

# **QRYTool/400**

**Query/400 File Analysis Tool**

**Version 1**

**As of March 2003**



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## Introduction

### Overview

Since its introduction in 1988, the iSeries (originally AS/400) has included a good adhoc reporting tool called Query/400. Using any iSeries database, reports and query displays can be easily and quickly created. Many installations have even implemented Query/400 reports and displays into their production environment.

This is all well and good, until it comes time to make changes to the database. Then, you have to remember which queries on your system use the changed database and then update each one so that it will not fail the next time the query is run. If you only have a small handful of queries, this is not a problem; but if you have more than just a few, it can be quite a task identifying the queries that need to be "recompiled".

This is where QRYTool/400 comes in. Using QRYTool/400, you can analyze the queries that are defined in a specific library (or in all libraries) and then review the queries that use any specific file object. This will let you quickly identify the queries that need to be changed.

The review process is a two step process. The first part extracts information from your system about existing query definitions. Then, the second part either displays this information or lists the information on a report. You can choose to analyze the queries from a single library or from all libraries on your system. When using the on-line review option, you can even switch over to update your queries and you can also select queries to run them.

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### Installation and Security

Specific installation instructions are covered in the section of this manual titled "Installation and Configuration". To install your product on trial, follow those instruction. QRYTool/400 can be installed from distribution media supplied by Kisco Information Systems or from a download file from the Internet. The initial installation will allow QRYTool/400 to run on your system for a period of at least thirty days. At the end of the trial period, the software will no longer function.

When you decide to keep QRYTool/400 you must send your payment to Kisco Information Systems. At that time, Kisco must know the full serial number for your system. If you are

not sure of your serial number, you can display it by using the following command:

DSPSYSVAL QSRLNBR

When KIS receives your payment and serial number, they will issue a password to you. This password, when applied, will certify your copy of QRYTool/400 and will permanently activate the software on your system. The password and certification instructions will be provided in writing (by fax if your fax number is provided, otherwise by E-mail or regular mail).

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### Kisco Software Support

Kisco Information Systems provides unlimited software support during your first year of ownership. This includes the time during your free trial. Following the first year of ownership, there is a modest fee structure to maintain support for your software.

The Kisco support policy program works as follows:

1. First year support will be FREE! This includes unlimited telephone support, unlimited E-mail support, free release updates and free license transfers.
2. After the first year, an annual charge will apply for support and software maintenance.
3. The annual fee will be 15% of the current selling price.
4. Support covered by this annual fee includes:
  - a. Unlimited telephone support
  - b. Unlimited E-mail support (Support@kisco.com)
  - c. Defect analysis and correction
  - d. Free updates to correct known defects
  - e. Free license transfers
  - f. Free use of our Customer Support Website information
5. Customers who are not on maintenance will be charged \$50 for each license transfer (moving your software from one CPU serial number to a replacement CPU).

At the end of your first year of ownership, you will receive an invoice from us for your first year's maintenance charge. Non-payment of this invoice will be taken to mean that you decline maintenance.

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### World Wide Web Support

You can use the World Wide Web to reach us and to obtain software support information. Just set your web browser to our URL at:

<http://www.kisco.com>

Support information specifically for QRYTool/400 can be found at URL:

<http://www.kisco.com/qrytool>

At our Website, you will find:

- ! Product information about all Kisco software products for the IBM Midrange market.
- ! Customer support information including:
  - < Latest release level information for all products
  - < Technical bulletins
  - < Descriptions for recent enhancements to products
  - < E-mail contact information for getting in touch with us
- ! Information about consulting services available from Kisco Information Systems.
- ! ..... and more

We invite you to visit our Website, use the contact features to let us know what you think. We're always looking for ways to better serve you, our customer.

