

Datasheet

FUJITSU Software BS2000 ARCHIVE V11.0

Logical File Backup System in BS2000

Logical data backup and data transfer in BS2000

ARCHIVE offers users and system administrators alike a powerful file backup system that is optimized for ease of use. The high performance of ARCHIVE makes it suitable for logical backup of high volumes of data. ARCHIVE can also be used to transfer files to other BS2000 systems (data exchange). ARCHIVE is a disk- and tape-oriented product, i.e. disk files from public or private volumes can be saved to and restored from other disks or magnetic tapes. ARCHIVE operates in both interactive and batch mode.

ARCHIVE is available as stand-alone product or bundled with FUJITSU Software BS2000 HSMS.



Topics

Offered functions

ARCHIVE provides the following functions:

- File backup/restore
- File transfer between BS2000 systems
- Maintenance of backup directories
- Restart capabilities
- Optional linkup with the FUJITSU Software BS2000 MAREN magnetic media management system
- Data compression for backup operations
- Support for key/non-key conversion
- Cooperation with HSMS

File backup function (SAVE/RESTORE)

Files are copied from public or private disk volumes onto magnetic tape cassettes or other disk volumes and restored as required. This implies a number of sub-functions, e.g.:

- Flexible selection of the files to be backed up, by a combination of:
 - user Ids
 - partially qualified file names
 - volume identification
 - file-specific backup identifier
- Backup of all files thus defined (full backup) or only those files which have been updated since the last backup run (incremental backup).
- In the case of large files (only with BLKCTRL = DATA or PAMKEY or PLAMLIB), updated PAM pages can be saved; in this case the system automatically ensures that they are reintegrated into the complete file at restore time.
- By means of user-controlled, file-specific backup identifiers in the catalog entry, user files are included in the periodic backup runs done by the system administrator (thus avoiding duplication of backup runs).
- File selection during restoration (RESTORE) is made more flexible by the automatic management of backup files in directories
- Files can be renamed during restoration and during export (without a directory).
- Files which have not been used for a certain number of days can be swapped out.
- If required, files can be restored to predefined storage areas on disk.
- For data backup, data compression and continuation of data volumes at the next scheduled backup run are supported. This means a considerable reduction in the number of required backup volumes.
- For catalog reconstruction, there is the option of saving and restoring only catalog entries from private volumes (private disks/tapes).
- Support of job variables with flexible selection facilities for backup and restore.
- File generations are supported.

- Support for direct positioning on MTCs during restore/recall.
- Backup of open files is also possible for UDS and SESAM databases
- ARCHIVE can also backup and restore very large files (over 32 GB).
- Support of big tape blocks (up to 256-Kbyte) in the backup statements. The benefit of large tape blocks is a significant throughput improvement in BACKUP activities in combination with high speed tape or MTC devices.
- Performance-win through use of larger disk I/Os with up to 240 PAM-pages during backup and via longterm-fixing of I/O buffers for disk and tape I/Os.

File transfer function (EXPORT/IMPORT)

This function means that ARCHIVE can be used to exchange files and/or JVs on the selected volumes between different BS2000 installations.

Backup Directories

ARCHIVE maintains administration information on all backup runs in the form of files. System administrator directories are differentiated from user directories.

The directory function provides the user/system administrator with a wide range of options for recalling and selecting files and/or JVs from previous backup runs. Furthermore, the backup tapes are administered with regard to file allocation and reusability after the expiry of retention periods.

Restart function

Restart facilities are offered for the commands of the SAVE/RESTORE function, thereby avoiding time-consuming reruns in the event of a system breakdown.

Holistic Design

The main target of ARCHIVE used in combination with HSMS is to support the Information Life Cycle Management (ILM) of BS2000/OSD-data, especially the support of the System Managed Storage (SMS) concept. This functionality is delivered via HSMS interfaces. SMS is a concept for data management by the system. Key aspects are complexity reduction and lowest TCO via the automation of the data management both for the system administrator and for the end user. Separation of the logical and physical view of the data is the underlying principle (virtualization). In practice, this is achieved by formulating a logical description relating to the description of certain structural, availability and performance requirements of files. ARCHIVE supports the same range of functions for System Managed pubsets (SM pubsets) as for Single Feature pubsets (SF pubsets), while HSMS offers additional functionality for SM pubsets. ARCHIVE is able to multiplex I/O-streams and to exploit high speed LTO-devices.

Technical Details

Requirements

Technical Requirements Hardware	BS2000 Business Server, SE and S series
Technical Requirements Software	OSD/BC as of V10.0 (on S-servers) or OSD/XC as of V10.0 (on SE servers)
Demands on the user	Knowledge of BS2000

Installation and operation

Operating mode	Interactive (dialog) and batch mode
Implementation language	Assembler
User interface	Commands in English, message texts in German/English (optional)
Installation	By the customer according to the Release Notice

Documentation and training

Documentation	ARCHIVE User Guide
Training	See course offer (German)

Purchasing

Conditions	This software product can be leased by the customer in accordance with the conditions for the use of software products.
Ordering and delivery	This software product may be obtained from your local Fujitsu Technology Solutions GmbH regional office.

More information

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