime Controls**

> **Note:** Before proceeding, you may wish to review the section Adabas Fastpath Parameters which provides a complete list and description of each parameter type.

Buffer Parameters

Selecting option code `1` from the Parameter Maintenance menu or entering `1.1` on a command line displays the Maintain Buffer Parameters screen.

The currently defined Adabas Fastpath buffers are listed.

For an existing buffer, you can enter any of the option codes described below.

You can use PF10 to add a new buffer definition as described in section **Adding a New Buffer**.

```
12:36:27 ***** A D A B A S  FASTPATH SERVICES v.r.s *****          2025-05-19
                - Maintain Buffer Parameters  -                      F11100M1


    <----- Buffer -----> Coordinator   Size    Direct   Read-
 C    Name     SVC   DBID     Group     (k)     Access   ahead    Comments

 _   AFPDAEF   255  11001    AFPGROUP   4096      ON       ON
 _   AFPDA2F   255  11002    AFPGROUP   4096      ON       ON
 _   AFPDA3F   255  11003    AFPGROUP   4096      ON       ON
 _   V811ME01  244   8111    V811GR01   8192      ON       ON
 _   V811ME02  244   8112    V811GR01   4096      ON       ON




 Mark with M(odify),P(urge),R(ename),C(opy),F(iles)

End of List
 Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
     Help        Exit  Refr                                Add         Menu
```

Maintain Buffer Parameters

The following information is provided:

C	Option code (M: modify buffer parameters, P: purge buffer, R: rename buffer, C: copy buffer, F: file parameters). For more information on the Modify function, see **Modifying Buffer Parameters**.
Name SVC DBID	The buffer name, the Adabas SVC used by this buffer, and the database used by this buffer.
Coordinator Group	The name of the Adabas System Coordinator group to which this buffer belongs.
Size	The memory size for this buffer.
Direct Access	Indicates whether or not direct access optimization is to be used for this buffer.

Read Ahead	Indicates whether or not read-ahead optimization is to be used for this buffer.

Adding a New Buffer

To add a new buffer, press PF10 on the Buffer Parameter Maintenance screen. The following screen appears:

```
 13:18:36                 2025-07-13
         Add Buffer    F11110MB


     Size(k):           4096__

  System Coordinator
    Group Name:          _____
    Daemon Name:         _____
 (Leave empty to select)

  Buffer Memory
  Dataspace Name:        _____




 Command ==>
   PF1 Help   PF3 Exit   PF5 Add
```

Add Buffer

You must provide values for the following fields:

Size	The size of the buffer to be added.
Group Name	The name of the Adabas System Coordinator group in which this buffer is to be a member. Adabas Fastpath buffers operate as members of an Adabas System Coordinator group. The group must have already been defined using Adabas System Coordinator Online Services.
Daemon Name	The daemon name is the job name of the Adabas System Coordinator daemon under which this buffer is to operate. The daemon name may have already been defined. If not you will be prompted to define it by entering the unique Node ID by which this daemon is to be identified.
Dataspace Name	A dataspace name may optionally be specified if the Fastpath buffer is to be allocated as a dataspace. For information, refer to the Adabas Fastpath Buffer parameter `Dataspace Name`.

Modifying Buffer Parameters

Buffers are added with default parameters. After a buffer has been added, you can view/modify all the default settings by using the d or m option code on the Maintain Buffer Parameters screen. The following sample screen lists the general parameters for buffer A8P17004.

> **Note:** If the Buffer is already active, then it will need to be re-started in order to pick up the new Buffer Parameter values.

```
13:26:09      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-03-04
                        -  Buffer A8P17004  -                         F11120MA


      System Coordinator Group Name: RPEGRP1_   Daemon Name: A8P17004


      Adabas SVC Number:   254        Designated DBID:           17004


      Last Modified:       2025-03-04 By User ID:               UKRPE
      Last Buffer Address: 1587F400   Length: 001FFC00   Session: 821


-------------------------- General Parameters ----------------------------

      Size(k):              2048       Minimum Buffer Size(k):     0
      Maximum Jobs:         12         Set ID Length Limit:        1024
      RB Length Limit:      1024       Message Level(Hex):         00
      Dataspace Name:       _____
      Additional encodings: All                   _ (mark to alter)




 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit        Upd                         More  File        Menu
```

You can use this screen to review and, if necessary, modify any of these buffer parameters.

Refer to section Adabas Fastpath Parameters for a description of each of these parameters.

By pressing PF9 (above), you can display the detail parameters for this buffer:

```
16:00:13  ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-09-11
                  Buffer V811ME01                                   F11120MB


      Adabas SVC Number:   244       Designated DBID:           8111


      Last Modified:       2025-05-19 By User ID:               UKSJU
      Last Buffer Address: 00000000  Length: 00000000  Session: 0
----------------------- Detailed Parameters ------------------------------
      Fast cache attempts: 32        Fast set create attempts:  25
      Coherence Limit (per sec): 32  Suspension Period (mins):  3
      Default pacing rate: 10        Set Concurrency:           2
      Freespace Index:     512       Average Item Size:         256
                                     Async coherence messages:  Y


----------------------- Operational Control ------------------------------
      Log every n Minutes: 60        Keep for n Days:           30
      Restart every n Hrs: 0         Restart Time:              17:30
      Direct Access:       ON        Read-ahead:                ON
      Find      Sx/L1:     ON        READ LOGICAL   L3:         ON
      READ PHYSICAL L2:    ON        HISTOGRAM      L9:         ON



Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help        Exit        Upd                      More  File        Menu
```

You can use this screen to review and, if necessary, modify any of these buffer parameters.

Refer to section Adabas Fastpath Parameters for a description of each of these parameters.

By pressing PF9 (above), you can display the debug settings for this buffer:

```
14:58:02    ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-08-30
                          Buffer A8P17004                          F11120MD


     Adabas SVC Number:   254        Designated DBID:         17004


     Last Modified:       2025-08-30  By User ID:             UKRPE
     Last Buffer Address: 00001000    Length: 000FFC00  Session: 2586


-----Debug Event Control (use when recommended by Software GmbH)-------------


                                      Full  Partial  Start  Shut
         Event List                   snap   snap    again  down
         ------------------------     ----   ----    ----   ----
         Database terminates abnormally  N      N       N      N
         Set error code:  2A             Y      N       N      N






 Command ==>


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help        Exit        Upd                         More  File        Menu
```

You can use this screen to set buffer debug event controls. These can be set when recommended by Software GmbH to produce diagnostic information. For more information, please refer to **Buffer Debug Event Controls.**

By pressing PF9 (above), you can return to the general buffer parameter display.

File Parameters

For each Adabas Fastpath buffer, file parameters can be defined which indicate for exactly which databases/files optimization is to be performed. You can access the File Parameters maintenance function:

◾ from the Parameter Maintenance screen after specifying a previously defined buffer; or

◾ from any Buffer Maintenance screen.

By pressing PF10 on either of these buffer modify screens, you can access the File Optimization Parameters screen.

```
8:21:37 ***** A D A B A S   FASTPATH SERVICES v.r.s *****            2025-05-19
      - File Optimization Parameters for: Global AFP311A -            F11200MA

                                                                Reposition
                             Start  End        Update           DBID: _____
  C   DBID   File   SVC      Time   Time       Sensitivity      File: _____
  _     11     7    254                        Record
  _     12     7    254                        Record
  _     13     7    254                        Record
  _     14     7    254                        Record
  _     71     7    254                        Record
  _    111    66    254      12:00  16:00      Record
  _    193     1                               Record
  _    193     2                               Record
  _    193     3                               Record
  _    193     4                               Record
  _    193     5                               Record
  _    193     7    254                        Record

 Mark with M(odify),P(urge),C(opy



Top of List
 Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
     Help        Exit  Refr                     Fwd   Bot   Add         Menu
```

File Parameter Selection

This screen lists, for the specified Adabas Fastpath buffer, all databases and files curently defined for Adabas Fastpath optimization.

> **Note:** You can use the Reposition function to position to a specific database/file in the list.

Field	Description
C	Option code (M: modify file parameters, P: purge file parameters, C: copy file parameters).
DBID	Adabas Database ID.
File	Adabas File Number.
SVC	Adabas SVC.
Time	The specific time period during which Adabas Fastpath optimization is to be in effect. See parameter Start Time.
Update Sensitivity	Controls how Adabas update commands are to be processed. See parameter Update Sensitivity.

- Adding File Parameters

■ Maintaining File Parameters

Adding File Parameters

In the File Optimization Parameters screen, use PF10 to add a new file parameter. The following screen will appear:

```
12:30:07                        2025-05-19
                                 F11210M1


  Add File Optimization Parameter


   Buffer Name:   V811ME01
          File:    0
                  (0 = DB default)
          in DBID:    _____
          using SVC:  _____   (Optional)


   Optional Time Window
   Start(HH:MM): _____  End: _____
   (Leave empty for 24 hours)



 Command ==>
   PF1 Help    PF3 Exit   PF5 Add ↵
```

Add File Parameter

File	The Adabas file number for which Adabas Fastpath optimization is to be defined.
	Note: By not specifying a file number, you can define a default parameter set for all files in a database (in this case only read-ahead optimization but not direct access optimization can be applied). Individual file parameters override a database default parameter.
in DBID	The Adabas database in which the file to be optimized is located.
using SVC	The Adabas SVC number.
	Note: Normally, the SVC parameter is only used at sites where multiple Adabas SVCs are required; otherwise, it need not be used. If multiple SVCs are in use, all databases defined for optimization in the same buffer must use the same SVC as the buffer (and the Adabas System Coordinator hosting the buffer).
Time Window	Optimization is only to be in effect within the specified time window. See parameter `Start Time`.

After a file parameter is added, the File Parameters Maintenance screen can be used to define further optimization parameters which are to be in effect for the file. This is described in the following section.

Maintaining File Parameters

The File Parameters Maintenance function can be invoked by/from:

- automatically from the Add File Parameters function

- by using option code m on the File Parameter Selection screen

- from an AFPLOOK File Display screen or from the File Set Summary List screen by pressing
  PF5 . Similarly, hot keys on this screen can be used to access AFPLOOK and File Set Summary.

- by entering 1.2 on a command line anywhere in the system, provided that a database and file
  number have previously been established using this screen or one of the other functions in the
  hot key chain.

> **Note:** If the Buffer is already active, then it will need to be re-started in order to pick up the
> new File Parameters.

The following screen appears:

```
10:50:57  ***** A D A B A S   FASTPATH SERVICES v.r.s *****  2025-07-22
           -  File Optimization Parameters for: R81ABM81  -        F11220MA


File: 9    DBID: 198   SVC: 254       Last Modified: 2025-07-22 by: UKRPE
Start Time (HH:MM): _____ End Time: _____   Update Sensitivity: R Record
Initial Status:     ON        Set Limit (k):  0
Set Id Length Limit: 0        RB Length Limit: 0       Set Concurrency: 0
Expanded File:      N         Cache secure file: N      Pacing: 0
Password for secure file DA-caching (not recommended):
Additional encodings: Default               _ (mark to alter)
---- Direct-access -------- Optimization Summary ----- Read-ahead -----------
L1 Get/Read by ISN  ON                  ¦  L1 Read by ISN       ON
L3 Read Logical    OFF Over-rides       ¦  L2 Read Physical     ON
L9 Histogram       OFF                  ¦  L3 Read Logical       OFF Over-rides
S1 Find Records    ON  Over-rides       ¦  L9 Histogram          OFF
S2 Find Sorted     ON                   ¦  S1 Find Records        ON Over-rides
                                        ¦  S2 Find Sorted        ON
                                        ¦  S8 Process ISN List   ON
                                        ¦  S9 Sort ISN List      ON
PF10 to Modify Direct Access       +    PF11 to Modify Read-ahead


Command ==>




Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help        Exit       Upd  Look              FILE  DA    RA   Menu
```

File Optimization Parameters

The following parameters can be maintained using this screen:

Parameter	Description
Start Time, End Time	Optimization is only to be in effect within the specified time window. See parameter Start Time. **Note:** You can enable optimization for a different time window by creating a different parameter set for this file.
Update Sensitivity	Indicates how Adabas Fastpath is to process commands which result in database updating. The following values are permitted: N (none). Ignore all update commands. R (record level). Remove data by identifying single records. F (file). Remove all data for the file held in the Adabas Fastpath buffer. D (distributed record level). Use only on advice from our support.
Initial Status	By setting this field to OFF, you can indicate that the file parameters being defined are not to be activated until this field is changed to ON.
Set Limit	Adabas Fastpath creates sets of direct access command models. This parameter limits the size (in k) of data items within a set.
Set ID Length Limit RB Length Limit Set Concurrency	These parameters can be used to decrease (but not increase) the values of the equivalent buffer parameters. These parameters are described in section Adabas Fastpath Parameters.
Expanded File	This field must be set to Y if the file is defined to Adabas as an expanded file. If so, direct access optimization cannot be defined for L3/L9 commands.
Cache secure file	If the file is password protected, but direct access caching is still required, then set this parameter as 'Y'. Use of secure file caching is not recommended.
Password for secure file D-A caching	If the file is password protected and direct access caching is still required, and the cache secure file parameter is set to 'Y', then the password needs to be given here. Use of this parameter is not recommended.
Additional Encodings	The setting for direct-access optimization for data of a different character encoding from that used by Adabas to store the data internally. Settings: ■ Default: Inherit the buffer-level setting. ■ None: Only data for Adabas internal encodings. ■ All: All the possible encodings allowed by Fastpath. ■ Single byte ascii: This additional character encoding. ■ Single byte ebcdic: This additional character encoding. ■ Double byte ascii: This additional character encoding. ■ Double byte ebcdic: This additional character encoding.
Pacing:	Controls the rate at which housekeeping is performed for this file.
Optimization Summary	The current direct access and read-ahead optimization settings for each Adabas command used for this file.

