

Software Product Description

PRODUCT NAME: PDP-11 COBOL, Version 3.1

SPD 12.40.9

DESCRIPTION:

COBOL is a precise, well-defined language for business data processing. PDP-11 COBOL conforms to the specifications published by the American National Standards Institute (ANSI) in the document "American National Standard COBOL," X3.23-1974. PDP-11 COBOL operates under control of the RSX-11M, RSTS/E, CTS-500, or IAS operating systems.

PDP-11 COBOL is properly defined as a subset of full ANS COBOL and meets the ANS-74 low-level specifications with the following additions (+) and omissions (-):

- + Full Level 2 Nucleus Module
- + Full Level 2 Table Handling Module
- + Full Level 2 Sequential I/O Module
- + Full Level 2 Relative I/O Module
- + Full Level 2 Indexed I/O Module
- + Full Level 2 Segmentation Module
- + Full Level 1 Library Module, with partial Level 2 REPLACING facility
- + Full Level 1 Interprogram Communication Module
- + Cross Reference Compilation Listing
- + DISPLAY with NO ADVANCING
- RERUN option in I/O-CONTROL paragraph not implemented

The PDP-11 COBOL product includes:

- COBOL compiler and run-time system
- COBRG report program generation utility
- RFRMT source program reformat utility
- CBLMRG COBOL ODL merge utility

MINIMUM HARDWARE REQUIRED:

One of the following operating system configurations:

- Any valid IAS operating system configuration.
- Any valid RSX-11M operating system configuration that includes the extended instruction set and a system total of at least 128K bytes of memory. If the system device is an RK05 disk, one additional RK05 disk drive beyond the system minimum configuration is required. This is a total of three RK05 disk drives on an RK05-only configuration.
- Any valid RSTS/E or CTS-500 operating system configuration that includes the extended instruction set and a system total of at least 128K bytes of memory. On dual RK05 configurations, one of the following is also required:

1. One TJU16 (TWU16 for 11/70) magnetic tape controller and TU16 transport
2. One TMA11 magnetic tape controller and TU10 or TS03 transport
3. One RX11 flexible diskette system (on CTS-500 systems only), or
4. One additional RK05 disk drive, for a system total of three RK05 drives

Any configuration must include the following:

- A user area of at least 48K bytes of memory.
- At least 3000 free blocks of on-line disk storage on the public disk structure.
- An LP11 line printer.

OPTIONAL HARDWARE:

Supports any mass storage, unit record or terminal device supported by the prerequisite software with the following exception: DECtape.

PREREQUISITE SOFTWARE:

One of the following operating systems that includes RMS-11:

- RSTS/E, Version 6C or later
- CTS-500, Level 3A or 3B
- RSX-11M, Version 3 or later
- IAS, Version 2 or later

OPTIONAL SOFTWARE:

- RMS-11K for multikey ISAM support
- SORT-11, Version 2

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.

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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.

A single-use license only option is a license to copy the software previously obtained under license, and use such software in accordance with DIGITAL's Standard Terms and Conditions of Sale. The category of support applicable to such copied software is Category C.

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., QP011-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**For RSTS/E or CTS-500 Systems:*

- QP011 -A— Single-use license, binaries, documentation, support services (media: D, E, F, Q, T, V)
 QP011 -C— Single-use license, binaries, documentation, no support services (media: D, E, F, Q, T, V)
 QP011 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

For RSX-11M Systems:

- QP012 -A— Single-use license, binaries, documentation, support services (media: D, E, F, Q, T, V)
 QP012 -C— Single-use license, binaries, documentation, no support services (media: D, E, F, Q, T, V)
 QP012 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

For IAS Systems:

- QP013 -A— Single-use license, binaries, documentation, support services (media: D, E, F, T)
 QP013 -C— Single-use license, binaries, documentation, no support services (media: D, E, F, T)
 QP013 -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

Update Options

Users of PDP-11 COBOL, Version 3, whose specified Support Category warranty has expired may order the following software update at the then current charge for such update, for use under the existing license. Except where the medium is designated as Z, the update is distributed in source or binary form on the appropriate medium. A software update where the medium is designated as Z grants the user of PDP-11 COBOL, Version 3, the right to copy the previously ordered QP011-H, QP012-H, QP013-H, QP011-W, QP012-W, or QP013-W software update for use on an additional single CPU for which a PDP-11 COBOL license has been obtained. No installation or other services are included unless specifically stated otherwise.

For RSTS/E or CTS-500 Systems:

- QP011 -H— Binaries, documentation (media: D, E, F, T)
 QP011 -H— Right to copy for single use (under existing license), no binaries, no documentation, no support services (media: Z)

For RSX-11M or IAS Systems:

- QP012 -H— Binaries, documentation (media: D, E, F, T)
 QP012 -H— Right to copy for single use (under existing license), no binaries, no documentation, no support services (media: Z)

For IAS Systems:

- QP013 -H— Binaries, documentation (media: D, E, F, T)
 QP013 -H— Right to copy for single-use (under existing license), no binaries, no documentation, no support services (media: Z)

Users of PDP-11 COBOL, Version 3, 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.

For RSTS/E or CTS-500 Systems:

- QP011 -W— Binaries, documentation (media: D, E, F, T)

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*For RSX-11M Systems:*QP012 -W— Binaries, documentation (media: D, E,
F, T)*For IAS Systems:*QP013 -W— Binaries, documentation (media: D, E,
F, T)*Miscellaneous Options**For RSTS/E or CTS-500 Systems:*

QP011 -G— Pre-delivery kit (media: Z)

For RSX-11M Systems:

QP012 -G— Pre-delivery kit (media: Z)

For IAS Systems:

QP013 -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.