RPG TOOLBOX™

RPG Toolbox™ modernizes RPG source code and allows developers to write/maintain applications faster.

for IBM i

QuickFacts

RPG Toolbox benefits:

· **Modernizes RPG source code to the latest syntax for your OS/400 release**

· **Improves maintainability of apps with standardized and consistent source code**

· **Increases developer productivity with over 70 new programming tools**

· **Reduces training time for new RPG syntax**

· **Allows new features to be added to your applications more quickly**

RPG Toolbox will greatly improve the productivity of developers who write and maintain software on IBM i. The Toolbox allows you to modernize your RPG programs, write applications faster and maintain source code more effectively.

CRANK IT OUT!

>>Visit www.LinomaSoftware.com for more information or to download a free trial.

RPG Modernizer

RPG Toolbox will enhance your source code to take advantage of the most modern syntax available for your OS/400 release.

· Convert your RPG III and RPG/400 source to RPG IV

· Enhance existing RPG IV source

· Convert to the new /Free form syntax

Over 40 configurable options are available to allow you to customize the conversion process. The RPG Toolbox Wizard can be launched from PDM or WDSc. This proven tool has successfully converted millions of lines of source code.

· Redefine data structures to use modern syntax

· Move Calculation-defined and *LIKE-defined fields and lengths to the Definition specs

· Indent nested logic when converting to /Free form

· Convert ADD, SUB, Z-ADD, Z-SUB, MULT and DIV operations to EVAL operations

· Convert MOVE, MOVEL and MOVEA operations to EVAL operations

· Convert CAT operations to EVAL operations

· Convert SETON, SETOF and COMP operations to EVAL operations

· Convert traditional operations to their corresponding BIFs. For example, SUBST becomes %SUBST

· Insert file I/O BIFs, such as %FOUND and %EOF, under file operations

· Redefine IFxx, DOxxx, WHxx, ANDxx and ORxx expressions to use modern syntax

· Convert eligible GOTO operations

· Convert DO operations to FOR operations

· Qualify END operations (for example, an END under an IF becomes an ENDIF)

· Convert most conditioning indicators (left hand) to IF operations

· Document the beginning and ending of IF, DO, DOW, DOU, SELECT, CAS and FOR structures

· Convert CALL and CALLB operations to CALLP operations

· Highlight comment lines

· Convert source logic to lower, upper or mixed case

Example of converting a file operation to use built-in functions.

Example of converting left hand indicators and traditional operations to their / Free form equivalents.

Example of converting an ADD operation to an expression.

Before: RPG/400 source code before conversion

```
I................................PFromTo++DFldnmeL1M1FrPlMnZr.
I            DS
I                               1    7 FIRST6
I                               4    6 PREFIX
I                               1    3 AREACD
I                               1   10 PHONE


CL0N01N02N03Factor1+++OpcdeFactor2+++ResultLenDHHiLoEq
C           *LIKE     DEFN AREACD    WAREA
C* Retrieve customer record
C           CNBR      CHAINCUSTMAS              99
C* Prepare values
C                     MOVE *ZEROS   XX
C  N99                MOVE AREACD   WAREA
C  N99                EXSR PROCESS
C* Calculate
C           PROCESS   BEGSR
C                     ADD  1        XX        30
C           WAREA     IFNE *BLANK
C           XX        MULT 100      NUMBER
C                     SETON                   61
C                     END
C                     ENDSR
```

SEU Plus

RPG Toolbox adds over 70 new line commands and function keys to IBM's SEU (Source Entry Utility). This includes commands to:

- · Modernize blocks of source code
- · Color source
- · View Key lists and Parameter lists
- · Convert source to lower, upper or mixed-case
- · Quickly view compile errors in a pop-up window
- · Document and indent nested logic
- · Break and combine lines
- · Save and copy lines from memory
- · Examine field lengths and types
- · Enter long expressions
- · Plus much more

You can also easily create your own line commands to use within SEU.

Snippets

Included in RPG Toolbox are over 190 predefined source code Snippets which you can insert right from within SEU. Snippets for every /Free form RPG operation and every BIF up to V5R3 have been included. You can also quickly develop your own Snippets. This will allow you to develop new applications much more rapidly using proven source code.

"We have been using the RPG Toolbox for two years and have come to depend on the SEUPLUS portion daily. We have written numerous snippets to standardize and ease programming. It has become a must-have tool. I would recommend this product to any development shop out there. Consider the small cost an investment rather than an expense." **-Bill Barnes, The Pantry**

After: /Free form

```
DName++++++++++ETDsFrom+++To/L+++IDc.Keywords++++++++++++++++++++
D                   DS
D PHONE                          10
D  FIRST6                         7      OVERLAY(PHONE)
D   AREACD                        3      OVERLAY(FIRST6)
D   PREFIX                        3      OVERLAY(FIRST6:4)
 //
D WAREA           S                      LIKE(AREACD)
D XX              S               3  0
 /FREE
    // Retrieve customer record
    CHAIN CNBR CUSTMAS;
    *IN99 = NOT%FOUND(CUSTMAS);
    // Prepare values
    XX = *ZEROS;
    IF *IN99 = *OFF;
        WAREA = AREACD;
        EXSR PROCESS;
    ENDIF;
    // Calculate
    BEGSR PROCESS;
        XX = XX + 1;
        IF WAREA <> *BLANK;
            NUMBER = XX * 100;
            *IN61 = *ON;
        ENDIF;
    ENDSR;
 /END-FREE
```

About Linoma Software

Founded in 1994, Linoma Software provides innovative technologies to consistently meet evolving data transmission, translation, encryption and code modernization needs. Linoma Software has a diverse install base of over 3,000 customers around the world including corporations, non-profit organizations and government entities. With its dedication to research, development and superior customer service, Linoma Software is recognized as a leader in software development.

Customer Support

The success Linoma Software has achieved is largely based on our customer-centric approach to the markets we serve. Providing the highest level of customer support is Linoma's number one priority.

Linoma is able to quickly and efficiently troubleshoot any issues that may occur through phone, e-mail and live online assistance.

Technical Specifications

RPG Toolbox for IBM i

Operating System:	OS/400 V4R2 or higher
Disk Space:	25 MB

"We successfully converted our entire banking application (over 13,000 RPG programs) using RPG Toolbox. RPG Toolbox addressed all our conversion requirements and is by far the most robust RPG conversion utility we tested. We recommend it to all our clients."

-Darrell Priddy, Fiserv, Inc.

"I found the new RPG Toolbox Snippet and SEUPLUS line commands very helpful and both should help in reducing development time for our staff."

-Jonathan Warren, KLLM Inc.

"Have really enjoyed RPG Toolbox. It has been a great teaching tool. We converted all of our old RPG source to ILE at once and all of us have been writing ILE code ever since. My manager said that was some of the best money he had ever spent."

-Tim Lord, HPS

"My favorite part of the RPG Toolbox is the RPG Wizard. Where I work they have tons on RPG III code. I refuse to maintain it unless I can convert it to RPG IV using the Toolbox... We LOVE the RPG Toolbox here!"

-Bob Twigg, Tim-Bar Corporation

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