Parameter	Description
	Optimization can be defined for the following commands:
	■ direct access: `L1,L3,L9,S1,S2`
	■ read-ahead: `L1,L2,L3,L9,S1,S2,S8,S9`
	Note: `Sx` commands are generally followed by `L1` commands in order to retrieve subsequent records. Although it is the subsequent `L1` commands that benefit from read-ahead optimization, control is through the initiating `Sx` command.

Use PF5 to commit all changes. Use PF3 to exit without applying any changes.

Use PF10 and PF11 to modify the direct access and read-ahead optimization parameters as described in the following sections:

- Direct Access Optimization Parameters
- Read-Ahead Optimization Parameters

Direct Access Optimization Parameters

The following screen is displayed when you press PF10 from the File Optimization Parameters screen:

```
10:48:40  ***** A D A B A S   FASTPATH SERVICES v.r.s *****  2025-07-22
          -  File Optimization Parameters for: R81ABM81  -        F11220MB

File: 9    DBID: 198   SVC: 254       Last Modified: 2025-07-22 By: UKRPE

Start Time (HH:MM): _____ End Time: _____   Update Sensitivity: R Record
Initial Status:      ON        Set Limit (k):   0
Set Id Length Limit: 0         RB Length Limit: 0        Set Concurrency: 0
Expanded File:       N         Cache secure file:  N      Pacing: 0
Password for secure file DA-caching (not recommended):
-------------------- Direct Access Optimization ----------------------------
                 On/Off  Except for:   Field level overrides
L1 Get/Read by ISN  ON
L3 Read Logical     OFF                AA  AB  __  __  __  __  __
L9 Histogram        OFF                    __  __  __  __  __  __
S1 Find Records     ON                 BB  __  __  __  __  __  __
S2 Find Sorted      ON                     __  __  __  __  __  __
                              Mark to use lower-case Field names _


PF11 to Modify Read-ahead

Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit        Upd   Look              FILE  Back  RA    Menu
```

Field	Description
Command	Adabas read or query command (L1/L3/L9/S1/S2).
On/Off	Indicates whether or not optimization is to be in effect for the command. In the screen example, L1 commands (all fields), L3 commands (for fields AA nd AB only) and S1 commands (excluding S1 commands in which field BB is used as the primary descriptor) are to be optimized. The default is OFF.
Except for	The comments Now Optimizes and Now Excludes are displayed when the Enter key is pressed to illustrate the effect of field level overrides.
Field level overrides	Used to include/exclude certain fields from optimization. In the screen example, L1 commands (all fields), L3 commands (fields AA and AB only) and S1 commands (excluding field BB) are to be optimized. If any field name contains lower-case characters, enter any non-blank character against "Mark to use lower-case Field names". **Note:** Your terminal must be defined appropriately to the TP system to allow lower-case input.

Use PF5 to commit all changes. Use PF3 to exit without applying any changes.

Read-Ahead Optimization Parameters

The following screen is displayed when you press PF11 from the File Optimization Parameters
screen:

```
10:50:23  ***** A D A B A S   FASTPATH SERVICES v.r.s *****  2025-07-22
           -  File Optimization Parameters for: R81ABM81  -         F11220MC

File: 9     DBID: 198   SVC: 254         Last Modified: 2025-07-22 by: UKRPE

Start Time (HH:MM): _____  End Time: _____
Initial Status:     ON
Expanded File:      N
------------------- Read-ahead Optimization ----------------------------
                 On/Off  Except for:   Field level overrides
L1 Read by ISN      ON
L2 Read Physical    ON
L3 Read Logical     OFF  Now Optimizes   AA  __  __  __  __  __  __
L9 Histogram        OFF                      __  __  __  __  __  __  __
S1 Find Records     ON   Now Excludes    CC  __  __  __  __  __  __
S2 Find Sorted      ON                       __  __  __  __  __  __  __
S8 Process ISN List ON
S9 Sort ISN List    ON
                              Mark to use lower-case Field names _
PF10 to Modify Direct Access

Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit        Upd   Look              FILE  DA    Back  Menu
```

Read-Ahead Optimization Parameters

Field	Description
Command	Adabas read or query command (L1/L2/L3/L9/S1/S2/S8/S9).
On/Off	Indicates whether or not Adabas Fastpath optimization is to be in effect for the command. In the screen example, L1 commands, L2 commands, L3 commands (only when field AA is used as the primary descriptor) and S1 commands (excluding S1 commands in which field CC is used as the primary descriptor) are to be optimized. The default is OFF.
Except for	The comments Now Optimizes and Now Excludes are displayed when the Enter key is pressed to illustrate the effect of field level overrides.
Field level overrides	Used to include/exclude certain fields from optimization. Field overrides are not applicable for L1/L2 commands. In the screen example, L1 commands, L2 commands, L3 commands (only when field AA is used as the primary descriptor) and S1 commands

Field	Description
	(excluding `S1` commands in which field CC is used as the primary descriptor) are to be optimized.
	If any field name contains lower-case characters, enter any non-blank character against "Mark to use lower-case Field names".
	Note: Your terminal must be defined appropriately to the TP system to allow lower-case input.

Use PF5 to commit all changes. Use PF3 to exit without applying any changes.

Client Runtime Controls

Runtime controls determine the operational behavior of Adabas Fastpath in the job. You can adjust this behavior on a case-by-case basis by specifying overrides to tailor operation for a particular transaction code (TP systems), stepname (batch jobs) or login id.

- List Client Runtime Controls
- Add Client Runtime Controls
- Maintain Client Runtime Controls

List Client Runtime Controls

Selecting option 3 from the Parameter Maintenance screen or entering 1.3 on a command line lists the existing Client Runtime control definitions:

```
13:12:32     ***** A D A B A S   FASTPATH SERVICES v.r.s *****     2025-03-17
                 -  Client Runtime Controls (AFP)  -          U11300M1
                                          Reposition to Type: _____
                                                       Name: _____
                           Client Controls
C Type          Name        AFP   AVI   ATM   COR       Comments
_ CICS (DTR)    CICSPROD                      Y
_               CICTDTR     Y                 Y
_               CICTDT1     Y                 Y
_ Misc.DTR      UKRPE       Y     Y     Y     Y         Overrides
_ Batch         RPE*****    Y           Y     Y         Overrides
_               NATPBAT                       Y
_               RPEAWG      Y                 Y
_               UKRPECMD    Y                 Y
_ COM-PLETE     DAEFCODE    Y                 Y
_ CICS          CICSRPE     Y                 Y
_               CICSTST1    Y                 Y         Overrides
_               CICST1      Y                 Y         Overrides


Mark with Jobs,Modify,Purge,Rename,Copy,Overrides,Information,History



Command ==>




Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help        Exit  Refr                      Fwd   Bot   Add   Prods Menu
   ↵
```

The following information is provided:

Field	Description
C	Option code (modify, purge, rename, copy, overrides, information, history, jobs). For more information on the Modify function, see **Maintaining Client Runtime Controls**.
Type	The job type.
Name	The control name. For non-DTR or API type, this will be the same as the job name.
AFP AVI ATM COR	Shows which products have Client Runtime controls defined.
Comments	Highlights existence of Session Overrides or Site Information (Info).

Add Client Runtime Controls

To add a new definition press PF10 from the Client Runtime Controls list.

The following screen will be displayed:

```
11:45:54       ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-06-09
                    -  Add Client Runtime Control  -              U11310M1


 Select (mark one) :
                           _ Batch
                           _ COM-PLETE
                           _ CICS (DTR - Dynamic transaction routing)
                           _ CICS (Standard)
                           _ IMS (DTR)
                           _ UTM (DTR)
                           _ TSO
                           _ CMS
                           _ TIAM
                           _ more choices for type or

                           _ API controlled




 Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit                                              Menu
```

Select Job Type

Name	The control name. **Note:** For non-DTR and API types, the control name will be the same as the job name. **Note:** A control name can include one or more asterisks (*) to indicate a wild card. For example, the client runtime control for a type of BATCH with the name UK**E is found by any job with the name UK in positions 1-2 and E in position 5, no matter what the characters are in positions 3-4. If an asterisk (*) is the last character in a control name, the remainder of positions in the name through the eighth are padded with asterisks. Wildcards are not permitted for DTR or API types.
Type	The job type. Each different job type has a different characteristic so it is important to select the correct type. **Note:** If you are using CICS/MRO with dynamic transaction routing, or CICSplex, you must select the job type (DTR - Dynamic transaction routing). The standard CICS job type is used for CICS/MRO without dynamic transaction routing or for other CICS environments.

> **Note:** If you mark the selection *None of the above*, another selection window appears with additional job types. If you need to use a job type from the second selection window, contact Software GmbH for advice.

Once you select a job type, a screen will ask for the job name. In this example, controls for a TSO type job are being defined.

```
10:44:09     ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-12-16
                    -  Add Client Runtime Control  -               U11310M3


        Type: TSO
        Name: _____  (* for default controls for this type)


 This is a standard type of runtime.












 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit        Add                                       Menu
```

Adabas System Coordinator runtime controls will then be required (see the Adabas System Coordinator documentation for further details).

```
10:45:32     ***** A D A B A S   FASTPATH SERVICES v.r.s *****     2025-12-16
                - System Coordinator Runtime Controls  -          U11310M5
                                           Operation mode (mark one):
 Type: TSO                                     Use normal autodetect approach: X
 Name: UKRRRR__                                Enable COR even if no products: _
                                           Disable all products including COR: _
 General Settings
     Statistics externally viewed using group: _____
     Refresh statistics every: _____ commands or _____ seconds
     API runtime overrides....: N (Y/N)
     Use additional exits.....: N (Y/N)
     Maximum idle time (sec)..: _____

     Runtime messages        : Y Console message job log (default)
                               _ Local (DDMSG) file
                               _ Forward to the Daemon (DDMSG) file




 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit      Add                                          Menu
```

Refer to the Adabas System Coordinator documentation for more information.

The group name will then be required.

```
 11:42:09     ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-12-07
                 -  System Coordinator Runtime Controls  -          U11310M5

 Type: TSO          Name: UKRRRR__
   Operation: Normal autodetect: X Enable without products: _ Disable all: _
   API runtime overrides....: N (Y/N)
   Use additional exits.....: N (Y/N)
   Maximum idle time (sec)..: _____

   Runtime messages.........: Y Default _ Local (DDMSG) file _ Daemon (DDMSG)
   Activity pulse every.....: _____ commands or _____  seconds
     Display (mark one).....: _ Daemon shared memory
                              _ Daemon memory
     Latency (mark one).....: X Local
                              _ Group latency disk file
                              _ Daemon shared memory
                              _ Daemon memory
     Group name.............: _____ (required if group/daemon services used)



 Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit        Add                                        Menu
```

Normally, the absence of client runtime controls for a job implies that optimization is not applied. Thus, you can implement optimization gradually by defining only specific jobs to receive optimization.

Alternatively, this can be reversed. Client runtime controls can be defined for default jobs so that optimization is applied to all jobs of a specific category. Then, you can specify only the jobs that are not to be optimized and those that differ from the default.

> **Note:** A specific job definition overrides any wild card job definitions or any default definition.

Maintain Client Runtime Controls

To maintain client runtime controls, on the client runtime controls screen, enter the option code m next to the job for which parameters are to be maintained. In the sample screen shown below, the job parameters for batch job KM27WD are displayed.

- Modify Client Runtime Controls
- Maintain Client Runtime Control Overrides

■ Dynamic Client Runtime Configuration

Modify Client Runtime Controls

To modify client runtime controls, on the client runtime controls screen, enter the option code "M" next to the job for which parameters are to be maintained. In the sample screen shown below, the job parameters for batch job KM27WD are displayed.

The following screen will be displayed:

```
11:36:32      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-03-01
                   -  Adabas Fastpath Runtime Controls   -          U1132FM1


    Name: KM27WD                                   Last Modified: 2025-03-01
    Type: Batch                                        by Userid: UKRPE

 System Coordinator (Buffer) Group Name.: RPEGRP1


Fastpath ON/OFF........: ON        Read-ahead Optimization Control: BAT
Direct Access..........: ON        Read-ahead Memory Limit(k).....: 0
Tracing................: N         Maximum read-ahead unit size(k): 32
Command Time (Hex).....: 00000000  Maximum read-ahead rate........: 4096
End-of-job statistics..: X None
                         _ Daemon messages
                         _ File history with maximum records.......: 0






 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help        Exit        Upd                                        Menu
```

Detailed Client Runtime Controls

Parameter	Description
FASTPATH ON/OFF	If OFF is specified, Adabas Fastpath optimization will be not be performed for this job.
Job End Statistics	If Y is specified, Adabas Fastpath performance information will be sent to the operator console when a job ends.
Direct Access	If OFF is specified, no direct access optimization will be performed for the job, without regard to other parameters.

