

RLX/Translate

Convert your TSO CLISTs to the REXX fast track!



RLX/Translate
is the easy,
cost effective
way to convert
TSO CLISTs into
REXX execs.

Improve

- **performance**
(up to 3 times)
- **program**
quality
- **developer**
productivity

Overview

REXX is the modern, high performance successor to the TSO CLIST language. Now you can convert your entire portfolio of CLISTs into functionally equivalent REXX execs — reliably, accurately and completely — using RLX/Translate.

Most CLISTs translate successfully into REXX execs that produce the same results as the original procedure. In exceptional cases, the translated code in need of review is highlighted so you can complete the conversion with minimal effort. Each RLX/Translate job ends with a message and return code to indicate whether the translated REXX exec can execute “*as is.*”

RLX/Translate

- is available as a standalone product or as part of a conversion service
- can be invoked via JCL or through an ISPF dialog
- produces cross references of symbols, commands, functions and ISPF services
- is easily installed and administered

Benefits

RLX/Translate delivers all the advantages of REXX sooner than you ever thought possible:

- REXX execs run significantly faster than their TSO CLIST counterparts
- REXX is more powerful, versatile and extensible than CLIST language
- REXX natively supports SQL and VSAM (through the RLX family of REXX Language Xtensions)
- REXX execs can be compiled to further improve performance and protect them from modification
- Libraries of CLISTs can be easily and economically retired and subsequently maintained as REXX procedures
- REXX execs are portable across multiple platforms

Translation Example

The TSO CLIST in Figure 1 displays information about the user's allocated files and datasets through a scrollable ISPF dialog. The REXX exec produced by RLX/Translate appears in Figure 2. The CLIST in Figure 1 consumes 2.5 times as much CPU as its translated REXX counterpart.

```
PROC 1 POSITIONAL KEYWORD('DEFAULT')

WRITE HELLO &SYSUID THE DATE IS &SYSDATE AND THE TIME IS &SYSTIME

ISPEXEC TBCREATE LISTA NAMES(LISTTEXT) /* create a temporary ISPF table
SET SYSOUTTRAP = 999 /* Set the maximum number of output lines to trap
LISTA STATUS HIST /* Obtain allocated file and dataset information
SET LIMIT = &SYSOUTLINE /* Obtain the number of lines of trapped output

/* Map the output trapped from the LISTA command into the ISPF temporary table

SET INDEX = 1 /* Start with the first line
DO WHILE &INDEX < &LIMIT /* Continue for all lines
SET OUTLINE = &&SYSOUTLINE&&INDEX /* Get the current output line
SET LISTTEXT = &STR(&OUTLINE) /* Copy into the ISPF table row variable
ISPEXEC TBADD LISTA /* Add the row to the ISPF table
SET &INDEX = &INDEX + 1 /* Step to the next output line
END
ISPEXEC TBTOP LISTA /* Position to the top of the display
DO WHILE &LASTCC = 0 /* Continue until the user presses END or RETURN
ISPEXEC TBDISPL LISTA PANEL(LISTA) /* Display and scroll the Output
END
ISPEXEC TBEND LISTA /* Remove the ISPF temporary table
EXIT CODE(&LASTCC)
```

Figure 1: TSO CLIST which displays file and dataset allocations

```
/* REXX */
Address TSO
Arg ParmString
Interpret RCT$PROC(ParmString,"PROC 1 POSITIONAL KEYWORD('DEFAULT')") /* note 1 */
Say "HELLO" SysVar('SYSUID') "THE DATE IS" Date('U') "AND THE TIME IS"
Time()
Address ISPEXEC "TBCREATE LISTA NAMES(LISTTEXT)"
Do
RCT_OUTTRAP_61187 = OUTTRAP(SYSOUTLINE,999)
SYSOUTTRAP = 999
end
"LISTA STATUS HIST"
LIMIT = SYSOUTLINE0
INDEX = 1
Do while INDEX < LIMIT
OUTLINE = Value(SYSOUTLINE||INDEX)
LISTTEXT = OUTLINE
Address ISPEXEC "TBADD LISTA"
INDEX = INDEX + 1
end
Address ISPEXEC "TBTOP LISTA"
Do while Rc=0
Address ISPEXEC "TBDISPL LISTA PANEL(LISTA)"
end
Address ISPEXEC "TBEND LISTA"
Exit(Rc)
```

Figure 2: Translated REXX exec

Note 1: The RCT\$PROC function supplied with RLX/Translate fully supports the CLIST PROC statement.

Fast track migration options

RLX/Translate is available as a standalone product or as part of a comprehensive conversion service. Both product and service pay for themselves quickly in terms of improved performance, program quality and developer productivity.

- The conversion service and translation software can be customized to reinforce your organization's standards and policy.
- On-site or remote conversions
- Fixed price conversions
- REXX training and consulting

Restrictions

RLX/Translate supports all releases of the CLIST language. The only restrictions involve CLIST functions without analogous REXX facilities and the REXX imposed limit of 500 characters on the length of clauses.

Prerequisites

RLX/Translate runs with all releases of z/OS or OS/390 whose IBM support is current.

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CLIST**

Conversion!

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