

InfoDesign GmbH

Customizing DB2 for Customers

Referenzhandbuch InfoFLASH

Kombinationsverfahren zum
Einsatz schneller
Speichersubsysteme bei
Recovery und Cloning

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InfoFLASH Produktübersicht

Die verschiedenen InfoFLASH Verfahren unterscheiden sich in der Auswahl und Ermittlung der Quell-Volumes. Diese Ermittlung geschieht in den meisten Verfahren aus Sicht des DB2-Systems.

Jedoch gilt dies nicht bei InfoFLASH BSU. Hier werden die Konstrukte aus DFSMS genutzt (COPYPOOL). In diesen Fällen ist der Kunde für die Richtigkeit und Vollständigkeit verantwortlich. Innerhalb von InfoFLASH gibt es dafür aber Prüfungen.

Im Folgenden erhält der Leser einen Überblick, wie die Auswahl im jeweiligen Verfahren umgesetzt wird.

InfoFLASH classic

Für jedes ermittelte Quell-Volume ist **ein** Ziel-Volume erforderlich.

Die Zuordnung der Ziel-Volumes zu den Quell-Volumes erfolgt mit Hilfe einer Zeichenersetzung an beliebiger Stelle im Quell-VOLSER. Dazu werden die Variablen &subschar und &subscol benötigt.

Regel: Überschreibe den Quell-VOLSER ab der Stelle &subscol mit &subschar.

Das so ermittelte Ziel-VOLSER muss im gleichen SFI (Storage Facility Image oder „Blech“) ONLINE sein. Dies wird während der Verarbeitung geprüft.

Der Parameter &subschar kann als Liste angegeben werden.

In einem solchen Fall, werden die Ziel-Volumes alternierend entsprechend der Liste ermittelt. Sind alle angegebenen Zeichen benutzt, wird die älteste Version gelöscht und erneut ausgewählt. Der Kunde hat so die Möglichkeit mehrere FlashCopy-Versionen ONLINE zu halten und ist auf eine schnelle RECOVERY vorbereitet.

Dass die Volume-Dupel kompatibel in ihren physikalischen Eigenschaften sind, liegt in der Verantwortung des Kunden.

Der Parameter &pool2use wird bei InfoFLASH classic nicht unterstützt.

InfoFLASH classic unterstützt keine inkrementellen FlashCopy-Sicherungen.

Für die Auswahl von InfoFLASH classic ist folgende Parameterkombination erforderlich:

MIRROR	=	FLASH	--	FLASH, INCR, BACKSYS
FLSHMODE	=		--	FULL, INCR, LAST
SUSPEND	=	SETLOAD	--	NOT USING SUSPEND/RESUME
DB2LOC	=		--	DB2 LOCATION NAME
SUBSCHAR	=	(#, \$)	--	INCRFLASH CLASSIC
POOL2USE	=		--	SELECT FROM SUBSCHAR
SUBSCOL	=	1	--	COLUMN WITHIN SRCVOL
FLSSKEL	=	CPYADR01	--	BLANK, CPYADR01, CPYADRIF

Figure 1 Parameterkombination für InfoFLASH classic

In der SAMPLIB ist ein Beispiel für InfoFLASH classic enthalten: \$\$\$\$PACF

InfoFLASH ICR

Für jedes ermittelte Quell-Volume ist **ein** Ziel-Volume erforderlich.

Die Zuordnung der Ziel-Volumes zu den Quell-Volumes erfolgt mit Hilfe einer Zeichenersetzung an beliebiger Stelle im Quell-VOLSER. Dazu werden die Variablen **&subschar** und **&subscol** benötigt.

Regel: Überschreibe den Quell-VOLSER an der Stelle **&subscol** mit **&subschar**

Das so ermittelte Ziel-VOLSER muss im gleichen SFI (Storage Facility Image oder „Blech“) ONLINE sein. Dies wird während der Verarbeitung geprüft.

Der Parameter **&subschar** kann als Liste angegeben werden.

Welches Volume letztlich als Zielvolume ausgewählt wird, ist im Parameter **&pool2use** hinterlegt. **&pool2use** ist dann eine Untermenge von **&subschar**. Für das gewählte Volume wird die letzte (einzige) Version zu Beginn der Verarbeitung gelöscht und neu erstellt.

Welche Art der Beziehung zwischen den Volumes aufgebaut wird, hängt vom Parameter **&flashmode** ab.

Wählbar ist:

- a) FULL nonpersistent relation mit COPY FULL
- b) INCR persistent relation mit COPY FCINCREMENTAL
- c) LAST nonpersistent relation mit COPY FCINCREMENTALLAST

Der Kunde hat die Möglichkeit mehrere FlashCopy-Versionen ONLINE zu halten.

So ist es möglich eine oder mehrere FULL Versionen zwischen zwei inkrementellen FlashCopy-Abläufen zu erstellen.

Grund: Für inkrementelle FlashCopies wird IBM-seitig nur eine Relation unterstützt.

Mit mehreren ONLINE-Versionen ist man auf schnelle RECOVERY vorbereitet

Dass die Volume-Dupel kompatibel in ihren physikalischen Eigenschaften sind, liegt in der Verantwortung des Kunden.

Für die Auswahl von InfoFLASH ICR ist folgende Parameterkombination zwingend:

MIRROR	= INCR	-- FLASH, INCR, BACKSYS
FLSHMODE	= FULL	-- FULL, INCR, LAST
SUSPEND	= SUSPEND	-- USING SUSPEND/RESUME
DB2LOC	=	-- DB2 LOCATION NAME
SUBSCHAR	= (\$,#)	-- INCRFLASH INCR FULL
POOL2USE	= #	-- SELECT FROM SUBSCHAR
SUBSCOL	= 1	-- COLUMN WITHIN SRCVOL
FLSSKEL	= CPYADRIF	-- BLANK,CPYADR01,CPYADRIF

Figure 2 Parameterkombination für InfoFLASH ICR

In der SAMPLIB sind Beispiele für InfoFLASH ICR enthalten:

```
$$$$PAIF - ICR FULL
$$$$PAII - ICR INCR
$$$$PAIL - ICR LAST
```

InfoFLASH BSU

BACKUP SYSTEM utility

Mit dem BACKUP SYSTEM Utility werden mit Hilfe von DFSMSHsm die Platten mit DB- und LOG-Informationen kopiert. Ab z/OS Version 1.8 lässt sich auch der Abzug der Platten auf HSM-verwaltete Bänder umsetzen.

