

DATATRIEVE-11(V1.1) IAS, RSX-11M, RSTS/E Installation Guide Order No. AA-H169A-TC



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This manual describes the procedures to install DATATRIEVE-11 on the following operating systems: IAS, RSX-11M, and RSTS/E.

DATATRIEVE-11(V1.1) IAS, RSX-11M, RSTS/E **Installation Guide**

Order No. AA-H169A-TC

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> DATATRIEVE-11 RSTS/E Installation Guide, Order No. AA-C745A-TC, published December 1977.

OPERATING SYSTEM AND VERSION:

IAS V2.0 RSX-11M V3.1 RSTS/E V6C

SOFTWARE VERSION:

PDP-11 DATATRIEVE-11 V1.1

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Preface

This manual is a guide to the installation of DATATRIEVE-11 on the following operating systems:

IAS V2.0

RSX-11M V3.1

RSTS/E V6C

This manual is written for the system manager who is responsible for performing the installation procedures.

The information in this manual is organized in the following manner:

Chapter 1 comments about the installation kit, describes how to physically mount the distribution media, and indicates errors that might occur during installation.

Chapter 2 describes how to install DATATRIEVE-11 on an IAS system.

Chapter 3 describes how to install DATATRIEVE-11 on an RSX-11M system.

Chapter 4 describes how to install DATATRIEVE-11 on an RSTS/E system.

Chapter 5 describes possible uses of the Data Dictionary Extend Program, extending DATATRIEVE-11 task space, and the Dictionary Compression Utility Program.

Appendix A contains the Acceptance Test Procedure.

Documentation Conventions

The following conventions are used throughout this manual to illustrate the DATATRIEVE installation procedures:

- **E** The symbol **E** represents the non-printing carriage return key.
- lower case Lower-case text indicates variable information that you supply; upper-case text indicates literal information that you enter as shown.
 - color Information that you type during the installation procedure is indicated in red.
 - $\hat{}$ The circumflex ($\hat{}$) represents a control character. That is, CTRL/Z is the same as $\hat{}Z$.

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Chapter 1 General Information

1.1 Installation Kit

You receive a kit containing all material necessary to install DATATRIEVE-11 on the computer at your site. Check the contents against your original order. If there are any discrepancies between what you ordered and what your received, report the discrepancies to your sales representative.

1.2 Physically Mounting Distribution Media

- 1. For magtape distribution proceed as follows:
 - a. Obtain the magtape from your kit and mount it on a free tape drive with the write enable ring removed.
 - b. Ensure that the FILE PROT (file protection) indicator light is lit.
 - c. Ensure that the tape is at its load point (the LD PT indicator light is lit).
 - d. Set the ON LINE/OFF LINE switch on the tape unit to ON LINE, and ensure that the RDY (ready) indicator light is lit.
- 2. For disk cartridge distribution proceed as follows:
 - a. Obtain the disk cartridge from your kit and insert it into a free disk drive unit.
 - b. Place either the LOAD/RUN switch for the RK05 or the RUN/STOP switch for the RK06 and RK07 to run position. Press the LOAD button on the RL01.
 - c. Ensure that the RDY (ready) indicator light is lit.
 - d. Ensure that the WR PROT (write protect) indicator light is lit.

1.3 Possible Errors during Installation

When you are performing your installation procedures, you may get certain error messages. Should you get one of these messages, refer to this section.

A possible error that can occur during the DATATRIEVE-11 installation is the failure of the QDICT program. If such an error occurs, the following message is printed on the terminal.

RMS ERROR STATUS: xxx

where xxx is an octal RMS error code. Refer to the IAS/RSX-11M RMS-11 MACRO Programmer's Manual for the meaning of the error code and possible recovery procedures. When you have corrected the error, rerun the command file.

If the following message appears:

WRITE SHARING NOT AVAILABLE, PROCEEDING ANYWAY

write-locking has not been installed on the system. The installation continues from this point; however, you must install write-locking and reinstall DATATRIEVE-11. A system generation may be required to install writelocking. With write-locking installed, you can rerun the command file.

Another possible error is the termination of the QDICT task build. If the task build terminates with the following error message:

TKB -- *DIAG*6 UNDEFINED SYMBOLS SEGMENT SAVREG

The most likely cause is that RMS-11K has not been installed. To determine whether or not RMS-11K has been installed, examine the QDICT.MAP file. If these symbols:

\$CLO3E	\$CON3E
\$CRE3E	\$DIS3E
\$OPE3E	\$PUT3E

are undefined, RMS-11K has not been installed on the system.

Chapter 2 IAS V02 Installation Procedures

This chapter is a guide to the installation of DATATRIEVE-11 on the IAS V02 Operating System.

The information in this chapter is organized in the following manner.

Section 2.1 presents both the software and hardware requirements needed to install DATATRIEVE-11.

Section 2.2 contains the procedures to install DATATRIEVE-11 on your system.

Section 2.3 lists the DATATRIEVE-11 files that reside in the target UIC's.

2.1 System Requirements

The software and hardware listed in Sections 2.2.1 and 2.2.2 respectively are required to install DATATRIEVE-11.

2.1.1 Software Requirements

IAS Version 2

RMS-11K Version 1 (for RMS Indexed Record I/O)

RMS-11K software must be present on your computer prior to installing DATATRIEVE-11. If RMS-11K is not present, you must first install it before installing DATATRIEVE-11. Get the kit containing the RMS-11K software, and install this software following the procedures presented in the *RMS-11K* IAS Installation Guide.

2.1.2 Hardware Requirements

The following system configuration is required for DATATRIEVE-11 installation.

CPU	PDP-11 with EIS hardware.			
MEMORY	$64 { m K}$ by tes above the minimum operating system requirements.			
TERMINAL	Any supported terminal (hard copy terminals are preferred.)			
TAPE	One 9-track magtape drive.			
or				
DISK	RK05, RK06, RK07, or RL01 drive.			
DISK SPACE	2300 free blocks must be available in the target account for DATATRIEVE-11.			

2.2 Procedures for Installing DATATRIEVE-11 on IAS V02

2.2.1 Summary of Installation Procedures

- 1. Log in under a privileged $\operatorname{account}([1,x])$.
- 2. Physically mount the distribution medium as described in Chapter 1.
- 3. Logically mount the distribution medium.
- 4. Copy the distribution medium into your account (then remove the distribution medium).
- 5. Execute the command file DTRIAS.CMD.
- 6. Log off the system.

2.2.2 Log in Under a Privileged Account

Log into your computer system under a privileged account in the form ([1,x]).

2.2.3 Logically Mount the Distribution Medium

1. For magtape distribution use the command

MOUNT/FOR/NOOP dev: DTR11 @

2. For disk cartridge distribution use the command

MOUNT/NOOP dev: DTR11 @

where dev: is the device specification of the drive containing the distribution medium.

2.2.4 Copy the Distribution Medium

1. To copy the data on the magtape into the target account type the command

```
COPY dev:[1,1]*.*/DOS *.* RET
```

2. To copy the data on the disk cartridge into the target account type the command

COPY dev:[1,1]*.* *.* (RET)

At this time, data on the distribution medium is copied into the target account. when the copying operation is complete, the prompt PDS> appears on your terminal.

To logically dismount the distribution medium, type the command

```
DISMOUNT dev: RET
```

When the DISMOUNT COMPLETE message appears at your terminal, remove the distribution medium and store it in a safe place.

