

# FDRREORG

## INTELLIGENT VSAM RE-ORGANISATION

### z/OS Storage Management

*Many applications running under z/OS still use VSAM as the underlining file structure. Some VSAM files can be very heavily used and can become extremely large. As usage and/or size of a VSAM file increases, the performance of the application(s) using that file can be significantly impaired. A re-organisation of the VSAM file can improve the performance, but the tools used for re-organisation are often slow and lack automation...*

#### Intelligent VSAM Re-Organisation

FDRREORG offers a faster, flexible and efficient way of re-organising your VSAM KSDS and AIX data sets.

#### Intelligent IAM Re-Organisation

Users of the Innovation Access Method (IAM) can also use FDRREORG to re-organise their IAM files. See separate IAM information sheet for more details.

#### PDS Compression

FDRREORG can also be used to compress PDS data sets, by placing all active members to the beginning of the PDS to allow room for new members to be added.

This is similar to an IEBCOPY compress-in-place, but can be 50-90% faster, with similar reductions in CPU and I/O.

#### Key Benefits

- Save time and resources (e.g. CPU) by only re-organising the VSAM files that really need it.
- Reduce application downtime by speeding up the VSAM re-organisations that do need to be run.
- Improve application performance by ensuring that all poorly organised files are included in the re-organisation process.

#### Feature Summary

- FDRREORG offers an intelligent re-organisation of VSAM (and IAM) files.
- User-specified selection criteria ensure that only the files that really need re-organising are selected.
- Files that do not need a re-organisation are automatically bypassed.
- FDRREORG can also compress, expand or empty PDSs.
- PDS expansion can be done based on %Free.
- User requests for an IEBCOPY “compress in place” of a PDS can be intercepted by FDRREORG.

#### Moving and Consolidating VSAM

FDRREORG can move or consolidate multi-volume VSAM files from one location to another – e.g. a VSAM file spread over several 3390-3s can be consolidated onto a single 3390-9 with FDRREORG.

#### User Quote

*“We run FDRREORG every night. We never re-organise anything that doesn’t need it and, more importantly, we never miss anything that really does need to be re-organised...”*

# FDRREORG

## INTELLIGENT VSAM RE-ORGANISATION

### Intelligent VSAM Re-Organisation

FDRREORG provides a faster, more efficient and more flexible alternative to IDCAMS for logically reorganising VSAM KSDS, AIX and IAM data sets.

As with IDCAMS, a VSAM file selected for re-organisation by FDRREORG is backed up to a sequential file on disk or tape and then re-loaded, eliminating any CI/CA splits. Where FDRREORG differs from IDCAMS is that the re-organisation process can be based on user-specified selection and exclusion criteria,

allowing VSAM data sets to be re-organised on an "as-needed" basis.

In the example below, VSAM files with a high-level qualifier of ACCOUNT will be re-organised, but only if they have more than 5% CA Splits and/or 10% CI splits. MODE=PARALLEL causes FDRREORG to create multiple backup tasks to backup specific portions of the dataset (this is only possible with multi-volume datasets). MAXP then controls the actual number of backup tasks that can be used per dataset.

```
//REORG EXEC PGM=FDRREORG,REGION=OM
//SYSPRINT DD SYSOUT=*
//REORGPRT DD SYSOUT=*
//REORGRPT DD SYSOUT=*
//SYSIN DD *
REORG BACKUP=GDG,BACKUPUNIT=TAPE,BACKUPINDEX=++BACKUP,
MODE=PARALLEL,MAXP=3
SELECT CATDSN=ACCOUNT.**,DSTYPE=VSAM,IFANY,CASPLITR>5,CISPLITR>10
```

### Simulation & Reporting

A simulation mode is provided with FDRREORG to allow you to test and verify the selection criteria *before* you run the re-organisation for real.

And, after an execution of FDRREORG, a summary report like the one shown below is produced to show which files were selected for processing, together with information about their before/after status:

DATASET NAME	VOLUME	AM	STATUS	CISR	CASR	TRKS USED	TRKS ALOC	PCT USE	NUM EXT	RECORDS		TRKS USED	TRKS ALOC	PCT USE	NUM EXT
				%OFU DIRU	%PEU DIRA					LOADED	DIRA				
PROD.ACCTPAY.MASTER	PROD01	VS	REORGANIZED	13	27	55	55	100	10	5125		45	55	82	10
PROD.ACCTPAY.ALTMASR	PROD01	VS	REORGANIZED	26	53	85	85	100	16	7367		50	85	59	16
PROD.HRIS.EMPLOYEE.MASTER	PROD02	VS	REORGANIZED	49	47	95	95	100	18	10137		70	95	74	18
PROD.PAYROLL.MASTER	PROD03	VS	REORGANIZED	13	27	55	55	100	10	5226		45	55	82	10
PROD.PAYROLL.SUSPENSE	PROD03	VS	REORGANIZED	23	39	65	65	100	12	6124		45	65	69	12
SMPE.SP223.CSI	DLIB01	VS	REORGANIZED	5	16	1305	1350	97	1	99200	1125	1350	83	1	
SMPE.SP422.CSI	DLIB01	VS	REORGANIZED	2	6	780	900	87	1	65222	735	900	82	1	
SMPE.GLOBAL.CSI	DLIB01	VS	REORGANIZED	56	70	300	330	91	1	21805	150	330	45	1	

**Want to Know More About FDRREORG?** For a No-Obligation FREE Trial or to request a FREE Concepts & Facilities Guide, ask your local sales representative or visit: <http://www.innovationdp.fdr.com>



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