

FDREPORT BASIC REPORTS

REPORT #1: All the SMS-Managed volumes that are in the DISNEW status, and a second report showing all the SMS-Managed volumes in a storage group that are not in DISNEW status showing bytes allocated and available.

FTP member: [FDREPORT_SMS_Managed_DISNEW_Volumes.txt](#)

SMS-MANAGED DISNEW VOLUMES						
VOLSER	UADR	DEVTYPE	STORGRP	SMS	STA	VOLUM STATUS
UPBK01	805B	3390-9	PROD11	MANAGED	DISABLED	NEW
UPBK02	805C	3390-9	PROD11	MANAGED	DISABLED	NEW
UPBK03	805D	3390-9	PROD11	MANAGED	DISABLED	NEW

AVAILABLE SMS-MANAGED VOLUMES NOT IN DISNEW STATUS									
VOLSER	UADR	DEVTYPE	STORGRP	SMS	STA	VOLUM	STATUS	ALLOCBYTES	FREEBYTES
USTWK4	8060	3390-9	PROD11	MANAGED	ENABLED			2089.712M	6424.338M
USTWK5	8061	3390-9	PROD11	MANAGED	ENABLED			5493.121M	3020.928M
USTWK6	8062	3390-9	PROD11	MANAGED	ENABLED			1537.634M	6976.415M
USTWK7	8063	3390-9	PROD11	MANAGED	ENABLED			4830.153M	3683.897M
USTWK8	8064	3390-9	PROD11	MANAGED	ENABLED			3797.281M	4716.768M
FINAL TOTALS --									
VLAALOBYT--17747.901M								VLFREBYT--24822.345M	

REPORT #2: Show all uncataloged data sets on online volumes.

FTP member: [FDREPORT_Uncataloged_Data_Sets.txt](#)

UNCATALOGED DATASETS									
DATA SET NAME	CAT D/S		VOLSER	STA	ORG	ALLOC	KBYTES	CRDATE	LRDATE
TEST.C540494C.VSH21D1.A0020	SH21D1	NO PS				10	328	2012.066	2012.066
TST2.PO.A0002	SYM003	NO PO				30	1404	2012.354	2012.354

REPORT #3: Volumes that contain catalogs and have less than 100 free cylinders.

FTP member: [FDREPORT_Catalog_Volumes_with_Limited_Free_Space.txt](#)

VOLUMES WITH CATALOGS AND < 100 FREE CYL					
VOLSER	DEVTYPE	UADR	TRACKSVOL	FREETRACK	FREECYL
PHI21	3390-3	506A	50085	482	30
MVS002	3390-3	50BF	50085	1005	40
SMPEPP	3390-3	5149	50085	500	31
ATD121	3390-3	51C7	50085	756	48
CAASHR	3390-3	5263	50085	893	55
DB2001	3390-3	5279	50085	862	25
DSG02	3390-3	52C9	50085	638	42
DSG01	3390-3	52CA	50085	1432	27
IMSESA	3390-3	5350	50085	1300	66

The jobstreams for all examples shown in this newsletter are available from the Innovation FTP site.

- Go to: www.fdr.com
- Click on "FTP login" and Enter your access code (if you don't have one, you can request one on this page).
- Click on the "Download" directory, then "Tech_Support_Samples" & "Oct2013".

The Innovation Health Check jobstreams provide a wide variety of reports on the general status of your DASD installation, including several reports that show various problem conditions such as those above.

These jobstreams are distributed in the FDR JCL library (default dsname IDP.JCLFDR54). Member HCHECKI is an index to the members containing the jobstreams.

The Health Check jobstreams are discussed in the manual in section 54.2

NOTE: FDREPORT is a generalized report writer and can generate almost any type of custom report you might want. This newsletter just shows some of the flexibility that FDREPORT can provide you with. If you need help constructing a report email: support@fdrinnovation.com

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REPORT #4: All data sets that are only in the catalog. Additionally, generate appropriate IDCAMS DELETE statements that can be used to safely remove these entries from the catalog.

FTP member: [FDREPORT_Data_Sets_Only_in_Catalog.txt](#)

DATA SETS ONLY IN THE CATALOG (NOT ON VOLUME)	
DATA SET NAME	VOLSER STA
-----	-----
\$AVRS.TLT.TEST	NOVOLU ONL
@.PLOUS.PS.A0001	RVA7C6 ONL
@.SJW.SPFL0G3.LIST	TSOWK0 ONL

Punched IDCAMS DELETE statements:

DELETE	\$AVRS.TLT.TEST	NOSCRATCH
DELETE	@.PLOUS.PS.A0001	NOSCRATCH
DELETE	@.SJW.SPFL0G3.LIST	NOSCRATCH

REPORT #5: Produce a report of all allocated and free space within storage groups and a second report on a specific storage group.

