

SYSEDT Utility - Editor Buffer Pool Services

The Editor Buffer Pool Services utility SYSEDT is intended for Natural administrators and used to:

- Display parameters and runtime information of the editor buffer pool,
- Modify parameters,
- Delete logical work and recovery files.

The SYSEDT utility documentation covers the following topics:

- Defining a Natural Security Library Profile
 - Invoking and Operating SYSEDT
 - General Information
 - Generation Parameters
 - Users
 - Logical Files
 - Recovery Files
 - System Administration Facilities
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Defining a Natural Security Library Profile

If you have Natural Security installed, you must create a library security profile for the SYSEDT utility.

For details, see Library Maintenance as described in the Natural Security documentation.

Invoking and Operating SYSEDT

Below is information on:

- Invoking the SYSEDT Utility
- Invoking a SYSEDT Function
- Using Direct Commands Help

Invoking the SYSEDT Utility

To invoke the SYSEDT utility

- In the direct command line, enter SYSEDT.

The SYSEDT Main Menu is displayed with the following functions:

- General Information
- Generation Parameters
- Users
- Logical Files
- Recovery Files
- System Administration Facilities

The SYSEDT functions are explained in the remainder of this section.

Invoking a SYSEDT Function

To invoke a SYSEDT function

- On the SYSEDT Main Menu, enter the corresponding function code.
Or, on the SYSEDT Main Menu, press the appropriate PF key.
Or, skip the SYSEDT Main Menu and access the desired function direct by entering the direct command SYSEDT followed by the corresponding function code in the NEXT line.

The individual functions are described in the following section.

Using Direct Commands Help

If you enter a question mark (?) in the command line, all direct commands available within the SYSEDT utility are displayed in alphabetical order.

General Information

To invoke the General Information function

- On the SYSEDT Main Menu, enter Function Code **G**.
Or, on the SYSEDT Main Menu, press PF10 (GInfo).

The General Information screen is displayed which provides an overview of the current status of the editor buffer pool:

Item	Shows
Usage Statistics	The currently available total number, the currently used number, and the currently used percentage of the available number of the items that follow.
Buffer Pool Blocks	The number of blocks in the editor buffer pool.
Work File Records	The number of records in the editor work file.
Control	The number of control records, which is always one.
Work	The number of work records.
Recovery Records	The number of recovery records.
Logical Files	The number of logical files.
Requests	The total number of read and write requests, the number of read and write requests for buffer pool blocks (Pool column), and the number of read and write requests for work or recovery files (File column). The Copy column shows read requests, which (in contrast to locked read requests) result in the deletion of the corresponding buffer pool block.
Read Work	The number of read requests for logical file records. A logical file record can be found in the buffer pool (Pool column) or on the work file (File column). It can be read by a locked or by a copy request: locked means that the record is kept in the buffer pool for some time; copy means that it is deleted from the buffer pool after having been read.
Write Work	The number of write requests for logical file records. A record can be either written to the buffer pool (Pool) or moved to the work file (File) if there are no free blocks available.
Read Recovery	The number of read requests for recovery records in the editor work file.
Write Recovery	The number of write requests for recovery records in the editor work file.
Timeout Values	Shows items with timeout values specified in seconds. These timeout values can be modified after pressing PF5 (Updat) and dynamically set after pressing PF5 (Save) again. The modified values are not kept during a restart of the buffer pool. The values from the work file control record are used instead.
Logical Files	The time after which a logical file is deleted if it has not been accessed during this time.
Files Delete Check	The time after which all logical files are checked periodically whether they can be deleted.
Changed Blocks	The time after which blocks that have been modified can be freed by writing them to the work file.
Unchanged Blocks	The time after which blocks that have not been modified can be freed by writing them to the work file.
Locked Blocks	The time after which blocks that have been read with locked can be freed by writing them to the work file.

Generation Parameters

To invoke the Generation Parameters function

- On the SYSEDT Main Menu, enter Function Code **P**.
Or, on the SYSEDT Main Menu, press PF11 (Parms).

The Generation Parameters screen appears.