Für die Auswahl von InfoFLASH BSU ist folgende Parameterkombination zwingend:

POOL2USE	=	-- SELECT FROM SUBSCHAR
FLSHMODE	= INCR	-- FULL, INCR
SUSPEND	=	-- NOT USING SUSPEND/RESUME
TSOWITHD	= YES	-- USING ICKDSF FCWITHDR
HSMSTC	= HSM	-- STC NAME, ONLY BACKSYS
HSMBCDS	= HSM.BCDS	-- BCDS DSN, ONLY BACKSYS
MIRROR	= BACKSYS	-- FLASH, INCR, BACKSYS
DB2LOC	= IDF0LOC	-- DB2 LOCATION NAME
SUBSCHAR	=	-- INCRFLASH BACKSYS
SUBSCOL	=	-- COLUMN WITHIN SRCVOL
FLSSKEL	=	-- BLANK, CPYADR01, CPYADRIF

Figure 3 Parameterkombination für InfoFLASH BSU

In der SAMPLIB sind Beispiele für InfoFLASH BSU enthalten:

```
$$$$PABF - BSU FULL
$$$$PABI - BSU INCR
```

Vorbereitende Maßnahmen

Alle Dateien, die mit BACKUP SYSTEM gesichert werden sollen, müssen SMS-managed sein. Die niedrigste unterstützte z/OS-Version ist 1.7. für die Nutzung der HSM Funktion „RESTORE von DUMPCLASS“ ist mindestens z/OS 1.8 erforderlich.

Für die BCDS-Datei ist als maximum recordlength 6544 einzustellen.

Literatur: Redbook SG24-7069-00 DFSMSHsm Fast Replication Technical Guide
Kapitel 5.1.2 Software coexistence considerations

Vor dem Start des Utilities sollte die Richtigkeit der COPYPOOL-Definitionen für den DB- und LOG-Pool geprüft werden.

F dfsmshsm,FRBACKUP CP(DSN\$locname\$DB) PREPARE

```
ARC1801I FAST REPLICATION PREPARE IS STARTING FOR COPY
.
ARC1802I FAST REPLICATION PREPARE HAS COMPLETED FOR .
ARC1802I (CONT.) COPY POOL DSN$locname$DB, AT 15:03:56 ON 2016/06/10,
ARC1802I (CONT.) FUNCTION RC=0000, MAXIMUM VOLUME RC=0000 .
ARC1000I COPY POOL DSN$locname$DB FRBACKUP PROCESSING .
ARC1000I (CONT.) ENDED .
```

Figure 4 FRBACKUP PREPARE

F dfsmshsm,FRBACKUP CP(DSN\$locname\$LG) PREPARE analog

Informationen zu den Copypools erhält man mit:

F dfsmsdsm,LIST CP(DSN\$locname\$DB) TERM

```
COPYPOOL=DSN$IDFCLOC$DB,ALLOWPPRCP FRB=NO FRR=NO  
VER=012,VTOCENQ=N,MADE ON 2016/01/11 AT 14:00:51,FRS=RECOVERABLE,DPS=None  
TKN(C)=C'IDFC::8:%::: :  
TKN(H)=X'C9C4C6C3D021ECF83B6C2112000000000000420D0E5200000000000000000000000000000000'  
TOTAL NUM OF VOLUMES=00006,INCREMENTAL=N,CATINFO=Y,FCFRR=Y,RECOVERYINCOMPLETE=N,FCCG=N  
SGNAME=IDFCDB2 SOURCE=IDFC00 TARGET=IDFCB3  
SGNAME=IDFCDB2 SOURCE=IDFC01 TARGET=IDFCB4  
SGNAME=IDFCDB2 SOURCE=IDFC02 TARGET=IDFCBD  
SGNAME=IDFCDB2 SOURCE=IDFC03 TARGET=IDFCB0  
SGNAME=IDFCDB2 SOURCE=IDFC04 TARGET=IDFCB5  
SGNAME=IDFCDB2 SOURCE=IDFC05 TARGET=IDFCB1  
ARC0140I LIST COMPLETED, 13 LINE(S) OF DATA OUTPUT
```

Figure 5 LIST COPYPOOL DB

F dfsmsdsm,LIST CP(DSN\$locname\$LG) TERM

```
COPYPOOL=DSN$IDFCLOC$LG ,ALLOWPPRCP FRB=NO FRR=NO  
VER=012,VTOCENQ=N,MADE ON 2016/01/11 AT 14:00:55,FRS=RECOVERABLE ,DPS=None  
TKN(C)=C'IDFC::8:%::: :  
TKN(H)=X'C9C4C6C3D021ECF83B6C2112000000000000420D0E5200000000000000000000000000000000'  
TOTAL NUM OF VOLUMES=00006,INCREMENTAL=N,CATINFO=Y,FCFRR=Y,RECOVERYINCOMPLETE=N,FCCG=N  
SGNAME=IDFCLOG SOURCE=IDFCL0 TARGET=IDFCBA  
SGNAME=IDFCLOG SOURCE=IDFCL1 TARGET=IDFCB6  
SGNAME=IDFCLOG SOURCE=IDFCL2 TARGET=IDFCBB  
SGNAME=IDFCLOG SOURCE=IDFCL3 TARGET=IDFCBE  
SGNAME=IDFCLOG SOURCE=IDFCL4 TARGET=IDFCB7  
SGNAME=IDFCLOG SOURCE=IDFCL5 TARGET=IDFCBF  
ARC0140I LIST COMPLETED. 13 LINE(S) OF DATA OUTPUT
```

Figure 6 LIST COPYPOOL LG

Algorithmus für Volumeauswahl

Die Zuordnung der Zielvolumen zu den Quellvolumen erfolgt entweder beim FRBACKUP PREPARE oder sofort bei Ausführung von BACKUP SYSTEM.

Dabei wird in der Reihenfolge der beim Copypool definierten SMS-SG vorgegangen.

Die Liste der Volumes wird SMS-SG weise in EBCDIC Sortierung abgearbeitet. Die devnum des Zielvolumes wird aus den ebenfalls EBCDIC sortierten Volumes der angegebenen BACKUP COPY POOL SG bestimmt.

Informationen finden Sie im **DFSMShsm Storage Administration** (SC35-0421-xx)

Kapitel 6 „Availability management of SMS-managed storage“

in der Sektion „Preparing for the fast replication backup“.

