

Software Product Description

PRODUCT NAME: RPG II for CTS-500 and RSTS/E, Version 7.08

SPD 13.4.2

DESCRIPTION:

The RPG II compiler is an easy to use programming language. The RPG II compiler runs under the CTS-500 or RSTS/E operating system in a batch processing mode. It requires as input an ordered set of RPG II source specifications and generates as output a machine language object program. In addition, it optionally produces a source program listing, and/or error diagnostic messages.

To use RPG II, the user creates an exact, detailed description of the data to be processed. This input is supplied to the compiler in a manner that conforms to the format of the RPG II specification sheets. The specification sheets are:

RPG II Control and File Description Specification:

- Header Specification furnishes control information to the RPG II compiler
- File Description Specifications describe data files

RPG II Extension and Line Counter Specifications:

- Extension Specifications provide for detailed descriptions of arrays, record address files, and tables
- Line Counter Specification is used to define the number of lines that are available for printing on a form and to specify at which line overflow should occur

RPG II Input Specifications — furnish a description of input records and data fields in these records.

RPG II Calculation Specifications — define all of the operations to be performed in the user program.

RPG II Output Format Specifications — describe output records and the data fields in these records.

Included among the features of CTS-500 (RSTS/E) RPG II are:

- Complete file processing capabilities for sequential, direct, and indexed files.
- Complete access to RPG II files by BASIC-PLUS programs for creation and modification.
- Table and Array handling capabilities
- Full range of arithmetic operations including square root
- Ability to specify up to nine control level fields and/or matching fields for multiple input file processing
- Ability to perform input and output operations in the calculation section of the cycle

The following components constitute the RPG II Software Package:

- RPG II compiler and object time system
- SORT-11
- Utility programs for converting programs and data files from IBM System/3 to CTS-500 RPG II:
 1. File conversion utility which reads and translates a magnetic tape with source program files and data files written by an IBM System/3.
 2. RPG II source conversion utility which reads a source program, scans for specified incompatible statements and converts them if possible or flags them for conversion by the programmer.
 3. Interactive RPG II/SORT-11 source statement editor.

MINIMUM HARDWARE REQUIRED:

Any valid CTS-500 or RSTS/E disk-based configuration with at least 192K bytes of memory that includes a job swapping area size of at least 40K bytes.

OPTIONAL HARDWARE:

Supports any mass storage, unit record or terminal device supported by the prerequisite software.

PREREQUISITE SOFTWARE:

CTS-500 operating system, Version 4 or later; or RSTS/E operating system, Version 6C or later

OPTIONAL SOFTWARE SUPPORTED:

None

TRAINING CREDITS:

None

SUPPORT CATEGORY:

A — Software Support will be provided as stated in the Software Support Categories Addendum to this SPD.

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D = 9-track Magnetic Tape
 E = RK05 Disk Cartridge
 F = 7-track Magnetic Tape
 Q = RL01 Disk Cartridge
 T = RK06 Disk Cartridge
 V = RK07 Disk Cartridge
 Z = No hardware dependency

Standard Options

QP550 -A— Single-use license, binaries, documentation, support services (media: D, E, F, Q, T, V)
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ADDITIONAL SERVICES:

None

ADDENDUM
SOFTWARE SUPPORT CATEGORIES

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CATEGORY B

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CATEGORY C

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