The installation dialog to this point will be similar to the following example (magtape distribution):

```
PDS> MOUNT/FOR/NOOP MM1: DTR11
MOUNT-**VOLUME INFORMATION**
        DEVICE
                  = M M 1
        CLASS
                  =FOREIGN
        UIC
                  =[1,1]
        ACCESS
                  = [RWED, RWED, RWED, RWED]
        CHARAC
                  =[FOR;ATCH;DCF]
PDS>COPY MM1:[1,1]*.*/DOS *.*
PDS> DISMOUNT MM1:
DMO -- MM1: ** DISMOUNT COMPLETE **
PDS>
```

2.2.5 Executing the Command File DTRIAS.CMD

Now type:

@DTRIAS RET

DTRIAS.CMD is the command file that installs DATATRIEVE-11 into your system. As part of the command file, the DATATRIEVE-11 Acceptance Test is executed. During the Acceptance Test, you are required to enter data. Observe the test as it outputs and respond as the test requests input.

The following example is the log printed as a result of command file execution. Note that the Acceptance Test has been deleted from the example. The complete Acceptance Test is in Appendix A.

```
PDS> ODTRIAS
  CREATE DATATRIEVE DIRECTORIES
I.
                $$$DTR
REMOVE
REM -- TASK $$$DTR NOT IN SYSTEM
CREATE/DIR LB:E11,1303
CREATE/D1R
               LB:C111,1303
CREATE/DIR
               LB:E311,1303
  COPY FILES TO PROPER LOCATIONS
                        L0:1311,1303*.*
COPY
        QDIAS.MAC
DELETE QDIAS.MAC;*
                        LB: [11, 130]*.*
COPY
       QEIAS.LNK
DELETE QEIAS,LNK #
COPY
       QEIAS.ODL
                        LB: [11, 130]*.*
DELETE QEIAS.ODL;*
COPY
        DTRIAS.ODL
                        LB: [11,1303*.*
DELETE DIRIAS.ODL :*
                        LB: E11, 1303*.*
COPY
        DTRIAS.LNK
DELETE DTRIAS.LNK;*
                        LB:E11,1300*.*
COPY
       RMSIAS, ODL
DELETE RMSIAS.ODL;*
COPY
        QCIAS.LNK
                        LB:E11,1303*.*
DELETE QCIAS.LNK#*
COPY
        QCIAS.ODL
                        LB:E11,1303*.*
DELETE QCIAS.ODL;*
  INSTALL DATATRIEVE OBJECT LIBRARY
1
MAC/OBJ:QD
                LB:E311,1303QUIAS
08:40:23 Size: 26K CPU: 0.11 Status: Success
       INSERT DIRLIB QD
LIBR
COPY
        DTRLIB.OLB
                        LB:E1,13*.*
DELETE DTRLIB.OLB;*
DELETE QD.OBJ#*
  INSTALL DATATRIEVE TASKS
@QDIAS.LNK
LINK /OVERLAY:QDIAS /TASK:QDICT/OPT/MAP:QDICT/READ
08:41:52 Size: 27K CPU: 22.10 Status: Success
1
```

```
RUN QDICT
08:41:54
CREATING QUERY DICTIONARY
CREATING MESSAGE FILE
POPULATING MESSAGE FILE
BYE
08:46:22 Size: 21K CPU: 21.46
@LB:E11,130JDTRIAS.LNK
LINK /OVERLAY:LB:C11,1303DTRIAS -
     /TASK:LB:E11,13DTR/OPT/MAP;LB:E111,1303DTR/MUL/READ
08:51:45 Size: 27K CPU: 48.96 Status: Success
@LB:E11,130JQEIAS.LNK
LINK /OVERLAY:LB:C11,1303QEIAS -
     /TASK:LB:E11,13QDEXT/OFT/MAP:LB:E111,1303QDEXT/READ
08:52:31 Size: 27K CPU: 13.98 Status: Success
1
@LB:[11,130]QCIAS.LNK
LINK /OVERLAY:LB:E11,1303QCIAS -
     /TASK:LB:E11,13QCFRS/OFT/MAP:LB:E111,1303QCFRS/READ
08:53:53 Size: 27K CPU: 26.60 Status: Success
SET PROTECTION LB:E1,2JQUERY.DIC
                                     WORLD:WRE
INSTALL
               LB: E11, 1 JDTR
  RUN DATATRIEVE ACCEPTANCE TEST
I
DTR @DTR.TST
          The DATATRIEVE-11 Acceptance Test Procedure
  FE
          is contained in Appendix A.
EXIT
BYE
  SAVE YACHT DEMO FILE
Ł
COPY
        YACHT.DAT
                        LB: [1,2]*.*
DELETE YACHT.DAT #
 END OF DATATRIEVE INSTALLATION
1
1
PDS>
```

2.2.6 Log Off the System

Log off the system after the DTRIAS.CMD file has completed execution (you observe the PDS> prompt).

2.3 DATATRIEVE-11 Files

When DATATRIEVE-11 has been installed, the following files reside in the indicated UIC's. Note that the [SELF] designation represents your privileged account.

UIC	FILE NAME	DESCRIPTION
[1,1]	DTRLIB.OLB	Datatrieve object library
[1,2]	QUERY.DIC	Data dictionary
[1,2]	QUERY.MSG	Message file
[1,2]	YACHT.DAT	Acceptance test data file
[11,130]	DTRIAS.LNK	Datatrieve task-build command file
[11,130]	DTRIAS.ODL	Datatrieve overlay description file
[11,130]	QCIAS.LNK	COMPRESS program task-build command file
[11,130]	QCIAS.ODL	COMPRESS program overlay description file
[11,130]	QEIAS.LNK	EXTEND program task-build command file
[11,130]	QEIAS.ODL	EXTEND program overlay description file
[11,130]	RMSIAS.ODL	RMS overlay description file
[11,1]	DTR.TSK	Datatrieve task image
[11,1]	QCPRS.TSK	Dictionary COMPRESS program
[11,1]	QDEXT.TSK	Dictionary EXTEND program
[111,130]	DTR.MAP	Datatrieve map file
[111,130]	QCPRS.MAP	Dictionary COMPRESS program map file
[111,130]	QDEXT.MAP	Dictionary EXTEND program map file
[311,130]	QDIAS.MAC	Dictionary file-name source module
[SELF]	DTR.TST	Acceptance test command file
[SELF]	MSGS.SEQ	Message file (distribution format)
[SELF]	QDIAS.LNK	Dictionary build program task-build command file
[SELF]	QDIAS.ODL	Dictionary build program overlay description file
[SELF]	QDICT.MAP	Dictionary build program map file
[SELF]	QDICT.TSK	Dictionary build program
[SELF]	YACHT.SEQ	Acceptance test data file (distribution format)

Chapter 3 RSX-11M V03 Installation Procedures

This chapter is a guide to the installation of DATATRIEVE-11 on the RSX-11M V03.1 Operating System.

The information in this chapter is organized in the following manner:

Section 3.1 presents both the software and hardware requirements needed to install DATATRIEVE-11

Section 3.2 contains the procedures to install DATATRIEVE-11 on your system.

Section 3.3 lists the DATATRIEVE-11 files that reside in the target UIC's.

3.1 System Requirements

The software and hardware listed in Section 3.1.1 and 3.1.2 respectively are required to install DATATRIEVE-11.