TOKEN

TKN(H) =X' C9C4C6C3 D021ECF83B6C2112000000000000420D0E52'

```

!          !          RECOVERY BASE LOG POINT (= BEGIN CHECKPOINT)
!          START STCK DATA
SUBSYS

```

Diese Angaben findet man entsprechend im BSDS-Output (DSNJU004) wieder.

BACKUP SYSTEM UTILITY HISTORY			
SUBSYSTEM ID IDFl			
14:07:07 JUNE 10, 2016			
DATA	START STCK	LOG	DATA COMPLETE RBLP LRSN
D0DEE37A9ED5E504	D0DEE38C86340C05	D0DEE3040972	D0DEE382CF01
TOKEN = C9C4C6F1D0DEE37A9ED5E504D0DEE3040972 Z/OS 1.01 CAT=YES			

Figure 7 BACKUP SYSTEM utility HISTORY bis DB2 10

InfoDesign

BSDS

Ab DB2 11 ändert sich in der Darstellung die Länge der RBA/LRSN.

DSNJCNVT CONVERSION PROGRAM HAS NOT RUN DDNAME=GROUP			
BACKUP SYSTEM UTILITY HISTORY			
SUBSYSTEM ID IDFC			
13:12:44 JUNE 10, 2016			
DATA	START STCK	LOG	RBLP DATA COMPLETE LRSN
-----	-----	-----	-----
D021ECF83B6C2112	D021ECFBF08C67E4	000000000000420D0E52	000000000000420E5BBD
TOKEN = C9C4C6C3D021ECF83B6C2112000000000000420D0E52			
Z/OS 1.02 CAT=YES			
LOCATION NAME = IDFCLOC			

Figure 8 BACKUP SYSTEM utility HISTORY ab DB2 11

CATALOG CAPTURE

Die Funktion CATALOG CAPTURE wird an der Definition für den Copypool eingestellt. Es wird dabei ein Abbild des/der ICF-Benutzerkataloge(s) erstellt.

Wurde die Erstellung als REQUIRED deklariert und bei der Erstellung gibt es Probleme, kann es dazu führen, dass die Volumes des Copypools automatisiert initialisiert werden.

Negativer Effekt dabei ist, dass damit die inkrementellen Beziehungen abgebaut sind und man sich ungeplant eine BackGroundCopy über den gesamten Copypool einhandelt.

```
ARC1801I FAST REPLICATION BACKUP IS STARTING FOR COPY 269
ARC1801I (CONT.) POOL DSN$IDFCLOC$DB, AT 12:14:04 ON 2015/09/30,
ARC1801I (CONT.) TOKEN=X'C9C4C6C3CFA047970D967758000000000000022A42792'
ARC1812I OPERATION=CAPTURE FOR CATALOG INFORMATION 270
ARC1812I (CONT.) DATA SET=HSM.HSMCIDS.D15273.T121404.C001 FOR COPY
ARC1812I (CONT.) POOL=DSN$IDFCLOC$DB HAS COMPLETED WITH RETURN
ARC1812I (CONT.) CODE=0008 AND REASON CODE=0012
ARC1805I THE FOLLOWING 00006 VOLUME(S) WERE 271
ARC1805I (CONT.) SUCCESSFULLY PROCESSED BY FAST REPLICATION BACKUP OF
ARC1805I (CONT.) COPY POOL DSN$IDFCLOC$DB
ARC1805I (CONT.) IDFC00
ARC1805I (CONT.) IDFC01
.
.
ARC1805I (CONT.) IDFC05
ICK061I 6440 VTOC INDEX CREATION SUCCESSFUL: VOLUME IS IN INDEX FORMAT
ARC1838I INITIALIZATION ATTEMPT OF COPY POOL BACKUP 279
ARC1838I (CONT.) STORAGE GROUP VOLUME IDFCBC HAS COMPLETED, RC=0000,
ARC1838I (CONT.) RSN=0000
ICK061I 6332 VTOC INDEX CREATION SUCCESSFUL: VOLUME IS IN INDEX FORMAT
ARC1838I INITIALIZATION ATTEMPT OF COPY POOL BACKUP 281
ARC1838I (CONT.) STORAGE GROUP VOLUME IDFCB4 HAS COMPLETED, RC=0000,
ARC1838I (CONT.) RSN=0000
.
.
ICK061I 6411 VTOC INDEX CREATION SUCCESSFUL: VOLUME IS IN INDEX FORMAT
ARC1838I INITIALIZATION ATTEMPT OF COPY POOL BACKUP 289
ARC1838I (CONT.) STORAGE GROUP VOLUME IDFCB1 HAS COMPLETED, RC=0000,
ARC1838I (CONT.) RSN=0000
ARC1806E FAST REPLICATION BACKUP HAS FAILED FOR COPY 290
ARC1806E (CONT.) POOL DSN$IDFCLOC$DB, RC=0070
ARC1802I FAST REPLICATION BACKUP HAS COMPLETED FOR 291
ARC1802I (CONT.) COPY POOL DSN$IDFCLOC$DB, AT 12:14:12 ON 2015/09/30,
ARC1802I (CONT.) FUNCTION RC=0006, MAXIMUM VOLUME RC=0000, CAPTURE
ARC1802I (CONT.) CATALOG RC=0008
ARC1801I FAST REPLICATION BACKUP IS STARTING FOR COPY 329
ARC1801I (CONT.) POOL DSN$IDFCLOC$DB, AT 12:22:49 ON 2015/09/30,
ARC1801I (CONT.) TOKEN=X'C9C4C6C3CFA0498B4A8CA57E000000000000022A42792'
ARC1812I OPERATION=CAPTURE FOR CATALOG INFORMATION 330
ARC1812I (CONT.) DATA SET=HSM.HSMCIDS.D15273.T122249.C001 FOR COPY
ARC1812I (CONT.) POOL=DSN$IDFCLOC$DB HAS COMPLETED WITH RETURN
ARC1812I (CONT.) CODE=0004 AND REASON CODE=0012
ARC1805I THE FOLLOWING 00006 VOLUME(S) WERE 331
ARC1805I (CONT.) SUCCESSFULLY PROCESSED BY FAST REPLICATION BACKUP OF
ARC1805I (CONT.) COPY POOL DSN$IDFCLOC$DB
ARC1805I (CONT.) IDFC00
ARC1805I (CONT.) IDFC01
.
.
ARC1805I (CONT.) IDFC05
ARC1802I FAST REPLICATION BACKUP HAS COMPLETED FOR 338
ARC1802I (CONT.) COPY POOL DSN$IDFCLOC$DB, AT 12:22:53 ON 2015/09/30,
ARC1802I (CONT.) FUNCTION RC=0000, MAXIMUM VOLUME RC=0000, CAPTURE
ARC1802I (CONT.) CATALOG RC=0004
```


