

ARCHIVE

File	211
Op-Sys	BS2000/OSD
Statement	PROCESS
Task	Run ARCHIVE utility.

Note:

Due to performance considerations, this view should be used in single-user mode only.

Common Fields for all Operating Systems

Dictionary Field Name	F/L	Mu	DE	Remarks
ERROR-CODE	N3			
ERROR-TEXT	A58			
NODE	N3		D	
NODE-NAME	A16		D	
SYSTEM-MESSAGE-CODE	A10			
SYSTEM-CODE	B2			
FUNCTION	A8		D	
NOW	A5		D	
DIRECTORY	A54		D	
NEW-DIRECTORY	A3		D	
CAT-ONLY	A3		D	
ERASE	A7		D	
SHARE	A3		D	
LIST	A10		D	
PASSWORD-ARRAY	A8	M/10	D	
SAVE-PASSWORD	A8		D	
DRIVES	N2.0		D	
DEVICE	A8		D	
SAVE-DIRECTORY	A3		D	
DAYS-UNUSED	N5		D	
SAVE-ID	A15		D	
CONTINUE-VOLSER-ARRAY	A6	M/5	D	
VOLSER-ARRAY	A6	M/10	D	
TAPES	A8		D	

Dictionary Field Name	F/L	Mu	DE	Remarks
RETENTION-PERIOD	N5		D	
CHANGED	A12		D	
BACKUP-TYPE	A1		D	
FILE-ARRAY	A61	M/20	D	
JOB-VARIABLE-ARRAY	A61	M/20	D	
EXCEPT-FILE-ARRAY	A61	M/20	D	
EXCEPT-JOB-VARIABLE-ARRAY	A61	M/20	D	
CONTINUE	A13		D	
REPLACE	A4		D	
SPACE	A5		D	
FROM-OPTION	A24		D	
SV-OPTION	A100		D	
INQUIRE-POOL-OPTION	A14		D	
POOL-OPERATION	A6		D	
FORCE-PURGE	A3		D	
STATUS-TYPE	A6		D	
STATUS-USER	A8		D	
TAPE-BLOCK-SIZE	N2		D	
COMPRESS	A3		D	
SAVE-ACL	A3		D	
CONVERSION	A4		D	

The following fields correspond to parameters of the ARCHIVE command PARAM. They can be set only with the first call, and will be ignored for all subsequent calls. Possible values for all fields are YES or NO.

Dictionary Field Name	F/L	Mu	DE	Remarks
PAR-CNS	A3		D	Default is YES.
PAR-RESTART	A3		D	Default is YES.
PAR-UNLOAD	A3		D	Default is NO.
PAR-OPERATOR	A3		D	Default is NO.
PAR-WRCHK	A3		D	Default is NO.
PAR-SNR	A3		D	Default is YES.
PAR-DESTROY	A3		D	Default is NO.
PAR-CATID	A3		D	Default is NO.
PAR-STREAM	A3		D	Default is NO.
PAR-OLS	A3		D	Default is NO.

Relevant Error Codes

Code	Text	BS2000/OSD
530	Access denied by Security Facility.	X
531	Password missing or incorrect.	X
565	Syntax error in dataset name.	X
658	Dataset is not cataloged.	X
722	Requested dataset not found.	X
733	User ID does not exist.	X
734	ARCHIVE run with errors.	X
750	Invalid operand within operand list.	X
756	Job variable name missing or invalid.	X
799	Entire System Server internal error.	X
853	Retention cycle unexpired / NEWNAME exists.	X
881	Error occurred while opening file.	X
984	Server is not authorized to access.	X
992	Requested job variable not found.	X

Field Descriptions

For detailed information, refer to documentation of SNI's product ARCHIVE. Some field descriptions simply refer to the corresponding ARCHIVE command to avoid duplicate explanations.

Field Name	Type/Length	Operating System
FUNCTION	(A8)	

The possible values for this field relate to the corresponding ARCHIVE command to be executed, unless stated otherwise:

Value	Explanation
FILES	
FILESC	Continuation of FILES for more file definitions than are possible in one call with FILES function.
JOBVAR	
JOBVARC	Continuation of JOBVAR for more job variables than are possible in one call with JOBVAR function.
DELETE	
EXPORT	
IMPORT	
INQUIRE	
LIST	
POOL	
PROCESS	
PURGE	
RESTORE	
SAVE	
STATUS	
CLOSE	This must be the last call and starts the ARCHIVE execution.