3.1.1 Software Requirements

RSX-11M Version 3.1 Mapped System

RMS-11K Version 1.5 (for RMS Indexed Record I/O)

RMS-11K Software must be present on your computer prior to installing DATATRIEVE-11. If RMS-11K is not present, you must first install it before installing DATATRIEVE-11. Get the kit containing the RMS11-K software,

and install this software following the procedures presented in the RMS-11K RSX-11M Installation Guide.

3.1.2 Hardware Requirements

The following system configuration is required for DATATRIEVE-11 installation.

CPU	PDP-11 with EIS hardware.			
MEMORY	$64 { m K}$ by tes above the minimum operating system requirements.			
TERMINAL	Any supported terminal (hard copy terminals preferred).			
TAPE	One 9-track magtape drive.			
or				
DISK	RK05, RK06, RK07 or RL01 drive.			
DISK SPACE	2300 free blocks must be available in the target account for DATATRIEVE-11.			

3.2 Procedures for Installing DATATRIEVE-11 on RSX-11M V03

3.2.1 Summary of Installation Procedures

- 1. Log in under a privileged account ([1,x]).
- 2. Physically mount the distribution medium as described in Chapter 1.
- 3. Allocate (and mount, if disk) the distribution medium.
- 4. Copy the distribution medium into your account (then remove the distribution medium).
- 5. Execute the command file DTR11M.CMD.
- 6. Log off the system.

3.2.2 Log in Under a Privileged Account

Log into your computer system under a privileged account in the form [1,x].

3.2.3 Allocate (and Mount, if Disk) the Distribution Medium

1. For magtape distribution use the command

ALL dev: RET

2. For disk cartridge distribution use the commands

```
ALL dev: @D
MOU dev:DTR11 @D
```

where dev: is the device specification of the drive containing the distribution medium.

3.2.4 Copy the Distribution Medium

1. To copy the data on the magtape into the target account type the command

FLX SY:/RSX=dev:[1,1]*.*/DOS (ET)

2. To copy the data on the disk cartridge into the target account type the command

```
PIP SY:/NV=dev:[1,1]*.* @ET
```

At this time, data on the distribution medium is copied into the target account. When the copying operation is complete, the prompt > appears on your terminal

To logically dismount the magtape distribution medium, type the command

DEA dev: RET)

For the disk distribution, type the commands

DMO dev: RET DEA dev: RET

When the prompt appears on your terminal, remove the distribution medium and store it in a safe place.

The installation dialog to this point will be similar to the following example (magtape distribution):

```
>ALL MM1:
>FLX SY:/RSX=MM1:[1,1]*,*/DOS
>DEA MM1:
>
```

3.2.5 Executing the Command File DTR11M.CMD

Now type

@DTR11M RET

DTR11M.CMD is the command file that installs DATATRIEVE-11 into your system. As part of the command file, the DATATRIEVE-11 Acceptance Test is executed. During the Acceptance Test, you are required to enter data. Observe the test as it outputs and respond as the test requests input.

The following example is the log printed as a result of command file execution. Note that the Acceptance Test has been deleted from the example. The complete Acceptance Test is in Appendix A.

```
> @DTR11M
> 4
>; COPY TASK BUILD COMMAND FILES
>;
>REM
        ...DTR
REM -- TASK NOT IN SYSTEM
>PIP LB:C1,24J/NV=QE11M.TKB
>PIP
        QE11M.TKB;*/DE
>PIP LB:E1,243/NV=QE11M.ODL
>PIP
       QE11M.ODL;*/DE
>PIP LB:E1,24J/NV=DTR11M.TKB
>PIP
        DTR11M.TKB;#/DE
>PIP LB:E1,243/NV=DTR11M.ODL
>PIP
        DTR11M,ODL #*/DE
>PIP LB:E1,243/NV=RMS11M.ODL
>PIP
        RMS11M.ODL;*/DE
>PIP LB:E1,243/NV=QC11M.TKB
>PIP
        QC11M.TKB$*/DE
>PIP LB:E1,243/NV=QC11M.ODL
>PIP
        QC11M.ODL;*/DE
> !
>! INSTALL DATATRIEVE OBJECT LIBRARY
>1
>MAC QD=QD11M
>LBR DTRLIB/IN=QD
>PIP LB:C1,13/NV=DTRLIB.OLB
>PIP
        DTRLIB.OLB;*/DE
>PIP
        QD.OBJ;*/DE
\geq 1
>! INSTALL DATATRIEVE TASKS
\geq 1
>TKB @QD11M.TKB
>RUN QDICT
CREATING QUERY DICTIONARY
CREATING MESSAGE FILE
POPULATING MESSAGE FILE
BYE
>TKB @LB:E1,243DTR11M.TKB
>TKB @LB:C1,243QE11M.TKB
>TKB @LB:C1,24JQC11M.TKB
>INS LB:C1,54JDTR
>1
>! RUN DATATRIEVE ACCEPTANCE TEST
>1
>DTR @DTR.TST
.
           The DATATRIEVE-11 Acceptance Test Procedure
  Ð
           is contained in Appendix A.
-
>PIP LB:C1,21/NV=YACHT.DAT
>PIP YACHT.DAT;*/DE
>1
>! END OF DATATRIEVE INSTALLATION
\geq !
>@ <EOF>
>
```

3.2.6 Log Off the System

Log off the system after the DTR11M.CMD file has completed execution (you observe the > prompt).

3.3 DATATRIEVE-11 Files

When DATATRIEVE-11 has been installed the following files reside in the indicated UIC's. Note that the [SELF] designation represents your privileged account.

UIC	FILE NAME	DESCRIPTION			
[1,1]	DTRLIB.OLB	Datatrieve object library			
[1,24]	DTR11M.ODL	Datatrieve overlay description file			
[1,24]	DTR11M.TKB	Datatrieve task-build command file			
[1,24]	QC11M.ODL	COMPRESS program overlay description file			
[1,24]	QC11M.TKB	COMPRESS program task-build command file			
[1,24]	QE11M.ODL	EXTEND program overlay description file			
[1,24]	QE11M.TKB	EXTEND program task-built command file			
[1,24]	RMS11M.ODL	RMS overlay description file			
[1,2]	QUERY.DIC	Data dictionary			
[1,2]	QUERY.MSG	Message file			
[1,2]	YACHT.DAT	Aceptance test data file			
[1,34]	DTR.MAP	Datatrieve map file			
[1,34]	QCPRS.MAP	Dictionary COMPRESS program map file			
[1,34]	QDEXT.MAP	Dictionary EXTEND program map file			
[1,54]	DTR.TSK	Datatrieve task image			
[1,54]	QCPRS.TSK	Dictionary COMPRESS program			
[1,54]	QDEXT.TSK	Dictionary EXTEND program			
[SELF]	DTR.TST	Acceptance test command file			
[SELF]	MSGS.SEQ	Message file (distribution format)			
[SELF]	QD11M.MAC	Dictionary file-name source module			
[SELF]	QD11M.ODL	Dictionary build program overlay description file			
[SELF]	QD11M.TKB	Dictionary build program task-build command file			
[SELF]	QDICT.MAP	Dictionary build program map file			
[SELF]	QDICT.TSK	Dictionary build program			
[SELF]	YACHT.SEQ	Acceptance test data file (distribution format)			

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Chapter 4 RSTS/E V06C Installation Procedures

This chapter is a guide to the installation of DATATRIEVE-11 on the RSTS/E V06C Operating System.