Durchführung

Job mit BACKUP SYSTEM Utility Aufruf:

```
//BACKSYS EXEC PGM=DSNUTILB,  
//  PARM='IDF0,IDF0V#G3'  
//STEPLIB DD DISP=SHR,DSN=&DSNLOAD  
//SYSPRINT DD SYSOUT=*  
//SYSIN DD *  
  BACKUP SYSTEM FULL
```

Figure 9 JCL BACKUP SYSTEM

JOB Output SYSPRINT:

```
DSNU000I - OUTPUT START FOR UTILITY, UTILID = IDF0V# G3  
DSNU1044I - PROCESSING SYSIN AS EBCDIC  
DSNU050I - BACKUP SYSTEM FULL  
DSNU1600I - BACKUP SYSTEM UTILITY FOR DATA STARTING,  
              COPYPOOL = DSN$IDF0LOC$DB  
              TOKEN = X'C9C4C6F1D0E02560D466C104D0E024E3CBC5'.  
DSNU1614I - BACKUP SYSTEM UTILITY FOR DATA COMPLETED SUCCESSFULLY,  
              COPYPOOL = DSN$IDF0LOC$DB  
              TOKEN = X'C9C4C6F1D0E02560D466C104D0E024E3CBC5'  
              DATA COMPLETE LRSN = X'D0E0256792AD'  
              ELAPSED TIME = 00:00:10.  
DSNU1600I - BACKUP SYSTEM UTILITY FOR LOGS STARTING,  
              COPYPOOL = DSN$IDF0LOC$LG  
              TOKEN = X'C9C4C6F1D0E02560D466C104D0E024E3CBC5'.  
DSNU1614I - BACKUP SYSTEM UTILITY FOR LOGS COMPLETED SUCCESSFULLY,  
              COPYPOOL = DSN$IDF0LOC$LG  
              TOKEN = X'C9C4C6F1D0E02560D466C104D0E024E3CBC5'  
              DATA COMPLETE LRSN = X'D0E0256792AD'  
              ELAPSED TIME = 00:00:03.  
DSNU1602I - BACKUP SYSTEM UTILITY COMPLETED, ELAPSED TIME = 00:00:26.  
DSNU010I - UTILITY EXECUTION COMPLETE, HIGHEST RETURN CODE=0
```

Figure 10 SYSPRINT BACKUP SYSTEM

Zusätzliche Information findet man im LOG (SYSLOG oder HSM).

```
ARC1801I FAST REPLICATION BACKUP IS STARTING FOR COPY 450  
ARC1801I (CONT.) POOL DSN$IDFALOC$DB, AT 04:03:54 ON 2016/06/10,  
ARC1801I (CONT.) TOKEN=X'C9C4C6C1D0DF33C26EFD7644000008C87090'  
ARC1805I THE FOLLOWING 00004 VOLUME(S) WERE 451  
ARC1805I (CONT.) SUCCESSFULLY PROCESSED BY FAST REPLICATION BACKUP OF  
ARC1805I (CONT.) COPY POOL DSN$IDFALOC$DB  
ARC1805I (CONT.) IDFA00  
ARC1805I (CONT.) IDFA01  
ARC1805I (CONT.) IDFA02  
ARC1805I (CONT.) IDFA03  
ARC1802I FAST REPLICATION BACKUP HAS COMPLETED FOR 456  
ARC1802I (CONT.) COPY POOL DSN$IDFALOC$DB, AT 04:03:56 ON 2016/06/10,  
ARC1802I (CONT.) FUNCTION RC=0000, MAXIMUM VOLUME RC=0000, CAPTURE  
ARC1802I (CONT.) CATALOG RC=0000
```

Figure 11 SYSLOG HSM

RESTORE SYSTEM utility

Mit Hilfe des RESTORE SYSTEM Utilities lassen sich SYSTEM LEVEL Sicherungen wiederherstellen, ab z/OS Version 1.8 auch direkt von den HSM-verwalteten Bändern.

Vorbereitende Maßnahmen

Vor dem Einsatz von RESTORE SYSTEM müssen mindestens folgende Bedingungen erfüllt sein:

- a) mittels BACKUP SYSTEM ist mindestens eine COPYPOOL-Version erstellt worden.
- b) Es muss im BSDS ein SYSPTR Eintrag mit einer gültigen LOG-Adresse eingetragen werden. Es liegt in der Verantwortung des Anwenders diese zu finden. Hinweise dazu finden Sie in der IBM Literatur.
- c) Es ist sicherzustellen, dass die zum DB-Pool gehörenden ICF-Kataloge nicht allokiert sind.

Unterstützt werden kann der Anwender durch die ISPF-Anwendung des InfoDesign Produktes „InfoMAT“.

Auf Wunsch wird aber auch JCL bereitgestellt, die diese LOG-Adresse, auf Basis einer Zeitangabe ermittelt. Diese muss dann vor dem Submit des Jobs eingetragen werden.

Durchführung

Beim RESTORE SYSTEM Utility wird nur der DB-Pool zurückgesetzt.

Beispieljob mit RESTORE SYSTEM Utility Aufruf:

```
//RESTSYS EXEC PGM=DSNUTILB,PARM='IDF0,IDF0P011'  
//STEPLIB DD DISP=SHR,DSN=&SDSNLOAD  
//SYSPRINT DD SYSOUT=*  
//SYSIN DD *  
RESTORE SYSTEM
```