Field Name	Type/Length	Operating System
BACKUP-TYPE	(A1)	

Relevant for function SAVE. Minimum backup level.

Field Name	Type/Length	Operating System
CAT-ONLY	(A3)	

Relevant for functions SAVE, EXPORT.

Option	Explanation
NO	Default. Files are saved including catalog entry.
YES	Only catalog entries are saved.

Field Name	Type/Length	Operating System
CHANGED	(A12)	

Relevant for function SAVE. Possible values:

Value	Explanation
YES	Default. Only changed files are saved.
YES,LARGE	Only changed LARGE files are saved.
YES,n	Same as YES,LARGE, where <i>n</i> is the minimum file size in PAM pages.
NO	Save all objects.

Field Name	Type/Length	Operating System
COMPRESS	(A3)	

Relevant for functions SAVE, EXPORT. Specifies whether a compress is to be done with save. Possible values:

Value	Explanation
NO	Default. Compress is not performed.
YES	Compress is performed.

Field Name	Type/Length	Operating System
CONTINUE	(A13)	

Relevant for functions SAVE, EXPORT. Continuation of a previous SAVE/EXPORT run. Possible values:

Value	Explanation
SVID	SAVE-ID must be given.
SVID,VSN-LIST	SAVE-ID and CONTINUE-VOLSER-ARRAY must be given.
VSN-LIST	CONTINUE-VOLSER-ARRAY must be given.

Field Name	Type/Length	Operating System
CONTINUE-VOLSER-ARRAY	(A6)	

Relevant for functions SAVE, EXPORT. Maximum of 5 volumes if keyword VSN-LIST is specified in field CONTINUE.

Field Name	Type/Length	Operating System
CONVERSION	(A4)	

Relevant for functions RESTORE, IMPORT. PAM key conversion required to import or restore files to non-key disks. Possible values:

Value	Explanation
NO	Default.
CONV	
STD	

Field Name	Type/Length	Operating System
DAYS-UNUSED	(N5)	

Relevant for functions SAVE, EXPORT. Number of days the object to be saved must have been unused.

Field Name	Type/Length	Operating System
DEVICE	(A8)	

Relevant for functions SAVE, EXPORT, RESTORE, IMPORT, POOL, LIST. Device type (for example, T9G).

Field Name	Type/Length	Operating System
DIRECTORY	(A54)	

Relevant for functions SAVE, EXPORT, RESTORE, IMPORT, POOL, LIST, PURGE, INQUIRE. Name of directory file. Default is NONE.

Field Name	Type/Length	Operating System
DRIVES	(N2)	

Relevant for functions SAVE, EXPORT, RESTORE, IMPORT, LIST. Number of drives to be used in parallel.

Field Name	Type/Length	Operating System
ERASE	(A7)	

Relevant for functions SAVE, EXPORT. Specifies erasing of objects after SAVE or EXPORT. Possible values:

Value	Explanation
NO	Default. Objects are not erased.
ALL	Objects are erased regardless of access and retpd.
ALLP	For TSOS only: objects are erased regardless of access, retpd and passwords.
ALLCNS	Same as ALL, but also for CNS files.
ALLCNP	For TSOS only: same as ALLCNS, regardless of passwords.
YES	Objects are erased, if allowed by access, retpd and password definition.

Field Name	Type/Length	Operating System
EXCEPT-FILE-ARRAY	(A61)	

Relevant for functions FILES, FILESC. Maximum of 20 file expressions for EXCEPT option of ARCHIVES FILES command. Same syntax as for FILE-ARRAY.

Field Name	Type/Length	Operating System
EXCEPT-JOB-VARIABLE-ARRAY	(A61)	

Relevant for functions JOBVAR, JOBVARC. Maximum of 20 JV expressions for EXCEPT option of ARCHIVES JOBVAR command. Same syntax as for JOB-VARIABLE-ARRAY.

Field Name	Type/Length	Operating System
FILE-ARRAY	(A61)	

Relevant for functions FILES, FILESC, INQUIRE. Maximum of 20 file expressions, where a file expression can be a file name of a file name prefixed by THRU= or RENAME=.