## The QRYTOOL Menu

The main menu used by QRYTool/400 is called MASTER and is found in the library KISQRY. There are several ways to display the menu. You can issue the following GO command from any terminal command line:

GO KISQRY/QRYTOOL

This method does not require that the library name be added to your library list. You can also add the library to your library list and display the menu with an easier format. To add the library to your library list, enter the following:

ADDLIBLE KISQRY

Following this add, you can display the menu by keying the following:

GO MASTER

The main QRYTool/400 menu appears as follows:

```

                                QRYTOOL Menu
KISCO                               1/14/03
USERID                             12:44:07
                                Select one of the following:

                                Command
                                ANZQRYFIL
                                QREVIEW
                                QREVIEWP

                                1. Analyze Query Definitions
                                2. On-Line Analysis Review
                                3. Reprint the last report

                                20. To INSTALL Menu

                                90. Signoff

```

The three main menu items listed will perform the functions indicated. Each function will be discussed in more detail in the following sections of this documentation. The OS/400 commands needed to run each menu option are listed to the right of the option. These

commands are in the KISQRY library. You can make copies of them in one of the general purpose libraries on your system, such as QUSRSYS, for ease of use once you have decided to keep QRYTool/400 on your system.

## Analyze Query Definitions

This process will identify the query definitions in the selected library (or libraries) and either print a report or bring up a display for your review. When you select the menu option, QYTool/400 will prompt the OS/400 command as follows:

```

                                Analyze Query Definitions (ANZQRYFIL)

Type choices, press Enter.

Library name . . . . . Library name, *ALL
Jobque name . . . . . Jobque name, blank runs onlin
Select file . . . . . *ALL          Select file
Analysis output type . . . . . *DISPLAY *PRINT, *DISPLAY

                                Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys

```

Fill in the options as follows:

**Library name**      Enter the library name for the queries that you want to analyze. If you want to analyze the queries on your entire system, use the special value \*ALL. **NOTE:** We recommend that you run the \*ALL option in batch. Running this option on-line will take a long time and adversely affect the performance of your system.

**Jobque name**      If you want to run the analysis process in batch, enter the name of a jobque on your system here. If you leave this parameter blank, the analysis will run interactively.

Select file            If you want to limit the results of the analysis to a single file, enter the name of that file here. To analyze for all files, then use the special value \*ALL.

Analysis output type    Select one of the following values:

\*DISPLAY    The results of the analysis will be displayed as soon as the analysis has been compiled.

\*PRINT      The results of the analysis will be printed on a report.

NOTE: If you choose to run the analysis step in batch, then this parameter will be forced to \*PRINT.

## On-Line Analysis Review

The easiest way to review the results of the query analysis is with the on-line analysis review. When you select this option, a display will show similar to the following:

Review Query Analysis					KQREVI	
Type options, press Enter.						
5=Display		9=Run Query				
File	File	File	Library	Query		
Opt Library	Name	Exist	Name	Name	Query Description	
NEIL	SRDSFILE	N	SQAD	SRDSFILEA	Active clients	
SQAD	ASAPPF	Y	SQAD	SQADPCLIST	SQAD\PC, SQAD for Windows	
SQAD	INVHEAD	Y	SQAD	BILLRANGE	Billing History by Selecte	
SQAD	INVHEAD	Y	SQAD	BILLRANGEX	Billing History by Selecte	
SQAD	INVHEAD	Y	SQAD	QTAPSCANO		
SQAD	PC010P	Y	SQAD	SPARCDISK		
SQAD	PROD010P	Y	SQAD	PROD010P	List SQADPROD Product Code	
SQAD	SPC015P	Y	SQAD	SQADPC	Neil's SQAD\PC file	
SQAD	SQADNAME	Y	SQAD	CLIENT\$	Active clients with \$	
SQAD	SQADNAME	Y	SQAD	CLIENTEMAG	Active CLIENTS-AGENCIES Em	
SQAD	SQADNAME	Y	SQAD	CLIENTL	Active clients	
SQAD	SQADNAME	Y	SQAD	SRDSFILE	Active clients	
SQAD	SQADPROD	Y	SQAD	MMG\$	Listing of MMG Clients	
SQAD	SQADPROD	Y	SQAD	MMGNAMES	Listing of MMG Clients	
SQAD	SQADPROD	Y	SQAD	QMMG01		
					More...	
F3=Exit	F5=Refresh	F8=WRKQRY	F9=Alternate View			