Parameter	Description
Read-Ahead Optimization Control	If OFF is specified, no read-ahead optimization will be performed. In addition, you can choose between the read-ahead factor algorithms for TP monitors (TP) or for batch (BAT). While both algorithms accelerate the factor as the sequence length increases, the batch algorithm accelerator is faster than the one for TP monitors. Normally, the default setting is the most efficient.
Read-Ahead Memory Limit	Used to restrict the memory allocated to the job for read-ahead optimization.
Maximum read-ahead unit size (k)	Used to restrict the memory allocated for a single read-ahead operation.
Maximum read-ahead rate	Used to restrict the number of records processed in a single read-ahead operation.
End-of-job Statistics	One of the following options may be selected: ■ None: No information will be displayed or saved. ■ Daemon messages: Fastpath performance information will be sent to the operator console. ■ File history: Statistics will be saved in the configuration file. **Note:** File History is only an option for wholly named jobs (it is not an option offered for *default jobs or jobs that use a wildcard).
Maximum Records	The number of records (up to 16) to be kept on file for end-of-job statistics.

Maintain Client Runtime Control Overrides

Overrides to the base-level client runtime controls may be specified. This provides the possibility for a greater granularity of control, allowing controls to relate specifically to particular logins, job steps or transactions.

Enter "O" next to a job which already has AFP client controls in the Client Runtime Controls screen.

Note: Not all job types will support overrides.

Then enter PF10 to add some client runtime control overrides.

The following screen will be displayed:

```
15:54:06      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-10-21
                 -  Add Client Runtime Control Override  -         U11381M1

 Type: Batch        Name: BLAH1

 Select the override type ....: _ Login id
 (mark one)                     X Stepname




 and specify the override name: AFPTEST1







 Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit        Add                                         Menu
```

In the example an overrides to a job of type batch is being created, for a specific step.

The following screen will be displayed:

```
15:55:56      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-10-21
              - Client Runtime Controls Override Summary  -      U11380M1

 Type: Batch        Name: BLAH1
                                 Overrides
 C Type          Name        AFP   AVI   ATM   COR        Comments
 _ Stepname      AFPTEST1                               *Added (empty)









 Mark with Modify,Purge,Rename,Copy,Information                              ↵


 Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit  Refr                                Add        Menu
```

Select M to modify the override client runtime controls.

The following screen will be displayed:

```
11:38:13      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-03-01
                  -  Adabas Fastpath Runtime Controls  -           U1138FM1

 Control Type : Batch        Name: KM27WD            Last Modified: 2025-03-01
 Override Type: Stepname     Name: AFPTEST1              by Userid: UKRPE


 System Coordinator (Buffer) Group Name.: RPEGRP1


 Fastpath ON/OFF........: ON        Read-ahead Optimization Control: BAT
 Direct Access..........: ON        Read-ahead Memory Limit(k).....: 0
 Tracing................: N         Maximum read-ahead unit size(k): 32
 Command Time (Hex).....: 00000000  Maximum read-ahead rate........: 4096
 End-of-job Statistics..: X None
                          _ Daemon messages
                          _ File history with maximum records.......: 0




 Command ==>



 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit        Upd                                       Menu
```

These runtime controls may be modified and saved using PF5.

In the Client Runtime Controls screen 'Overrides' will appear in the comments.

These overrides will now apply in preference to the base-level controls for the specific login, job step or transaction.

Dynamic Client Runtime Configuration

Please refer to the *Adabas System Coordinator* documentation and the section on *Dynamic Client Runtime Configuration for Experts*.

Job History

Save Job History

That Job history information be kept may be specified in the Client Runtime Controls.

The end-of-job statistics control may be set to save the Adabas Fastpath end-of-job statistics to the configuration file.

```
11:39:15      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-03-01
                 -  Adabas Fastpath Runtime Controls  -          U1132FM1


    Name: RPEAWG                                    Last Modified: 2025-03-01
    Type: Batch                                        by Userid: UKRPE


 System Coordinator (Buffer) Group Name.: RPEGRP1


 Fastpath ON/OFF........: ON        Read-ahead Optimization Control: BAT
 Direct Access..........: ON        Read-ahead Memory Limit(k).....: 0
 Tracing................: N         Maximum read-ahead unit size(k): 64
 Command Time (Hex).....: 12345678  Maximum read-ahead rate........: 4096
 End-of-job statistics..: _ None
                          _ Daemon messages
                          X File history with maximum records.......: 4




 Command ==>



 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit        Upd                                       Menu
```

A maximum of 16 history records may be specified.

> **Note:** History is not supported for wildcard job names.

Display Job History

To display saved Job History information enter "H" on the Client Runtime controls screen next to a job which has AFP client controls.

```
13:12:32      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-03-17
                    -   Client Runtime Controls   -              U11300M1
                                              Reposition to Type: _____
                                                            Name: _____
                              Client Controls
C Type           Name         AFP   AVI   ATM   COR      Comments
_ CICS (DTR)     CICSPROD                        Y
_                CICTDTR      Y                  Y
_                CICTDT1      Y                  Y
_ Misc.DTR       UKRPE        Y     Y     Y      Y        Overrides
_ Batch          RPE*****     Y           Y      Y        Overrides
_                NATPBAT                         Y
H                RPEAWG       Y                  Y
_                UKRPECMD     Y                  Y
_ COM-PLETE      DAEFCODE     Y                  Y
_ CICS           CICSRPE      Y                  Y
_                CICSTST1     Y                  Y        Overrides
_                CICST1       Y                  Y        Overrides
Mark with Display,Expand,Modify,Purge,Rename,Copy,Overrides,Information
         History


Command ==>




Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help           Exit  Refr                      Fwd   Bot   Add   Prods Menu
```

If history has been saved for the job then the following screen will be displayed:

```
13:26:07      ***** A D A B A S   FASTPATH SERVICES v.r.s *****        2025-03-17
                    -  Adabas Fastpath Job History  -               U113BOM1

     Name: RPEAWG
     Type: Batch
 C   Date          Time               C   Date          Time
 _   2025-03-03    17:33:21           _   2025-03-03    12:56:46
 _   2025-03-03    15:58:31           _   2025-03-03    15:58:32
 _   2025-03-03    15:58:32           _   2025-03-03    15:58:33
 _   2025-03-03    15:58:34           _   2025-03-03    17:31:18
 _   2025-03-03    17:33:18           _   2025-03-03    17:33:19
 _   2025-03-03    17:33:19           _   2025-03-03    17:33:20




 Mark to display history information


 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit                                                    Menu
```

In the example a job of type batch has 12 history items.

An individual history item can be selected and the following screen will be displayed:

```
13:27:41     ***** A D A B A S   FASTPATH SERVICES v.r.s *****       2025-03-17
                  -  Adabas Fastpath Job History  -              U113BOMB

 Job:   RPEAWG Type: Batch         Number: B45852     Started: 2025-03-03  15:58


 -------------------------- Optimization Summary ----------------------------
    Access Type              Attempts  (58%)    <----------Successes  (61%)

    Read-ahead:                      (0%)                           (0%)
    Direct:                     9 (40%)                      4  (44%)
    RCs:                        4 (18%)                      4  (44%)
    Others:                     9 (42%)

    Total:                     22 (100%)                     8  (36%)
 ----------------------------------------------------------------------------
                                          Over-reads:

   Status: 00 00 00 00    System ID:    BATCH



 Command ==>



 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
               Exit            Excl                                      Menu
```

This information is provided in the same format as that provided by the Current Activity Displays at the Buffer level (see section **Buffer Information**).

Then enter PF6 to see the exclusions.

```
11:39:48     ***** A D A B A S   FASTPATH SERVICES v.r.s *****        2025-03-01
                   -  Adabas Fastpath Job History   -             U113BOMD
 Job:   RPEAWG Type: Batch         Number: B43793     Started: 2025-03-01  10:59


    Statistics for commands that have optimization potential but were
    unable to be optimized:


    C     Description                                          Count
    _     Unsuitable command type:                              0
    _     Disqualified:                                         0
    _     Optimization was disabled:                            0
    _     Multi-fetch was already set:                          0
    _     Command details exceed Set-id limit:                  0
    _     Record Buffer exceeds the limit:                      0







 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
               Exit                    Gen                            Menu
```

The information is provided is in the same format as that provided by the Current Activity Displays at the buffer level (see section **Buffer Information**).

6   Current Activity Displays

This section describes how to obtain and use the buffer statistics available for the active Adabas Fastpath buffer.

Current Activity Displays

Active Fastpath buffers can be monitored and controlled by selecting option code 2 on the Online Services main menu or by entering the command 2 on the command line.

The Session Monitoring menu is then displayed.

```
13:34:17      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-03-04
 Run-mode: 17004              -  Current Activity Displays  -        F12000M1


                  Code    Service
                  ----    -----------------------------
                  1       Buffer Information
                  2       Database and File Information
                  3       Optimized Job Information
                  4       System Job Information
                  .       Exit
                  ----    -----------------------------
          Code ..: _

      Perspective: 17004 A8P17004
           Status: Active
                   Started Mar  4,2025 at 13:33




 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit                                                    Menu
```

The following fields are provided:

Field	Description
Run-mode	The FASTABM/System Coordinator Node ID to which this job is connected or the following text that explains why the job is not currently connected. Excluded: Job parameter is not defined. No connection: Client is unable to connect to the ABM. ENQ-J failure: An identical job is already connected. No daemon: The local daemon is not active. ENQ-B failure: Buffer is unavailable (no buffer enq). Missing: A component is missing. Invalid: A component is bad. Error: A problem with the parameters. Disconnecting: The linker has stopped. Provided that the local job has at some point been connected to a buffer then its statistics for its current activity will be recorded. When the local job is connected to a buffer then its statistics for its current activity will be included in the Optimized Job Details. But if the local job loses its connection then its statistics for its current activity will be included in the Local Job Statistics accessed via the **Special Services**. If the local job regains its connection then it will resume recording its statistics for its current activity in the Optimized Job Details.
Code	Option code. The following options are available: 1: display buffer information 2: display database and file information 3: display optimized job information 4: display system job information
Perspective	The Node ID and Job Name for the buffer being displayed **Note:** You can display buffer information for a different Node ID by entering the corresponding Node ID in this field. **Note:** You can enter a Node ID and press Enter without selecting a code to check the validity of the node.
Status	Indicates whether or not the buffer is active and when it was last started.

Buffer Information

Selecting option code 1 on the Current Activity Displays screen invokes the General Information screen.

Note: You can also access this screen by entering 2.1 on the command line.

```
11:09:26     ***** A D A B A S   FASTPATH SERVICES v.r.s *****       2025-02-02
Run-mode: 17004                - General Information -                 F12100MA

  Name: A8P17004                           SVC:  254  DB:  17004
  Dataspace: #DSPNAME                      Buffer Status : Active
  Started:   Feb  2,2025   at: 11:03       Ave Memory Val:
  Address:   00001000 Size(k): 1023        Session Number: 2828


-------------------------- Buffer Statistics ----------------------------

   Access Type               Attempts  (69%)    <----------Successes  (72%)

   Read-ahead:                  1,365  (21%)                    954  (69%)
   Direct:                      2,454  (39%)                  1,671  (68%)
   RCs:                           591   (9%)                    591  (24%)
   Others:                      1,821  (31%)

   Total:                       6,231 (100%)                  3,216  (51%)
--------------------------------------------------------------------------


Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help          Exit  Refr  Serv  Excl            Parm  Zero  Node  Menu
```

The first section of this screen provides general information for the buffer. The following information is provided:

Field	Description
Name	The buffer name.
SVC	The Adabas SVC used for this buffer.
DB	The Adabas database for which this buffer is used to provide optimization.
Dataspace	The name of the dataspace when a dataspace cache is used.
Buffer Status	Indicates whether or not the buffer is currently active.
Started	The time at which the buffer was last started.
Ave Memory Val ... Session Number	These fields are reserved for Company internal use.

The next section provides the buffer statistics. The following information is provided:

Field	Description
Access Type	Attempts: the percentage of optimization attempts (optimization attempts divided by total number of commands). Successes: the percentage of successful optimization attempts (successful optimization attempts divided by number of optimization attempts).
Read-Ahead	Attempts: the number of read-ahead optimization attempts, and the attempt percentage (read-ahead optimization attempts divided by total number of commands). Successes: the number of successful read-ahead optimization attempts, and the percentage of successful attempts (successful read-ahead optimization attempts divided by read-ahead optimization attempts).
Direct	Attempts: the number of direct access optimization attempts, and the attempt percentage (direct access optimization attempts divided by total number of commands). Successes: the number of successful direct access optimization attempts, and the percentage of successful attempts (successful direct access optimization attempts divided by direct access optimization attempts).
RCs	Attempts: the number of RC commands that are eligible for optimization. These are RC commands that immediately follow an optimized direct-access command (without any intervening "next" commands). Successes: the number of successful RC optimization attempts. All of the attempts are always successful, but showing a success percentage of 100% gives no useful information; instead it is shown as a percentage of Direct Access attempts. This indicates the relative savings in the number of cursors maintained by Adabas. The higher this percentage, the fewer the number of cursors.
Excluded	Attempts: the number of commands which were excluded from optimization, and percentage (number of excluded commands divided by total number of commands). **Note:** For more information on excluded attempts, use PF6.
Total	Attempts: the total number of commands encountered by Adabas Fastpath. Successes: the total number of successful optimization attempts, and the percentage of successful attempts (successful optimization attempts divided by total number of commands).