Field Name	Type/Length	Operating System
FORCE-PURGE	(A3)	

Relevant for function PURGE. Specify to force purging of saved versions. Possible values:

Value	Explanation
NO	Default. Saved versions are not purged.
YES	Saved versions are purged.

Field Name	Type/Length	Operating System
FROM-OPTION	(A24)	

Relevant for functions RESTORE, IMPORT, LIST. Possible values:

- LATEST
- LATEST,STATE
- SVID
- SVID,STATE,yymmdd.hhmmss
- SVID,VSN-LIST
- VSN-LIST
- yymmdd.hhmmss
- yymmdd.hhmmss,STATE

If SVID is specified, the field SAVE-ID must be specified. If VSN-LIST is specified, the VOLSER-ARRAY field must be specified.

Field Name	Type/Length	Operating System
INQUIRE-POOL-OPTION	(A14)	

Relevant for function INQUIRE. Possible values:

- POOL
- POOL,AVAILABLE

Field Name	Type/Length	Operating System
JOB-VARIABLE-ARRAY	(A61)	

Relevant for functions JOBVAR, JOBVARC, INQUIRE. Maximum of 20 JV expressions, where a JV expression can be a JV name or a JV name prefixed by THRU= or RENAME=.

Field Name	Type/Length	Operating System
LIST	(A10)	

Relevant for functions SAVE, EXPORT, RESTORE, IMPORT, PURGE, LIST, INQUIRE. Destination for ARCHIVE report. Possible values:

- BOTH
- NONE
- SYSLST
- SYSOUT

Some functions allow the adding of ,ALL, see the **ARCHIVE documentation**.

Note:

If ARCHIVE is called with the Entire System Server in multi-user mode, the destinations SYSLST and SYSOUT will be those of the Entire System Server task.

Field Name	Type/Length	Operating System
NEW-DIRECTORY	(A3)	

Relevant for functions SAVE, EXPORT, POOL.

Value	Explanation
NO	Default. DIRECTORY field specifies existing directory.
YES	DIRECTORY field specifies new directory.

Field Name	Type/Length	Operating System
NOW	(A3)	

Relevant for functions SAVE, EXPORT, RESTORE, IMPORT, POOL, PURGE, LIST.
Possible values:

Value	Explanation
YES	Default. Start immediately after function CLOSE is specified.
NO	Put ARCHIVE command to file for later execution with function PROCESS (or cancel with DELETE).
t	Time in seconds: same as NO, where the time specified is an execution time limit for an ARCHIVE task started later.

Field Name	Type/Length	Operating System
PASSWORD-ARRAY	(A8)	

Relevant for functions SAVE, EXPORT, RESTORE, IMPORT, POOL, PURGE, LIST, INQUIRE. If files or job variables are password-protected, maximum of 10 passwords. Only the first password will be used with function INQUIRE.

Field Name	Type/Length	Operating System
POOL-OPERATION	(A6)	

Relevant for function POOL. Possible values:

- ADD
- REMOVE

Field Name	Type/Length	Operating System
REPLACE	(A4)	

Relevant for functions RESTORE, IMPORT. Possible values:

Value	Explanation
NO	Default. Objects are not replaced.
ALL	Objects are replaced regardless of access and retpd.
ALLP	For TSOS only: objects are replaced regardless of access, retpd and passwords.
YES	Objects are replaced, if allowed by access, retpd and password definition.

Field Name	Type/Length	Operating System
RETENTION-PERIOD	(N5)	

Relevant for functions SAVE, EXPORT. Retention period for save version in number of days.

Field Name	Type/Length	Operating System
SAVE-ACL	(A3)	

Relevant for function SAVE. Only for SECOS / FACS. Save ACL entries. Possible values:

Value	Explanation
NO	Default. ACL entries are not saved.
YES	ACL entries are saved.

Field Name	Type/Length	Operating System
SAVE-DIRECTORY	(A3)	

Relevant for functions SAVE, EXPORT. Possible values:

Value	Explanation
NO	Directory is not saved.
YES	Save directory also.

Field Name	Type/Length	Operating System
SAVE-ID	(A15)	

Relevant for functions SAVE, EXPORT, PROCESS, DELETE. ARCHIVE Save Identifier, in case the keyword SVID was specified in field FROM-OPTION or CONTINUE.