Figure 12 JCL RESTORE SYSTEM

JOB Output SYSPRINT:

```
DSNU050I - RESTORE SYSTEM  
DSNU1606I - RESTORE SYSTEM UTILITY STARTING,  
COPYPOOL = DSN$IDF0LOC$DB  
TOKEN = X'C9C4C6F1D0E02560D466C104D0E024E3CBC5'.  
DSNU1627I - RESTORE SYSTEM PRE-LOG APPLY COMPLETED SUCCESSFULLY,  
COPYPOOL = DSN$IDF0LOC$DB  
TOKEN = X'C9C4C6F1D0E02560D466C104D0E024E3CBC5'  
ELAPSED TIME = 00:00:03.  
DSNU1604I - RESTORE SYSTEM PHASE LOG APPLY STARTED AT LOG POINT =  
X'D0E024E3CBC5'.  
DSNU1629I - DB2 PUT ONE OR MORE OBJECTS INTO THE RECOVER-PENDING STATE, THE  
REBUILD-PENDING STATE, OR THE LOGICAL PAGE LIST DURING THE LOG APPLY PHASE.  
DSNU1635I - THE RBA RANGE FOR THE LAST CHECKPOINT ISSUED DURING THE LOGAPPLY  
PHASE OF THE RESTORE SYSTEM UTILITY IS  
START_RBA = X'D0E352094E93' END_RBA = X'D0E352180E6B' FOR MEMBER IDF1  
DSNU1628I - RESTORE SYSTEM PHASE LOG APPLY COMPLETED, ELAPSED TIME = 00:00:16.  
DSNU010I - UTILITY EXECUTION COMPLETE, HIGHEST RETURN CODE=4
```

Figure 13 SYSPRINT RESTORE SYSTEM

Nacharbeiten

Basierend auf der Meldung DSNU1629I sind vom Anwender die betroffenen Objekte zu ermitteln und danach den PENDING Status aufzuheben.

InfoFLASH bietet hier einen Automatismus, diese Aufgabe **vollständig** und ressourcenoptimiert zu lösen.

InfoFLASH TSR

Voraussetzungen

InfoFLASH muss installiert und lizenziert sein.
InfoFLASH TSR ist an keine Hardware gebunden.

Die Spiegelvolumes werden mit ADRDSSU.DUMP gesichert, d.h. die Wiederherstellung aus einem InfoFLASH-Ablauf mit **&ignoffl = YES** kann nicht verwendet werden. Das Ausgabemedium kann TAPE als auch DASD sein.

Es ist eine DB2-Tabelle **&idcreate.FLSTSRDC** zu erstellen.
Für die Pflege dieser Tabelle ist ein SQL-Trigger zu definieren.

Implementierung

Die benötigten Sourcen für REXX, MLIB und SLIB werden im vorhandenen InfoMAT / InfoFLASH-Umfeld bereitgestellt (namentliche Unterscheidung).

Zu den bereits eingeplanten Jobs werden weitere zwei Jobs hinzugefügt, wobei der erste die Generierung eines zweiten Jobs vornimmt.

Für die benötigten SQL-Objekte werden DDL Anweisungen mitgeliefert.

Die Funktionalität von TSR steht erst mit dem ersten Durchlauf zur Verfügung, eine Übernahme bestehender FLASH-Zeitpunkte kann nicht erfolgen.

Funktionalität

InfoFLASH TSR dient in erster Linie der RECOVERY von Einzelobjekten.

Für eine POINT-IN-TIME RECVOERY **muss** eine andere InfoFLASH Variante benutzt werden.

Ziel von InfoFLASH TSR ist eine Reduzierung der COPY-Abläufe bei voller RECOVERY-Fähigkeit. In einem ersten Schritt könnten die COPY FULL NO (incremental imagecopy) Applikationen ausgesetzt werden.

Da multivolume-Dateien beim RESTORE ein spezielles Vorgehen erfordern, werden diese zunächst ermittelt und dann zusätzliche logische Sicherungen angestoßen.

Nach der Sicherung der Ziel-volumes auf Band wird im DB2 ein Inhaltsverzeichnis aller gesicherten Platten hinterlegt.

Die erstellten Jobs können nun schedulergestützt submittet werden.

Jobfolge Sicherung

\$\$\$\$V#GC Generierungssjob zur Sicherung der multivolume-Dateien.
\$\$\$\$VTAB Sicherung der ermittelten multivolume-Dateien mit ADRDSSU.DUMP.

Jobfolge Recovery

\$\$\$\$V#GD Generierung RECOVER-Jobs.
\$\$\$\$Xabc Jobs für RESTORE und RECOVER LOGONY.

InfoFLASH Tabellen

Die DB2-Tabellen werden mit jeder Abarbeitung um eine Reihe von Sätzen erweitert.
Dabei gilt für die Anzahl Sätze:

x = Anzahl Flashcopy – Abläufe

n = Anzahl words(&subschar)

t = Anzahl vorhandener Tapesicherungen je Flashcopy - Ablauf

FLSDASDI	$n * \text{Anzahl(DASD)}$
FLSHADOW	$n * \text{Anzahl(DASD)}$
FLSHIST	X
FLSINCR	$x * \text{Anzahl(DASD)} + x$
FLSTAPE	$x * \text{Anzahl(DASD)}$
FLTSRDC	$t * \text{Anzahl(Dateien)}$
FLSBCDS	$X * \text{BCDS entries}$
FLTSPRT	CLOB für SYSTSPRT DD

Job-Generierung allgemein

PARMLIB(CPYGENMA)

Dieses Member wird vom Job \$\$\$V#G0 bei der Generierung der statischen Jobs benutzt. In den Sektionen sind die jeweilig zu erstellenden Jobnamen erhalten.

Die Zeichenkette \$\$\$\$ steht dabei für das zu benutzende DB2-Subsystem, welches sowohl drei- als auch vierstellig sein kann. Mit dem Kunden wird abgestimmt, ob mit dieser Namensgebung sieben- oder achtstellige Jobnamen generieren werden sollen.

```
***** APPLY JOBNAMES WITH ACCORDING FUNCTIONS      INFVERS=V11R2M000
#FLASHGEN
DELETE  BLDDASDI SUBJOBS  EXTRSDSF
$$$$V#G1 $$$$V#G2 $$$$V#G3 $$$$V#ES
#FLASHRUN
CHKSTATI UPDTABLE RESERVED RESTORE  STATUSBC TMSTAPE  LOADLOB
$$$$V#G4 $$$$V#G5 $$$$V#G6 $$$$V#G7 $$$$V#ST $$$$V#TM $$$$V#GL
#FLASHUC4
BLDSCHED BLDSCHED
$$$$V#U3 $$$W#U3
#FLASHCTM
BLDSCHED BLDSCHED
$$$$V#C3 $$$W#C3
#PITGEN
REPRTRC
$$$$X#GA
#TSRGEN
COPYGEN  RESTGEN
$$$$V#GC $$$$V#GD
#ADDON
ONLLOCAL OFFLINE  ONLALL
$$$$V#OL $$$$V#OF $$$$V#OA
```

CNTL(\$\$\$\$SETF)