The information in the chapter is organized in the following manner:

Section 4.1 presents both the software and hardware requirements needed to install DATATRIEVE-11.

Section 4.2 contains the procedures to install DATATRIEVE-11 on your system.

Section 4.3 lists the DATATRIEVE-11 files that reside in the target accounts.

4.1 System Requirements

The software and hardware listed in Sections 4.2.1 and 4.2.2 respectively are required to install DATATRIEVE-11.

4.1.1 Software Requirements

RSTS/E, Version V06C

RSX.RTS - The RSX run-time system

RT.RTS - The RT-11 run-time system

SYSLIB.OLB - The RSX system object library

RMS11.RTS - The RMS-11 run-time system

PIP.SAV - Peripheral Interchange Program in account [1,2]

TKB.TSK - The Task Builder in account [1,2]

MAC.TSK - The MACRO-11 assembler in account [1,2]

RMS-11K - Version 1.5 (for RMS Indexed Record I/O)

RMS-11K software must be present on your computer prior to installing DATATRIEVE-11. If RMS-11K is not present, you must install it before installing DATATRIEVE-11. Get the kit containing the RMS-11K software, and install this software following the procedures presented in the RMS-11K RSTS/E Installation Guide.

4.1.2 Hardware Requirements

The following system configuration is required for DATATRIEVE-11 installation.

CPU	PDP-11 with EIS hardware.			
MEMORY	$64 { m K}$ by tes above the minimum operation system requirements.			
TERMINAL	Any supported terminal (hardcopy terminals are perferred).			
TAPE	One 9-track magtape drive.			
or				
DISK	RK05, RK06, RK07 or RL01 drive.			
DISK SPACE	2300 free blocks must be available in the target account for DATATRIEVE-11.			

4.2 Procedures for Installing DATATRIEVE-11 on RSTS/E V06C

4.2.1 Summary of Installation Procedures

- 1. Log in under a privileged account [1,x].
- 2. Physically mount the distribution medium as described in chapter 1.
- 3. Logically assign the magtape or mount the disk distribution medium.
- 4. Copy the distribution medium into your account (then remove the distribution).
- 5. Execute the BUILD program.
- 6. Log off the system.

4.2.2 Log in Under a Privileged Account

Log into your computer system under a privileged account in the form [1,x].

4.2.3 Logically Assign the Magtape or Mount the Disk Distribution Medium

1. For magtape distribution use the command

ASSIGN dev:,DOS RET

2. For disk cartridge distribution use the command

MOUNT dev:DTR11/RONLY (ET)

where dev: is the device specification of the drive containing the distribution medium.

4.2.4 Copy the Distribution Medium

To copy the data on either the magtape or disk distribution into the target account type the commands

```
RUN $PIP.SAV (EE)
**.*=dev:[1,1]*.* (EE)
*^Z
```

At this time, data on the distribution medium is copied into the target account. When the copying operation is complete, the prompt Ready appears on your terminal.

To logically dismount the magtape distribution medium, type the command

```
DEASSIGN dev: RET
```

For the disk distribution, type the command

```
DISMOUNT dev:DTR11 RET
```

When the Ready prompt appears on your terminal, remove the distribution medium and store it in a safe place.

The installation dialog to this point will be similar to the following example (magtape distribution).

```
Ready
ASSIGN MMO:.DOS
Ready
RUN $PIP.SAV
**.*=MMO:[1,1]*.*
* ^Z
Ready
DEASSIGN MMO:
Ready
```

4.2.5 Executing the BUILD Program

Now type

RUN \$BUILD BET

The computer initiates the following dialog; respond as shown.

```
BUILD V06C-03 RSTS V06C-03 SYSTEM 52547
System Build <No>? RED
Source Input Device <SY:>? RED
Library Output Device <SY>? RED
Library Account <[1,2]>? RED
Control File is? DTRSTS.CTL RED
*** Copying file SY:DTRSTS.CTL to SY:BUILD.TMP
BUILD Detaching. .
```

The BUILD program then installs DATATRIEVE-11. The dialog continues, as shown by the following example. Note that you must enter the command DTR @DTR.TST to run the Acceptance Test.

```
≏C
HELLO
```

RSTS V06C-03 Basic+2/Cobol Job 17 KB20 29-Aus-78 12:42 PM #1/250 Password: Job 12 is detached under this account Job number to attach to? 1 other user is logsed in under this account

```
Ready
```

ASSIGN SY:SYSDSK.

Reads

ASSIGN SY:SYSTEM

Ready

ASSIGN 01,21

Reads

ASSIGN SY:INPUT

Reads

```
!
! Make sure PXS.RTS and RT11.RTS are present
!
RUN $UTILTY
UTILTY V06C-03 RSTS V06C-03 Basic+2/Cobol
#ADD RSX
?Name or account now exists - in ADD
#ADD RT11
?Name or account now exists - in ADD
#CCL DTR=
?Can't find file or account - in CCL
#EXIT
```

```
Ready
```

```
! Install Datatrieve object library
!
RUN $MAC
MAC>QD=QDRSTS
MAC>^C
```

Ready

RUN \$LBR LBR>DTRLIB/IN=QD LBR^C Ready

```
RUN $FIP.SAV
*LB:=DTRLIB.OLB
*DTRLIB.OLB/DE
*QD.OBJ/DE
*LB:RMS11.TSK<40>/RE
*^C
```

Ready

```
!
! Install Datatrie.e tasks
!
RUN $TKB
TKB>@QDRSTS.TKB
```

Readý

RUN QDICT CREATING QUERY DICTIONARY CREATING MESSAGE FILE POPULATING MESSAGE FILE BYE

Ready

RUN \$TKB TKB>@DTRSTS.TKB

Réády

RUN \$TKB TKB>@QERSTS.TKB

Réádý

RUN \$TKB TKB>@QCRSTS.TKB

Réáđý

```
RUN $UTILTY
UTILTY V06C-03 RSTS V06C-03 Basic+2/Cobol
#CCL DTR-=SYSTEM:@DTR.TSK
#EXIT
```

Reads

```
!
!
! Clean up accounts
!
*PIP.SAV
*SYSTEM:@<104>=DTR.TSK
*SYSTEM:@=QDEXT.TSK
*SYSTEM:@=QCPRS.TSK
*DTR.TSK/DE
*QDEXT.TSK/DE
*QCPRS.TSK/DE
*SYSTEM:@QUERY.DIC<0>/RE
*SYSTEM:@QUERY.MSG<40>/RE
*^C
```

```
Ready
I
ł
        Ready to run Datatrieve acceptance test.
 С
Ready
HELLO
RSTS V06C-03 Basic+2/Cobol Job 17 [1,250] KB20 29-Aug-78 12:56 PM
Job 12 is detached under this account
Job number to attach to? 12
Attaching to Job 12
BUILD Complete
Ready
DIR ODIR.IST
•
.
           The DATATRIEVE-11 Acceptance Test Procedure
•
   T
           is contained in Appendix A.
•
```

Part of the BUILD program's processing is the DATATRIEVE-11 Acceptance Test. You must enter data at the points shown in Appendix A to execute this test properly.

At the completion of the Acceptance Test, look for the lines

```
!
! END OF QUERY/REPORT WRITER TEST
!
EXIT
BYE
Ready
```

Next, type the following under "Ready"

```
RUN $PIP,SAV (ET)
*$<40>=YACHT,DAT (ET)
*^Z (ET)
```

Watch for the prompt Ready to appear. After "Ready" prints out, log off your system. DATATRIEVE-11 has been installed.