This display shows the files used in each Query in the analysis. The files are listed in sequence by library and file name. Using this display, you can quickly find any file that is used in a query on your system and see which query definitions is uses. From this display, you can call Query/400 using the F8 function key to work on queries that need to be updated. You can also use option 9 on any line item displayed to run the query shown on that line.

For an alternate view of the Query analysis, press the F9 function key. This will change the display so that it is presented in sequence by Query Definition and file. This will let you review which files are associated with a specific Query definition.

### Reprint Last Report

This option on the menu will let you print the last analysis report. If you ran the option for \*DISPLAY output, you can still use this option to print the report.

---

## Installation and Configuration

Before any QRYTool/400 functions will work, the initial install procedure must be run. QRYTool/400 can be installed from media received with a shipment from Kisco Information Systems or from a download file obtained from the Internet. If you received a direct shipment from Kisco, use the *Installation from Media* instructions. If you downloaded a file from the Internet, use the *Installation from Internet* instructions. Both follow.

---

### Installation from Media

You can install QRYTool/400 by following these easy instructions:

1. Sign on using the QSECOFR id.
2. Place the installation diskette or tape in your system and key the following command:

**LODRUN DEV( **xxxx** )**

where xxxx is the name of your CD-Rom or tape drive. If you are loading from your AS/400 CD drive, the installation objects are all in the root directory ('/') for the CD path.

3. During installation, QRYTool/400 does the following:
  - ! Checks to see if this is a new install or an update install.
  - ! For update installs, the old QRYTool/400 program library is saved in library KISQRYOLD and history information is transferred to the newly installed library.
  - ! For new installs, the software is initialized for the free 30 days trial period.
  - ! Additional documentation is printed which covers topics that have been added or changed since the user documentation manual was last printed.
4. When the command finishes, the QRYTool/400 Master Menu will be displayed.

When the procedure finishes, your copy of QRYTool/400 will be successfully installed for your thirty day trial period. At the end of the trial period, QRYTool/400 will cease functioning until either an extension password or a permanent password is entered. The additional documentation printed during the installation covers features and functions that

have been added or changed since your copy of the manual was printed. Before using QRYTool/400, please review this manual and the additional documentation in detail.

If you upgraded from an earlier release of QRYTool/400, you may delete the library named KISQRYOLD created during the installation after you are certain that the new release is working to your satisfaction.

### Installation from Internet

To install QRYTool/400 on your system from the KISQRY.ZIP file you received via E-mail or Website Download, please follow these exact instructions:

1. Sign on to your system using the special IBM-supplied user profile QSECOFR.
2. Run the following command:

```
CRTSAVF FILE(QGPL/KISCO) AUT(*ALL)
```

3. Run the following command to start FTP on your system:

```
STRTCPSVR *FTP
```

Note: This may not be required if you normally keep the FTP server active on your system.

4. From your PC, create a folder on your desktop named TEMP and move the KISQRY.ZIP file into it, then unzip it to create the installation file named KISQRY.400.
5. From your PC, start an FTP session with your system. When FTP has started, type the following FTP commands:

```
BIN
PUT KISQRY.400 QGPL/KISCO
```

6. Now go back to the AS/400 command line and run the following command:

```
RSTLIB SAVLIB(KISQRY) DEV(*SAVF) SAVF(QGPL/KISCO)
MBROPT(*ALL) ALWOBJDIF(*ALL)
```

7. Type the following command on the AS/400 command line:

GO KISQRY/INSTALL

8. When the INSTALL menu is displayed, type menu option #1 to complete the installation process. When this command is finished, QRYTool/400 will be installed on your system for your FREE 30 DAY TRIAL.
9. To start using QRYTool/400, display the user menu by keying the following command:

GO KISQRY/QRYTOOL

During the final install processing, a document called "Additional Documentation Topics" will print. This includes the latest system changes and documentation since the last time the user manual was updated.