Below is a description of the individual parameters in alphabetical order which are displayed on the Generation Parameters screen:

Parameter	Explanation
CTOUT	Timeout value (in seconds) for changed buffer pool blocks.
DDNAME	Name of the editor work file for the JCL definition.
DSNAME	Name of the work file dataset.
DTOUT	Period of time (in seconds) for logical files to be checked for deletion.
FMODE	Mode of the work file name, which can be from A1 to Z9. This parameter applies under CMS only; it is not displayed in any other environment.
FTOUT	Timeout value (in seconds) for a logical file, which has not been accessed, to be deleted.
IMSG	Initialization message to be issued on the operator console.
ITOUT	Timeout value (in seconds) for the buffer pool initialization.
LRECL	Work file record length.
LTOUT	Timeout value (seconds) for locked buffer pool blocks.
MAXLF	Maximum number of logical files in the editor buffer pool.
PWORK	Percentage of work file records used as work records.
RECNUM	Total number of work file records.
RWORK	Percentage of work records for regular logical files.
UTOUT	Timeout value (in seconds) for unchanged buffer pool blocks.

For further information on these parameters, refer to the section Operating The Software AG Editor (in the Natural Operations for Mainframes documentation).

The Start column refers to the buffer pool restart. The following start values can be displayed for the above parameters:

Value	Explanation
L	The value for the corresponding parameter is taken from either the editor parameter module or the work file definition.
C	A modification of the corresponding parameter value forces a buffer pool cold start. Recovery records are lost.
W	A modification of the corresponding parameter value results in a buffer pool warm start. Recovery records are kept.

Modifying Parameter Values

To modify parameter values

1. Press PF5 (Updat).
2. Press PF5 again to save the new parameter values in the editor work file control record.

They will be activated when the buffer pool is started again.

Users

To invoke the Users function

- On the SYSEDT Main Menu, enter Function Code **U**.
Or, on the SYSEDT Main Menu, press PF7 (Users).

The Users screen is displayed which provides the following information:

Item	Shows
User ID	The Natural user ID.
Logical Files	The number of logical files defined per user.
Pool Blocks	The number of buffer pool blocks per user.
Work Records	The number of work records per user.
Recovery Files	The number of recovery files per user.
Recovery Records	The number of recovery records per user.

The first column contains an input field labeled **M** for Mark. You may enter a question mark (?) in this field to invoke a window which shows you the codes that are valid input for this field.

To perform the function described, you enter the code in the Mark field.

Code	Function
/	Position line to top of screen.
P	
F	Select the logical files of this user.
R	Select the recovery files of this user.
D	Delete all logical files and/or recovery files for this user.

Logical Files

To invoke the Logical Files function

- On the SYSEDT Main Menu, enter Function Code **F**.
Or, on the SYSEDT Main Menu, press PF6 (Files).

The Logical Files screen is displayed which provides the following information:

Item	Shows
File No.	The logical file number.
User ID	The Natural user ID.
Type	The logical file type.
Pool Blks	The number of buffer pool blocks currently used per logical file.
File Recs	The number of work file records currently allocated per logical file.
Last Access	The date and time of the last read or write request per logical file.

In addition, the first column contains an input field labeled **M** for Mark. If you enter a question mark (?) in this field, a window is displayed, which shows you the codes that are valid input for this field.

Enter the code in the Mark field to perform the function described.

Code	Function
/	Position line to top of screen.
P	
S	Select the logical files of this user.
D	Delete the logical file.

Recovery Files

 **To invoke the Recovery Files function**

- On the SYSED T Main Menu, enter Function Code **R**.
Or, on the SYSED T Main Menu, press PF8 (Recov).

The Recovery Files screen is displayed which provides the following information:

Item	Shows
User ID	The Natural user ID.
Member	The library member name.
Library	The library name.
Type	The library type.
Recs	The number of recovery records per recovery file.
Creation Date/Time	The creation date and time of the recovery file.

In addition, the first column contains an input field labeled **M** for Mark. If you enter a question mark (?) in this field, a window is displayed, which shows you the codes that are valid input for this field.

Enter the code in the Mark field to perform the function described.

Code	Function
/	Position line to top of screen.
P	
S	Select the recovery files of this user.
D	Delete the recovery file.

System Administration Facilities

To invoke the Administration Facilities screen

- On the SYSEDT Main Menu, enter Function Code **A**.
Or, on the SYSEDT Main Menu, press PF5 (Admin).

The Administration Facilities screen is displayed which offers you the function of either terminating the editor buffer pool or leaving the SYSEDT utility.

If you choose to terminate the buffer pool (Function Code **T**), a window appears prompting you for confirmation.

If you enter Yes for confirmation, a further window is displayed, asking you whether or not you want the editor buffer pool to be immediately restarted.

If you enter Yes again, the buffer pool is immediately restarted, which gives you the possibility to immediately activate modified generation parameters.

If you specify No, you leave SYSEDT and can perform actions outside your TP environment, for example, change the size of your editor work file; see also Editor Work File and Editor Buffer Pool in the Natural Operations for Mainframes documentation.