Pressing PF6 from any of the buffer information screens displays the Excluded Command Analysis screen:

```
11:14:36      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-02-02
Run-mode: 17004              - Excluded Command Analysis  -          F12100ME
                          Buffer: A8P17004 Node Id: 17004


     Statistics for commands that have optimization potential but were
     unable to be optimized:


     C      Description                                     Count
     _      Unsuitable command type:                           10
     _      Disqualified:                                     1034
     _      Optimization was disabled:                           0
     _      Multi-fetch was already set:                         0
     _      Command details exceed Set-id limit:                0
     _      Record Buffer exceeds the limit:                     0


     Mark (above) to display further information about any exclusion.




 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit  Refr  Serv        Gen        Parm  Zero  Node  Menu
```

This screen displays the following information:

Information	Description
Excluded - Reasons	The total number of commands excluded from optimization for the listed reasons. For more information, see Excluded Commands.

Selection of an exclusion reason will provide information about that exclusion.

> **Note:** This same analysis can be displayed for jobs, databases, and files.

Pressing PF9 from any of the buffer information screens invokes the General Parameters screen:

Parameter Display

```
18:31:41  ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-11-21
Run-mode: 17004             -  General Parameters  -              F12100MF
              Buffer: Global A8P17004 Node ID: 17004
                                     Initial                   Commands
Main Parameters           Value     Allocation     Peak Usage  Ignored
Size(k)..Min: 1023        1024         1023            24%
Maximum Jobs:               12                          1             0
RB Length Limit:          2048                                        0
Set Length Limit:         1024                                        0
Other-----------------------------------------------------------------
Fast cache attempts:        32       Fast set create attempts:  25
Coherence Limit (per sec): 1         Suspension Period (mins):  10
Default pacing rate:        10        Set Concurrency:           2
Freespace Index Entries:    512       Average Item Size:         256
                                      Async coherence messages:  Y
Log every n minutes:        60        Keep for n days:           30
Restart every n Hrs:        0         Restart Time:              24:00
Direct Access:              ON        Read-ahead Processing:     ON
FIND      SX/L1:            ON        READ LOGICAL  L3:          ON
READ PHYSICAL L2:           ON        HISTOGRAM     L9:          ON



Command ==>  _____
```

For description and use of these parameters, see section Adabas Fastpath Parameters.

The following PF keys are available throughout the series of buffer information screens:

PF Key	Name	Function
PF4	Refr	Refreshes the statistics
PF5	Serv	Invokes the function Asynchronous Buffer Services
PF5	Parms	Displays the file parameters for this buffer
PF6	Excl	Displays the Excluded Command Analysis screen
PF6	Look	Invokes AFPLOOK
PF7	Gen	Reverts to the General Information screen
PF9	Parm	Displays the General Parameters screen
PF9	More	Displays the next file or job detail display
PF10	Cntl	Displays details of the master control set for the file
PF10	Conc	Displays set concurrency information
PF10	SysJ	Toggles from the User Job Summary to the System Job Summary screen
PF10	UserJ	Toggles from the System Job Summary to the User Job Summary screen
PF10	Zero	Resets the display counts to zero and automatically refreshes

PF Key	Name	Function
PF11	Node	Displays the Buffer Statistics menu

Database and File Information

Selecting option code 2 on the Current Activity Displays screen, invokes the Database Summary screen.

> **Note:** You can also access this screen by entering 2.2 on the command line.

For each database, a summary of activity is displayed as shown on the following example screen:

```
13:10:07     ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-10-22
 Run-mode: 17004              Databases from A8P17004 :  17004         F12200MA

 Buffer Session: 113            Started: Oct 22,2025  12:46   Size(k): 1023

  C   DB SVC      Attempts            Optimized        Set Usage(k) Status
 _ 17003 254          1391                 823              34       Optimizing
 _ 17015 254                                                         DB Down




 



   Totals:            1391  100%          823  100%     34  100%
 Mark with F(ile),D(etail),I(nformation),S(ervices),Z(aps)

 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help        Exit  Refr                                      Node  Menu
```

The following information is provided on this screen:

Field	Description
Buffer Session	The buffer session number.
Started	The time at which the buffer was last started.
Size	The memory allocation for the buffer.
C	Option code. The following options are available: d: display detailed database information f: display file summary information s: perform database service (stop/start optimization).
DB	The Adabas database.
SVC	The Adabas SVC.
Attempts	The total number of optimization attempts.
Optimized	The total number of successful optimization attempts.
Set Usage	The total amount of memory allocated for all the files defined for this database.
Status	The status of the database from the viewpoint of the Fastpath component running in System Coordinator daemon. The following are examples of the status that may be seen: "Optimizing" – commands to this database may be optimized. "Woken and waiting" – preparations are being made to allow commands to be optimized. "DB Down" - the database is inactive. "AFP (DB) Missing" - the Fastpath component in the database is missing. "Start requested" - a request to start optimizing commands is being processed. "Stop requested" - a request to stop optimizing commands is being processed. "Stopped" - a request to stop optimizing commands has been processed. "Bad Response" - there has been a communication failure. Optimization is stopped. Some of these statuses may be proceeded by an indication of the location or type of the database, such as: "Remote" - the database is on a different lpar to the COR daemon. "Clus" - the database is a clustered (ALS) instance. "Paral" - the database is a parallel (ASM) one.

Database Services

If the option code s is selected for a database, the following window is displayed:

```
13:11:00                  2025-10-22
                    F12200MC


      Stop/Start Optimization
      for: Database 17003



        S Stop Optimization
        R Start Optimization
        . Exit

 Code..:




 Command ==>
       PF1 Help    PF3 Exit
```

Using this window, you can stop/restart optimization for a database.

If database optimization is stopped, no further optimization occurs for its files and sets. In addition, all direct access data is removed from the Adabas Fastpath buffer for sets belonging to files within this database.

Note: A similar service is available at the file and file set levels.

Detailed Database Information

If the option code d is selected for a database, the Database Details screen is displayed.

This screen contains a performance analysis for the selected database.

```
13:11:37     ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-10-22
Run-mode: 17004            Database Details from A8P17004 : 17004  F12200MB


                      Database: 17003 SVC: 254


------------------------- Optimization Summary ---------------------------
   Access Type              Attempts (98%)    <----------Successes  (59%)

   Read-ahead:                   457 (32%)                320  (70%)
   Direct:                       815 (58%)                384  (47%)
   RCs:                          119  (8%)                119  (14%)
   Others:                        14  (0%)

   Total:                      1,405 (100%)               823  (58%)
-------------------------------------------------------------------------
   Updates:                            Over-reads:         52  (16%)

  Status 1: 40 90 00 A0 Bad Response:     Lock: 00000000  DBE Addr: 16BC5638
  ADABAS Vers: 813      Hex: 08010300  Location: 00000000
  DBID from GCB:        Nuc ID:

Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help         Exit  Refr        Excl                    Zero  Node  Menu
```

The first section of this screen (Optimization Summary) provides optimization statistics for this database. This information is provided in the same format as that provided at the buffer level (see section **Buffer Information**). The statistics shown at the database level are exclusively for commands that are eligible for optimization. The excluded count therefore differs from the buffer level count.

The second section of this screen provides the following information:

Field	Description
Updates	The number of update commands processed for this database.
Over-reads	The number of read-aheads performed but not needed by the application, and the percentage of non-needed over-reads to the number of successful read-aheads. Non-needed over-reads represent overhead that may reduce the effectiveness of read-ahead optimization. In general, over-reads should not exceed 25% of read-ahead successes.
Status ... Nuc ID	These fields are reserved for Company internal use.

Excluded Command Analysis

Pressing PF6 on the Database Details screen displays the excluded command analysis for the selected database:

```
 11:25:05      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-02-02
 Run-mode: 17004                Database Details from A8P17004 : 17004  F12200MG

                          Database: 17003 SVC: 254

     Statistics for commands that have optimization potential but were
     unable to be optimized:

     C      Description                                        Count
     _      Unsuitable command type:                             6
     _      Disqualified:                                        0
     _      Optimization was disabled:                           0
     _      Multi-fetch was already set:                         0
     _      Command details exceed Set-id limit:                0
     _      Record Buffer exceeds the limit:                     0

     Mark (above) to display further information about any exclusion.




 Command ==>



 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit  Refr            Gen             Zero  Node  Menu
```

Selection of an exclusion reason will provide information about that exclusion.

The information is provided in the same format as that provided at the buffer level (see section **Buffer Information**).

> **Note:** A similar analysis can be displayed from the file detail screen.

Summary File Information

If the option code f is selected for a database, the File Summary screen is displayed.

> **Note:** You can also access this screen by entering 2.2.1 on the command line.

This screen displays a summary of activity for each file in the selected database.

```
13:13:00     ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-10-22
Run-mode: 17004              Files from A8P17004 : 17004             F12210MA

                          Database: 17003 SVC 254

 C   File       Attempts           Optimized        Set Usage(k)  Status
 _                                                                Optimizing
 _       9          1391               823               34       Optimizing
 _      10                                                         Optimizing








  Totals:          1391  100%           823  100%     34  100%
Mark with D(etail),F(ile Sets),S(ervices)

Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help          Exit  Refr                                    Node  Menu
```

The following information is provided:

Field	Description
C	Option code. The following options are available: d: display detailed database information d: display detailed file information f: display file set summary s: perform file service (stop/start optimization)
File	The Adabas file number.
Attempts	The total number and percentage of optimization attempts.

Field	Description
Optimized	The total number and percentage of successful optimization attempts.
Set Usage	The amount of memory allocated for the exclusive use of this file. (This includes both memory that is being productively used and extra memory allocated for the purposes of set growth.)
Status	The status of the file (optimizing or not optimizing). The following are examples of the status that may be seen: "File Missing" - the file does not exist. "Optimizing""– commands to this file may be optimized. **Note:** If the file is deleted with the option "KEEP FDT" the status will still show as optimizing. "Stopped" – preparations are being made to allow commands to be optimized. "Bad response" - there has been a communication failure. Optimization is stopped. "Error detected" - an error has been detected. Optimization is stopped. "Locked" - Either the file has been locked with the Adabas operator command LOCKF= , or, an Adabas utility is running against this file, or, a user has requested exclusive control of the file. "Start requested" - a request to start optimizing commands is being processed. "Stop requested" - a request to stop optimizing commands is being processed. "Pending event" - a request to stop optimizing commands has been processed. "DA suspended" - optimization of commands by direct-access is temporarily stopped. "DA terminated" - optimization of commands by direct-access is stopped.

Detailed File Information

If option code d is selected on the File Summary screen, the File Details screen is displayed.

This screen contains optimization performance information for the selected file.

```
13:13:39      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-10-22
 Run-mode: 17004              File Details from A8P17004 : 17004      F12210MB

                    Database: 17003 SVC 254 File: 9
------------------------- Optimization Summary ---------------------------
   Access Type              Attempts  (98%)    <----------Successes  (59%)

   Read-ahead:                    457  (32%)                    320  (70%)
   Direct:                        815  (58%)                    384  (47%)
   RCs:                           119   (8%)                    119  (14%)
   Others:                         10   (0%)

   Total:                       1,401 (100%)                    823  (58%)
--------------------------------------------------------------------------
     Updates:                          Over-reads:              52  (16%)

   Set Limit(k): 1023                          Update Sensitivity: R
   Set Id Length Limit: 1024   RB Length Limit: 1024   Set Concurrency: 2
   Status: 00 D0   Last RC:        Next Event:  0:00   Addr: 16BCC5A0


Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help          Exit  Refr        Excl              More  Zero  Node  Menu
```

The first section of this screen (Optimization Summary) provides optimization statistics for the file. This information is provided in the same format as that provided at the database level.

The second section of this screen provides the following information:

Field	Description
Updates	The number of update commands processed for this file.
Over-reads	The number of read-aheads performed but not needed by the application, and the percentage of non-needed over-reads to the number of successful read-aheads. Non-needed over-reads represent overhead that may reduce the effectiveness of read-ahead optimization. In general, over-reads should not exceed 25% of read-ahead successes.
Set Limit ... Set Concurrency	The current settings for various file optimization parameters. For a description of each parameter, see the section Adabas Fastpath Parameters.
Status ... Addr	These fields are reserved for Company internal use.

Pressing PF9 invokes the second File Details screen. This screen shows whether or not optimization has been defined for the Adabas command/descriptor pairs which are used to access the file.

```
10:37:21    ***** A D A B A S  FASTPATH SERVICES v.r.s *****          2025-05-19
        -  File Details for File 19 DBID 198 SVC 240  -          F12210ME
                       Expanded File N


                On/Off Adabas Field Overrides      ........Direct Access......
            L1    On
            L3    On
            L9    On
            S1    On
            S2    On


 Over-reads   Default Adabas Field Overrides      ........Read-ahead.........
            L1     On
            L2     On
        34  L3     On
            L9     On
            S1     On
            S2     On
            S8     On
            S9     On



 Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help        Exit              Excl  Gen                     Node  Menu
```

File Details 2

The two sections of the screen provide optimization information for direct access and read-ahead commands respectively.

The following information is provided:

Field	Description
Command	Adabas command.
On/Off	Indicates whether or not optimization is in effect for the command.
Adabas Field Overrides	Indicates whether or not Adabas field overrides have been defined.
Over-reads	The number of read-aheads performed but not needed for the command. Non-needed over-reads represent overhead that may reduce the effectiveness of read-ahead optimization. In general, over-reads should not exceed 25% of read-ahead successes.

