FUJITSU Software BS2000 SORT

Version 8.0A
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Release Notice

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1 General **3**
1.1 Ordering 3
1.2 Delivery 3
1.3 Documentation 4
2 Software extensions **4**
2.1 SORT V8.0A 4
2.1.1 Sort of more than 2,147,483,639 records 4
2.1.2 Read SORT parameter file when IMON is not used 4
3 Technical information **5**
3.1 Resource requirements 5
3.2 Software configuration 5
3.3 Product installation 5
3.4 Product use 5
3.5 Obsolete functions (and those to be discontinued) 6
3.6 Incompatibilities 6
3.7 Restrictions 6
3.8 Procedure in the event of errors 6
4 Hardware requirements **6**

1 General

This Release Notice is a summary of the major extensions, dependencies and operating information with respect to SORT V8.0A under the BS2000 operating system.

The release level is that of: November 2014.

This and other current Release Notices are shipped on the SoftBooks DVD and are available online at http://manuals.ts.fujitsu.com.

If one or more previous versions are skipped when this product version is used, the information from the Release Notices (and README files) of the previous versions must also be noted.

1.1 Ordering

SORT V8.0A can be ordered from your local distributors.

SORT V8.0A is supplied subject to a single payment or payment by installments.

1.2 Delivery

The SORT V8.0A files are supplied via SOLIS.

The following delivery groups are part of the SORT V8.0A delivery scope:

SORT	Load module
SORTLIB	Module library for compatibility
SYSACF.SORT.080	ACS conversion aid
SYSFGM.SORT.080.D	Release Notice (German)
SYSFGM.SORT.080.E	Release Notice (English)
SYSLIB.SORT.080	Macro library
SYSLNK.SORT.080	Module library
SYSLNK.SORT.080.TAB	Table module library
SYSMES.SORT.080	Message file
SYSNRF.SORT.080	NOREF file
SYSPAR.SORT.080	Parameter file default values
SYSRMS.SORT.080	RMS delivery set
SYSSDF.SORT.080	SDF syntax file
SYSSII.SORT.080	Information file for IMON
SYSSPR.SORT.080	Procedure library for implementing SORT-FILE command
SYSSSC.SORT.080	SSCM declaration for upper address space
SYSSSC.SORT.080.LOW	SSCM declaration for lower address space

Note:
For compatibility reasons, the SYSLIB.SORT.080 file should also be saved as $.SORTMACLIB.
The SYSSPR.SORT.080 and SYSACF.SORT.080 files have fixed names and must be made available under these names in a Defluid ID.

The current file and volume characteristics are listed in the SOLIS2 delivery cover letter.

1.3 Documentation

The BS2000 documentation is available in German and English on DVD with the title BS2000 SoftBooks.

The documentation is also available on the internet at http://manuals.ts.fujitsu.com. Manuals which are displayed with an order number can also be ordered in printed form.

The manuals may be supplemented with README files. These contain changes and extensions to the manual of the product concerned.
The README files are available on the SoftBooks-DVD or online under
http://manuals.ts.fujitsu.com.

2 Software extensions

Only the extensions and improvements over the previous version SORT V7.9 are described in the following section.

2.1 SORT V8.0A

2.1.1 Sort of more than 2,147,483,639 records

More than 2,147,483,639 records can be sorted i.e. record counters have been extended beyond 31 bit integers.

Extended statements:

- ASSIGN-EXITS	INTERFACE-VERSION in operand WORK-FILE-OVERFLOW=*MODULE can be specified.
- SORT-RECORDS	In operands ESTIMATED-RECORDS, FROM-RECORD, NUMBER-OF-RECORDS numbers greater than 2,147,483,639 can be specified .

2.1.2 Read SORT parameter file when IMON is not used

Macro calls SRT0 and SRT1 with operand MULTI=NOIMON read the SORT parameter file only once at the first call. The values are used to generate the defaults for the SORT parameters.

3 Technical information

3.1 Resource requirements

SORT V8.0A can be used on systems as of 4 MB installed main memory.

The following memory range in system and user address space is required for operation:

- Static memory requirement: min.374 KB (1100 KB with POSIX)
- Dynamic memory requirement: min.172 KB (372 KB with Unicode) max. available address space

The static code segment address space for SORT V8.0A is dependent on the functional scope and run state. The dynamically required memory depends on the requirements of the user or the system internal needs.

3.2 Software configuration

OSD/BC as of V8.0A is required to run SORT V8.0A.

At least DSSM V3.6 is required to ensure exchangeability and coexistence of the SORT subsystem.

The version must not be lower than V2.1 for XHCS-SYS.

3.3 Product installation

Installation of the product SORT with the IMON installation monitor is mandatory. You must follow the information concerning installation in the delivery cover letter and in the product documentation as well as the information in this Release Notice.

Before calling IMON, you must carry out the actions listed in the delivery cover letter as installation requirements.

Either the SYSSSC.SORT.080 or SYSSSC.SORT.080.LOW file is needed for use as a subsystem, depending on the specific computer center conditions.

If coexistence is used, it must be noted that the SORT and SORTLIB files are provided with the same names in all versions for compatibility reasons. For this reason, it is recommended that these files from the highest version are active.

3.4 Product use

The START-SORT and SORT-FILE statements cannot be used under the service ID or on the operator console.

The SYSACF.SORT.080 library is offered as a conversion aid. The ACSORT procedure can be used to allow the name SORTMACLIB to be used as an alias name for SYSLIB.SORT.080 with the ACS options.

3.5 Obsolete functions (and those to be discontinued)

No functions have been discontinued.

3.6 Incompatibilities

SORT V8.0A is functionally fully compatible to the previous version SORT V7.9C with following remarks:

The inserts of the MIP messages representing integer values have been expanded by 12 characters and filled with dots to the left to cover the maximal width of numeric values stored in 64 bits. When possible, the message texts including integer values have been cut by 12 dots before these inserts to keep the same message length.

3.7 Restrictions

SORT V8.0A is fully functional with OSD/BC V8.0A or higher and XHCS-SYS V2.1A or higher.

SORT V8.0 can be called via a SRT80 starter module, versions SORT V7.3 and higher.

However, there is no guarantee that older SORT versions with a SRT80 starter module of SORT V8.0 will function.

3.8 Procedure in the event of errors

If an error occurs, the following error documentation will be required for diagnostic purposes:

- A detailed description of the error condition, indicating whether and how the error can be reproduced:
  - Runtime log (file assignments, SORT control statements)
  - Runtime procedures (file assignments, SORT control statements)
  - Input file(s) and output file, including file properties
  - With an autonomous SORT also:
    - User dump
  - With SORT as a subroutine also:
    - User dump
    - Link log
    - Program phase
    - User program compilation listings (SORT interface)
- The error must be reported to the appropriate service provider. A PERLE error report will be opened for Second Level Support.

A Teleservice connection with callback option is essential for diagnostics.

4 Hardware requirements

SORT V8.0A runs on all business servers supported by OSD/BC as of V8.0A.