4.3 DATATRIEVE-11 Files

When DATATRIEVE-11 has been installed, the following files reside in the indicated accounts. Note that the [SELF] designation represents your privileged account.

ACCOUNT	FILE NAME	DESCRIPTION
[1,1]	DTRLIB.OLB	Datatrieve object library
[1,2]	DTR.TSK	Datatrieve task image
[1,2]	QCPRS.TSK	Dictionary COMPRESS program
[1,2]	QDEXT.TSK	Dictionary EXTEND program
[1,2]	QUERY.DIC	Data dictionary
[1,2]	QUERY.MSG	Message file
[1,2]	YACHT.DAT	Acceptance test data file
[SELF]	DTR.MAP	Datatrieve map file
[SELF]	DTR.TST	Acceptance test command file
[SELF]	DTRSTS.ODL	Datatrieve overlay description file
[SELF]	DTRSTS.TKB	Datatrieve task-build command file
[SELF]	MSGS.SEQ	Message file (distributon format)
[SELF]	QCPRS.MAP	Dictionary COMPRESS program map file
[SELF]	QCRSTS.ODL	COMPRESS program overlay description file
[SELF]	QCRSTS.TKB	COMPRESS program task-build command file
[SELF]	QDEXT.MAP	Dictionary EXTEND program map file
[SELF]	QDICT.MAP	Dictionary build program map file
[SELF]	QDICT.TSK	Dictionary build program
[SELF]	QDRSTS.MAC	Dictionary file-name source module
[SELF]	QDRSTS.ODL	Dictionary build program overlay description file
[SELF]	QDRSTS.TKB	Dictionary build program task-build command file
[SELF]	QERSTS.ODL	EXTEND program overlay description file
[SELF]	QERSTS.TKB	EXTEND program task-build command file
[SELF]	RMSRST.ODL	RMS overlay description file
[SELF]	YACHT.SEQ	Acceptance test data file (distribution format)

Chapter 5 Compressing the Data Dictionary and Extending DATATRIEVE-11

This chapter contains procedures you can use to:

- 1. Compress the data dictionary
- 2. Extend DATATRIEVE-11 task space
- 3. Extend (temporarily) the data dictionary

5.1 Compressing the Data Dictionary

You use the utility program, QCPRS, to periodically compress the data dictionary. As DATATRIEVE-11 is used, the data dictionary can accumulate deleted record headers, deoptimized index structures and scattered and fragmented buckets; run QCPRS to reclaim the disk space wasted by this fragmentation.

To run QCPRS, invoke the program with the operating system command:

RUN QCPRS RET

The utility program responds with the prompt:

CPR>

To compress the data dictionary, enter the command line in the form

new-file=old-file

to QCPRS, where *old-file* is the file name of the data dictionary, and *new-file* is the name of the compressed copy of the dictionary.

The default file name for both *new-file* and *old-file* is SY:QUERY.DIC; the UIC (or account) defaults to your directory.

On RSX-11M and IAS systems, *new-file* and *old-file* can have the same name; either system creates a new version of the name. Under RSTS/E, however, the name must be different. The best strategy is to rename the dictionary to a suitable name, such as QUERY.BAK, and use QCPRS to copy it back to its original name, QUERY.DIC.

QCPRS then prompts for an initial allocation for the new version of the file with the message:

ENTER ALLOCATION FOR AREA O:

Enter a "best guess" for the new compressed version. If the value entered is too low, the file will be extended automatically to hold the contents of the original file.

To terminate QCPRS, type CTRL/Z after the prompt CPR>.

The original file is not altered by QCPRS. It may be saved as a backup or deleted.

An example of a typical QCPRS run follows:

```
RUN QCPRS (ET)
QUERY FILE COPY-COMPRESS UTILITY
CPR> QUERY,DIC = SY:[1,2] QUERY,DIC (RET)
ENTER ALLOCATION FOR AREA 0: 250 (RET)
CPR> (TRUZ)
```

5.2 Extending DATATRIEVE–11 Task Space

DATATRIEVE-11 utilizes extend task space for RMS buffers, internal control blocks, and SORT work space. When this space is exhausted during execution of a command, one of the following messages is printed:

CENTRAL STORAGE POOL EXHAUSTED SORT WORK SPACE EXHAUSTED COMPILER STORAGE POOL EXHAUSTED

There are two solutions to this problem. First, the amount of memory in use can be reduced by taking one or more of the following steps:

- 1. Use the RELEASE command to release any unnecessary collections.
- 2. Use the FINISH command to finish any unnecessary domains.
- 3. If any DEFINE or DELETE commands have been issued, exit and reinvoke DATATRIEVE-11.

Second, if the problem persists, the extend task size parameter in the DATATRIEVE-11 task build command file can be modified to increase the

size of DATATRIEVE-11. To do this, edit the file DTRIAS.TKB (IAS <u>System</u>), or <u>DTR11M.TKB</u> (RSX-11M System), or <u>DTRSTS.TKB</u> (RSTS/E System). The syntax of the extend task size parameter is:

EXTTSK=xxxxx

where xxxxx is the number of decimal words that the task is to be extended. Next, rebuild DATATRIEVE-11 with the command(s):

 @DTRIAS.LNK ED
 (for IAS System)

 RUN \$TKB ED
 (for RSX-11M System)

 TKB> @DTR11M.TKB EED
 (for RSTS/E System)

 RUN \$TKB EED
 (for RSTS/E System)

 TKB> @DTRSTS.TKB EED
 (for RSTS/E System)

Upon completion of the task build, DATATRIEVE-11 is ready for execution.

5.3 Extending the Data Dictionary

When DATATRIEVE-11 is installed in an RSX-11M System, RMS automatically extends the data dictionary file, should that file become full. However, all RSTS/E systems (and some IAS Systems) will return error messages indicating that the data dictionary is full.

The reason for the message is that in RSTS/E Systems (and some IAS Systems) any attempt to extend a file by a user who is not the owner of the file is rejected by RMS.

To extend the size of the data dictionary, you can use the QDEXT utility program. Run the program by typing

RUN QDEXT

QDEXT then prompts for the name of the file (the data dictionary) and the number of blocks it is to be extended.

5.4 Automatic Spooling Under RSX–11M

Automatic line printer spooling under RSX-11M is controlled by the global symbol SPL11M. If this symbol is set to 1 (as distributed), all PRINT and REPORT command references to the device LP: are redirected to disk, and queued to the spooler following request execution. If the symbol SPL11M is set to 0, line printer output is sent directly to the line printer.

