

# Software Product Description

DIGITAL CLASSIFIED SOFTWARE

PRODUCT NAME: PRO/Tool Kit DIBOL, Version 1.6

SPD 40.22.00

## DESCRIPTION:

PRO/Tool Kit DIBOL is a high level procedural language designed specifically for interactive business data processing. It runs on the Professional 350 computer as an optional software component to the PRO/Tool Kit.

The DIBOL program development process consists of compiling the DIBOL source program using the DIBOL-83 compiler, linking the object programs with external subroutines and library modules, and developing any required help or menu frames with the Frame Development Tool on the Professional 350. The application can then be executed and debugged on Professional 350 with hard disk.

PRO/Tool Kit DIBOL is based on the DIBOL Standards Organization's DIBOL-83 definition of the language. PRO/Tool Kit DIBOL is highly compatible with DIBOL-83 implementations on other operating systems, including RSTS/E, RSX-11M-PLUS, CTS-300 and VAX/VMS as well as Professional Host Tool Kit DIBOL which allows applications to be developed for the Professional 300 series computers on VAX, RSX-11M, and RSX-11M-PLUS systems. It also provides Professional Series 300 specific extensions while retaining the capabilities and advantages of DIBOL-83.

DIBOL provides efficient terminal handling and efficient access to the RMS-11 Record Management Services (RMS-11); RMS provides sequential, relative and multi-key indexed record access. Other facilities such as FMS, PRO/Sort, PRO/Graphics, and system Menu, Message and Help routines are available as external subroutine calls.

DIBOL-83 supports a set of language statements commonly referred to as structured constructs. These statements are designed to complement and facilitate desirable programming practices.

The DIBOL-83 compiler reads source modules and produces object modules and listings. The listings produced contain embedded diagnostics as well as optional symbol and label table information.

PRO/Tool Kit DIBOL includes a compiler, external subroutine libraries and the DIBOL Debugging Tech-

nique. The run-time library, which is required to execute programs written in DIBOL on the Professional and the run-time error message file are distributed as part of the P/OS operating system.

### *DIBOL-83 Language Description:*

A DIBOL program is separated into two major parts: a Data Division and a Procedure Division. The Data Division defines the data that is used by the program. The Procedure Division contains the executable statements.

The first element in most DIBOL statements is an English language verb that characterizes the action to be performed. The other elements of the statement are data names, references to statement labels, and/or expressions. DIBOL statements fall into the following categories:

*Compiler Directives* provide information about the program to the compiler.

*Compiler Declarations* provide information about the program structure to the compiler.

*Data Specification Statements* define the data used in the program.

*Data Manipulation Statements* perform conversions and value assignments.

*Control Statements* modify the order of statement execution.

*Intertask Communications Statements* allow communication between programs.

*Input/Output Statements* move data between memory and I/O devices.

### *Universal External Subroutine Library*

This library contains external subroutines which are available and perform the same functions on all DIBOL-83 implementations.

### *Operating System Specific Library*

This library contains external subroutines which are available and perform similar functions on one or more of the DIBOL-83 implementations.

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**MINIMUM HARDWARE REQUIRED:**

Professional 350 with RCD51 Hard disk and MSC11-CK memory option

500 free blocks required on the system hard disk

**OPTIONAL HARDWARE**

A LA12, LA120 or any member of the VT100 family of video terminals may be connected to the printer port through an optional console cable for the purpose of debugging programs and monitoring system activities.

**PREREQUISITE SOFTWARE:**

PRO/Tool Kit, Version 1.0

**OPTIONAL SOFTWARE**

None

**TRAINING CREDITS:**

None

**SOFTWARE INSTALLATION:**

**CUSTOMER INSTALLED**

PRO/Tool Kit DIBOL is a software product engineered to be installed by the customer.

**SUPPORT CATEGORY:**

**DIGITAL SUPPORTED**

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PRO/Tool Kit DIBOL is available only on RX50 Double Density 5 1/4" Diskette distribution media.

QBA15-A3 Single-use license, binaries, documentation, support services

*Miscellaneous Options*

QBA15-GZ Documentation-only kit

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