

Software Product Description

PRODUCT NAME: Micro/R SX SORT/MERGE, Version 3.1

SPD 18.13.01

DESCRIPTION

Micro/R SX SORT/MERGE is a utility for the Micro/R SX Operating System. It can accept as input up to 10 RMS-11 formatted files and will produce as output one reordered RMS-11 formatted file. Records may be sequenced in ascending or descending order by as many as 16 key fields with a maximum total key size of 512 bytes.

Features

Types of Record Formats

- Fixed length
- Variable Length
- Variable with fixed control (VFC)
- RMS stream

Types of File Organizations

- Sequential
- Relative
- Indexed

(If more than one input file is used, each file may have a different organization and record format.)

Types of Keys

- Character
- Single and double precision floating
- Decimal
 - Unsigned zoned
 - Sign separate trailing
 - Sign separate leading
 - Sign overpunched leading
 - DIBOL overpunched trailing
- Packed-decimal
- ASCII-zoned
- Signed binary

- Unsigned binary
- Signed 2's complement binary
- FORTRAN-77 ASCII floating

Sorting Processes

- Record sort
- Tag sort
- Index sort
- Address routing sort

Collating Sequences

- ASCII
- EBCDIC
- Multinational (8-bit)
- User-defined

Changes to Collating Sequences

- Shifting character positions
- Ignoring characters
- Equating characters
- Treat a single character as two
- Treat two characters as one

Additional Functionality

- Record selection (OMIT or INCLUDE)
- Record formatting for output records
- Conditional keys and data for multiple record configuration

Commands to Micro/R SX SORT/MERGE may be issued interactively via the standard command line interface or through the specification file created by the user. Micro/R SX SORT/MERGE routines are used directly by Micro/R SX COBOL-81 via the COBOL SORT and MERGE statements.

Micro/R SX SORT/MERGE includes a package of callable subroutines which allow many other Micro/R SX languages to execute a sort or merge. These subroutines accept either records one at a time from the host program or file specifications for input. The output may be either records one at a time or a complete file, regardless of the input mode.

This callable package also allows the user to specify several user-written routines that will be used instead of the predefined Micro/R SX SORT/MERGE routines. These routines include an equal-key callback, to be invoked whenever two keys are found to be equal, a user-defined key comparison algorithm, a user-defined warning routine to be invoked when non-fatal errors occur, and a user-defined input routine for the merge record interface.

HARDWARE REQUIREMENTS

A valid Micro/R SX system configuration with at least 900 free blocks. This must include space for two contiguous areas of 380 and 370 blocks.

SOFTWARE REQUIREMENTS

Micro/R SX Operating System (Base Kit)

Refer to the Micro/R SX Optional Software Cross Reference Table (SPD 20.95.xx) or VAX CoProcessor/R SX System Support Addendum (SSA 29.79.01-x) for the required version.

GROWTH CONSIDERATIONS

The minimum hardware/software requirements for any future version of this product may be different from the minimum requirements of the current

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The distribution Media Codes used in the Software Options Chart are described below. You specify the desired Media Code at the end of the Order Number, e.g., QY812-H3 = binaries on RX50 Floppy Diskette.

- 3 = RX50 Floppy Diskette
- 5 = TK50 Tape Cartridge
- Z = No Hardware Dependency

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