The SPL11M symbol is defined in the RSX-11M DATATRIEVE Task Build Command File DTR11M.TKB. To send line printer output directly to the line printer, edit the DTR11M.TKB file (setting SPL11M to 0), then run the Task Builder:

RUN \$TKB RET TKB>@DTR11M.TKB RET

Appendix A Acceptance Test Procedure

! CLEAN UP FROM POSSIBLE PREVIOUS RUNS OF TEST DELETE YACHTS-SEQUENTIAL; "YACHTS-SEQUENTIAL" has not been defined in the dictionary DELETE YACHTS; "YACHIS" has not been defined in the dictionary DELETE YACHT; "YACHT" has not been defined in the dictionary DELETE PRICE-PER-POUND; "FRICE-PER-POUND" has not been defined in the dictionary DELETE STORE-YACHT; "STORE-YACHT" has not been defined in the dictionary DELETE LOA-REPORT; "LOA-REPORT" has not been defined in the dictionary ! DEFINE RECORD DEFINE RECORD YACHT USING 01 BOAT. 03 TYPE. 06 MANUFACTURER PIC X(10) QUERY-NAME IS BUILDER. 06 MODEL FIC X(10). 03 SPECIFICATIONS QUERY-NAME SPECS. 06 RIG PIC X(6). 06 LENGTH-OVER-ALL FIC XXX QUERY-NAME IS LOA. 06 DISPLACEMENT FIC 99999 QUERY-HEADER IS "WEIGHT" EDIT-STRING IS ZZ,ZZ9 QUERY-NAME IS DISP. 06 BEAM PIC 99. 06 PRICE PIC 99999 EDIT-STRING IS \$\$\$,\$\$\$.; [Record YACHT is 41 bytes long] DEFINE DOMAINS i DEFINE DOMAIN YACHTS-SEQUENTIAL USING YACHT ON YACHT.SEQ ; DEFINE DOMAIN YACHTS USING YACHT ON YACHT.DAT; ! DEFINE THE ACTUAL FILE FOR YACHTS DEFINE FILE YACHTS KEY=BUILDER(DUP),KEY=MODEL(DUP,CHANGE), ALLOCATION=30, SUPERCEDE

```
MAKE YACHTS ACCESSABLE BY OTHERS
I.
DEFINEP YACHTS 2, FW, "SHHHH", W
                                 ! PASSWORD FOR WRITE
DEFINEP YACHTS 3,UIC, C*,*],R
                                ! EVERYONE ELSE GETS READ
DEFINEP YACHT 2,UIC, C*,*],R
                                 ! GIVE ACCESS TO RECORD DEFINITION, TOO
SHOWP YACHTS
        1,UIC, 0311,3001, "RWMEC"
        2, PW, "SHHHH", "W"
        3,UIC, E*,*3, "R"
  DEFINE PROCEDURES
ł
DEFINE PROCEDURE PRICE-PER-POUND
PRICE*1.00/DISP ("PRICE"/"PER"/"POUND") USING $$.99
END-PROCEDURE
DEFINE PROCEDURE STORE-YACHT
STORE YACHTS VERIFY USING
  BEGIN
     IF BEAM EQ O THEN ABORT "BAD BEAM"
     IF DISP EQ O THEN ABORT "BAD DISPLACEMENT"
     IF LOA NOT BETWEEN 20 AND 60 THEN ABORT "BAD LENGTH"
     PRINT
     DISPLAY "CONFIRM WITH Y IF OK"
     IF *.CONFIRMATION NOT CONTAINING 'Y' THEN ABORT 'STORE ABORTED'
  END
END-PROCEDURE
  COPY DATA FROM SEQUENTIAL TO INDEXED FILE
ł
READY YACHTS WRITE
READY YACHTS-SEQUENTIAL
SHOW READY
Ready domains:
        YACHTS-SEQUENTIAL: RMS SEQUENTIAL, PROTECTED READ
        YACHTS: RMS INDEXED, PROTECTED WRITE
FOR YACHTS-SEQUENTIAL STORE YACHTS USING BOAT=BOAT
FINISH YACHTS-SEQUENTIAL;
  TEST STORE
Ł
1
  PLEASE SUPPLY THE FOLLOWING VALUES:
£
     MANUFACTURER:
                          HINKLEY
     MODEL:
                          BERMUDA 40
     RIG:
                          YAWL
     LENGTH-OVER-ALL:
                          140
     DISPLACEMENT:
                          20000
     REAM:
                          12
     PRICE:
                          82000
STORE-YACHT
Enter MANUFACTURER: HINKLEY
Enter MODEL: BERMUDA 40
Enter RIG: YAWL
Enter LENGTH-OVER-ALL: 140
Enter DISPLACEMENT: 20000
Enter BEAM: 12
Enter PRICE: 82000
ABORT: BAD LENGTH
Execution terminated by "ABORT" statement
ļ
```

! PLEASE SUPPLY THE FOLLOW VALUES: Ť MANUFACTURER: HINKLEY MODEL: ı BERMUDA 40 RIG: YAWL LENGTH-OVER-ALL: 40 **DISPLACEMENT:** 20,000 BEAM: 12 PRICE: \$82,000 CONFIRMATION N STORE-YACHT Enter MANUFACTURER:HINKLEY Enter MODEL:BERMUDA 40 Enter RIG: YAWL Enter LENGTH-OVER-ALL:40 Enter DISPLACEMENT: 20,000 Enter BEAM:12 Enter PRICE:\$82,000 LENGTH OVER MANUFACTURER MODEL RIG WEIGHT BEAM PRICE ALL HINKLEY BERMUDA 40 YAWL 40 20,000 12 \$82,000 DISPLAY: CONFIRM WITH Y IF OK Enter CONFIRMATION:N ABORT: STORE ABORTED Execution terminated by "ABORT" statement ł CHANGE READY MODE FOR READ ACCESS READY YACHTS FIND YACHTS WITH PRICE NE O [52 records found] SORT BY LOA, DESC DISPLACEMENT SHOW ALL Domains: YACHTS-SEQUENTIAL YACHTS Records: YACHT Procedures: PRICE-PER-POUND STORE-YACHT Collections: CURRENT Ready domains: YACHTS: RMS INDEXED, PROTECTED READ SHOW CURRENT Collection CURRENT Domain: YACHTS Number of records: 52 No selected record Sort order: LENGTH-OVER-ALL, DISPLACEMENT PRINT ALL

