

# Software Product Description

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**PRODUCT NAME: IQL-10, IQL-20, Version 2, Interactive Query Language**

**SPD 8.23.2**

## **DESCRIPTION:**

IQL is an information retrieval and report writing system for the DECsystem-10 and DECSYSTEM-20. IQL reads one or more input data files, processes this data as specified by user-written, English-like "QUERY" statements, and produces reports or output data files. The user-written queries refer to data item names which are contained in "dictionaries" stored by IQL. The dictionaries describe the field layouts of the data files and specify printing information such as column headers and field editing.

IQL can be operated in either interactive or batch mode. In interactive mode, IQL operates under control of a terminal front-end module. The module provides facilities for:

- writing, storing, retrieving, and changing queries
- defining and interrogating dictionaries
- getting help
- accepting raw data input
- operating other IQL system modules
- displaying snapshot reports at the terminal

In batch mode, the IQL system provides powerful selection, report formatting, sorting, computation, summarization, and data file writing capabilities. Up to three input files can be read (expandable). The input files can be sequential or index sequential. They can contain fixed or variable length records, and one or more record types. The input files are queried in their original format. All standard data item types are permitted. Output files can either "mirror" the format of the primary input data file or assume a new format as specified by the query. In addition, user-exits are provided to allow incorporation of own-code modules.

An IQL selection statement can combine many conditional tests connected by "AND" or "OR" logical operators and clarified with up to 9 levels of parentheses. An IQL computational statement can include addition, subtraction, multiplication, and division with parentheses. Built-in summary statements for tally, total, and average calculation can be controlled by data item breaks.

IQL report formatting can be automatic, or the user can specify custom report formats. Data item placement in a report is specified by the user. Both multiple print lines per input data record and multiple input data records per print line are permitted. Special-

form reports such as mailing labels and checks can be produced easily. Up to nine multiple reports can be generated at one time (expandable).

## **MINIMUM HARDWARE REQUIRED:**

Any valid TOPS-10 or TOPS-20 operating system configuration with a minimum of 35K words user space.

## **OPTIONAL HARDWARE:**

Supports any mass storage, unit record, or terminal device supported by the prerequisite software.

## **PREREQUISITE SOFTWARE:**

*On the DECsystem-10*

TOPS-10 Operating System, Version 6.02 or later  
SORT-10, Version 3 or later

*On the DECSYSTEM-20*

TOPS-20 Operating System, Version 3 or later  
SORT-20, Version 3 or later

## **OPTIONAL SOFTWARE:**

None

## **TRAINING CREDITS:**

None

## **SUPPORT CATEGORY:**

B — 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

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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., QH040-AF = binaries on 7-track magnetic tape.

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

#### Standard Options

##### For DECsystem-10

QH040 -A— Single-use license, binaries, documentation, support services (media: F, M, P)

##### For DECSYSTEM-20

QT015 -A— Single-use license, binaries, documentation, support services (media: M)

#### Upgrade Options

The following option is available as an upgrade kit from IQL-10 and IQL-20, Version 2 to IQL-10 Extended, IQL-20 Extended, Version 2 for use on the same single CPU on which IQL-10 and IQL-20, Version 2 is licensed. The license previously granted for IQL-10 and IQL-20, Version 2 shall be extended to cover this upgrade.

QH046 -A— Single-use license, binaries, documentation, support services (media: F, M, P)

QT026 -A— Single-use license, binaries, documentation, support services (media: M)

#### ADDITIONAL SERVICES:

##### For DECsystem-10

QH040 -3— Maintenance Service (media: F, M, P)

##### For DECSYSTEM-20

QT015 -3— Maintenance Service (media: M)

### 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.