

Fujitsu Software BS2000 CRTE-BAS

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Version 1.9B
June 2017

Release Notice

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1 General

This Release Notice is a summary of the major extensions, requirements and operating information with regard to the following technical delivery unit:

- *7 BS2GA.CRTE-BAS as of V9.0B40 for BS2000/OSD-BC as of V9.0.
- *4 The technical delivery units contain the components CRTE-BASYS V1.9B,
*4 CRTE-MSG V1.9B and POSIX-HEADER V1.9B.
- *8 The release level is that of June 2017.
- *8 Changes to release level June 2016 are marked with "*8".
- *7 Changes to release level November 2015 are marked with "*7".
- *6 Changes to release level May 2015 are marked with "*6".
- *5 Changes to release level December 2014 are marked with "*5".
- *4 Changes to release level December 2013 are marked with "*4".
- *3 Changes to release level June 2013 are marked with "*3".
- *2 Changes to release level December 2012 are marked with "*2".
- *1 Changes to release level June 2012 are marked with "*1".

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 be noted.

1.1 Ordering

- *4 CRTE-BAS V1.9B is included in BS2000/OSD-BC V9.0 and OSD/XC V9.0.

1.2 Delivery

- *4 The CRTE-BAS V1.9B files are supplied via SOLIS.

The following delivery components are required, regardless of the hardware type (HSI):

| | |
|---|--|
| SINLIB.POSIX-HEADER.019 | Library for installation in POSIX |
| SINPRC.POSIX-HEADER.019 | Library with installation procedures |
| SYSLIB.POSIX-HEADER.019 | Header for C applications in POSIX |
| SYSLNK.CRTE-BASYS.019 SYSLNK.CRTE-BASYS.019.ASSRTS SYSLNK.CRTE-BASYS.019.CLIB | Libraries with C and assembler runtime system for BS2000 internal programs |
| SYSLNK.CRTE-BASYS.019.ILCS | ILCS module library |
| SYSLNK.CRTE-BASYS.019.PTH SYSLNK.CRTE-BASYS.019.PTH-LOAD | Libraries for PThreads |

| | |
|--|--|
| SYSMES.CRTE-MSG.019 | Message file for C, COBOL and assembler runtime system |
| SYSSII.CRTE-BASYS.019 | IMON information files |
| SYSSII.CRTE-MSG.019 SYSSII.POSIX-HEADER.019 | for CRTE-BASYS, CRTE-MSG and POSIX-HEADER |
| SYSSSC.CRTE-BASYS.019 SYSSSC.CRTE-BASYS.019.LOW | Subsystem declarations (CRTEBASY) |
| SYSSSC.CRTE-BASYS.019.PTH SYSSSC.CRTE-BASYS.019.PTH.LOW | Subsystem declarations (CRTEPTH) |

*8 The following delivery components are only required on SQ Servers and on each
*8 x86 server unit in SE Servers:

| | |
|---|--|
| SKULNK.CRTE-BASYS.019 SKULNK.CRTE-BASYS.019.ASSRTS | Libraries with C and assembler runtime system for BS2000 internal programs (X86) |
| SKULNK.CRTE-BASYS.019.PTH SKULNK.CRTE-BASYS.019.PTH-LOAD | Libraries for PThreads (X86) |
| SKUSSC.CRTE-BASYS.019 | Subsystem declarations (CRTEBASK) |
| SKUSSC.CRTE-BASYS.019.PTH | Subsystem declarations (CRTEPTK) |

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

1.3 Documentation

*4 The manuals of CRTE and C Library Functions are recommended for use the header files supplied with CRTE-BAS V1.9B:

CRTE V2.9A Common Runtime Environment
Benutzerhandbuch

CRTE V2.9A Common Runtime Environment
User Guide

*6 C-Bibliotheksfunktionen für POSIX-Anwendungen
*6 Referenzhandbuch
*6 Ausgabe November 2015

*6 C Library Functions for POSIX Applications
*6 Reference Manual
*6 Edition November 2015

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

The documentation is also available in the form of online manuals 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 file names are made up as follows:

SYSRME.<product>.<version>.E (file with English text)

SYSRME.<product>.<version>.D (file with German text)

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The README files are available on the SoftBooks-DVD or online under

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<http://manuals.ts.fujitsu.com>.

2 Software extensions

*4 CRTE-BAS V1.9B is a software requirement for CRTE V2.9B.

The bugs fixed in CRTE-BAS V1.9B are listed in the delivery cover letter.

