

Fujitsu Software BS2000 CRTE-BAS

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\*4

Version 10.0B  
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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:

- \*4 BS2GA.CRTE-BAS as of V10.0B01 for OSD/BC as of V10.0.
- \*4 The technical delivery units contain the components CRTE-BASYS V10.0B,  
\*4 CRTE-MSG V10.0B and POSIX-HEADER V10.0B.
- \*4 The release level is that of June 2018.
- \*4 Changes to release level June 201617 are marked with “\*4”.
- \*3 Changes to release level June 201616 are marked with “\*3”.
- \*2 Changes to release level November 2015 are marked with “\*2”.
- \*1 Changes to release level April 2015 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 V10.0B is included in OSD/BC V10.0 and OSD/XC V10.0.

## 1.2 Delivery

- \*4 The CRTE-BAS V10.0B files are supplied via SOLIS.

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

SINLIB.POSIX-HEADER.100	Library for installation in POSIX
SINPRC.POSIX-HEADER.100	Library with installation procedures
SYSLIB.POSIX-HEADER.100	Header for C applications in POSIX
SYSLNK.CRTE-BASYS.100 SYSLNK.CRTE-BASYS.100.ASSRTS SYSLNK.CRTE-BASYS.100.CLIB	Libraries with C and assembler runtime system for BS2000 internal programs
SYSLNK.CRTE-BASYS.100.ILCS	ILCS module library
SYSLNK.CRTE-BASYS.100.PTH SYSLNK.CRTE-BASYS.100.PTH-LOAD	Libraries for PThreads
SYSTEMS.CRTE-MSG.100	Message file for C, COBOL and assembler runtime system
SYSSII.CRTE-BASYS.100 SYSSII.CRTE-MSG.100 SYSSII.POSIX-HEADER.100	IMON information files for CRTE-BASYS, CRTE-MSG and POSIX-HEADER

SYSSSC.CRTE-BASYS.100 Subsystem declarations (CRTEBASY)  
 SYSSSC.CRTE-BASYS.100.LOW

SYSSSC.CRTE-BASYS.100.PTH Subsystem declarations (CRTEPTH)  
 SYSSSC.CRTE-BASYS.100.PTH.LOW

\*3 The following delivery components are only required on SQ servers and on each  
 \*3 x86 server unit in SE Servers:

SKULNK.CRTE-BASYS.100 Libraries with C and assembler runtime  
 SKULNK.CRTE-BASYS.100.ASSRTS system for BS2000 internal programs  
 (X86)

SKULNK.CRTE-BASYS.100.PTH Libraries for PThreads (X86)  
 SKULNK.CRTE-BASYS.100.PTH-LOAD

SKUSSC.CRTE-BASYS.100 Subsystem declarations (CRTEBASK)

SKUSSC.CRTE-BASYS.100.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  
 \*4 header files supplied with CRTE-BAS V10.0B:

\*4 CRTE V10.0B Common Runtime Environment  
 Benutzerhandbuch

\*4 CRTE V10.0B Common Runtime Environment  
 User Guide

\*1 C-Bibliotheksfunktionen für POSIX-Anwendungen  
 \*1 Referenzhandbuch  
 \*4 Ausgabe Juni 2018

\*1 C Library Functions for POSIX Applications  
 \*1 Reference Manual  
 \*4 Edition June 2018

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 file names are made up as follows:

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

The README files are available on the SoftBooks-DVD or online under <http://manuals.ts.fujitsu.com>.

## **2 Software extensions**

\*4 CRTE-BAS V10.0B is a software requirement for CRTE V10.0B.

\*4 The bugs fixed in CRTE-BAS V10.0B are listed in the delivery cover letter.

### **2.1 Default epoch for BS2000 time functions**

\*4 As of CRTE-BAS V10.0B, the BS2000 time functions use the 01.01.1970 00:00:00 by default as the reference date (epoch).

## 3 Technical information

### 3.1 Resource requirements

\*4 The files supplied with the technical delivery unit CRTE-BAS occupy approx. 9,700 PAM pages.

and additional  
 \*1 approx. 12,700 PAM pages  
 \*3 are required for SQ servers and for each x86 server unit in SE Servers.

\*4 Installation of POSIX-HEADER V10.0B and CRTE V10.0B in POSIX takes  
 \*4 up around 5 MB in the root file system.

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

*4	CRTEBASK	5972 KB (only for X86 systems)
*2	CRTEBASY	2659 KB
*2	CRTEPTH	2708 KB
*4	CRTEPTK	6071 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 V10.0B is included in OSD/BC V10.0 and in OSD/XC V10.0.

### 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.

\*4 The following additional installation forms are also described in the CRTE V10.0B 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 V10.0B 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.100.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

CRTE-BAS V10.0 is the subsequent version of CRTE-BAS V1.9.

Upgrading from previous POSIX-HEADER versions:

- \*4 If the version of a product already installed in POSIX (POSIX-HEADER) changes (e.g. from 018 to 100), 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. SINLIB.<product>.<oldvers>). The old product files can then be deleted and the new product version installed in POSIX. See also the CRTE V10.0B 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 V10.0B. They should be stopped before CRTE-BAS V10.0B 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 V10.0B User Guide contains information on using the product  
\*4 POSIX-HEADER V10.0B.

## 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

\*4 CRTE-BAS V10.0B will run on all business servers supported by

- OSD/BC as of V10.0 and
- OSD/XC as of V10.0

## **5 Firmware versions**

not applicable