			LENGTH			
			OVER			
MANUFACTURER	MODEL	RIG	ALL	WEIGHT	BEAM	PRICE
	*	~ ~~~		150	0.7	#7 E 0.0
WINDFUWER	IMPULSE	SLUUP	10	4 000	07	\$3,000
CAPE DURY	I TPHUUN	SLUUP	19	1,900	00	\$4727D
VENTURE.	21	SLUUP	21	1,500	07	\$2,823
VENTURE	222	SLOOP	22	2,000	07	\$3,564
EASTWARD	HO	M/S	24	7,000	09	\$15,900
ISLANDER	BAHAMA	SLOOP	24	4,200	08	\$6,500
IRWIN	25	SLOOP	25	5,400	12	\$10,950
CAPE DORY	25	SLOOP	25	4,000	07	\$8,995
SALT	19	SLOOP	25	2,600	07	\$6,590
WESTERLY	CENTAUR	SLOOP	26	6,700	08	\$15,245
GRAMPIAN	26	SLOOP	26	5,600	08	\$11,495
AMERICAN	26-MS	M/S	26	5,500	08	\$18,895
TANZER	26	SLOOP	26	4,350	09	\$11,750
ALBIN	79	SLOOP	26	4,200	10	\$17,900
AMERICAN	26	SLOOP	26	4,000	08	\$9,895
HUNTER	27	SLOOP	27	6,500	09	\$14,999
ALBIN	VEGA	SLOOP	27	5,070	08	\$18,600
CAPE DORY	28	SLOOP	28	9,000	09	\$21,990
SABRE	28	SLOOP	28	7,400	09	\$22,000
GRAMPTAN	28	SLOOP	28	6,900	10	\$14,475
TANZER	28	SLOOP	28	6.800	10	\$17,500
TSI ANDER	28	SUDDE	28	5.994	10	\$15,908
NORTHERN	20	SLOOP	20	7.250	ŌŎ	\$20,975
TELITAI	30		30	10-000	10	\$10.050
LINTED	30		70	0.500	10	401.500
COAMOTAN	30	el nop	30	9,400	70	#2170VV
	30		30	0,200	10	400-000
		SLOUP	30	3,000	10	#07 EAA
HLDIN CLIDDED	DHLLHU CM 70	SLUUF	30	7.000	10	#0.500
DVDED		SLUUF	30	37800	00	#79.300
RTUER	S+ CRUSS	SLOUP	-7 I	13,800	00	*321300
BUMBAT	CLIPPER	SLUUP	31	99400	11	*23/700
WRIGHI	SEAWIND II	SLUUP	32	14,900	00	\$34,480
CHALLENGER	32	SLUUP	32	12,800	11	\$31,835
O'DAY	32	SLOOP	32	11,000	00	\$29,500
BAYFIELD	30/32	SLOOP	32	9,500	10	\$32,875
CLIFFER	CM 32	SLOOF	32	4,500	08	\$12,950
GRAMFIAN	34	KETCH	33	12,000	10	\$29,675
GRAMPIAN	2-34	SLOOP	34	11,800	10	\$29,675
CARIBBEAN	35	SLOOP	35	18,000	11	\$37,850
CHRIS-CRAF	CARIBBEAN	SLOOP	35	18,000	11	\$37,850
CHALLENGER	35	SLOOP	35	14,800	12	\$39,215
I. TRADER	37	KETCH	36	18,600	12	\$39,500
ISLANDER	36	SLOOP	36	13,450	11	\$31,730
ALBERG	37 MK II	KETCH	37	20,000	12	\$36,951
IRWIN	37 MARK II	KETCH	37	20,000	11	\$36,950
NORTHERN	37	KETCH	37	14,000	11	\$50,000
LINDSEY	39	M/S	39	14,500	12	\$35,900
CHALLENGER	41	KETCH	41	26,700	13	\$51,228
GULFSTAR	41	KETCH	41	22,000	12	\$41,350
ISLANDER	FREEPORT	KETCH	41	22,000	13	\$54,970
COLUMBIA	41	SLOOP	41	20,700	11	\$48,490
OLYMPIC	ADVENTURE	KETCH	42	24,250	13	\$80,500
			-			

SELECT FIRST PRINT

MANUFACTURER	MODEL	RIG	LENGTH OVER ALL	WEIGHT	BEAM	PRICE	
WINDPOWER	IMPULSE	SLOOP	16	650	07	\$3,500	
SELECT PRINT BOAT,:F	PRICE-PER-F	מאטסי					
MANUFACTURER	MODEL	RIG	LENGTH OVER ALL	WEIGHT	BEAM	PRICE	PRICE PER POUND
CAPE DORY	TYPHOON	SLOOP	19	1,900	06	\$4,295	\$2.26
CAPE DORY TYPHOON SLOOP 19 1,900 06 \$4,295 \$2.26 DEFINE REPORT PROCEDURE DEFINE REPORT PROCEDURE DEFINE PROCEDURE LOA-REPORT REPORT ON *.FILE SET REPORT-NAME="JIM'S VERY OWN LISTING"/"OF"/"INTERESTING SAILBOATS"/ "(BY LENGTH)" SET LINES-PAGE=55, COLUMNS-PAGE=72 AT TOP OF LOA PRINT LOA("LENGTH") PRINT TYPE, RIG, DISP, BEAM USING Z9, PRICE AT BOTTOM OF LOA PRINT SKIP, COL 32, "*** AVERAGE ***", AVERAGE DISP, AVERAGE BEAM, AVERAGE PRICE AT BOTTOM OF REPORT PRINT SKIP, "REPORT AVERAGES", AVERAGE DISP, AVERAGE BEAM, AVERAGE PRICE AT BOTTOM OF PAGE PRINT SKIP, COL 20, ""ANOTHER SERVICE OF QUERY ENTERPRISES"" REPORT END END-PROCEDURE ! INVOKE REPORT (SUGGEST OUTPUT ON TI:) !							

	JIM'S	VERY OWN LI	STING			
	INTER	ESTING SAILB (BY LENGTH)	DATS		3 P	1-JUL-78 AGE 1
LENGTH	MANUFACTURER	MODEL	RIG	WEIGHT	BEAM	PRICE
16						
	WINDPOWER	IMPULSE	SLUUP	650	/	\$3,500
10		*** AVERAGE	***	650	07	\$3,500
17	CAPE DORY	түрноом	SLOOP	1,900	6	\$4,295
		*** AVERAGE	***	1,900	06	\$4,295
21	VENTURE	21	SLOOP	1,500	7	\$2,823
30		*** AVERAGE	***	1,500	07	\$2,823
££	VENTURE	222	SLOOP	2,000	7	\$3,564
24		*** AVERAGE	***	2,000	07	\$3,564
т. т .	EASTWARD	но	M/S	7,000	9	\$15,900
	ISLANDER	BAHAMA	SLOOP	4,200	8	\$6,500
25		*** AVERAGE	***	5+600	08	\$11,200
Sain Sur	IRWIN	25	SLOOP	5,400	12	\$10,950
	CAPE DORY	25	SLOOP	4,000	7	\$8,995
	SAL I	19	SLUUP	29800		\$890YU
26		*** AVERAGE	***	4,000	08	\$8,845
20	WESTERLY	CENTAUR	SLOOP	6,700	8	\$15,245
	GRAMPIAN	26	SLOOP	5,600	8	\$11,495
	AMERICAN	26-MS	M/S	5,500	8	\$18,895
		26	SLUUP	4,300	10	\$11,700
	AMERICAN	26	SLOOP	4,000	8	\$9,895
		*** AVERAGE	***	5,058	08	\$14,196
27	HUNTER	27	SLOOP	6,500	9	\$14,999
	ALBIN	VEGA	SLOOP	5,070	8	\$18,600
28		*** AVERAGE	***	5,785	08	\$16,799
	CAPE DORY	28	SLOOP	9,000	9	\$21,990
	SABRE	28	SLOOP	7,400	9	\$22,000
	UKAMPIAN	28	SLUUP	67900	10	サエイナイ/S
	TANZER	20 20	ວແບບຕ	8,800	л. V	#17#300

"ANOTHER SERVICE OF QUERY ENTERPRISES"

JIM'S VERY OWN LISTING OF INTERESTING SAILBOATS (BY LENGTH)

.....