File Set Summary Information

If the option code f is entered for a file on the File Summary screen, the Set Summary screen is displayed. This screen contains summary information for each Adabas command/descriptor pairing:

📄 **Note:** You can also access this screen by entering 2.2.2 on any command line.

📄 **Note:** You can also access this screen using PF9 from AFPLOOK File Details or File Parameter Maintenance. In addition, this screen gives hot key access to AFPLOOK (PF6) and File Parameters (PF5). Pressing PF10 displays details of the master control set for the file.

```
13:14:49      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-10-22
 Run-mode: 17004               Set Summary from A8P17004 : 17004        F12220MA

                      Database: 17003 SVC 254 File: 9

                Number of Items....                 Memory (k)....       Growth
 C CC De Sets    In Use       Peak      Optimized  In Use     Peak       Mode
 _ L1       1       20          25             60       2        3
 _ L1  I    1       20          25            136       2        3
 _ L3 AA    1       20          25             64       3        4
 _ L9 AE    1       20          25             64       4        5
 _ S1 AE    3       20          59             60       3       10
 _ S2 AE    2                   34                                6




 Mark with D(etail),F(ull Set List)

 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help         Exit  Refr  Parms Look                     Cntl  Node  Menu
```

The following information is provided:

Field	Description
C	Option code. The following options are available: d: display detailed set information f: display full set list
CC De	The Adabas command/descriptor pair for which information is provided.
Sets	The number of sets that have been added together to make the summary.
Number of Items	The number of items (records) in use at the present time, the peak number of items used, and the number of times items in the set were used for optimization.
Memory	In use: The amount of memory productively being used by these sets. Each set may also have extra memory allocated to it for the purposes of set growth, so the sum of the "In use" memory for all the sets in a file will not be the same as the "Set usage (k)" from the summary file information screen. Peak: The HWM of all memory that has ever been allocated for use by these sets
Growth Mode	Fastpath regularly assesses the worthiness of all direct-access sets as being high, medium or low. Based upon this assessment Fastpath is likely to award more memory to sets assessed highly, when there is memory available, and to remove memory from the less worthy sets. The regular reassessment means the assessment of a set will quickly change according to current system activity thereby making sure the most appropriate optimization levels are maintained at all times.

File Set List

If the option code f is selected for a command/descriptor pair on the File Set Summary screen, the Set Summary screen will be displayed.

This screen contains an activity summary for each direct access set used by the selected command/descriptor pair.

```
13:15:28     ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-10-22
 Run-mode: 17004               Set Summary from A8P17004 : 17004       F12230MA

               Database: 17003 SVC 254 File: 9     CC: S1 De: AE

            Number of Items......                Memory (k).....       Growth
 C   SSID      In Use       Peak     Optimized  In Use     Peak       Mode
 _     3          20          25           60       3        4
 _     1                      17                             3
 _     9                      17                             3
```

```
 Mark with D(etail),S(start/stop)

 Command ==>




Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help          Exit  Refr                             Cntl  Node  Menu
```

The following information is provided:

Field	Description
C	Option code. The following options are available: d: display detailed set information s: start/stop optimization for the set
SSID	SSID (Short Set ID) is a number used internally to identify different sets. The lower the number, the older the set.
Sets ... Ratings	The remaining fields on this screen are as described in the previous section **File Set Summary**.

Detailed Set Information

The Set Detail screen can be invoked by selecting the option code d for a set or pressing PF10 on the File Set Summary screen:

```
13:15:57     ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-10-22
 Run-mode: 17004              Set Detail from A8P17004 : 17004        F12230MB

                     Database: 17003 SVC 254 File: 9
 Command: S1    Primary Descriptor: AE                SSID: 3

   Items   - Optimized:          60             Growth Mode:
             Current:        20 Added:        20  Removed:
             Peak:           25 RLU:              Overwrites:
             Free:            5 Resets:            Collisions:
   Memory  - Used(k):         3 Peak(k):       4  Free(k):
   Status:   00 04 0E 08        Expansion:     1  Acc.Mask Entries    2
   Used      FB:    1 RB:       Indexes:       3  Address:      16BDCF28
   Lengths:  SB:    8 VB:    20 Code:             Lock:         00000000
   SetID Length:    21
 Reject:
 SB AE,20,A.
 FB .

 Command ==>




 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit  Refr                            Conc         Menu
```

The following information is provided:

Field	Description
Growth Mode	Fastpath regularly assesses the worthiness of all direct-access sets as being high, medium or low. Based upon this assessment Fastpath is likely to award more memory to sets assessed highly, when there is memory available, and to remove memory from the less worthy sets. The regular reassessment means the assessment of a set will quickly change according to current system activity thereby making sure the most appropriate optimization levels are maintained at all times.
Items ...	Optimized: the number of successful optimizations from data records in the set. Added: the number of times a data record was inserted into the set. Collisions: the number of times a set was inaccessible because concurrency for the set was exhausted. Current: the number of data records currently in the set. Peak: the highest number of data records which have been in the set.

Field	Description
	Free: the number of free data item areas currently available. Removed: the number of data records which have been removed from the set. RLU: the number of times an individual data record was removed from the set as a result of a database modification command (for example, update, insert, delete). Overwrites: the number of times a new data record was inserted by overwriting an existing record because no free area was available. Set Resets: the number of times a complete set was emptied.
Memory	The memory in use to hold the data in the sets (in k) and the peak memory usage for all sets.
Status ... Reject	These fields are reserved for Company internal use.

Press PF10 to display set concurrency information.

Job Information

Selecting option code 3 on the Current Activity Display screen, displays the Job Summary screen.

📄 **Note:** You can also access this screen by entering 2.3 on the command line.

This screen displays a summary of activity for each job.

```
13:17:32     ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-10-22
Run-mode: 17004              Job Summary for A8P17004 : 17004          F12300MA

Buffer Session: 113         Started: Oct 22,2025  12:46    Size(k): 1023

C Job Name Number Job Type       Attempts      Optimized Mem(k) Status
_ UKRPE    U54670 TSO               1391            823          Active
_                                                                Unused
_                                                                Unused
_                                                                Unused
_                                                                Unused
_                                                                Unused
_                                                                Unused
_                                                                Unused
_                                                                Unused
_                                                                Unused
_                                                                Unused
_                                                                Unused

Mark with D(etail),S(ervices)

Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help         Exit  Refr                                Sysj  Node  Menu
```

The following information is provided:

Field	Description
C	Option code. The following options are available: d: display detailed job information s: stop/start optimization
Job Name Number Type	The job name, job number and job type.
Attempts	The number of optimization attempts.
Optimized	The number of successful optimization attempts.
Memory	Memory used by the job.
Status	The status of the job (active, unused, disconnected). **Note:** Status Disconnected indicates that a job is no longer being optimized, usually because it has completed. The job details can still be displayed until the job area is reused.

Press PF10 to display the System Job Summary screen.

Detailed Job Information

Selecting option code d for a job on the Job Summary screen displays the Job Details screen.

```
13:19:03     ***** A D A B A S   FASTPATH SERVICES v.r.s *****       2025-10-22
 Run-mode: 17004            Job Details from A8P17004 : 17004         F12300MB


 Job:    UKRPE Type: TSO        Number: U54670         Started: Oct 22,2025 12:29


 ------------------------- Optimization Summary ---------------------------
    Access Type              Attempts (64%)    <----------Successes  (59%)

    Read-ahead:                   457  (21%)                     320  (70%)
    Direct:                       815  (38%)                     384  (47%)
    RCs:                          119   (5%)                     119  (14%)
    Others:                       709  (36%)

    Total:                      2,100 (100%)                     823  (39%)
 -----------------------------------------------------------------------------
  Memory(k):            RA Memory:                Over-reads:               52

   Status: 00 00 00 00    System ID:     TSO    Area Address: 16BBAB88




 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help        Exit Refr      Excl                More  Zero  Node  Menu
```

The first section of this screen (Optimization Summary) provides optimization statistics for this job. This information is provided in the same format as that provided at the buffer and database level (see section **Buffer Information**).

The following additional fields are displayed:

Field	Description
Memory	The total memory, in kilobytes, of all memory classes used for this job.
RA Memory	The total memory, in kilobytes, of all read-ahead areas allocated to this job.
Over-reads	The number of read-aheads performed but not needed by this job, and the percentage of non-needed over-reads to the number of successful read-aheads. Non-needed over-reads represent overhead that may reduce the effectiveness of read-ahead optimization. In general, over-reads should not exceed 25% of read-ahead successes.
Status ... Address	These fields are reserved for Company internal use.

PF9 on the Job Details screen can be used to display the second job detail screen.

```
11:41:09     ***** A D A B A S   FASTPATH SERVICES v.r.s *****       2025-03-01
 Run-mode: 17004              Job Details from A8P17004 : 17004        F12300MC


 Job:   RPEAWG Type: Batch     Number: B43793          Started Mar  1,2025 10:59


 Job Information---------------------------------------------------------------
   CID  Areas:  In Use: 0        Peak: 1

 Client Runtime Controls-------------------------------------------------------
   System Coordinator (Buffer) Group Name: RPEGRP1

   Fastpath ON/OFF......: ON          Read-ahead Optimization Control: BAT
   Direct Access........: ON          Read-ahead Memory Limit(k).....: 0
   Tracing..............: N           Maximum read-ahead unit size(k): 32
   Command time (Hex)...: 12345678    Maximum read-ahead rate........: 4096
   End-of-job-statistics:   None
                            Daemon messages
                          X File history with maximum records........:  4




 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help         Exit  Refr        Excl  Gen                     Node  Menu
```

The first section of this screen (Job Information) provides the following information:

Field	Description
CID Areas	In Use: the number of Command ID areas currently in use.
	Peak: the highest number of Command ID areas which have been concurrently in use.

The second section contains the current values for the client runtime controls. See the section Adabas Fastpath Parameters for descriptions of these parameters.

> **Note:** The parameter values currently being used by the job are displayed. Once a job is disconnected, these values are reset automatically to the default parameter values.

PF6 can be used to display the Excluded Command Analysis screen as described in the section **Buffer Information**.

System Job Information

Selecting option code 4 on the Current Activity Display screen invokes the System Job Summary screen.

📄 **Note:** You can also access this screen by entering 2.4 on the command line.

This screen contains a list of system job areas for the active Adabas Fastpath buffer. This is normally the Asynchronous Buffer Manager task and any database components.

```
15:53:10  ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-11-26
 Run-mode: 17004              Jobs for A8P17004 : 17004            F12400MA

 Buffer Session: 567          Started: Nov 26,2025  10:25    Size(k): 1023

 C   Job Name Number Job Type    SVC  DB   Nuc ID             Status
 _                   AFPADA      254 17015                    DB down
 _   N8C81003 C34417 AFPADA      254 17003                    Active
 _   A8P17004 C32991 AFPABM                                   Active














 Mark with D(etail),S(ervices)

 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help       Exit                                       UserJ Node  Menu
```

The following information is provided:

Field	Description
C	Option code. The following options are available: d: display the Asynchronous Buffer Services menu s: display the Database Component Services menu **Note:** These services are described in the section **Special Services**.
Job Name Number Type	The job name, job number and job type.
SVC	The Adabas SVC used for this job.
DB	The Adabas database used for this job. This is the "external" DBID (DBID used by the application program).
Nuc ID	This ID is used by a member of Adabas Parallel/Cluster Services. These services may have "internal" DB numbers.
Status	The status of the job (active, unused).

PF10 can be used to display the Optimized Job Summary screen.

7 Buffer History

This function can be used to display the Adabas Fastpath buffer history information that has been recorded in the Adabas Fastpath configuration file either

- automatically (see the Adabas Fastpath Log Parameter) or
- by using the log function of **Adabas Fastpath Special Services**.

If history logs are present for more than one buffer, selecting option code 3 from the main menu or entering the direct command 3 from the command line displays the following screen:

```
10:22:42      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-10-25
                      -  Buffer History  -                           F13000MA


              Please mark to select Buffer for History Display


                       _    AFP17004    Global
                       _    A8P17004    Global
                       _    A8P17013    Global













  Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit                      Top                          Menu
```

Buffer History Selection

Mark the buffer for which history information is to be provided. The following Buffer History Available screen appears:

> **Note:** This is the first screen displayed if history logs exist for only one buffer.

```
10:24:38     ***** A D A B A S   FASTPATH SERVICES v.r.s *****     2025-10-25
            -  Buffer History Available for Global A8P17004   -    F13100MA

        Buffer   <---Logged at--->   <-------------Optimization--------------->
 Sel   Session  Date       Time                           Attempts     Optimized

 __    104         Oct 18,2025 13:37   Direct-access          105           90
                                       Read-ahead
 __    104         Oct 18,2025 14:37   Direct-access          105           90
                                       Read-ahead
 __    104         Oct 18,2025 15:14 E Direct-access         1039          593
                                       Read-ahead            462          322
 __    105         Oct 18,2025 15:17 E Direct-access
                                       Read-ahead              5            2
 __    106         Oct 18,2025 16:17   Direct-access
                                       Read-ahead              6            2
 __    106         Oct 18,2025 17:17   Direct-access
                                       Read-ahead              6            2
 Select using S or an SS pair, Purge using P or a PP pair.
   Position to: Oct 18,2025

 Command ==>



 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit              Reset Top   Next                      Menu
```

Buffer History

This screen displays a two-line summary for each log record of the selected (or default) buffer.
The summary includes the following information:

Column	Description
Sel	The following option codes can be used to process one or more lines (records) of the log: s: display details for one log record. ss: display the difference in statistics between a pair of log records. p: purge a single log record pp: purge from the first to the last marked log records You must enter the options ss pp in pairs. The second element of the pair need not be on the same screen but must be within the same buffer session. Use PF6 to clear all entries in the Select column.
Buffer Session	The buffer session number. Certain operations cannot be performed across sessions.
Logged at Date/Time	The date and time the log was recorded.