When you have completed your evaluation of QRYTool/400, you may purchase a permanent installation copy by contacting us and arranging payment.

## The Install Menu

When you select item 20 from the QRYTOOL menu, the installation menu is displayed as follows:

```

INSTALL                                INSTALL Menu

Select one of the following:

    1. Run initial install procedure
    2. Display installation status
    3. Change installation status
    4. Print documentation
    5. Display Software Version Information
    6. Process Kisco PTF Package

20. To Main Menu

                                     (c) 2003 Kisco Information Systems

====>

```

Menu items perform the following functions. Each function is discussed in greater detail later in this document:

- |                                    |  |
|------------------------------------|--|
| 1. Run initial install procedure - | Do not use this option unless directed to do so by Kisco Support staff. This option is automatically run during normal install processing. |
| 2. Display installation status -   | Displays a screen showing the current installation status for the software.  |
| 3. Change installation status -    | Displays the current software installation status and allows for changes to be made.   |
| 4. Print documentation -           | Prints additional documentation topics to the default print device.  |

- 5. Display Software Version - Information - Displays the installed version of this software product
- 6. Process Kisco PTF package - Allows you to process a corrective PTF package received from Kisco for program fixes.
- 20. To Main Menu - Will display the QRYTool/400 main menu.

### Display installation status

At any time, you can check the current installation status of your copy of QRYTool/400 by selecting this menu option. You must be signed on with security authority of QSECOFR or equivalent. The following screen will be displayed:

```

Free Trial -- Dynamic Software Security -- INSTALLATION Procedure

Installation for      KISQRY      Developer ID code  KISCO

Machine serial number 1010788      Current Library    KISQRY
                        Sec.serial number 1010788
                        Sec.install date. 030101
Machine run date.... 021231      Sec.expire date.. 999999

Security Status (CURRENT STATUS).....Z-nnn

Please enter:

Type of install ..... _      T for trial, or P for permanent

Install password .... _____ Blank for trial, or permanent pswd
New expire date..... _____ Blank for trial, or 999999 for perm

Cm3,7-Return to menu      HELP          ENTER-process install

Free Trial (c)1990 Kisco Info Systems

```

The message at the center of the screen indicates your current installation status. You should also check the Sec.expire date for an expired trial period. QRYTool/400 may still show as installed on a trial basis but, if the trial is expired, it will no longer function.

The following are the possible status messages that can appear on this display:

<u>Message</u>	<u>Explanation</u>
Z-001 NOT INSTALLED	Trial installation not started
Z-002 TRIAL EXPIRED	Trial period has ended
Z-003 PERMANENTLY INSTALLED	Software is permanently installed
Z-004 INSTALLED ON TRIAL	Software is installed on trial
Z-005 PASSWORD NOT ACCEPTED	Password keyed is not valid
Z-006 WRONG LIBRARY	Programs must run from our library
Z-007 PLEASE RUN TRIAL INSTALL	Must have trial install before perm.
Z-008 INVALID INSTALL REQUEST	Must be P or T

Z-009 INVALID SECURITY (REC#6)	Call Kisco
Z-010 INVALID SECURITY (NO ZZ)	Call Kisco
Z-011 INVALID SECURITY (HASH.)	Call Kisco