Mit den Definitionen in diesem Member werden zusätzliche MVS-Variablen definiert, und ggf. auch InfoMAT-Variablen für die Nutzung von InfoFLASH überschrieben.

```
//* $$$$SETF  PARAMETERS CONCERNING INFOFLASH      INFVERS=V11R2M000
// SET IDFLSPR=IKJIF112
// SET PARMLIB=INFOMAT.parmlib
// SET REXBASE=&PARMLIB($$$$PARM)
// SET GENPARM=&PARMLIB(CPYGENMA)
// SET DASDIN=&PARMLIB($$$$DASD)
// SET MINLRN=&PARMLIB($$$$MINL)
// SET HSMBCDS=DFSMSHsm.BCDS
// SET TLIB=INFOMAT.tlib
// SET PROFPREF=INFOMAT.workpref
// SET PARMMEM=$$$$PA
```

CNTL(\$\$\$\$SETP)

Oftmals ist es erforderlich verschiedene Parametersätze vorzuhalten, die je nach Bedarf ohne manuelle Eingriffe abgerufen werden müssen. Dafür eignet sich die Verwendung des Jobs \$\$\$\$V#pv. Aus den letzten beiden Stellen des Jobnames (pv) leitet sich ein Membername (\$\$\$\$Pav) in der Parameterdatei ab, der die jeweilig geänderte Parameterversion enthält.

```
/** $$$$SETP      PARAMETER SET BY ROLLOUT      16/07/31 00:00:00
```

Weitere Informationen entnehmen Sie bitte dem Kapitel Parameterverarbeitung im Benutzerhandbuch zu InfoFLASH v91.

PARMLIB(\$\$\$\$DASD)

In der Parameterdatei wird bei der Generierung (\$\$\$\$V#G2) ein Member mit Informationen zu den ermittelten Quell-, Zielvolumes und den verwendeten Poolparametern erstellt.

```
* generated by InfoMAT   7 Jun 2016 12:23:32
* selected FLASH-pool: #
*      SRCVOL   SRCADD      TGTVOL   TGTADD      SRCSIGNATUR
*
*      IDF000    602F      #DF000    6459      .....ë¹È...f
*      IDF003    6030      #DF003    645B      ..½` .Ä.....o
*
* . . .
*      TDF012    6031      #DF012    645F      .....ö¹È...f
```

&genlib(\$\$\$\$VFT)

Dieses Member enthält schedulerspezifische Angaben zu den zu submittingen Jobs.

Beispiel für Automic©:

Jobname, DB-Name, PAGESET-Name, Partitionsnummer, Ressourcenbedarf, Bandstationen, Priorität

```
IDFCV020,DBNAME.SPACENAM.PARTNR,10,0,99,DUMP,
IDFCV021,DBNAME.SPACENAM.PARTNR,10,0,99,DUMP,
. . .
IDFCV031,DBNAME.SPACENAM.PARTNR,10,0,99,DUMP,
```

Anmerkung: Die Werte für Bandstation und Priorität werden nur als Platzhalter verwendet und erst auf Kundenanforderung aktiviert.

PARMLIB(\$\$\$\$MINL)

Dieses Member enthält eine Übersicht zu den SUSPEND-Zeitpunkten, die für einen möglichen RESTORE zur Verfügung stehen.

```
*** restorable SUSPEND_LRSN for IDF0 at 7 Jun 2016 12:26:00 ***
      LRSN  TIMESTAMP          ANZAHL_DASD  OFFLOADED  ONLINE  STATUS
D0DBDB4AB593 2016-06-07-12.23.41      12          NO        YES  IGNORED
D0DBAAC90C54 2016-06-07-08.46.38      12         YES        YES   OKAY
D0DAA6E83802 2016-06-06-13.22.12      12         YES        NO   OKAY
```

LRSN = SUSPEND LRSN
TIMESTAMP = SUSPEND Zeitpunkt
ANZAHL = Anzahl der kopierten Volumes
OFFLOADED = Zielvolumes sind auf Band gesichert
ONLINE = Zielvolumes enthalten den Stand des dazugehörigen SUSPEND Zeitpunktes
STATUS = Bandsicherung wurde ausgesetzt

Job-Übersicht

In den nachfolgenden Tabellen soll die Arbeitsweise der Jobs näher erläutert werden.

Unter INPUT wird dabei auf die Parametrisierung unter den DD-Namen REXBASE, REXSYSIN oder \$\$\$\$PAPV aufgeführt. Die aufgeführten DD-Namen werden in der genannten Reihenfolge durchsucht.

Unter OUTPUT wird auf die wichtigsten Meldungen der Jobs hingewiesen. Gibt es verschiedene Möglichkeiten des Stepverlaufs enthält die Zeile mit dem Stepnamen mehrere Meldungsfenster.

InfoFLASH CLASSIC

\$\$\$\$V#pv

Input

STEP	InfoFLASH	Bemerkung
CPYPARMV		

Output

Step		Bemerkung
CPYPARMV	INFF172I 03:32:23 found jobname: IDFDV#IF, selected PARMVERS: IF SETP-Member created in INFOFLSH.V11R1M0.CNTL(IDFDSETP) SETP: /* IDFDSETP PARAMETER SET BY IDFDV#IF 13/06/16 03:32:23 SETP: // SET PARMVERS=IF	Befüllung des Members \$\$\$\$SETP in &jcllib

\$\$\$\$V#G0

Input

STEP	InfoFLASH (optional: TSR)	Bemerkung
FLASHGEN	FUNCTION = FLASHGEN JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix
FLASHRUN	FUNCTION = FLASHRUN JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix
FLASHUC4	FUNCTION = FLASHUC4 JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix
PITGEN	FUNCTION = PITGEN JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix

Output

Step		Bemerkung
FLASHGEN	CPYGENST 14:35:31 *** get I,J suffix *** CPYCHKPA V11R2M000 21 Jun 2016 14:35:32 CPYCHKPA 14:35:32 *** checking parms *** INFF151I 14:35:32 Combination of given parameters is valid. &mirror: FLASH &flsskel: CPYADR01 &subchar: (\$,#) &pool2use: &flshmode: &suspend: SETLOAD &dumpclas: &subscol: 1 &hsmstc: &hsmbcds: CPYCHKPA 14:35:32 *** checking chars *** CPYXLRSN V11R2M000 21 Jun 2016 14:35:32 CPYXLRSN 14:35:32 *** select SYSCOLUMNS * INFF161I 14:35:35 Length of START_RBA in SYSCOPY: 6 (byte) INFF161I 14:35:35 Length of SUSPEND_LRSN in FLSDASDI: 12 (char) CPYGENST 14:35:35 *** build JCL ***** INFF000I 14:35:35 Job IDFOV#G1 generated INFF000I 14:35:35 Job IDFOV#G2 generated INFF000I 14:35:35 Job IDFOV#G3 generated INFF000I 14:35:35 Job IDFOV#ES generated Member IDFO#MD# (re)created in INFOFLSH.V11R2M0.CNTL.PIT . Member IDFO#SD# (re)created in INFOFLSH.V11R2M0.CNTL.PIT . CPYXGRES V11R2M000 21 Jun 2016 14:35:36 CPYMDRES V11R2M000 14:35:36 ***** EDIT MACRO ***** INFOFLSH.V11R2M0.SLIB.PIT(CPYXDRES) found INFOFLSH.V11R2M0.SLIB.PIT(CPYPLIB) found INFOFLSH.V11R2M0.SLIB.PIT(CPYBSURP) found Result of copying 'INFOFLSH.V11R2M0.SLIB.PIT(CPYXDRES)': RC: 0 . Result of copying 'INFOFLSH.V11R2M0.SLIB.PIT(CPYPLIB)': RC: 0 . Result of copying 'INFOFLSH.V11R2M0.SLIB.PIT(CPYBSURP)': RC: 0 .	

	INFF000I 14:35:37 Job IDFOX#XC generated	
FLASHRUN	CPYGENST 14:35:40 *** get I,J suffix **** CPYCHKPA V11R2M000 21 Jun 2016 14:35:40 CPYCHKPA 14:35:40 *** checking parms **** INFF151I 14:35:40 Combination of given parameters is valid. &mirror: FLASH &flsskel: CPYADR01 &subschar: (\$,#) &pool2use: &flshmode: &suspend: SETLOAD &dumpclas: &subscol: 1 &hsmstc: &hsmbcds: CPYCHKPA 14:35:40 *** checking chars **** CPYXLRSN V11R2M000 21 Jun 2016 14:35:40 CPYXLRSN 14:35:40 *** select SYSCOLUMNS * INFF161I 14:35:40 Length of START_RBA in SYSCOPY: 6 (byte) INFF161I 14:35:40 Length of SUSPEND_LRSN in FLSDASDI: 12 (char) CPYGENST 14:35:40 *** build JCL ***** INFF000I 14:35:40 Job IDFOV#G4 generated INFF000I 14:35:40 Job IDFOV#G5 generated INFF000I 14:35:40 Job IDFOV#G6 generated INFF000I 14:35:41 Job IDFOV#G7 generated INFF000I 14:35:41 Job IDFOV#ST generated INFF000I 14:35:41 Job IDFOV#TM generated INFF000I 14:35:41 Job IDFOV#GL generated	
FLASHUC4	CPYGENST 14:35:43 *** get I,J suffix **** CPYCHKPA V11R2M000 21 Jun 2016 14:35:44 CPYCHKPA 14:35:44 *** checking parms **** INFF151I 14:35:44 Combination of given parameters is valid. &mirror: FLASH &flsskel: CPYADR01 &subschar: (\$,#) &pool2use: &flshmode: &suspend: SETLOAD &dumpclas: &subscol: 1 &hsmstc: &hsmbcds: CPYCHKPA 14:35:44 *** checking chars **** CPYXLRSN V11R2M000 21 Jun 2016 14:35:44 CPYXLRSN 14:35:44 *** select SYSCOLUMNS * INFF161I 14:35:44 Length of START_RBA in SYSCOPY: 6 (byte) INFF161I 14:35:44 Length of SUSPEND_LRSN in FLSDASDI: 12 (char) CPYGENST 14:35:44 *** build JCL ***** INFF000I 14:35:44 Job IDFOV#U3 generated INFF000I 14:35:44 Job IDFOV#U3 generated	
PITGEN	CPYGENST 14:35:47 *** get I,J suffix **** CPYCHKPA V11R2M000 21 Jun 2016 14:35:47 CPYCHKPA 14:35:47 *** checking parms **** INFF151I 14:35:47 Combination of given parameters is valid. &mirror: FLASH &flsskel: CPYADR01 &subschar: (\$,#) &pool2use: &flshmode: &suspend: SETLOAD &dumpclas: &subscol: 1 &hsmstc: &hsmbcds: CPYCHKPA 14:35:47 *** checking chars **** CPYXLRSN V11R2M000 21 Jun 2016 14:35:47 CPYXLRSN 14:35:47 *** select SYSCOLUMNS * INFF161I 14:35:47 Length of START_RBA in SYSCOPY: 6 (byte) INFF161I 14:35:47 Length of SUSPEND_LRSN in FLSDASDI: 12 (char) CPYGENST 14:35:47 *** build JCL ***** INFF000I 14:35:47 Job IDFOX#GA generated	

\$\$\$V#G1

Input

STEP	InfoFLASH	Bemerkung
IDCAMS	DEL &profpref..\$ISPPROF	
CPYDLMEM	&genlib(\$\$\$\$V*) &genlib(\$\$\$\$W*) &tlb(\$\$\$\$CNTL) &tlb(\$\$\$\$T*) &tlb(\$\$\$\$DSD*) &tlb(\$\$\$\$FL*) &tlb(\$\$\$\$STAT) &tlb(\$\$\$\$I*)	FLASHCOPY-Jobs RESTORE-Jobs diverse ISPF-Tabellen

InfoDesign

DELMASK optional	DEL &workpref..*.J*.D0000* MASK	nur bei &storsdsf = YES alte Jobprotokolle löschen
---------------------	---------------------------------	-------------------------------------------------------

Output

STEP		Bemerkung
IDCAMS	DEL INFOMAT.IDF0.\$ISPPROF IDC0550I ENTRY (A) INFOMAT.IDF0.\$ISPPROF DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 SET MAXCC = 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0	
CPYDLMEM	.. CPYRX2IS V11R2M000 21 Jun 2016 14:36:25 DB2 modules are not preloaded. CPYDLMEM V11R2M000 21 Jun 2016 14:36:25 INFF001I 14:36:25 Deleting members from INFOMAT.V11R1M0.TLIB, mask: IDF0T* CPYDLMEM 14:36:26 *** delete member ***** INFF004I 14:36:26 IDF0TSRC deleted INFF004I 14:36:26 IDF0TSRX deleted INFF004I 14:36:26 IDF0T001 deleted ..	
DELMASK	DEL INFOMAT.IDF0.*.J*.D0000* MASK IDC0550I ENTRY (A) INFOMAT.IDF0.IDF0V#GD.JOB00220.D0000105 DELETED IDC0550I ENTRY (A) INFOMAT.IDF0.IDF0V#GD.JOB00220.D0000108 DELETED .. IDC0550I ENTRY (A) INFOMAT.IDF0.IDF0V020.JOB00211.D0000211 DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 SET MAXCC EQ 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0	