Column	Description
E M	E indicates end-of-job. M indicates a special log request using the function Special Services.
Direct Access	The number of attempted and successful direct access optimizations for each logging period.
Read-Ahead	The number of attempted and successful read-ahead optimizations for each logging period.

Use PF8 to display the next page of log records.

If option code ss is marked for a pair of records, the following History Interval screen appears. This screen displays the statistics for the time interval specified in the screen heading.

```
16:24:40     ***** A D A B A S   FASTPATH SERVICES v.r.s *****       2025-03-07
 History Interval -        Jan 13,2025 14:34 to 15:06                 F13110MA

   Name: A8P17004                         SVC:  254  DB:  17004
   Dataspace:                             Buffer Status : Buffer Stopped
   Started:   Jan 13,2025   at: 12:34     Ave Memory Val: 1245
   Address:   00001000 Size(k): 1023      Session Number: 2785


--------------------------- Buffer Statistics ----------------------------

   Access Type              Attempts  (98%)   <----------Successes  (99%)

   Read-ahead:                    13   (0%)                   7  (53%)
   Direct:                    54,816  (98%)              54,797  (99%)
   RCs:                            1   (0%)                   1   (0%)
   Others:                       594   (2%)

   Total:                     55,424 (100%)              54,805  (98%)
--------------------------------------------------------------------------


 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help        Exit              Excl  Gen  Buff  Parm                  Menu
```

History Interval Logs

The information contained on this screen is exactly like the General Information screen available directly from this screen by pressing PF7. The excluded command analysis, buffer memory and parameter screens can also be invoked by pressing PF6, PF8, and PF9, respectively. All of these screens are described in the section **Buffer Information**.

If, on the Buffer History screen, you marked a record with an s instead of marking a pair, the following screen will appear displaying the statistics at the time the history log was recorded:

```
16:25:31      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-03-07
 Buffer History - Logged    Jan 13,2025 17:32                          F13110MA

   Name: A8P17004                            SVC:  254  DB:  17004
   Dataspace:                                Buffer Status : Active
   Started:   Jan 13,2025   at: 16:32        Ave Memory Val:
   Address:   00001000 Size(k): 1023         Session Number: 2787


--------------------------- Buffer Statistics ----------------------------

   Access Type              Attempts   (4%)    <----------Successes  (45%)

   Read-ahead:                    22   (2%)                    12  (54%)
   Direct:                        20   (2%)                     5  (25%)
   RCs:                            4   (0%)                     4  (20%)
   Others:                       722  (96%)

   Total:                        768 (100%)                    21   (2%)
--------------------------------------------------------------------------


Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help        Exit       Next  Excl  Gen   Buff  Parm  ZNext       Menu
```

Buffer History

This screen displays the details for a single log record. PF keys can be used to display the next sequential log record until the end of session is found:

PF Key	Displays...
PF5 Next	The statistics from the current log record.
PF10 Next	The difference between the current and previous log records. The effect of this function varies depending on the type of information being displayed. This key can be used to skip from one statistics time slice to the next showing the statistics achieved in that time slice (taking the difference between one time slice and the next rather than simply displaying the details of each time slice).

Other PF keys provide direct access to the Excluded Command Analysis, General Information, Buffer Memory, and Parameter screens, which are described in the *Buffer Information* section.

8   Buffer Debug Event Controls

Buffer debug event controls are used to help diagnose problems with the use of the Fastpath cache, they are inactive by default. Please use only under guidance from Software GmbH.

These controls can SNAP some or all of the Fastpath cache to a file defined in the daemon (CORDUMP) and/or RESTART/STOP the cache automatically too. In order to react to an event you must choose an action to follow and, if a SNAP (full or partial) is requested you must also introduce the CORDUMP file to the daemon job execution control as necessary (according to the operating system you use).

A SNAP will only appear if an exact match for the event(s) you have chosen occurs. The event reaction will only react once in a daemon execution, after that it is automatically disabled.

≫ **To set a buffer debug event you must do the following:**

1 Ensure that the CORDUMP file is available to your COR daemon job.

2 Set the controls for the buffer event to be debugged. Press PF5 to save these details. For detailed information see: **Setting Buffer Debug Event Controls**

Setting Buffer Debug Event Controls

The Buffer debug event controls are set in the Buffer parameters. In SYSAFP Maintenance, modify the buffer parameters and use PF11 to scroll to the Buffer Debug Event Controls to see the following screen:

```
15:26:33    ***** A D A B A S   FASTPATH SERVICES v.r.s *****       2025-08-30
                           Buffer A8P17004                          F11120MD


     Adabas SVC Number:   254         Designated DBID:          17004


     Last Modified:       2025-08-30  By User ID:               UKRPE
     Last Buffer Address: 00001000    Length: 000FFC00   Session: 2586


-----Debug Event Control (use when recommended by Software GmbH)-------------


                                     Full  Partial  Start  Shut
       Event List                    snap   snap    again  down
       -----------------------------  ----   ----    ----   ----
       Database terminates abnormally   N      N       Y      N
       Set error code:  2A              N      Y       N      N







 Command ==>


Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit        Upd                           File  Next  Menu
```

For each event in the Event List up to 2 actions can be chosen; a full/partial SNAP and/or the RE-START/STOP of the Fastpath cache.

Action	Description
Full SNAP	A SNAP of the cache will be written to CORDUMP
Partial SNAP	A portion of the cache will be written to CORDUMP. Which portion of the cache is written will depend on the type of event.
Start again	The Fastpath cache will be restarted.
Shutdown	The Fastpath cache will be stopped. The COR daemon, and other products, will remain active.

9 Printing Facility (AFPCMD)

The function AFPCMD provides operating and reporting functions for the Adabas Fastpath buffer. AFPCMD can be used interactively in online mode or it can be invoked using Natural in batch mode.

> **Note:** This section describes only the basic usage of AFPCMD using Online Services. For a complete description, see the section AFPCMD.

Using AFPCMD in Online Mode

In online mode, AFPCMD can be invoked by:

■ selecting option code 4 from the Online Services main menu, or

■ by entering the command 4 on any screen command line, or

■ by entering AFPCMD on any screen command line.

The Online Printing Facility screen will appear:

```
11:14:31  ***** A D A B A S  FASTPATH SERVICES v.r.s *****          2025-05-19
                  -  On-Line Printing Facility  -                    F14000MA


Please enter the following to specify the required report:

  Command: _____   DISPLAY, LIST, PARMS

  Objects: _____   BUFFER, JOB, AFPLOOK, TRACE, DATABASE, FILE, SUMMARY, SET
                        or ALL

 Keywords: _____
            (Press Enter to be prompted for the appropriate keywords)

  Printer: _____
  PC         for download via NATURAL CONNECTION to a PC printer or file.
  SOURCE     for output to the NATURAL source area.
  CONNECT    for output into a CON-NECT folder.
  Valid Name  known to COMPLETE, NAF or any spooling system



  Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help       Exit                                                   Menu
```

Online Printing Facility

You must enter a valid command, object, keywords and printer. To print to PC or a printer, print file 7 must be defined correctly.

You can either enter the keywords or repeatedly press the Enter key to be prompted for keywords one at a time. When all keywords are valid, the function is executed and control is returned to this screen.

Refer to the following sections for information on commands, objects and keywords:

■ AFPCMD Commands

■ AFPCMD Objects

■ AFPCMD Keywords

10   Special Services

This section describes the special services functions provided by Online Services.

Special Services Menu

Selecting option code 5 from the Online Services main menu or entering the command 5 on the command line displays the Special Services menu.

```
10:45:13      ***** A D A B A S   FASTPATH SERVICES v.r.s *****      2025-10-25
                        -  Special Services  -                       F15000M1


                  Code    Service
                  ----    ----------------------------
                   1      Asynchronous Buffer Services
                   2      Database Component Services
                   3      Local SYSAFP Services
                   4      Fix Display
                   .      Exit
                  ----    ----------------------------
           Code ..: _








 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Help        Exit                                  Recon               Menu
```

The following services are available, and can be invoked using the appropriate option code.

Code	Service	Provides communication facilities for the...
1	Asynchronous Buffer Services	selected active Adabas Fastpath buffer.
2	Database Component Services	database(s) for which Adabas Fastpath has been installed.
3	Local SYSAFP Services	job (a TP monitor, for example) in use when executing the functions.
4	Fix Display	display of applied fixes for all Adabas Fastpath components.

Asynchronous Buffer Services

Selecting option code 1 from the Special Services menu or entering the command 5.1 on any command line displays the following window:

```
10:45:53                    2025-10-25
                            F15100MA
          Special Services
for ABM Node Id: 17004 A8P17004
       Status Active

          R Restart..(Stop/Start)
          S Stop.....(Terminate)
          N Newcopy..(and Restart)
          P Snap
          L Log
          I ABM Information
          . Exit
Code..: _


Command ==>
       PF1 Help    PF3 Exit
```

Asynchronous Buffer Services communicates with the buffer indicated at the top of the window. If the job is connected to a buffer, that buffer is shown when the window opens. You can override the default buffer by changing the database number to the one defined for the required buffer. All actions are a request to the Asynchronous Buffer Manager (AFPABM) to perform the function.

Option Code	Description
R: Restart	Stop the buffer in an orderly fashion, and then restart it again. Both primary and alternate configuration files (if used) must be available for this operation. (See note 1)
S: Stop	The Fastpath cache management service within the System Coordinator daemon is stopped. The configuration file and alternate (if used) must both be available for this operation. **Note:** This operation is not reversible without a complete recycle of the daemon.
N: Newcopy	Reload the Adabas Fastpath modules for the buffer and every other component connected to the buffer. AFPABM also performs a buffer restart. Both primary and alternate configuration files (if used) must be available for this operation. (See note 1)
P: Snap	Produce a snap dump of the buffer.
L: Log	Write a statistical log to the Adabas Fastpath configuration file.

Option Code	Description
I: ABM Information	Display general diagnostic information for the Adabas Fastpath buffer job.

📄 **Notes:**

1. Multi-task clients (such as RPC and NDV servers) are not compatible with the dynamic Restart or Newcopy. Such jobs should be stopped before issuing the Fastpath operator command and restarted after the action has completed.

Database Component Services

Selecting option code 2 from the Special Services menu or entering the command 5.2 on any command line displays the following window:

```
10:46:24                  2025-10-25
                          F15200MA


    Special Services for:-
        DBID: 0____
  SysCo Node: 17004



        I Connection Information
        . Exit
Code..: _




Command ==>
 PF1 Help   PF3 Exit   PF5 Action
```

The following fields are provided:

Field	Description
DBID	Database Component Services provides services for the database indicated at the top of the window. This can be any active database for which Adabas Fastpath has been installed. If the function is invoked from the System Job Summary screen as in the above example, the database for which communication is required is already established and is shown on the screen. Otherwise, the database number must be entered.
SysCo Node	The Adabas System Coordinator Node ID. This is only required for clustered databases: ■ If the Node ID is known, a screen follows showing a cluster map for the database.

Field	Description
	■ If the Node ID is not known, you must enter it in this field.
Option Code	The following option code may be used: I: Connection Information. Displays connection information between the selected database and the Adabas Fastpath buffer to which the database is connected. See the Connection Information screen as described in the next section.

Local Services

Selecting option code 3 from the Special Services menu or entering the command 5.3 on any command line displays the following window.

Local Services provides service request communication for a local job with the TP monitor in use.

```
10:47:10                 2025-10-25
                         F15300MA


     Special Services for:
        Local Job UKRPE

        I Connection Information
        S Job Statistics
        C ReConnect
        D Disconnect from Buffer
        N Newcopy
        . Exit
Code..: _



Command ==>
      PF1 Help    PF3 Exit
```

The following fields are available:

Field	Description
Local Job	The local job for which the request is to be made.
Code	The following option codes may be used: I: Connection Information. Displays connection information for the job. S: Job Statistics. Displays statistics for the local job when it is not connected to a buffer because read-ahead optimization may be taking place even when the buffer is not active. C: Reconnect. Attempts to connect the local job to a buffer.

Field	Description
	D: Disconnect. Disconnects the local job from the buffer. N: Newcopy. Temporarily disconnects the local job from the local buffer before reloading the Adabas Fastpath modules. We do not recommend using Newcopy from Local SYSAFP Services. The preferred method is to use Newcopy from Asynchronous Buffer Services.