### Change installation status

To make changes to your installation status, use this menu option. The changes processed can include both a trial period extension and permanent installation. You must be signed on with QSECOFR security authority or equivalent. When you select this option, the following screen is displayed:

```

Free Trial -- Dynamic Software Security -- INSTALLATION Procedure

Installation for      KISQRY              Developer ID code  KISCO

Machine serial number  1010788          Current Library    KISQRY
                               Sec.serial number  101078
                               Sec.install date.  030101
Machine run date....   021231          Sec.expire date..  999999

Security Status (CURRENT STATUS MSG).....Z-nnn

Please enter:

Type of install ..... _      T for trial, or P for permanent

Install password .... _____ Blank for trial, or permanent p
New expire date..... _____ Blank for trial, or 999999 for

Cm3,7-Return to menu      HELP              ENTER-process ins

Free Trial (c)1990 Kisco Inf

```

### Trial extension

To extend a trial period, contact Kisco Information Systems and request an extension. We will provide you with an extension password and new expiration date. On the above screen, enter the following:

Type of install	Enter 'T' for trial
Install password	Enter all six digits of the extension password provided, including any leading zeros
New expire date	Enter the new expiration date in the format YYMMDD (ie: Jan 12, 2003 would be 030112)

When the parameter fields have been completed, press enter to reactivate your software.



### Permanent installation

To permanently install your software package, use the permanent password provided by Kisco Information Systems following receipt of payment. On the above screen, enter the following:

Type of install	Enter 'P' for permanent
Install password	Enter all six digits of the extension password provided, including any leading zeros
New expire date	Enter all 9's (ie: 999999)

When the parameter fields have been completed, press enter. Your software is now permanently installed.

### Print additional documentation

At any time, you can reproduce the additional documentation by using this menu option. A full copy of the additional documentation topics will be printed.

## Process Kisco PTF Package

QRYTool/400 supports distribution of program updates remotely via the Internet. When programs in QRYTool/400 are updated or program fixes are required, Kisco Information Systems can send the updates directly to you via the Internet. If needed, we will send E-mail to you with an attached PC file. This file, when loaded into a folder on your system, can be used to post program updates and changes to your copy of QRYTool/400.

When you receive a PTF update package from Kisco, you will be given an eight character PTF Package Name. To load and apply the PTF to your system, follow these steps:

### Step# Instructions

1. Create a folder on your system named KISCO. You can do this with the following command:

CRTFLR FLR(KISCO)

Note: If you have received other PTFs from Kisco in the past, this folder may already exist on your system. There is no need to re-create it again at this point.

2. Store the PTF file received from Kisco on your PC in a temporary folder.
3. From your desktop, click on the AS/400 Operations Navigator. When it opens, all operations here will take place on the right side of the display box. Click on the following sequence of items displayed:
  - Your AS/400 location
  - File Systems (Note: if this does not appear, you will have to install additional Client Access functions on your PC to complete this procedure.)
  - Integrated File System
  - QDLS
  - Kisco

Now drag and drop the PTF file from the temporary folder on your PC desktop into the right-hand box of the Operations Navigator display. This will transfer the file into the AS/400 shared folder environment.

4. Sign on to any terminal or terminal session as QSECOFR.
5. Make sure that no QRYTool/400 functions are in use and that no users are logged

into any QRYTool/400 menu.

6. Type the following command:

KISQRY/KISPTF

and press the F4 prompt key. You can also choose option #6 from the INSTALL menu.

7. The command will prompt for two values. The first is the name of the QRYTool/400 application library and should not be changed. The second command must contain the eight character name of the PTF Package File. When both parameters are set, press ENTER and the PTFs will be loaded and applied to your copy of QRYTool/400.
8. All Kisco PTFs are loaded so that the prior version of any program objects is saved. This will allow for the effects of a PTF to be reversed at a later time should a defect be identified in the PTF. This can only be done via direct instruction from a Kisco support representative.

During the PTF installation process, two printouts will be created. One of these will be the PTF Cover Letter Documentation; the other will be a fresh update of the additional documentation topics for all QRYTool/400 changes. Kisco recommends that you read both documents before starting to use QRYTool/400 again.