FTP member: [FDREPORT_Space_Utilization_by_STORGRP.txt](#)

%TU	Volume tracks used percent
%TF	Volume tracks free percent
VOLCT	Volume Count

SPACE UTILIZATION BY STORGRP						
STORGRP	CYL VOLUME	FREE CYL	ALLOC CYL	%TF	%TU	VOLCT
-----	-----	-----	-----	-----	-----	-----
EUSGR01	196077	194531	1546	99	1	12
EUSGR02	386064	194744	191320	50	50	12
EUSGR03	259371	259347	24	99	1	12
HSMPOOL	3339	3319	20	99	1	3
...						
PROD5	10017	7109	2908	70	30	1
PROD15	131040	79885	51155	60	40	4
--						
	1385823	1009267	376556	72	28	90

SPACE UTILIZATION FOR STORGRP=EUSGR02						
VOLSER	CYLVOL	FREECYL	ALLOCYL	%TF	%TU	
-----	-----	-----	-----	-----	-----	-----
EU2F0E	133560	19644	113916	14	86	
EU2F4E	133560	56239	77321	42	58	
...						
FINAL TOTALS --						
	VLCYLVOL-----	386064	VLFRECYL-----	194744		
			VLALOCYL-----	191320		
			VLVOLSER-----	12		

REPORT #6: Produce a report of all allocated and free space by SSIDs & a 2nd report on a specific SSID.

FTP member: [FDREPORT_Space_Utilization_by_SSID.txt](#)

%TU	Volume tracks used percent
%TF	Volume tracks free percent

SPACE UTILIZATION BY SSID						
SYS	SSID	ID CYL VOLUME	FREE CYL	FREE TRACK	%TF	VOLCT
-----	-----	-----	-----	-----	-----	-----
1000	CPUE	659421	352808	5295625	53	50
1001	CPUE	21240	11111	167254	52	8
3000	CPUE	4452	4291	64425	96	4
3002	CPUE	150255	150225	2253555	99	15
8102	CPUE	8904	3320	49867	37	8
8104	CPUE	672966	557922	8369209	82	32
8107	CPUE	672966	595061	8926311	88	32
9001	CPUE	32277	29625	444535	91	13
--						
	CPUE	2222481	1704363	25570781	76	162

SPACE UTILIZATION FOR SSID=1001							
SYS	VOLSER	SSID	ID	CYLVOL	FREECYL	FREETRACK	%TU %TF
-----	-----	-----	-----	-----	-----	-----	-----
USTWKA	1001	CPUE		2655	88	1468	97 3
SYTMP3	1001	CPUE		2655	845	12740	69 31
SYTMP2	1001	CPUE		2655	994	15066	63 37
SYSWKA	1001	CPUE		2655	1216	18296	55 45
...							
FINAL TOTALS --							
				VLCYLVOL-----	21240	VLFRECYL-----	11111
						VLFRETRK-----	167254
						VLVOLSER-----	8

Using FDREPORT with FDRMOVE

We have created a set of FDREPORT jobs to identify potential problems before you attempt disk consolidation (for example, 3390-9 to 3390-54 or to EAV) with FDRMOVE. FDREPORT can assist you in resolving issues before you start the migration and allows you to easily meet your SLA.

The sample [FDREPORT_FDRMOVE_EXAMPLES](#) can be found in the download directory under [Tech_Support_Samples](#).

Some of these reports:

- Check the available space in the VTOC, VTOCIX, and VVDS
- Identify volumes with catalogs, sysres volumes, PAGE and SWAP data sets
- Report data sets cataloged to the wrong volume or not cataloged
- Show missing or orphan VVR/NVRs
- Identify multi-volume data sets
- List data sets in an SMS storage group and by high-level qualifier
- List volumes that have linklist data sets

NOTE: Some of these diagnostic reports are available directly when running FDRPAS with the SIMSWAPMON command.

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REPORT #7: Produce a report of offline DASD volumes showing the controller type (CTYPE) and serial number (CNTSR), the subsystem id (SSID), the channel connect address (CA), as well as the supported DCE features.