Field Name	Type/Length	Operating System
SAVE-PASSWORD	(A8)	

Relevant for functions SAVE, EXPORT, RESTORE, IMPORT. Password for the SAVE run.

Field Name	Type/Length	Operating System
SHARE	(A3)	

Relevant for functions SAVE, EXPORT. Possible values:

Value	Explanation
NO	Saved objects and volumes are not sharable.
YES	Saved objects and volumes are sharable.

Field Name	Type/Length	Operating System
SPACE	(A5)	

Relevant for functions RESTORE, IMPORT. Possible values:

Value	Explanation
REORG	Default.
KEEP	

Field Name	Type/Length	Operating System
STATUS-TYPE	(A6)	

Relevant for function STATUS. Type of ARCHIVE tasks for which status information is required. Possible values:

Value	Explanation
LATER	Default.
ACTIVE	

Field Name	Type/Length	Operating System
STATUS-USER	(A8)	

Relevant for function STATUS. Only for TSOS: user ID for which status information is required.

Field Name	Type/Length	Operating System
SV-OPTION	(A100)	

Relevant for functions INQUIRE and PURGE. For possible values, see the SV option of the corresponding ARCHIVE commands.

Field Name	Type/Length	Operating System
TAPE-BLOCK-SIZE	(N2)	

Relevant for functions SAVE, EXPORT. Block size in number of PAM pages. Maximum is 15.

Field Name	Type/Length	Operating System
TAPES	(A8)	

Relevant for functions SAVE, EXPORT. Possible values:

Value	Explanation
OPERATOR	Volumes are required from operator.
POOL	Volumes are taken from pool of directory.
VSN-LIST	Volumes are specified in field VOLSER-ARRAY.

Field Name	Type/Length	Operating System
VOLSER-ARRAY	(A6)	

Relevant for functions SAVE, EXPORT, POOL. A maximum of 10 volumes can be specified. Required also for functions RESTORE, IMPORT, UST when field FROM-OPTION=VSN-LIST.

Example

The following ARCHIVE commands are created by the example program shown below:

PARAM	UNLOAD=YES
FILES	NAME=(MYFILE.1,MYFILE.2,MYFILE.SHARE.), NAME=(BADFILE,RENAME=NICEFILE)
EXPORT	SHARE=YES,DEVICE=T-C1,LIST=BOTH, TAPES=(MYTAPE)

```

DEFINE DATA
    LOCAL USING ARCHIV-L
END-DEFINE
*
* --- build first part of FILES command and set PARAM options ---
*
PROCESS ARCHIVE
    USING NODE          = 148
        , FUNCTION      = 'FILES'
        , PAR-UNLOAD    = 'YES'
        , FILE-ARRAY    = 'MYFILE.1'      /* FIRST FILE
        , FILE-ARRAY    = 'MYFILE.2'      /* SECOND FILE
        , FILE-ARRAY    = 'MYFILE.SHARE.' /* ALL FILES STARTING *

        WITH THIS PREFIX
*
IF ERROR-CODE NE 0
    WRITE ERROR-TEXT
    ESCAPE ROUTINE
END-IF

*
* --- continue FILES command ---
*
PROCESS ARCHIVE
    USING NODE          = 148
        , FUNCTION      = 'FILESC'
        , FILE-ARRAY    = 'BADFILE'       /* rename this file
        , FILE-ARRAY    = 'RENAME=NICEFILE' /* .. with this name

*
IF ERROR-CODE NE 0
    WRITE ERROR-TEXT
    ESCAPE ROUTINE
END-IF

*
* --- build EXPORT command ----
*
PROCESS ARCHIVE
    USING NODE          = 148
        , FUNCTION      = 'EXPORT'
        , LIST          = 'BOTH'
        , SHARE         = 'YES'
        , DEVICE        = 'T-C1'
        , VOLSER-ARRAY  = 'MYTAPE'

*
IF ERROR-CODE NE 0
    WRITE ERROR-TEXT
    ESCAPE ROUTINE
END-IF

*
* --- ready to go ---
*
PROCESS ARCHIVE
    USING NODE          = 148
        , FUNCTION      = 'CLOSE'        /* execute ARCHIVE

*
IF ERROR-CODE NE 0
    WRITE ERROR-TEXT
    ESCAPE ROUTINE
END-IF
END

```

