digital
Software Product Description

PRODUCT NAME: FORTRAN 40, Version 5A

DESCRIPTION:
FORTRAN 40 is a single pass, timesharing FORTRAN compiler for a superset of American National Standard FORTRAN X3.9-1966. The compiler runs in less than 13K of user core.

Some extensions to ANS-66 FORTRAN include:

I/O Statements
- NAMELIST
- ENCODE/DECODE
- Random Access
- OPEN

Specification Statements
- IMPLICIT

Executable Statements
- two branch logical IF

Operators
- EQV, XOR

The FORTRAN 40 compiler should be used for simple FORTRAN programs when the user is particularly concerned with compilation core use.

FORTRAN 40 uses the FOROTS object time system through a compatibility interface. This compatibility interface also provides an extensive mathematical library. The listing format gives the potential of interspersing the source code with a mnemonic listing of the generated code. Error messages are in the form of a number which can be correlated with English text in the manual. A relocatable file (if requested) is generated despite errors.

MINIMUM HARDWARE REQUIRED:
Any valid DECsystem-10 configuration

OPTIONAL HARDWARE:
None

PREREQUISITE SOFTWARE:
TOPS-10 Operating System, Version 6.01, or later

OPTIONAL SOFTWARE:
None

TRAINING CREDITS:
None

UPDATE POLICY
No updates are planned for this product.

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SUPPORT CATEGORY:
C — Software Support will be provided as stated in the Software Support Categories Addendum to this SPD.

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.

The following key (F, M, P) represents the distribution media for the product and must be specified at the end of the order number, e.g., QH501-XM = binaries on 9-track magnetic tape.

F = 7-track Magnetic Tape
M = 1600 bpi 9-track Magnetic Tape
P = 800 bpi 9-track Magnetic Tape

Standard Options

QH501 -X— Single-use license, binaries and sources, documentation, no support services (media:F, M, P)

QH501 -U— Armed services procurement regulation license, binaries and sources, documentation, no support services (media: F, M, P)

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.