

# FDRARC

## DATA MIGRATION & SPACE MANAGEMENT

### z/OS Storage Management



*Although the price per megabyte of z/OS disk storage has dropped dramatically over the past few years, the demand for disk space continues to increase in most installations.*

*Regardless of its cost, Storage Managers still have to ensure that sufficient disk space is available to the right people at the right time.*

*For this reason, the availability of z/OS disk storage and, more importantly, its efficient utilization, remain key areas of the z/OS Storage Manager's role...*

#### Introducing FDRARC

FDRARC is a high-performance data archival tool that can be used to control the consumption of your z/OS disk storage.

With FDRARC, unwanted and expired data sets can be quickly and efficiently migrated to a less expensive medium, such as a high-capacity tape, a VTS, or to a compressed format on another disk. Migrated data sets are recorded in a control file and recataloged to a volser of MIGRAT.

FDRARC's auto-recall facility ensures that a migrated data set can be easily and transparently recalled to disk if it is referenced by a batch job, online application, or an end-user.

#### Benefit

With FDRARC, you can ensure an efficient utilization of your z/OS DASD by moving unwanted or expired data sets to a less expensive medium (e.g. tape).

FDRARC's efficient control file structure, coupled with its utilization of FDRABR's high-performance data mover, means that you can carry out regular data migration of eligible data sets without impacting on day-to-day operations.

#### Key Points

- FDRARC can be installed and operational in less than an hour.
- When operating in a DFSMS environment, it can utilize the "space management" criteria set in the DFSMS Management Class for each data set on each volume processed.
- FDRARC can be used on a single volume, a pool of volumes, or your entire DASD subsystem.
- Thresholds can be established on volumes so that FDRARC space management can be invoked to maintain a certain level of free space within the DASD storage pool.
- FDRARC can also be used in non-DFSMS environments, such as development or testing systems, where user data often goes unused for long periods of time.

#### User Experience

*"We use FDRARC to keep old or unused data sets off our primary disk volumes. As well as saving disk space, this also ensures that we only back up files that have been used recently – even when we run our weekly fulls with FDRINC..."*

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### FDRQUERY

FDRARC (and FDR) include a report utility called FDRQUERY, which can be used to illustrate the effects of a data migration policy against one or more disk volumes using a range of "not-referenced" criteria. In the example below, we are looking at all volumes belonging to the DFSMS Storage Group called 'DEV'. The details for one volume (DEV002) are shown, together with the Summary report for all 6 volumes in the Storage Group.

```
//QUERY      EXEC PGM=FDRQUERY
//SYSPRINT   DD  SYSOUT=A
//SYSIN      DD  *

REPORT ARCHIVE,STORGRP=DEV
```

#### SUMMARY LEVEL BY VOLUME SERIAL NUMBER

VOLSER	DEVTYPE	ALLOC TRACKS	BEFORE	AFTER	LAST DAYS	USED DATE	SAVINGS IF MIGRATED		
			%ALLOC	%ALLOC			DSNS	TRACKS	%SAVED
DEV002	3390-3	43665	80.18%	20.00%	30	2005220	786	33643	77.04%
				27.67%	60	2005190	712	29802	68.25%
				31.33%	90	2005160	685	27971	64.05%
				35.99%	120	2005130	643	25635	58.70%

#### SUMMARY LEVEL BY DEVICE TYPE

VOLCNT	DEVTYPE	ALLOC TRACKS	BEFORE	AFTER	LAST DAYS	USED DATE	SAVINGS IF MIGRATED		
			%ALLOC	%ALLOC			DSNS	TRACKS	%SAVED
6	3390-3	224911	74.84%	34.92%	30	2005220	1148	119971	53.34%
				36.32%	60	2005190	1070	115762	51.47%
				37.12%	90	2005160	1037	113340	50.39%
				37.92%	120	2005130	994	110944	49.32%

The report shows that DEV002 is currently 80% allocated. If FDRARC was run against the volume to remove all data sets not referenced in the previous 30 days, the allocation would come down to 20%. 786 data sets would be removed from the volume (33,643 tracks), saving 77% of the allocated space.

If a less severe criterion were used for the migration, the savings would not be as high. The report shows the results of using 'not-referenced-in' criteria of 30, 60, 90 and 120 days.

The Summary report shows that, across all six 3390-3 volumes in the DEV Storage Group, the current allocation level is 74%. With 30-day migration criterion, this would be reduced to 34%, with over 1,100 data sets (nearly 120,000) tracks being reclaimed.

### Improving Backup Times

By removing data sets that have not been used for an extended period of time, the FDRARC data migration system can also have a beneficial effect on the elapsed times and tape utilization of your full-volume backups. These unused data sets would, otherwise, be included on every full-volume backup.

**Want to Know More About FDRARC?** 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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