

digital

Software Product Description

PRODUCT NAME: FORTRAN IV/VAX to RSX, Version 2, Cross Compiler

SPD 25.17.0

DESCRIPTION:

FORTRAN IV/VAX to RSX is an extended implementation of FORTRAN based on ANS FORTRAN, X3.9-1966. The FORTRAN IV compiler operates under the VAX/VMS operating system to produce code for the RSX-11M operating system. The FORTRAN IV/VAX to RSX language includes the following extensions to the ANSI standard:

- general expressions allowed in DO loop parameters and subscripts
- mixed-mode arithmetic
- ENCODE and DECODE statements
- PRINT, TYPE, and ACCEPT input/output statements
- direct-access unformatted input/output DEFINE FILE statement
- comments allowed at the end of each source line
- PROGRAM statement
- FORTRAN IV-PLUS compatible language extensions (e.g., OPEN, CLOSE, list directed I/O)

RSX-11M systems supporting the memory management directives provide support for multiple memory-resident virtual arrays. Each array can have up to 32,767 elements.

The FORTRAN IV compiler system is designed to minimize the size of executable programs it produces. The resulting program is completely functional in the minimum task partition area of 8K words of memory.

FORTRAN IV/VAX to RSX compiled optimizations include:

- optimization of arithmetic and logical IF statements
- common subexpression elimination
- optional in-line integer code generation
- additional optimization algorithms

Object Time System

The FORTRAN IV/VAX to RSX Object Time System (OTS) is a set of object modules selectively linked with the user's compiler-produced object modules to produce a task image ready for execution. The OTS is reentrant and most of the OTS can be made into a shared library for concurrent use by multiple tasks.

MINIMUM HARDWARE REQUIRED:

Any valid VAX/VMS configuration

OPTIONAL HARDWARE:

None

PREREQUISITE SOFTWARE:

VAX/VMS, Version 1.0 or later

OPTIONAL SOFTWARE:

None

TRAINING CREDITS:

None

SUPPORT CATEGORY:

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

UPDATE POLICY:

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Standard Options

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ADDITIONAL SERVICES:

None

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

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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.
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CATEGORY B

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CATEGORY C

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