



Software Product Description

**PRODUCT NAME: RT-11/FORTRAN Upgrade Package for MINC-11,
Version 1**

SPD 15.49.0

DESCRIPTION:

The RT-11/FORTRAN Upgrade Package for MINC-11 is a complete FORTRAN software package.

It consists of three standard software kits:

- RT-11, Single-User Operating System, Version 03B
- FORTRAN-IV, Version 2.1
- FEP-11, FORTRAN Enhancement Package, Version 1

The FEP-11 kit consists of six components:

1. (SSP-11) Scientific Subroutine Package
2. (LSP-11) Laboratory Subroutine Package
3. (FDT) FORTRAN Debugging Technique
4. (PLOT 55) Video graphics control subroutine
5. IBV11-A support library for the control of IEEE-488 bus instruments
6. Real-Time control library for MNC-series modules (REAL-11/MNC)

MINIMUM HARDWARE REQUIRED:

MNC11-B or MNC11-C

The MNC11-B or MNC11-C represents the total minimum configuration that is a prerequisite for the RT-11 FORTRAN package.

OPTIONAL HARDWARE:

- 60K Bytes
- Any disks supported by RT-11, Version 03B
- Any line printer supported by RT-11 Version 03B or MINC/BASIC

Terminals

- Any terminal type supported by RT-11 Version 03B or MINC/BASIC

Communication Device

- Any Q-Bus devices supported by RT-11 Version 03B

MODULE	DESCRIPTION	MAXIMUM NUMBER
MNCKW	programmable real-time clock	2
MNCAD	A/D Converter	4
MNCAM	dual multiplexer	7 per MNCAD
MNCAG	preamplifier	2 per MNCAM 1 per MNCAD
MNCAA	D/A converter	8
MNCDI	digital input	8
MNCDO	digital output	8

NOTE:

The maximum number of MNC-series modules in use at any one time is eight.

Miscellaneous:

Seven additional IBV11-A options (subject to slot availability)

PREREQUISITE SOFTWARE:

MINC/BASIC, Version 1 (for support of the LA35 line printer)

OPTIONAL SOFTWARE:

Any software which utilizes the RT-11 Version 03B Operating System.

TRAINING CREDITS:

None

SUPPORT CATEGORY:

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

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

The following option is available as an upgrade kit from MINC/BASIC Version 1, etc.

QJV32 AX Single-use license, binaries, documentation, support service

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.