digital

Software Product Description

PRODUCT NAME: PDP-11 DATATRIEVE/VAX, Version 2.0　　　　　　　　**SPD 25.14.3**

DESCRIPTION:

PDP-11 DATATRIEVE/VAX is an interactive query, report generation, and data maintenance system that runs under VAX/VMS in compatibility mode. It is self-teaching and requires little previous computer experience for the user to take full advantage of its capabilities.

DATATRIEVE accesses data contained in files of sequential, indexed, or relative organization. DATATRIEVE provides facilities for selective data retrieval, sorting, formatting, updating, and report generation without the need for programming overhead.

Record and domain (file) definitions entered in DATATRIEVE are stored in Data Dictionaries shared by DATATRIEVE users. These Dictionaries can also be used to store frequently used sequences of commands to be recalled and processed later. Additional commands are provided to list the contents of the Data Dictionary, to delete entries, and to control access to individual entries in the Data Dictionary. A dictionary compression utility is also available to clean up the Data Dictionary index file.

DATATRIEVE enables the user to define domains that cross RMS file definitions and subset record definitions.

DATATRIEVE provides an Application Design Tool (ADT) to assist the novice user in creating domain and record definitions. The ADT uses an interactive dialogue technique to guide the user through the data definition process. It creates an indirect command file which is then processed to actually update the DATATRIEVE Data Dictionary.

The DATATRIEVE report writer provides easy-to-use commands to control the following report functions:

- Report name, date, and page numbering
- Page width and length specification
- Detail line specification
- Multiple control break specification with automatic totaling at any level
- Multiple report sections

DATATRIEVE report commands can be freely intermixed with other DATATRIEVE commands.

DATATRIEVE uses a set of English language-like commands for data retrieval, modification, and display. Prompting is automatic for both command and data entry. The major commands are as follows:

- HELP provides a summary of each DATATRIEVE command.

- READY identifies a domain for processing and controls the access mode to the appropriate file.

- FIND establishes a collection (subset) of records contained in either a domain or a previously established collection based on a Boolean expression.

- SORT reorders a collection of records in either the ascending or descending sequence of the contents of one or more fields in the records.

- PRINT prints one or more fields of one or more records. Output can optionally be directed to a line printer or disk file. Format control can be specified. A column header is generated automatically.

- SELECT identifies a single record in a collection for subsequent individual processing.

- MODIFY alters the values of one or more fields for either the selected record or all records in a collection. Replacement values are prompted for by name.

- STORE creates a new record. The value for each field contained in the record is prompted for by name.

- ERASE removes one or more records corresponding to the appropriate domain.

- FOR executes a subsequent command once for each record in record collection, providing a simple looping facility.

- EDIT invokes an editor which inserts, replaces, or deletes text from procedures defined in the Data Dictionary.

- DECLARE defines global and local variables to be used within a DATATRIEVE query.

- DEFINE provides a consistent mechanism for creating domain, record, procedure, table and view definitions in the Data Dictionary.

In addition to the simple data manipulation commands, a number of more complex commands are available for the advanced user. These commands, such as RE-PEAT, BEGIN-END, and IF-THEN-ELSE, can be used to combine two or more DATATRIEVE commands into a single compound command. These, in turn, may be stored in the Data Dictionary as procedures for invocation by less experienced users.

DATATRIEVE provides a full set of arithmetic operators (addition, subtraction, multiplication, division, and negation), a set of statistical operators (total, average, maximum, minimum, and count), and provides automatic conversion between data types used in the FORTRAN, COBOL, DIBOL, and BASIC-PLUS-2 languages.

An additional data type is provided that recognizes various date formats.

DATATRIEVE provides data encoding, decoding and input validation capabilities through tables stored in the Data Dictionary. The user can also check data validity by storing validation criteria in the record definition.

MINIMUM HARDWARE REQUIRED:

Any valid VAX/VMS Operating System configuration

OPTIONAL HARDWARE:

None

PREREQUISITE SOFTWARE:

VAX/VMS, Version 2.0

OPTIONAL SOFTWARE:

None

TRAINING CREDITS:

None

SUPPORT CATEGORY:

DIGITAL SUPPORTED

PDP-11 DATATRIEVE/VAX is a DIGITAL Supported Software Product.

SOFTWARE INSTALLATION:

CUSTOMER INSTALLED

PDP-11 DATATRIEVE/VAX is a software product engineered to be installed by the customer and includes other Software Product Support services listed below.

SOFTWARE PRODUCT SUPPORT:

PDP-11 DATATRIEVE/VAX includes standard warranty services as defined in the Software Support Categories Addendum of this SPD.

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Y = RX01 Floppy Diskette
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QE105   -A— Single-use license, binaries, documentation, support services (media: Y)

QE105   -D— Single-use license only, no binaries, no documentation, no support services (media: Z)

Update Options

Users of PDP-11 DATATRIEVE/VAX whose specified Support Category warranty has expired may order under license the following software update at the then current charge for such update. The update is distributed in binary form on the appropriate medium and includes no installation or other services unless specifically stated.

QE105   -H— Binaries, documentation (media: Y)

QE105   -H— Right to copy for single-use (under existing license), no binaries, no documentation (media: Z)

Miscellaneous Options

QE105   -G— Documentation only kit (media: Z)

ADDITIONAL SERVICES:

Post-warranty Software Product Services for this software product are available with the prerequisite being the purchase of the VAX/VMS Self-Maintenance Service for Software. Customers should contact their local DIGITAL office for additional information.