Connection Information

The Connection Status screen, which can be accessed from any of the Service options, displays connection status information:

```
10:47:50     ***** A D A B A S   FASTPATH SERVICES v.r.s *****     2025-10-25
 Run-mode: 17004             -  Connection Status Information  -     F1CNXSMA

 ***** Information Request *****
 Status Indicators: 00 1E 00 20            Owner: 0000000000000000
 Jobname: UKRPE    No: U12954   Type: 29   Amode: 00

     Address List: 2633C1D8        Initialization Code: ok      RC:
     Linker Stub:  263E3960               Retry Count: 1000  Limit: 1000
     Connection-0: 2642F420              Linker SVC: 254
     Connection-1: 263EDDA0                   Event:
     Connection-X: 263E75A0        System File:  SVC: 254      DB: 17003
     AFPKRN        A6457F78                              FNR: 34
                                       Buffer:  SVC: 254      DB: 17004
                                          Poolname:
     Anchor:      16BAE400         Pool Address: 00000000
     Session:     16BBB3B8      User Exit 4 Routine:
     Reserved:    0000000000000000         CLOGIO: 00

 This Information Screen may be useful to technical support




 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
              Exit                                        CodeI
```

Connection Information Screen

Although this screen is primarily intended for Company internal use to assist in identifying connection problems, some of the following information may be helpful to users.

Field	Description
Linker Stub	Load address of the Adabas Fastpath module that was linked with the Adabas link routine.
AFPKRN / AFPDEP / AFPCFG	Load addresses of the Adabas Fastpath modules. A zero address indicates that the module could not be found.
Anchor	Address of the Adabas Fastpath buffer pool, if it could be located. This address is usually zero if connection could not be made.
Session	Address of the job area (BSA) within the Adabas Fastpath buffer.
Initialization Code	"ok" indicates connection was successful. If connection was unsuccessful an error code relating to job initialization is shown.
RC	If there is an error when reading the Adabas Fastpath configuration file, this field shows the Adabas response code received.

Job Statistics

The Local Job Statistics screen can be invoked by selecting option code S from the Special Services for Local Job window:

```
18:08:29  ***** A D A B A S   FASTPATH SERVICES v.r.s *****  2025-11-13
                        -  Local Job Statistics  -              F15310MA

 Job:    UKRPE Type: TSO      Number: U58757       Started: Nov 13,2025 17:45


------------------------- Optimization Summary --------------------------
   Access Type           Attempts  (27%)   <----------Successes  (62%)

   Read-ahead:              2,749  (27%)               1,719  (62%)
   Direct:                         (0%)                       (0%)
   RCs:                            (0%)                       (0%)
   Others:                  7,228  (73%)

   Total:                   9,977 (100%)               1,719  (17%)
-------------------------------------------------------------------------
 Memory(k):            RA Memory:              Over-reads:

  Status: 00 1C 02 00   System Id:      TSO    Area Address: 271A4000



 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help        Exit  Refr                                         Menu
```

This screen is useful when the local job is not connected to the local buffer to show the read-ahead optimization, which can continue even when the buffer is not connected.

The information provided is in the same format as that described in the section **Detailed Job Information**.

Fix Display

≫ **To display the applied fixes**

■ Select option 4 from Special Services menu.

```
08:36:03        ***** A D A B A S   FASTPATH SERVICES v.r.s *****        2025-04-23
                -  Fix Display: AFP 8.2.1 Patch: 0000 06/22/09  -        U1FIXOM1
                   Local client job running this current session

  C  Patch Reference Type Description
  _  0000  AW821001  EXE  For example only                                      ↵




















 Mark with any character for detail


 Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                  Exit  Other                                    Prods Menu
```

Initially the screen will list all fixes applied to the Adabas Fastpath kernel in the local client environment.

You can select other display perspectives (e.g. Coordinator daemon or Adabas database) by using PF4. You can also directly list the applied fixes for Adabas System Coordinator, Adabas Vista, and Adabas Transaction Manager by using PF11 to first select the appropriate product.

11 APFLOOK (Optimization Sampling)

AFPLOOK can be used to determine whether or not Adabas Fastpath optimization for specific databases or files should be used. This section describes how to use AFPLOOK in online mode.

> **Note:** This section describes only the usage of AFPLOOK using Online Services. For a complete description, see the section AFPLOOK.

AFPLOOK Menu

Selecting option code 6 from the Online Services main menu or entering the command 6 on the command line displays the AFPLOOK Services menu:

```
18:10:59 ***** A D A B A S  FASTPATH SERVICES v.r.s *****        2025-05-19
                       -  Afplook Services  -                        F16000MA


                          Code     Service
                          ----     -------------------
                           1       Start Afplook
                           2       File Display
                           3       Display Summary
                           4       Freeze/Pause Afplook
                           5       Release Afplook
                           .       Exit
                          ----     -------------------
                    Code ..: _

                          DB ID: 131    NUC131
                          Status: Active
                          User= UKPAL  May 19,2025 17:52
                          System Coordinator Node: _____



 Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help      Exit                                                    Menu
```

AFPLOOK Menu

The following fields are provided:

Field	Description
Code	For a specified database, the options provided can be used to start, stop, release, or display information for the database as a whole or for individual files. **Note:** Adabas Fastpath automatically detects when a database supported by a cluster of Adabas nuclei, either in a single operating system image (ADASMP) or across multiple operating system images (Adabas Cluster Services), has been selected for AFPLOOK. In this case, a separate menu screen is displayed so that you can indicate which nucleus is to be used.
DB ID / Status / User	These fields contain: ■ the number of the database for which AFPLOOK is currently active. This number may have been carried forward from a previous action. ■ the name of the database job. ■ the AFPLOOK status. ■ the user who started AFPLOOK for the database, and when it was started (date and time).
System Coordinator Node	The Adabas System Coordinator Node ID is required for a clustered database only when it is not already known by the system. If this is the case, you are prompted to enter the Node ID.

Because only one AFPLOOK can be active for a database at one time, a strict record of events is needed to establish sequence.

The screen example shows the status of database 131 as *active*. To display the AFPLOOK status of a different database, you may change the database number and press Enter. This may show that the new database is *not active* or it may say "AFPADA not installed". Otherwise, the name changes and the status of the new database is displayed.

■ Initially, AFPLOOK is at status *released* : a start can only be invoked when this status is current.

■ Once at status *started*, AFPLOOK can be stopped (but not directly released).

■ Status *stopped* can then be changed to released, at which point all statistics are discarded.

Statistics, both general and for files, can be displayed when the status is either *active* or *stopped*. When the Adabas nucleus terminates normally, any active or stopped statistics are printed on the DDPRINT file. AFPLOOK statistics can also be printed using AFPCMD.

Starting an AFPLOOK Session

Selecting option code `1` from the AFPLOOK Services menu or entering `6.1` on any command line displays the AFPLOOK Start Sampling screen:

```
16:36:23 ***** A D A B A S  FASTPATH SERVICES v.r.s *****      2025-05-19
          -  Afplook - Start Sampling for DB 198  -              F16100MA


          Maximum Files                         64          (See Note 2)
          Max.Commands/Descriptors per File     32
          Maximum Concurrent Users             100
          Max.CIDs per User                     10

          Max.Commands to Sample                 0          (0=No Limit)
          Restrict to Job Name             _____

          Restrict to Files _____    _____    _____    _____    _____   _____




          Notes: 1. To sample ALL files - leave the above file table empty
                 2. Max. files will be set automatically if file numbers
                       are selected

          Press PF5 to Confirm Start


 Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help        Exit        Start                                    Menu
```

Start APFLOOK Processing

The parameters on this screen are described briefly in the following table. Initially, default values for the parameters are shown. You can modify certain parameter values from this screen.

Parameter	Description
Maximum Files	The maximum number of files to be sampled. If one or more files are specified in the parameter `Restrict to Files`, this parameter will be set automatically to the number of restricted files.
Maximum Commands/Descriptors per File	The maximum number of command/descriptor pairs which can be included in the sampling session. This parameter controls the table size for each file. When all entries are used, the last table entry is used as a general accumulator.

Parameter	Description
Maximum Concurrent Users	The maximum number of concurrent users for this sampling session. When all user table entries are full, new users reuse the least active/oldest user in the table. This may lead to inaccurate reports if the table size is too small. The number of reused user areas is shown in the sample summary section.
Maximum CIDs per User	The maximum number of Command IDs per user for this sampling session. If this maximum is reached, additional commands will be ignored.
Maximum Commands to Sample	The maximum number of commands to be sampled. A value of 0 indicates no restriction.
Restrict to Job Name	The sampling session is to be restricted to commands for the specified job, or for a series of jobs that match the job name as defined using an asterisk (*) as a wild card character.
Restrict to Files	The sampling session is to be restricted to the files specified.

AFPLOOK File Summary

Selecting option code 2 from the AFPLOOK Services menu or entering 6.2 on any command line displays the AFPLOOK File Summary screen.

This screen lists the active files for the selected database, the number of commands for each file, and the potential optimization.

```
12:31:26      ***** A D A B A S  FASTPATH SERVICES v.r.s *****          2025-05-19
                  Afplook - Files Summary for DB 198                   F16200MA

                   Started: May  19,2025 at: 12:30 by: UKDEV1

  C   Fnr      Total          Direct Access              RCs        Sequential
  _    11
  x    18   3071741 (91%)        480751 (16%)         440          2590453 (84%)
  _    21       166                 37 (22%)            2 ( 1%)        115 (69%)
  _    24
  _    27       524                200 (38%)          110 (21%)        145 (28%)
  _    28      1126                631 (56%)          117 (10%)        192 (17%)
  _    30    121927 ( 4%)        30121 (25%)        17411 (14%)      63882 (52%)
  _    31     68034 ( 2%)        21588 (32%)        16214 (24%)      25353 (37%)
  _    32     12596               5936 (47%)         3900 (31%)       1705 (14%)
  _    33      3649               3649
  _    34       833                188 (23%)           65 ( 8%)        486 (58%)
  _    37         2                  1 (50%)            1 (50%)
  Total     3382726 (100%)

  Mark to Display File Details




  Command ==>
  Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
       Help        Exit  Refr                              Sumry
```

APFLOOK File Summary

The following fields are provided:

Field	Description
C	This field can be marked to display further details for a file.
Fnr	Adabas file number.
Total	The number of commands for this file, and the percentage of file commands to database commands.
Direct Access	The number of direct access commands for this file, and the percentage of potential optimization for direct access commands.
RC	The number of `Release Command ID` commands for this file, and the percentage of potential optimization for `RC` commands. The Adabas `RC` command releases one or more Command IDs currently assigned to a user. See the *Adabas Command Reference* documentation for more information. When a direct access command is optimized, it is often possible to optimize its matching `RC` command. The RCs column indicates the potential cases. `RC` commands cannot be optimized for sequential (that is, read-ahead) access.

Field	Description
Sequential	The number of sequential commands for this file, and the percentage of potential optimization for sequential commands.
Total (bottom of screen)	The total number of commands for all files.

In the above example, file 18 would be a prime candidate for optimization in that 91% of the database commands are for file 18. In addition, the sampling indicates that 16% of direct access commands and 84% of sequential access for file 18 can be optimized using Adabas Fastpath.

Further details for a file can be obtained by

■ marking column C for the file, or

■ entering `6.2.1` on any command line to display a previously accessed file.

The File Details screen will appear. This screen provides information for each command/descriptor pair which could be defined for Adabas Fastpath optimization.

```
12:32:21   ***** A D A B A S  FASTPATH SERVICES v.r.s *****          2025-05-19
              - Afplook - Details for DB 198   File 19 -              F16210MA

                  Started: May  19,2025 at: 12:30 by: UKDEV1

  CC DE Direct Acc        RCs  Sequential   Sequences          Non-Qualifying
  L3 KK     480777        415    2590506      480362         Updates 34
  L1 --          2                                           Inserts 1620
  L9 KK         15         15                                Deletes 1670
  S1 KK         10         10
                                                             Prefetch 0
                                                             Excluded 2255
                                                             Spare 0
                                                             No CID 0
                                                             Max.CIDs 0
                                                             Bad Rsp. 0
                                                             Max.Rec.Buff.Len
  Total      480804        440    2590506                     Direct Acc 1120
  Total Commands for File                      3071847        Sequential 1120



  Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help         Exit  Refr  Parms                      File            Menu
```

APFLOOK File Details Display

For information on how to interpet the above information, refer to the section APFLOOK.

AFPLOOK Summary Display

Selecting option code *3* from the AFPLOOK Services menu, or pressing PF10 from the Files Summary screen displays the AFPLOOK Summary screen.

This screen summarizes the potential for Adabas Fastpath optimization. It is important to note that whereas the estimates provided are useful in determining where optimization potential may exist, it cannot be guaranteed that this potential will always be attained to the extent estimated.

```
12:33:10  ***** A D A B A S  FASTPATH SERVICES v.r.s *****            2025-05-19
                 - Afplook - Summary for DB 198 -                       F16300MA

                 Afplook Started May  19,2025 at 12:30 by   UKDEV1

  --------------------- Potential Optimization Summary -------------------

          Sampled Commands                     Potential Optimization

  Sampled File Commands    3383333 (75%)  <=== Sequential:        2722211 (80%)
                                              Direct Access:       579729 (17%)
                                                        RCs:        58540 ( 2%)


  Excluded Commands        1130492 (25%)
  Totals                   4513825 (100%)                         3360480 (74%)


--------------------------------------------------------------------------------



  Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help        Exit  Refr                                File  More  Menu
```

AFPLOOK Summary Display

Refer to the section AFPLOOK for descriptions of the statistics shown.

