

# FDRABR

## BACKUP, RESTORE & DISASTER RECOVERY

### z/OS Storage Management



*FDRABR is a suite of powerful, flexible and high-performance z/OS DASD Management tools.*

*The individual features of FDRABR are described in their own separate product sheets. This product sheet provides a summary of all the key features available within FDRABR, and it also looks briefly at other related members of the FDR Family of Products.*

*The features described on this sheet:*

- *FDRINC – volume incremental backup*
- *FDRAPPL – application backup*
- *FDR – standard backup*
- *FDRARC – dataset archive/migration*
- *FDRCOPY – dataset move/copy*
- *FDREPORT – z/OS reporting*



#### FDRAPPL – Application Backup

FDRAPPL is a high-performance backup tool for securing all of the datasets belonging to an application.

Datasets are selected through the catalog using flexible name masking criteria, so the user does not need to know the location of the individual datasets.

Information about the FDRAPPL backups is recorded in a control file, which can be optionally copied onto the end of the backup tape. This information is used to provide an automated and flexible restore of some or all of the application's datasets, either from the most recent or an older copy, and either to the same name or a different one.



#### FDR – Standard Backup

FDR provides standard, high-performance, "non-managed" volume and dataset backup and restore services, which can be used to meet special handling or retention requirements outside of the regular automated backups taken with FDRINC.



#### Performance Example

FDRABR consistently outperforms its competitors, as seen in this recent test of an incremental backup of 280 VSAM datasets occupying over 100,000 tracks. As you can see FDRABR used 93% less CPU and 84% less elapsed time compared to DFSMSHsm:

Product	Elapsed Time (Minutes)	CPU Time (Seconds)	Tape EXCPs	Disk EXCPs	GB Dumped
ABR V 5.4/75 with RTC=YES	0.84	6.01	7,368	7,542	5
z/OS V1R12 DFSMSHsm	5.19	80.76	299,746	20,356	5
% Difference	84%	93%	98%	63%	

*A full set of the benchmark results is available on request.*



#### FDRINC – Volume Incremental Backup

FDRINC is high-performance, intelligent and automated backup system, which allows you to create daily backups of all your DASD without having to backup every dataset every day.

It offers a "managed" backup of your data through a combination of incremental backups interspersed with regular full volume backups.

From FDRINC backups, individual or groups of datasets can be restored, and entire DASD volumes can be recovered in the event of a disaster.

TSO/ISPF panels give the end user easy access to the DASD Management reports & backup/restore functions.

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### FDRARC – Dataset Archive/Migration

FDRARC allows you to regain control of the consumption of DASD space by moving inactive datasets to a less costly medium, such as high-capacity tape, a VTS, or to a compressed format on another disk.

FDRARC supports the SMS management class, and thresholds can be established on volumes so a certain level of free space can be maintained within the DASD storage pool. Online applications, batch jobs and end users can quickly and easily recall a migrated dataset if required.



### FDRCOPY – Dataset Copy/Move

FDRCOPY allows you to copy or move datasets to/from one or more DASD volumes using flexible dataset selection criteria and powerful rename facilities when copying datasets to a new name. When used in conjunction with FDRINSTANT, FDRCOPY can create copies of 1000s of datasets in a matter of seconds.



### FDREPORT & FDRVIEWS – z/OS Reporting

FDREPORT is a flexible, high-performance DASD Management reporting tool, which can gather information from a wide variety of z/OS sources (VTOC, VVDS, Catalog, ABR and HSM control files). You can run your reporting as a z/OS batch job or through FDREPORT's TSO/ISPF panels.

FDRVIEWS is a cost-option to FDREPORT or FDRABR which enables you to manage your current storage requirements, identify trends, predict future requirements, and anticipate peak demands, all through a user-friendly GUI interface.



### Related Products



#### FDRINSTANT

FDRINSTANT provides near 24x7 backup of offline volumes created by disk subsystem features like EMC TimeFinder, Hitachi ShadowImage, IBM FlashCopy and Oracle StorageTek SnapShot Copy.

FDRINSTANT can be used in conjunction with FDRINC (automated volume and incremental backups) and with FDR (standard volume and dataset backups).

*Benefit: With FDRINSTANT you can reduce to a bare minimum the application downtime caused by taking your daily FDRINC or FDR backups.*



#### FDRCRYPT

FDRCRYPT offers encryption services to FDR, FDRINC and FDRAPPL backups, as well as sequential output created by an IDCAMS REPRO.

*Benefit: With FDRCRYPT you can protect your FDRABR backups against unauthorized access by anyone who does not possess the proper encryption keys.*



#### FDRDRP

FDRDRP is an optional extension to FDRINC which can reduce restore-time contention on multi-backup high capacity tape drives, which in turn reduces FDRINC's full volume recovery time by up to 80%.

*Benefit: With FDRDRP you can continue to exploit the full capacity of your high capacity tapes on your FDRINC incremental backups without compromising on DR restore times.*

**Want to Know More About FDRABR?** 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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