RLX / VSAM

The REXX interface to VSAM

- **Familiar MVS VSAM interface**
- **Optimized for shareability and performance**
- **Supports ESDS, KSDS, RRDS, VRRDS and LDS file types**
- **Operates in all z/OS address spaces that support REXX**

Overview

RLX/VSAM provides a direct VSAM interface that's native to REXX.

Developers familiar with the VSAM interface can immediately use RLX/VSAM to prototype, develop and test VSAM applications — without compile and link edit steps. Without even leaving Edit!

RLX/VSAM is a member of the RLX family of **REXX L**anguage e**X**tensions that endow REXX with additional capabilities — such as VSAM access, native SQL support, and a robust Software Development Kit. There's even PDS member and directory support for VSAM. RLX enhancements make REXX the ideal Rapid Application Development tool with ample power to tackle the kinds of applications once written in COBOL, PL/1, C — even Assembler language!

- Develop business applications to access new and existing VSAM files
- Access SMF data natively in REXX
- Develop PDS type applications using shareable, high performance VSAM files
- Access change control information maintained by products such as Endeavor™
- Develop NetView automation procedures that access shared VSAM files

Benefits

- Improves productivity, streamlines application development and reduces costs
- Leverages expertise in REXX and VSAM
- Requires *far less* coding than VSAM access via compiled and assembled languages
- VSAM provides better multi-user support than ISPF tables
- Translates VSAM codes into meaningful messages

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RLX/VSAM Services

RVOPEN	Opens VSAM files
RVCLOSE	Closes VSAM files
RVGET	Reads records from VSAM files
RVPUT	Insert and updates records in VSAM files
RVERASE	Deletes records from VSAM files
RVENDREQ	Releases VSAM control intervals
RVPOINT	Positions within VSAM files
RVVERIFY	Verifies and synchronizes end-of-data on VSAM files

RLX/VSAM Coding Example

```
/* REXX */
address tso
"Allocate file(VSAMFILE) DA('VSAM.DATASET') shr"                    /* 1 */
call RvOpen 'VSAMFILE','(SEQ,IN)'                                   /* 2 */
vsam_record = RvGet('VSAMFILE')                                     /* 3 */
Do while rc = 0                                                     /* 4 */
   Say 'VSAM record =' vsam_record
   vsam_record = RvGet('VSAMFILE')                                  /* 5 */
End
call RvClose 'VSAMFILE'                                             /* 6 */
'free fi(VSAMFILE)'                                                 /* 7 */
Return 0
```

This exec accesses a VSAM dataset sequentially until it reaches end-of-data.

(1) Allocate the VSAM dataset to the file named VSAMFILE

(2) Open the file for sequential, read-only access

(3) The RVGET function assigns the contents of the VSAM record to the REXX variable vsam_record

(4) RLX/VSAM updates the value of the REXX variable RC after each request. This enables the loop to detect end-of-file.

(5) RVGET (and all other RLX/VSAM services) return VSAM feedback into a set of REXX variables your exec can reference to obtain such information as the key, RBA or RRN of the record or control interval just accessed, its contents and length, etc.

(6) Close the file and terminate processing of the dataset

(7) Free the file and its associated VSAM dataset

Features

- Supports all VSAM ACB and RPL options
- Supports all read, write and delete operations on VSAM files
- Provides ESDS, KSDS, RRDS and VRRDS access on a record and control interval basis
- Supports control interval access to VSAM linear datasets
- Supports sequential record access as well as direct access by key value, relative record number and relative byte address
- Supports concurrent access to an unlimited number of VSAM files
- Supports ISPF split screen mode, multi-tasking and file sharing
- Returns VSAM data and feedback directly into REXX variables
- Supports interpretive and compiled REXX applications
- Includes numerous sample execs and VSAM utilities
- Provides an ISPF dialog to allocate VSAM files and issue Access Method service commands
- Runs everywhere REXX does — including batch, TSO, ISPF, NetView, Db2 stored procedure address spaces, IPCS, and vendor automation products that support REXX scripting

Prerequisites

RLX/VSAM runs with all releases of z/OS whose IBM support status is current.

Do it All in REXX!

Contact the REXX experts at

800 776-0771

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