

Datasheet

FUJITSU Software BS2000 CRTE V11.0

Common Run-Time environment for COBOL200, COBOL85 and C/C++

SHORT DESCRIPTION

The Common Run-Time Environment is a prerequisite software product for running source programs compiled with the COBOL2000, COBOL85 and C/C++ compilers. CRTE acts as the central interface between the objects generated by the compilers and the BS2000 OSD/BC operating system.



Topics

Product Characteristic

CRTE (Common Run-Time Environment) V11.0 is the common runtime system for all variants of the following compilers: COBOL2000 V1.0 or higher, COBOL85 V2.1 or higher, C and C++ V2.1 or higher, and C/C++ V3.0 or higher in BS2000 OSD/BC V11.0 or higher and in OSD/XC V11.0 or higher.

CRTE includes language-specific and language-neutral libraries, routines for program linkage, mathematics, standardized event and exception handling, as well as storage and I/O management. The header files of the C and C++ library functions are also part of CRTE. CRTE is a software requirement for COBOL85, COBOL2000, C and C++ applications produced using the aforementioned compiler versions, and for running the COBOL2000 (BS2000) compiler. CRTE is also a prerequisite for applications comprising a mix of different languages. CRTE V11.0 supports the COBOL85, COBOL2000, C and C++ compilers as well as the associated applications also in POSIX.

Most modules of the CRTE runtime system are shareable and can be preloaded as a subsystem.

CRTE is also included in the OSD/XC extended operating system package for computers of the SE series and SQ series. However, only the modules of the C/C++ runtime system are available, but not the COBOL-RTS.

Functional Description

CRTE includes built-in functions and routines for linking programs via the communication interface of the Inter-Language Communication Services (ILCS).

The standard C++ library conforming to the ANSI C++ Draft and the Tools.h++ © Rogue Wave library are also shipped with CRTE.

The standard C++ library includes a string class, container classes, iterators, generic algorithms, numeric classes and operations, as well as I/O classes.

The Tools.h++ © library contains universally usable "foundation classes". These include string classes with pattern-matching mechanisms, classes for handling date and time, virtual streams, container classes and internationalization classes.

Program Description

CRTE consists of the modules of the runtime systems for COBOL2000, COBOL85 and C/C++ and the language-neutral libraries. The header files of the C/C++ library functions are also part of CRTE.

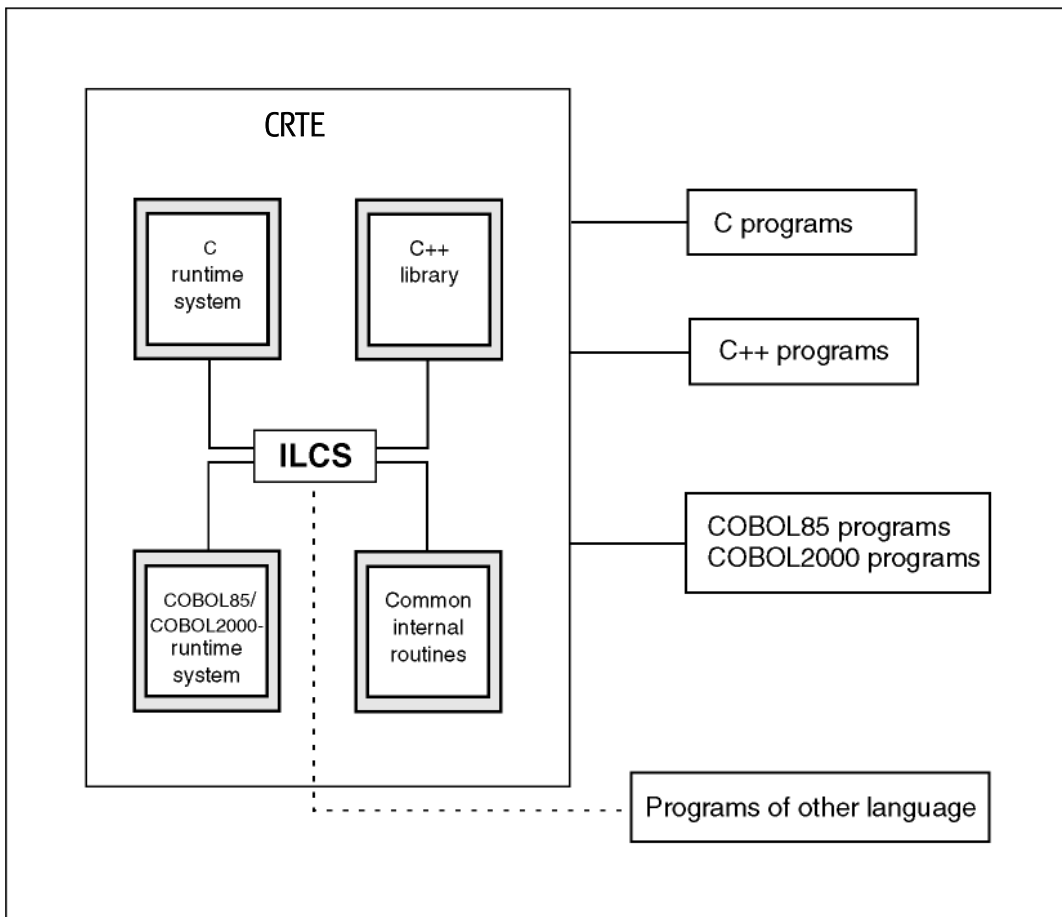
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The generated /390 format guarantees object compatibility for running BS2000 customer applications, even in the event of future architecture change.

Functional Extension

With CRTE V11.0 for the first time SAM-Node-Files are supported. CRTE V11.0 allows the creation and modification of SAM-Node-Files as normal text file.

Product overview:



Technical Details

Technical Requirements Hardware	BS2000 Business Server
Technical Requirements Software	BS2000 OSD/BC V11.0 or OSD/XC V11.0 BS2000 OSD/BC V11.0 with POSIX-BC is required in order to use the POSIX functionality. The POSIX subsystem must be installed and loaded. The POSIX-BC version released for the relevant BS2000 OSD/BC version is required for running POSIX applications produced with CRTE V11.0
Operating Mode	Batch and interactive dialog
Implementation Language	C/C++, SPL4 and Assembler
User Interface	Messages in English or German
Installation	Please refer to the relevant release notices.
Documentation	User guide for CRTE Reference manual for C library functions in BS2000 Reference manual for C library functions for POSIX applications Documentation available in English only: User's Guide and Reference for Standard C++ Library Functions (ANSI-C++ mode) User's Guide for Tools.h++ © Class Reference for Tools.h++ © Tools.h++ Copyright © Rogue Wave Software, Inc. The documentation is available as online manuals, see http://manuals.ts.fujitsu.com/mainframes.html , or in printed form which must be paid for and ordered separately at http://manuals.ts.fujitsu.com .
User Requirements	Knowledge of the C++, C, COBOL programming languages and BS2000
Training	See course offer at: http://globalsp.ts.fujitsu.com/dmsp/Publications/public/ca_bs2000-course_de.pdf (german only)
Conditions	This software product is supplied to the customer against a single payment or installments in accordance with our 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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- Server: PRIMERGY, PRIMEQUEST, Fujitsu SPARC M10, BS2000/OSD Mainframe
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- Peripherals: Fujitsu Displays, Accessories
- Software
- Network

Product Support Services with different service levels agreements are recommended to safeguard each product and ensure smooth IT operation.

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More information

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Business Services respond to the challenge of planning, delivering and operating IT in a complex and changing IT environment.

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