

# Software Product Description

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**PRODUCT NAME: BASIC-11/IAS-RSX, Version 2**

**SPD 14.67.4**

## **DESCRIPTION:**

BASIC is a conversational programming language which uses simple English-like statements and familiar mathematical notation to describe a procedure. BASIC-11/IAS-RSX is an incremental, interactive, interpretive compiler operating under the IAS, RSX-11D, or RSX-11M operating systems.

BASIC-11/IAS-RSX features include:

- A variety of program manipulation commands including commands for saving, editing, running and retrieving BASIC programs.
- Support for real, integer, and string data types.
- Immediate mode statements for debugging and desk calculator use.
- Sequential data storage using the IAS and RSX-11 file system.
- String capability; including string arrays and functions.
- Virtual arrays for string, integer, and real data types.
- Chaining with COMMON to accommodate large programs.
- CALL facility for invoking assembly language subroutines using a PDP-11 FORTRAN compatible calling interface.
- Formatted output using the PRINT USING statement.
- Multiple users can share the BASIC interpreter's pure code.

## **MINIMUM HARDWARE REQUIRED:**

Any valid IAS, RSX-11D, or RSX-11M operating system configuration that meets the following requirements:

*One of the following is required for installation:*

- RK05 disk cartridge drive
- RL01 disk Cartridge drive
- TU10 magnetic tape drive (7- or 9-track)
- TS03 magnetic tape drive
- TU16 magnetic tape drive
- RK06 disk Cartridge Drive
- RK07 disk Cartridge Drive

## *Auxiliary Storage:*

Requires up to 75 contiguous disk blocks on a mass storage device for the interpreter and STOP task images.

## *Main Memory:*

- IAS and RSX-11D:
  1. A 30K-byte minimum partition area for the first user.
  2. 10K-byte minimum partition area for each additional user.
- RSX-11M:
  1. Unmapped systems (memory management option not included in the configuration)—a 30K-byte minimum partition (supports one user, BASIC-11 is overlaid)
  2. Mapped Systems (memory management option is included in the configuration)—one of the following:
    - For systems in which the interpreter code is not installed as shared code — a 30K-byte minimum partition area for each user
    - For systems in which the interpreter code is installed as shared code — one 30K-byte minimum common partition area (shared by all users), with a 10K-byte minimum partition area for each user

## *Additional Hardware:*

KT11 memory management is required for RSX-11M (mapped system) to support two or more concurrent users.

## **OPTIONAL HARDWARE:**

None

## **PREREQUISITE SOFTWARE:**

One of the following operating systems:

- IAS, Version 1.1 or later
- RSX-11D, Version 6B or later
- RSX-11M, Version 2.0 or later

## **OPTIONAL SOFTWARE:**

None

## **TRAINING CREDITS:**

None

## **SUPPORT CATEGORY:**

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

-2-

**UPDATE POLICY:**

Software Updates, if any, released by DIGITAL during the one (1) year period following installation, will be provided to the customer for a media charge (includes no installation). After the first year, updates, if any, will be made available according to then prevailing DIGITAL policies.

**ORDERING INFORMATION:**

All binary licensed software, including any subsequent updates, is furnished under the licensing provisions of DIGITAL's Standard Terms and Conditions of Sale, which provide in part that the software and any part thereof may be used on only the single CPU on which the software is first installed, and may be copied, in whole or in part (with the proper inclusion of the DIGITAL copyright notice and any DIGITAL proprietary notices on the software) only for use on such CPU. All source licensed software is furnished only under the terms and conditions of a separate Software Program Sources Agreement between Purchaser and DIGITAL.

Standard options with no support services are only available after the purchase of one supported license. When a software license is ordered without support services, the category of support applicable to such software is Category C.

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The following key (D, E, F, Q, T, V, Z) represents the distribution media for the product and must be specified at the end of the order number, e.g., QP240-AD = binaries on 9-track magnetic tape..

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*

QP240 -A— Single-use license, binaries, documentation, support services (media: D, E, F, Q, T, V)  
 QP240 -C— Single-use license, binaries, documentation, no support services (media: D, E, F, Q, T, V)  
 QP240 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

*Update Options*

Users of BASIC-11/IAS-RSX whose specified Support Category warranty has not expired may order under license the following software update for the then current media charge. The update is distributed in source or binary form on the appropriate medium and includes no installation or other services unless specifically stated otherwise.

QP240 -W— Binaries, documentation (media: D)

*Miscellaneous*

QP240 -G— Pre-delivery kit (media: Z)

**ADDITIONAL SERVICES:**

None

**ADDENDUM  
SOFTWARE SUPPORT CATEGORIES**

Each software product (hereinafter 'SOFTWARE') with a designated Support Category A or B in the applicable Software Product Description (SPD) existing at the time of order will be the current release at the time of delivery and will conform to the SPD. DIGITAL's sole obligation shall be to correct defects (nonconformance of the SOFTWARE to the SPD) as described below. Any SOFTWARE with a designated Support Category C will be furnished on an 'as is' basis.

For SOFTWARE with a designated Support Category A or B, DIGITAL will provide the services set forth below without additional charge.

**CATEGORY A**

1. Upon notification by customer to the nearest DIGITAL office that the computer system, including all required prerequisite hardware and software, is ready for the installation of the SOFTWARE, DIGITAL will install such SOFTWARE in any location within the contiguous forty-eight (48) United States, the District of Columbia, or a country in which DIGITAL or a subsidiary of DIGITAL has a software service facility. The notification must be received by DIGITAL and the system must be ready for installation within thirty (30) days after the delivery of the SOFTWARE to customer or DIGITAL will have no obligation to install. Installation will consist of: (1) verification that all components of the SOFTWARE have been received by customer, (2) loading the SOFTWARE, and (3) executing a DIGITAL sample procedure.
2. During the ninety (90) day period after installation, if the customer encounters a problem with the current unaltered release of the SOFTWARE which DIGITAL determines to be a defect in the SOFTWARE, DIGITAL will provide the following remedial service (on site where necessary): (1) if the SOFTWARE is inoperable, apply a temporary correction (TC) or make a reasonable attempt to develop an emergency by-pass, and (2) assist the customer to prepare a Software Performance Report (SPR) and submit it to DIGITAL.
3. During the one (1) year period following installation, if the customer encounters a problem with the SOFTWARE which his diagnosis indicates is caused by a SOFTWARE defect, the customer may submit an SPR to DIGITAL. DIGITAL will respond to problems reported in SPRs which are caused by defects in the current unaltered release of the SOFTWARE via the Maintenance Periodical for the SOFTWARE, which reports SPRs received, code corrections, temporary corrections, generally useful emergency by-passes and/or notice of the availability of corrected code. Software Updates, if any, released by DIGITAL during the one (1) year period, will be provided to the customer on DIGITAL's standard distribution media as specified in the applicable SPD. The customer will be charged only for the media on which such updates are provided, unless otherwise stated in the applicable SPD, at DIGITAL's then current media prices.

**CATEGORY B**

During the one (1) year period following delivery, the services provided to the customer will be the same as set forth in 3 above.

**CATEGORY C**

SOFTWARE is provided on an 'as is' basis. Any software services, if available, will be provided at the then current charges.

DIGITAL shall have the right to make additional charges for any additional effort required to provide services resulting from customer use of other than current unaltered release of the SOFTWARE operated in accordance with the SPD.