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LENGTH	MANUFACTURER	MODEL	RIG	WEIGHT	BEAM	PRICE
	ISLANDER	28	SLOOP	5,994	10	\$15,908
70		*** AVERAGE	***	7,218	09	\$18,374
£7	NORTHERN	29	SLOOP	7,250	9	\$20,975
30		*** AVERAGE	***	7,250	09	\$20,975
00	IRWIN	30	SLOOP	10,000	10	\$19,950
	HUNTER	30	SLOOP	9,500	10	\$21,500
	GRAMPIAN	30	SLOOP	8,600	9	\$17,775
	ISLANDER	30	SLOOP	8,600	10	\$20,990
	ALBIN	BALLAD	SLOOP	7,276	10	\$27,500
	CLIPPER	CM 30	SLOOP	3,800	8	\$9,500
		*** AVERAGE	***	7,962	09	\$19,535
31	RYDER	S. CROSS	SLOOP	13,600	0	\$32,500
	BOMBAY	CLIPPER	SLOOP	9,400	11	\$23,950
70		*** AVERAGE	***	11,500	05	\$28,225
02	WRIGHT	SEAWIND II	SLOOP	14,900	0	\$34,480
	CHALLENGER	32	SLOOP	12,800	11	\$31,835
	0'DAY	32	SLOOP	11,000	0	\$29,500
	BAYETEL D	30/32	SLOOP	9,500	10	\$32,875
	CLIPPER	CM 32	SLOOP	4,500	8	\$12,950
		*** AVERAGE	***	10,540	05	\$28,328
33	GRAMPIAN	34	КЕТСН	12,000	10	\$29,675
-		*** AVERAGE	***	12,000	10	\$29,675
34	GRAMPIAN	2-34	SLOOP	11,800	10	\$29,675
		*** AVERAGE	***	11,800	10	\$29,675
35	CARTEREAN	75	SI 00P	18,000	11	\$37,850
	CHRIG_CRAF	CARTEREAN	SLOOP	19.000	11	437,950
	CHALLENGER	35	SLOOP	14,800	12	\$39,215
7/		*** AVERAGE	***	16,933	11	\$38,305
30	I. TRADER	37	КЕТСН	18,600	12	\$39,500
	ISLANDER	36	SLOOP	13,450	11	\$31,730
		*** AVERAGE	***	16,025	11	\$35,615
	ANOTHER SE	RVICE OF QUE	RY ENTE	RPRISES"		

		JIM'S	VERY	OWN LIS	STING				
		INTER	ESTIN	G SAILB(ENGTH)	DATS		3 P	1-JUL-78 AGE 3	
LENGTH	MANUFA	CTURER	נסא	DEL	RIG	WEIGHT	BEAM	PRICE	
37									
	ALBER	G	37 MI	< II	KETCH	20,000	12	\$36,951	
	NORTH	ERN	37 11	461 11	KETCH	14,000	11	\$50,000	
			بلويك		ىلەر بەر بەر	10 000	4 4	*** 700	
39			ሻሻች ነ	AVERAGE	***	181000	ΤT	\$41930V	
	LINDS	EY	39		M/S	14,500	12	\$35,900	
			***	AVERAGE	***	14,500	12	\$35,900	
41									
	CHALL		41		KETCH	26,700	13	\$51,228	
	JULF 5	IAR NED	41 EDEE(oor	KETCH	22,000	17	#419330 #54.070	
		BTA	41	UNI	SLOOP	20,700	11	\$48,490	
			•		~~~~				
40			*** 6	AVERAGE	***	22,850	12	\$49,009	
**	OLYMP	IC	ADVE	NTURE	КЕТСН	24,250	13	\$80,500	
			*** 6	AVERAGE	***	24,250	13	\$80,500	
REPORT AVERA	GES					10,169	09	\$24,843	
INVOKE REP(LOA-REPORT Enter FILE: RATTLE UPD(FIND YACHTS U	DRT (SUGGES LP: ATE JITH BEAM=0	Γ ΟυτΡυ	T ON I	_F:)					
E5 records fo PRINT ALL	ound]								
			LENG	гн					
MANUFACTURER	MODEL	RIG	OVEF ALL	WEIGH	IT BEAM	PRICE			
METALMAST	GALAXY	SLOOP	32	9,50	00 00				
O'DAY	32	SLOOP	32	11,00	00 00	\$29,500			
RYDER	S. CROSS	SLOOP	31	13,60	00 00	\$32,500			
TA CHIAO	FANTASIA	SLOOP	35	23,20	00 00				
WRIGHT	SEAWIND II	SLOOP	32	14,9(00 00	\$34+480			
SELECT FIRST	PRINT								
			LENGT	Ή					
MANUFACTURER	MODEL	RIG	OVER ALL	WEIGH	IT BEAM	PRICE			
METALMAST	GALAXY	SLOOP	32	9,50	00 00				
READY YACHTS !	MODIFY								

```
! RESPOND WITH 47 (OR SOMETHING)
1
MODIFY BEAM
Enter BEAM: 47
PRINT TYPE, BEAM
MANUFACTURER
             MODEL
                        BEAM
 METALMAST
                          47
             GALAXY
1
! RESPOND WITH 48 (OR SOMETHING)
MODIFY ALL BEAM
Enter BEAM: 48
Ŧ
PRINT ALL BEAM
BEAM
 48
 48
 48
 48
 48
1
! RESPOND EACH TIME WITH O (PLEASE)
1
FOR CURRENT PRINT TYPE THEN MODIFY BEAM
MANUFACTURER
               MODEL
 METALMAST
             GALAXY
Enter BEAM: 0
0'DAY
             32
Enter BEAM: 0
RYDER
             S. CROSS
Enter BEAM: 0
 TA CHIAO
             FANTASIA
Enter BEAM: 0
 WRIGHT
             SEAWIND II
Enter BEAM: 0
READY YACHTS READ
PRINT ALL
                                LENGTH
                                 OVER
MANUFACTURER
               MODEL
                                       WEIGHT BEAM PRICE
                         RIG
                                 ALL
 METALMAST
             GALAXY
                        SLOOP
                                 32
                                        9,500
                                              00
 0'DAY
             32
                        SLOOP
                                 32
                                       11,000
                                               00
 RYDER
             S. CROSS
                        SLOOP
                                 31
                                       13,600
                                               00
 TA CHIAO
             FANTASIA
                        SLOOP
                                 35
                                       23,200
                                               00
 WRIGHT
             SEAWIND II SLOOP
                                 32
                                       14,900
                                               00
1
! CHECK MULTIPLE COLLECTIONS AND STATISTICAL FUNCTIONS
FIND SMALLS IN YACHTS WITH LOA<24 AND PRICE NE O
```

```
[4 records found]
```

\$29,500

\$32,500

\$34,480

```
1
FIND BIGGIES IN YACHTS WITH LOA>40 AND PRICE NE O
[5 records found]
SHOW COLLECTIONS
Collections:
        BIGGIES (also CURRENT)
        SMALLS
1
PRINT AVERAGE DISP
WEIGHT
23,130
PRINT MAX DISP
WEIGHT
26,700
PRINT AVERAGE PRICE OF BIGGIES, AVERAGE PRICE OF SMALLS
 PRICE
         PRICE
$55,307 $3,545
ł
SORT SMALLS BY LOA, DISP
SORT BIGGIES BY LOA, DISP
SELECT FIRST SMALLS
SELECT LAST BIGGIES
PRINT SMALLS.BOAT, SKIP, BIGGIES.BOAT
                                LENGTH
                                 OVER
MANUFACTURER
                                       WEIGHT BEAM PRICE
               MODEL
                          RIG
                                 ALL
 WINDFOWER
             IMPULSE
                         SLOOP
                                 16
                                          650
                                                07
                                                     $3,500
 OLYMPIC
             ADVENTURE KETCH
                                 42
                                       24,250
                                               13 $80,500
I FINAL GALA TEST!
PRINT YACHTS WITH LOA EQ MAX LOA OF YACHTS
                                LENGTH
                                 OVER
MANUFACTURER
               MODEL
                          RIG
                                 ALL
                                       WEIGHT BEAM PRICE
 OLYMPIC
             ADVENTURE
                        KETCH
                                 42
                                       24,250
                                               13
                                                    $80,500
 PEARSON
             419
                         KETCH
                                 42
                                       21,000
                                               13
!
 END OF QUERY/REPORT WRITER TEST
1
I
```

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