3 Technical information

3.1 Resource requirements

- *8 The files supplied with the technical delivery unit CRTE-BAS occupy approx. 9,000 PAM pages and additional
- *7 approx. 12,800 PAM pages
- *8 are required on SQ Servers and on each x86 server unit in SE Servers.
- *4 Installation of POSIX-HEADER V1.9B and CRTE V2.9B in POSIX takes
- *4 up around 6 MB in the root file system.

The following space is required in class 4 memory for loading the subsystems:

| | | |
|----|----------|--------------------------------|
| *8 | CRTEBASK | 5968 KB (only for X86 systems) |
| *8 | CRTEBASY | 2642 KB |
| *8 | CRTEPTH | 2692 KB |
| *8 | CRTEPTK | 6067 KB (only for X86 systems) |

All subsystems are loaded by default into the class 4 memory above 16 MB.

3.2 Software configuration

- *4 CRTE-BAS V1.9B is included in BS2000/OSD-BC V9.0 and in OSD/XC V9.0.

3.3 Product installation

Installation of the technical delivery unit CRTE-BAS with the installation monitor IMON is mandatory. The information concerning installation in the delivery cover letter and in the product documentation must be followed as well as the information in this Release Notice.

The necessary inputs and the sequence of the installation are described in the IMON documentation.

The standard installation of POSIX-HEADER in the POSIX file system is made either directly with IMON or with the POSIX installation tool after installation with IMON.

The following additional installation forms are also described in the CRTE V2.9A manual:

- Installation to a non-standard ID
- Private installation
- Installing the header files and link switches in any desired POSIX directory

- *4 The CRTEBASY subsystem and possibly CRTEBASK as well as CRTEPTH and possibly CRTEPTK from the CRTE-BASYS V1.9B delivery unit, are provided as the runtime environment for BS2000 internal programs. The subsystems should only be preloaded if this is recommended in the Release Notice of another installed product.

The subsystems are loaded into upper class 4 memory by default. As an alternative, the subsystems can also be loaded into class 4 memory below 16 MB using the supplied subsystem declaration files (with the extension LOW), if enough space is available there.

In addition, IMON copies the IC@RTSXS, IC@STLNK and IC@ULINK modules from the SYSLNK.CRTE-BASYS.019.CLIB library into the CLIB. If the \$.CLIB file does not exist in the original system, it is created by IMON. This \$.CLIB can be used for programs that were compiled with C V2.0 or earlier.

The compatibility library SYSLNK.ILCS is also installed with CRTE-BASYS.

3.3.1 Important information regarding upgrades

*4 CRTE-BAS V1.9B is the subsequent version of CRTE-BAS V1.9A.

Upgrading from previous POSIX-HEADER versions:

If the version of a product already installed in POSIX (POSIX-HEADER) changes (e.g. from 018 to 019), the old product version should be deinstalled ('Delete packages from POSIX' function of the POSIX installation program) before the new product version is installed in POSIX. This deinstallation can only be made using procedures from the old product files (e.g. SIN-LIB.<product>.<oldvers>). The old product files can then be deleted and the new product version installed in POSIX. See also the CRTE V2.9A User Guide for more information on this.

Upgrading from previous CRTE-BASYS versions:

*4 Any preloaded CRTEBASY or CRTEBASK subsystems from a previous version as well as CRTEPTH or CRTEPTK of a previous version or the product CRTE of a previous version may not be accessed while or after installing CRTE-BAS V1.9B. They should be stopped before CRTE-BAS V1.9B is installed, and either replaced by the new version of the subsystem concerned (in the case of a standard installation, IMON automatically generates the appropriate entries in the subsystem catalog) or removed from the subsystem catalog.

3.4 Product use

*4 The CRTE V2.9A User Guide contains information on using the product POSIX-HEADER V1.9.

3.5 Discontinued functions (and those to be discontinued)

The following functions are no longer supported as of this version:

none

The following functions are supported for the last time in this version:

none

3.6 Incompatibilities

none

3.7 Restrictions

none

3.8 Procedure in the event of errors

If an error occurs, the following error documents are needed for diagnostics:

- a detailed description of the error condition
- indication as to whether and how the error can be reproduced
- options, source and error listing including expansion of the COPY and INCLUDE elements (LISTING option)
- execution log
- source including the COPY and INCLUDE elements and COSSD if required
- linker listing
- input/output files
- expected result
- brief description of execution
- product version number
- Rep files used
- CONSLOG (in special cases)
- DUMP, if available
- subsystems used

4 Hardware requirements

*7 CRTE-BAS V1.9B will run on all business servers supported by

- BS2000/OSD-BC as of V9.0 and
- OSD/XC as of V9.0

5 Firmware versions

Not applicable