

# RPG TOOLBOX™

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

*for IBM i*

## Quick Facts

### RPG Toolbox benefits:

- Modernizes RPG source code to the latest syntax for your IBM i 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 is so good that I don't even bother to test a program after conversion because after converting hundreds of source members, I've never encountered a problem. Overall this is a 'must have' utility for RPG programmers!"*

*-Tim Phinney, MG Maher*

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

Linoma's RPG Toolbox updates your RPG source code with the most up-to-date syntax and style available for your IBM i release.

There are four types of conversions that can be performed through the RPG Toolbox:

- Convert RPG III and RPG/400 source code to modernized RPG IV syntax.
- Update existing RPG IV source code to take advantage of the most modern syntax available for your IBM i release.
- Convert RPG IV fixed-format Calculation specifications to the free-form syntax.
- **NEW!** Optionally convert H, F, D and P specifications to the totally free-form syntax.

The conversions can be performed from IBM's RDi development environment, PDM or from SEU. The flexibility of the RPG Toolbox allows you to convert entire source members or just blocks of source code within a member.



>>Visit [www.LinomaSoftware.com](http://www.LinomaSoftware.com) for more information or to download a free trial.

# Free-form Conversion Example

With version 5.0 of the RPG Toolbox, it can now convert most fixed format specifications (H, F, D, C and P) into free-form syntax. The following is an example of how the RPG Toolbox converts fixed-format RPG source code into totally free form RPG. This version of free form was supported by the RPG compiler in IBM i V7R1 technology refresh 7.

## Before conversion:

```
H* Control Specifications
HDATAFMT(*USA) COPYRIGHT('LINOMA SOFTWARE')

F* File Specifications
FCDLCM1      IF A E              K DISK      RENAME(CDRCM:CDRCM2)

D* Data Structure
DPhoneDS          DS
D AreaCode                1      3
D Prefix                 4      6
D Last4                  7      10

D* Stand-alone fields
D TotalTax              S              9  2
D INVTOTAL              S              7  2

C      *LIKE              DEFINE      CMCRLM          CRLIMIT
C* Chain to Customer file
C              MOVE      '000001'      CMIDNO
C      CMIDNO            CHAIN      CDLCM1              99
C* Found-> Process credit limit
C      99              MOVE      CMCRLM          CRLIMIT
C      99              EXSR      PROCESS

C* Return to caller
C              SETON              LR
C              RETURN

C* Process credit limit
C      PROCESS          BEGSR
C      CRLIMIT          IFGT      10000
C              SETON              61
C              MOVEL      'ABC COMPANY' CMNAME
C      CRLIMIT          SUB      INVTOTAL          REMAIN          9  2
C              END
C              ENDSR
```

## After conversion:

```
// Control Specifications
CTL-OPT DATFMT(*USA) COPYRIGHT('LINOMA SOFTWARE');

// File Specifications
DCL-F CDLCM1 DISK(*EXT) USAGE(*INPUT : *OUTPUT)
      KEYED RENAME(CDRCM:CDRCM2);

// Data Structure
DCL-DS PhoneDS;
      AreaCode CHAR(3);
      Prefix CHAR(3);
      Last4 CHAR(4);
END-DS;

// Stand-alone fields
DCL-S TotalTax PACKED(9 : 2);
DCL-S INVTOTAL PACKED(7 : 2);
DCL-S CRLIMIT LIKE(CMCRLM);
DCL-S REMAIN PACKED(9 : 2);
// Prototype for PROCESS
DCL-PR PROCESS;
END-PR;

// Chain to Customer file
CMIDNO = '000001';
CHAIN CMIDNO CDLCM1;
*IN99 = NOT %FOUND;
// Found-> Process credit limit
IF *IN99 = *ON;
      CRLIMIT = CMCRLM;
      PROCESS();
ENDIF;
// Return to caller
*INLR = *ON;
RETURN;
// Process credit limit
DCL-PROC PROCESS ;
      IF CRLIMIT > 10000;
            *IN61 = *ON;
            %SUBST(CMNAME:1:11) = 'ABC COMPANY';
            REMAIN = CRLIMIT - INVTOTAL;
      ENDIF;
END-PROC PROCESS;
```



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## 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 Software is able to quickly and efficiently troubleshoot any issues that may occur through phone, email and live online assistance.

## Technical Specifications

### RPG Toolbox for IBM i

Operating System:	V5R1 or higher
Disk Space:	15 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**



Visit [www.LinomaSoftware.com](http://www.LinomaSoftware.com) for more information or to download a free trial.

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