

# digital

# Software Product Description

PRODUCT NAME: **BASIC-11/IAS-RSX, Version 2.0**

SPD 14.67.7

## DESCRIPTION:

BASIC is a conversational programming language that uses simple English language-like statements and familiar mathematical notations to describe a procedure. BASIC-11/IAS-RSX is an incremental, interactive, interpretive compiler operating under the IAS, RSX-11M, or RSX-11M-PLUS Operating System.

### *BASIC-11/IAS-RSX Features*

- 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 sub-routines using a PDP-11 FORTRAN compatible calling interface
- Formatted output using the PRINT USING statement
- BASIC interpreter's pure code shareable by multiple users

### MINIMUM HARDWARE REQUIRED:

Any valid IAS, RSX-11M, or RSX-11M-PLUS Operating System configuration that meets the following requirements.

One of the following is required for installation:

- RK05 Disk Cartridge Drive
- RL01 Disk Cartridge Drive
- RL02 Disk Cartridge Drive
- 800 or 1600 BPI Magnetic Tape Drive
- RK06 Disk Cartridge Drive
- RK07 Disk Cartridge Drive
- TS11 Magnetic Tape 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:
  - A 30K byte minimum partition area for the first user.
  - 16K byte minimum partition area for each additional user.
- RSX-11M and RSX-11M-PLUS:
  - Unmapped systems (memory management option not included in the configuration) — A 46K byte minimum partition (supports one user, BASIC-11 is overlaid). Unmapped systems are supported only by RSX-11M.
  - 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 46K 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 16K 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 3.0
- RSX-11M, Version 3.2
- RSX-11M-PLUS, Version 1.0

### OPTIONAL SOFTWARE:

None

### TRAINING CREDITS:

None

**SUPPORT CATEGORY:**

DIGITAL SUPPORTED

BASIC-11/IAS-RSX is a DIGITAL Supported Software Product.

**SOFTWARE INSTALLATION:**

CUSTOMER INSTALLED

BASIC-11/IAS-RSX is a software product engineered to be installed by the customer and includes other Software Product Support services listed below.

**SOFTWARE PRODUCT SUPPORT:**

BASIC-11/IAS-RSX includes standard warranty services as defined in the Software Support Categories Addendum of this SPD.

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The following key (D, E, H, M, 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 800 BPI Magtape (NRZI).

- D = 9-track 800 BPI Magtape (NRZI)
- E = RK05 Disk Cartridge
- H = RL02 Disk Cartridge
- M = 9-track 1600 BPI Magtape (PE)
- Q = RL01 Disk Cartridge
- T = RK06 Disk Cartridge
- V = RK07 Disk Cartridge
- Z = No hardware dependency

QP240 -A— Single-use license, binaries, documentation, support services (media: D, E, H, M, Q, T, V)

QP240 -C— Single-use license, binaries, documentation, no support services (media: D, E, H, M, 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 expired may order under license the following software update at the then current charge. The update is distributed in binary form on the appropriate medium and includes no installation or other services unless specifically stated.

QP240 -H— Binaries, documentation (media: D, E, H, Q, T, V)

QP240 -H— Right to copy for single-use (under existing license), no binaries, no documentation (media: Z)

*Miscellaneous Options*

QP240 -G— Documentation only kit(media: Z)

**ADDITIONAL SERVICES:**

Post-warranty Software Product Services for this software product are available with the prerequisite being the purchase of the IAS, RSX-11M, or RSX-11M-PLUS Self-Maintenance Service for Software. Customers should contact their local DIGITAL office for additional information.