

OBJECT ANALYSIS (OA) QUICK START

After you have installed the TOTAL/400-DU Documentation Utility, you should create a CL program to analyze your application libraries. This program will build the TOTAL/400 database; and until this is done, only the Real-Time functions will provide any information.

Step# 1. Print TOTREFRESH and Copy to your own Source file.

WRKMBRPDM FILE(TOTALLIB/QDDSSRC) MBR(TOTREFRESH)

Enter Option: 6 to print program source.

Enter Option: 3 to copy program source to your own Source file in another Library.

Step# 2. Open your source member TOTREFRESH for editing using SEU or other utility.

Press **F3** and change the following parameters:

Change/create member = Y

Resequence member = N

Return to editing = Y

And Press the **ENTER** key. This will keep the sequence statement numbers from changing.

Step# 3. Ensure that you have the required Language installed.

IMPORTANT NOTE: US English must be installed on your system as either the primary or secondary language. If you are not sure which languages you have installed on your system, then you can Type: GO LICPGM and Enter Option: 20 to display the primary and secondary languages installed. If 2924 English is the Primary Language, then skip to Step# 4. If 2924 English is not listed as a Primary or Secondary Language, then you must install 2924 English as a Secondary language from your IBM OS400 CDs or tapes, by taking Option 21 to install.

The OA program TOTREFRESH must be run with US English as the primary language for the JOB. If 2924 English was not the Primary Language, then you must add the following statement to your version of TOTREFRESH @Line: 0396.01

```
0396.01      CHGJOB  LANGID(ENU) CNTRYID(US)      /* SET LANGUAGE */  
0396.02                                          /* TO US ENGLISH */
```

Step# 4. Modify your version of TOTREFRESH using the instructions from the TOTREFRESH listing.

Take your program listing of TOTREFRESH and goto "**INSTRUCTIONS FOR MODIFICATION TO SAMPLE PROGRAM**", about statement 145.00; and proceed with making the modifications as instructed.

Step# 5. Compile TOTREFRESH into library QGPL or other library (but not TOTALLIB).

Step# 6. Submit and/or schedule the following command.

CALL TOTREFRESH PARM('TOTALLIB' 'C')

NOTE: The OA (Object Analysis) processing can use a large amount of system resources on smaller systems; and may take from 15 minutes to 6 hours to run, depending upon system speed and the size of your applications being analyzed. It can run with other jobs (except for Backup); but it may slow the system down. Therefore, it is best to schedule the OA processing when there is little or no activity on the system.

Most shops run TOTREFRESH with a "C" update parm value on week days; and run with a "R" parm to do a complete Replace of the DB on the weekend. Normally the "C" run Option will run in about 20% of the time required to do a complete rebuild "R". However, the first time you do the Object Analysis, it will do a complete build, since the database is empty.

Step# 7. Review Source Analysis after OA has finished processing.

**ADDLIB LIB(TOTALLIB) POSITION(*LAST)
TOTAL**

Take Option: OA Object Analysis Menu

Take Option: S (SOURCE Analysis Review)

The first screen shows RPG programs that TOTAL OA could not find the Source code for. Press Enter key and see Both CL & RPG programs that Source code could not be found. Determine where the source is; and modify the TOTREFRESH TOTCHGSS command so that it will find the source.

Step# 8. Explore the TOTAL Capabilities.

Goto the Main TOTAL Menu and take Option: AF which will list all of the libraries analyzed that had files in them. Select a library and a popular file; and do a PF to see programs using the file. Now Press PF21 to see programs using the file and all related Logical files. Press Enter key as required to return to the Main Menu. Now take Option AP and erase other input fields and press Enter key. This will show all the libraries that have programs in them. Continue to explore by taking various Options on the Program displays. Also, be sure to notice if PF21 key functions are available. Also, from the Main Menu, be sure to explore the Real-Time Functions by selecting Option: RT. These functions are available for Objects that have not been analyzed; but will provide more options and info on objects that have been analyzed. Try some of them out. The "Work Data Base Files (Real-Time)" (Option: DB) is especially useful to manage all your applications' databases.

TROUBLE SHOOTING:

Step# 1. Review Job log and Error logs after OA has finished processing.

WRKOUTQ TOTALLIB/TOTALOUTQ

Take Option 5 on spool file: PRTFJLOG and review error messages if any.
Make corrections to TOTREFRESH program as required.

Take Option 5 on spool file: QSYSPRT and review error messages if any.
Make corrections to TOTREFRESH program as required.

Step# 2. CALL us if you need help or have questions. 702-240-7332