FTP member: [FDREPORT_Offline_Volume_Information.txt](#)

OFFLINE DASD VOLUME INFORMATION												
UCBSTAT	UADR	VOLSER	DEVTYPE	MFR	CTYPE	CNTSR	SSID	CA	DCE	ACTIVE FEATURES	DCE FLAG	BYTE 2
OFFLINE	6000		3390-9	HTC	002107	97228	07C0	00	CFW	DCA	CCC	TKC DFW SSV SEC
OFFLINE	6001		3390-9	HTC	002107	97228	07C0	01	CFW	DCA	CCC	TKC DFW SSV SEC
OFFLINE	6002		3390-9	HTC	002107	97228	07C0	02	CFW	DCA	CCC	TKC DFW SSV SEC
...												

DCE Active Features (VLDCEACT)	
CCC	Extended Remote Copy
CFW	Cache Fast Write
DCA	Dual Copy Active
DFW	DASD Fast Write
TKC	Track Caching

DCE Flag Byte 2 (VLDCEFLG)	
CSW	Compare Swap Bit
DPX	Duplex Device
PKC	Pack Change in Process
PRI	Primary Duplex Device
SSV	Subsystem is Valid
SEC	Secondary Duplex Device

REPORT #8: This report is used to list volumes that are offline. We have two specific cases where we have units offline to z/OS – FLASHCOPY targets and volumes being used by z/VM and Linux on System z. We know what unit addresses these are and use FDREPORT to verify these volumes are offline but we also use the report to look for volumes that should NOT be offline.

FTP member: [FDREPORT_Offline_DASD_Report.txt](#)

OFFLINE DASD VOLUME INFORMATION BY UNIT ADDRESS												
UCBSTAT	UADR	DEVTYPE	MFR	CTYPE	CNTSR	SSID	CA	DCE	ACTIVE FEATURES	DCE FLAG	BYTE 2	UCBFL4
OFFLINE	00233	3390-3	EMC	002107	ABYKN	3000	CA	DCA	TKC DFW	SSV	PRI	MDSE
OFFLINE	017D5	3390-27	HTC	002107	65950	9001	15	CFW	TKC DFW	SSV		MDSE
OFFLINE	020DE	3390-54	IBM	002107	LR221	8100	1E	CFW	TKC DFW	SSV		MDSE
OFFLINE	021F1	3390-3	IBM	002107	LR221	8101	31	CFW	DCA	TKC DFW	SSV	SEC
OFFLINE	03011	3390-54	EMC	002107	ABYKN	3001	41	TKC	DFW	SSV		MDSE PAVB PAVH
OFFLINE	04831	3390-A	EMC	002107	ABYKL	0305	2B	TKC	DFW	SSV		MDSE PAVB PAVH

UCBFL4 Indicators (VLUCBFL4)	
CMBU	CMB Update Required
MDSE	DSE1 is required during MSI
PAVA	PAV alias device
PAVB	PAV base capable device
PAVH	HiperPAV base or alias device
SDSE	DSE1 is required during SIO
WDAV	DAVV waiting for mount

Why FDREPORT?

Many users often find it's a struggle to get the information that is needed to effectively manage their DASD Storage. In many cases they have to use report utilities that were developed many years ago, and have not kept pace with changes in the environment and with DASD technology. Often the original author of the reports is no longer around and the loss of expertise makes it hard to update and maintain the reports. And sometimes, it takes many layers of processing with programs such as DCOLLECT, SAS, and other programs to reduce a mass of data to a usable form.

The simple alternative is FDREPORT. Written and constantly updated by Innovation, FDREPORT comes with a huge range of standard reports, and also lets you easily generate your own custom reports to meet your reporting needs. Reports can include fine detail or can be highly summarized, whichever you require.

FDREPORT with the optional FDRViEWS component provides a convenient GUI and browser interface, allowing you to see your reports in both a graphical and spreadsheet format. FDRViEWS automatically stores both current and historical data, enabling you to easily monitor how your DASD usage changes over time.

FDREPORT HELP

For more detailed information on FDREPORT, consult the FDREPORT member in the Installation Control Library (ICL) that comes with your product. The FDREPORT member in the ICL contains the most up-to-date information about the program at the level you have; with much more information and more detailed information than the manual (Chapter 54). If you cannot readily access the ICL, you can print the information by executing the FDREPORT program with JCL or the TSO command processor (TSO FDREPORT) and specifying the command "HELP ALL".