Pressing PF11 on the previous screen displays the Summary Command Analysis screen:

```
12:33:41  ***** A D A B A S  FASTPATH SERVICES v.r.s *****            2025-05-19
            -  Afplook - Summary for DB 198  -                       F16300MB

             Afplook Started May  19,2025 at 12:30 by   UKDEV1

   -------------------------- Command Analysis -----------------------------
  Rejected Commands:
         Max.Users Exceeded:
         Max.CIDs Exceeded:
         Max.Files Exceeded:
  Excluded Commands:
         Bad Commands:                  365
         Non-File Commands:         1000944
         Non-File RCs:                31309
         Excluded File Commands:      44988
         Update Commands:             52886
         Already Prefetched:                      1130492  (25%)
  Sampled File Commands:                          3383333  (75%)
  All Commands Seen:                              4513825 (100%)

  ------- Parameters and High Water Marks        Reused User Areas:
  Max.Files: 64    Files Needed: 21       Max. DE: 32    Overflows:
  Max.Users: 100   Peak Users:   9        Max.CID: 10     Peak CIDs:  5



Command ==>
 Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12
      Help        Exit  Refr                              File  Prev  Menu
```

AFPLOOK Command Summary Display

This screen summarizes command processing and also displays the parameters that were used for the sampling session.

Refer to the section AFPLOOK for descriptions of the statistics shown.

12 Adabas System Coordinator online administration

This section describes the administrative functions relating to Adabas Fastpath that are found with Adabas System Coordinator.

Current activity display

Use the System Coordinator current activity display function to see the activities of Adabas jobs and the client sessions within them, including specific detail for Fastpath.

Display job statistics

≫ **To display Adabas Fastpath statistics within System Coordinator:**

■ Use PF11 to select Adabas Fastpath and the following will appear:

```
11:17:07      ***** A D A B A S   SYSTEM COORDINATOR v.r.s *****      2025-03-17
                 -  Adabas Fastpath Session Statistics  -          U1STSOM2


Node ID: 17004 Session ID: TSU42818 Hex: E3E2E4F4F2F8F1F8 Job Name: UKRPE


 ------------------------- Optimization Summary ---------------------------
    Access   Type           Attempts  (80%)    <----------Successes  (90%)

    Read-ahead:              7,769  (23%)                5,440  (70%)
    Direct:                 13,871  (41%)               13,668  (98%)
    RCs:                     5,372  (16%)                5,372  (16%)
    Others:                  6,401  (19%)

    Total:                  33,413 (100%)               24,480  (73%)
 -------------------------------------------------------------------------
                                 Over-reads:              884  (16%)




 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                Exit  Refr        Excl                       Tasks Prods ↵
```

Display session statistics

≫ **To display Adabas Fastpath session statistics within System Coordinator:**

■ Use PF11 to select Adabas Fastpath and the following will appear:

```
11:17:07     ***** A D A B A S   SYSTEM COORDINATOR v.r.s *****    2025-03-17
                -  Adabas Fastpath Session Statistics  -          U1STSOM2

Node ID: 17004 Session ID: TSU42818 Hex: E3E2E4F4F2F8F1F8 Job Name: UKRPE

------------------------ Optimization Summary ----------------------------
    Access  Type           Attempts  (80%)    <----------Successes  (90%)

    Read-ahead:               7,769  (23%)                 5,440  (70%)
    Direct:                  13,871  (41%)                13,668  (98%)
    RCs:                      5,372  (16%)                 5,372  (16%)
    Others:                   6,401  (19%)

    Total:                   33,413 (100%)                24,480  (73%)
-------------------------------------------------------------------------
                                     Over-reads:             884  (16%)




 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
              Exit  Refr        Excl                        Tasks Prods ↵
```

The following information is provided:

Field	Description
Access	Attempts: the percentage of optimization attempts (optimization attempts divided by total number of commands).
Type	Successes: the percentage of successful optimization attempts (successful optimization attempts divided by number of optimization attempts).
Read-Ahead	Attempts: the number of read-ahead optimization attempts, and the attempt percentage (read-ahead optimization attempts divided by total number of commands). Successes: the number of successful read-ahead optimization attempts, and the percentage of successful attempts (successful read-ahead optimization attempts divided by read-ahead optimization attempts).

Field	Description
Direct	Attempts: the number of direct access optimization attempts, and the attempt percentage (direct access optimization attempts divided by total number of commands). Successes: the number of successful direct access optimization attempts, and the percentage of successful attempts (successful direct access optimization attempts divided by direct access optimization attempts).
RCs	Attempts is always equal to successes. This is the number of optimized RCs that immediately followed a direct access command (without any intervening "next" commands).
Others	Attempts: the number of commands which were excluded from optimization, and percentage (number of these excluded commands divided by total number of commands). **Note:** For more information on excluded attempts, use PF6.
Total	Attempts: the total number of commands encountered by Adabas Fastpath. Successes: the total number of successful optimization attempts, and the percentage of successful attempts (successful optimization attempts divided by total number of commands).

Display session exclusions

≫ **To display session exclusions:**

■   Press PF6 from the Adabas Fastpath session statistics screen and the following will appear:

```
11:17:58      ***** A D A B A S   SYSTEM COORDINATOR v.r.s *****      2025-03-17
                 -  Adabas Fastpath Session Statistics  -          U1STSOM5


Node ID: 17004 Session ID: TSU42818 Hex: E3E2E4F4F2F8F1F8 Job Name: UKRPE


    Statistics for commands that have optimization potential but were
    unable to be optimized:


        Unsuitable command type:                              71
        Disqualified:                                      3,972
        Optimization was disabled:                             0
        Multi-fetch was already set:                           0
        Command details exceed Set-id limit:                   0
        Record Buffer exceeds the limit:                       0









 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
              Exit  Refr                 Gen             Tasks Prods Menu
```

This screen displays the following information:

Information	Description
Excluded - Reasons	The total number of commands excluded from optimization for the listed reasons. For more information, see Excluded Commands.

13   **Activity Displays**

This section provides an overview of the activity display functionality.

Activity display for jobs

Activity displays are provided through System Coordinator administration by selecting *Current activity displays* at the main menu then *Adabas client job information*. At that point you will see a summary list of all the jobs that are known. Use "d" to select further detail for the job you are interested in. This will show further detail from Coordinator; then use PF11 to toggle until the Fastpath detail for the job is encountered as follows:

```
11:58:42      ***** A D A B A S   SYSTEM COORDINATOR v.r.s *****     2025-03-08
                                - Fastpath Job Details  -                      ↵
C12110M1
Run-mode: Pulsing (node 2650)              Perspective: Daemon (node 2650)
 Job Name: DAEFCI18



------------------------- Optimization Summary --------------------------
   Access  Type           Attempts  (21%)    <----------Successes  (69%)

   Read-ahead:             1,025  (21%)                    708  (69%)
   Direct:                        (0%)                          (0%)
   RCs:                           (0%)                          (0%)
   Others:                 3,807  (78%)

   Total:                  4,832 (100%)                    708  (14%)
--------------------------------------------------------------------------



 Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
     Help         Exit  Refr       Excl                     Reset Prods Menu
```

The following information is provided:

Field	Description
Access	Attempts: the percentage of optimization attempts (optimization attempts divided by total number of commands).
Type	Successes: the percentage of successful optimization attempts (successful optimization attempts divided by number of optimization attempts).
Read-Ahead	Attempts: the number of read-ahead optimization attempts, and the attempt percentage (read-ahead optimization attempts divided by total number of commands). Successes: the number of successful read-ahead optimization attempts, and the percentage of successful

Field	Description
	attempts (successful read-ahead optimization attempts divided by read-ahead optimization attempts).
Direct	Attempts: the number of direct access optimization attempts, and the attempt percentage (direct access optimization attempts divided by total number of commands). Successes: the number of successful direct access optimization attempts, and the percentage of successful attempts (successful direct access optimization attempts divided by direct access optimization attempts).
RCs	Attempts is always equal to successes. This is the number of optimized RCs that immediately followed a direct access command (without any intervening "next" commands).
Others	Attempts: the number of commands which were excluded from optimization, and percentage (number of these excluded commands divided by total number of commands). **Note:** For more information on excluded attempts, use PF6.
Total	Attempts: the total number of commands encountered by Adabas Fastpath. Successes: the total number of successful optimization attempts, and the percentage of successful attempts (successful optimization attempts divided by total number of commands).

Display job exclusions

≫ **To display job exclusions:**

■   Press PF6 from the Adabas Fastpath job statistics screen and the following will appear:

```
12:26:10     ***** A D A B A S   SYSTEM COORDINATOR v.r.s *****     2025-03-12
                        -  Adabas Fastpath Job Statistics  -              ↵
C12110M5
 Node ID: 2650  Session ID: CICSTC26 Hex: C3C9C3E2E3C3F2F6 Job Name: DAEFCI18
 Terminal name: TC26              Network name: DAEETC26      Login id: UKRPE


    Statistics for commands that have optimization potential but were
    unable to be optimized:

    C     Description                                         Count
    _     Unsuitable command type:                              23
    _     Disqualified:                                        318
    _     Optimization was disabled:                             0
    _     Multi-fetch was already set:                           0
    _     Command details exceed Set-id limit:                   0
    _     Record Buffer exceeds the limit:                       0


    Mark (above) to display further information about any exclusion.        ↵



 Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
               Exit  Refr               Gen               Tasks Prods Menu
```

This screen displays the following information:

Information	Description
Excluded - Reasons	The total number of commands excluded from optimization for the listed reasons. For more information, see Excluded Commands.

Select an exclusion to display further information about that exclusion reason.

Activity display for client sessions

Activity displays are provided through System Coordinator administration by selecting *Current activity displays* at the main menu then *Adabas client job information*. At that point you will see a summary list of all the jobs that are known. Use any undefined character to expand to see a list of all the sessions for the job. Again use any character to select a particular session. The detail for a session will show a list of one or more Adabas client connections (multiple will be shown where ADAMODE demands multiple connections). Again use any unassigned character to select one of these connections for further display. Finally use PF11 to toggle until the Fastpath detail for the connection is encountered as follows:

```
16:27:29      ***** A D A B A S   SYSTEM COORDINATOR v.r.s *****      2025-03-08
                 -  Adabas Fastpath Session Statistics  -         U1STSOM2
 Node ID: LOCAL Session ID: TSU44781 Hex: E3E2E4F4F4F7F8F1 Job Name: UKRPE
 Terminal name: DAEETCH2       Network name: TSO              Login id: UKRPE



 ------------------------ Optimization Summary ---------------------------
    Access  Type            Attempts  (21%)    <----------Successes  (69%)

    Read-ahead:             1,025  (21%)                    708  (69%)
    Direct:                        (0%)                          (0%)
    RCs:                           (0%)                          (0%)
    Others:                 3,807  (78%)

    Total:                  4,832 (100%)                    708  (14%)
 ------------------------------------------------------------------------




 Command ==>



Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
             Exit  Refr        Excl                      Tasks Prods Menu
```

The following information is provided:

Field	Description
Access	Attempts: the percentage of optimization attempts (optimization attempts divided by total number of commands).
Type	Successes: the percentage of successful optimization attempts (successful optimization attempts divided by number of optimization attempts).
Read-Ahead	Attempts: the number of read-ahead optimization attempts, and the attempt percentage (read-ahead optimization attempts divided by total number of commands). Successes: the number of successful read-ahead optimization attempts, and the percentage of successful attempts (successful read-ahead optimization attempts divided by read-ahead optimization attempts).
Direct	Attempts: the number of direct access optimization attempts, and the attempt percentage (direct access optimization attempts divided by total number of commands). Successes: the number of successful direct access optimization attempts, and the percentage of successful attempts (successful direct access optimization attempts divided by direct access optimization attempts).
RCs	Attempts is always equal to successes. This is the number of optimized RCs that immediately followed a direct access command (without any intervening "next" commands).

Field	Description
Others	Attempts: the number of commands which were excluded from optimization, and percentage (number of these excluded commands divided by total number of commands). **Note:** For more information on excluded attempts, use PF6.
Total	Attempts: the total number of commands encountered by Adabas Fastpath. Successes: the total number of successful optimization attempts, and the percentage of successful attempts (successful optimization attempts divided by total number of commands).

Display session exclusions

≫ **To display session exclusions:**

■   Press PF6 from the Adabas Fastpath session statistics screen and the following will appear:

```
12:26:10     ***** A D A B A S   SYSTEM COORDINATOR v.r.s *****     2025-03-12
                 -  Adabas Fastpath Session Statistics  -           U1STSOM5
 Node ID: 2650  Session ID: CICSTC26 Hex: C3C9C3E2E3C3F2F6 Job Name: DAEFCI18
 Terminal name: TC26          Network name: DAEETC26      Login id: UKRPE


     Statistics for commands that have optimization potential but were
     unable to be optimized:

     C     Description                                          Count
     _     Unsuitable command type:                               23
     _     Disqualified:                                         318
     _     Optimization was disabled:                              0
     _     Multi-fetch was already set:                            0
     _     Command details exceed Set-id limit:                   0
     _     Record Buffer exceeds the limit:                        0


     Mark (above) to display further information about any exclusion.        ↵



 Command ==>
Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
                 Exit  Refr              Gen              Tasks Prods Menu
```

This screen displays the following information:

Information	Description
Excluded - Reasons	The total number of commands excluded from optimization for the listed reasons. For more information, see Excluded Commands.

Select an exclusion to display further information about that exclusion reason.