\$\$\$V#G2

Input

STEP	InfoFLASH	Bemerkung
CPYFLSSH		Sicherung FLSDASDI
CPYVLST1		\$\$\$DASD erstellen
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP		Bemerkung
CPYFLSSH	CPYFLSSH 14:37:04 *** check FLSHADOW *** deleting FLSHADOW ... copying FLSDASDI in FLSHADOW ... (last run complete) initializing //IDSYSREC DD, //MODEL DD ...	Kopie der FLSDASDI in FLASHDOW erstellen Initialisieren der \$\$\$V#SD- und \$\$\$V#MD-Member in der &jcllib
CPYVLST1	CPYRX2IS V11R2M000 21 Jun 2016 14:37:07 DB2 modules are not preloaded. CPYVLST1 V11R2M000 21 Jun 2016 14:37:07 INFBBSDS V9R1M004 21 Jun 2016 14:37:07 A001: INFBBSDS returns 1 BSDS datasetname(s) INFBBSDS 14:37:07 *** get BSDS name ***** INFB002I 14:37:08 command given: DB2INFO SUBSYSTEMNAME(IDF0) INFB000I 14:37:08 7 record(s) read from DD GMIDATA found BSDS names: IDF0L.IDF1.BSDS01 IDF0L.IDF1.BSDS02 INFBBSDS 14:37:08 *** checking BSDSLST ** &bsdsdsn, &bsdsdsn1, &bsdsdsn2 are ready to use in ASIS pool .. CPYCHKPA V11R2M000 21 Jun 2016 14:37:08 CPYCHKPA 14:37:08 *** checking parms *** INFF151I 14:37:08 Combination of given parameters is valid. &mirror: FLASH &flsskel: CPYADR01 &subschar: (\$,#) &pool2use: &flshmode: &suspend: SETLOAD &dumpclas: &subscol: 1 &hsmstc: &hsmbcds: CPYCHKPA 14:37:08 *** checking chars *** CPYVLST1 14:37:08 *** DIS GROUP ***** CPYDB2UP V11R2M000 21 Jun 2016 14:37:08 CPYDB2UP 14:37:08 *** check STC ***** IDF0MSTR is not running - RC = 4 CPYDB2UP V11R2M000 21 Jun 2016 14:37:09 CPYDB2UP 14:37:09 *** check STC ***** INFF011A 14:37:09 DB2SSID changed from GAN IDF0 to member IDF1	Name des BSDS- datasets bestimmen REXBASE Parameter auf classic prüfen

	<pre> CPYVLST1 14:37:09 *** scan BSDS ***** INFF026I 14:37:10 2643 record(s) read from DD SYSPRINT HLQ of CAT/DIR-datasets is : IDF0 Prefix of LOGCOPY-datasets is: IDF0L.IDF1 IDF0L.IDF2 Name of BSDS01-dataset is : IDF0L.IDF1.BSDS01 found LOG/BSDS volumes : IDF0L2 . . . CPYVLST1 14:37:11 *** select vcatnames ** INFF006I 14:37:12 VCAT names found in SYSTABLEPART and SYSINDEXPART: IDF0 CPYVLST1 14:37:12 *** call CSI ***** DSNAME number and names of used volsers IDF0.DSNDBD.TSRMVDB.TSRMVT.S.J0001.A001 2 IDF001 IDF003 CPYVLST1 14:37:14 *** get volumelist **** CPYVLST1 14:37:14 *** call CPYDCOLL ***** Target Volume list IDF0L0 . . . CPYDCOLL V11R2M000 21 Jun 2016 14:37:14 CPYDCOLL 14:37:14 *** call IDCAMS ***** INFF026I 14:37:14 28 record(s) read from DD SYSPRINT DCOLLECT - VOLUMES (- IDF0L0 - IDF0L1 - . . . IDF0L3 -) - OUTFILE(DCOLLOUT) NODATAINFO IDC01811I NUMBER OF 'V ' RECORDS PROCESSED WAS 12 IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0 INFF026I 14:37:14 12 record(s) read from DD DCOLLOUT V ID11 &&. IDF000 ... V ID11 &&. IDF003 V ID11 &&. IDF0L3 ... CPYVLST1 14:37:14 *** gener EXPORT ***** CATALOG.IDF0 on IDF003 found - ready to EXPORT CATALOG.IDF0L on IDF0L3 found - ready to EXPORT INFF000I 14:37:15 Job IDF0VEXP generated CPYVLST1 14:37:15 *** conversation rule * INFF165I 14:37:16 List of existing DEFINE_TIMESTAMPS and SUBS_CHAR in FLSDASDI: 2016-06-21-08.26.50.972073 used . list of subschar: \$ # , currently available: \$ # . INFF166A 14:37:16 selected character to target VOLSER names: \$ CPYVLST1 14:37:16 *** fill DASDIN ***** CPYVLST1 14:37:16 *** read DCOLLECT ***** processing input volume IDF000 CPYVLST1 14:37:16 *** checking ... 602F CPYVLST1 14:37:16 *** checking ... 644B INFF155I 14:37:16 source 602F and target devnum 644B are in the same SFI processing input volume IDF003 CPYVLST1 14:37:16 *** checking ... 6030 CPYVLST1 14:37:16 *** checking ... 644B INFF155I 14:37:16 source 602F and target devnum 644B are in the same SFI . . . processing input volume IDF0L3 CPYVLST1 14:37:17 *** checking ... 6231 CPYVLST1 14:37:17 *** checking ... 6450 INFF155I 14:37:17 source 6231 and target devnum 6450 are in the same SFI * generated by Infomat 21 Jun 2016 14:37:17 * selected FLASH-pool: \$ * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * * IDF000 602F \$DF000 644B i * IDF003 6030 \$DF003 644D - n * . . . * IDF0L3 6231 \$DF0L3 6450 Ü 9 b INFF045I 14:37:17 12 VOLUME(s) will be flashed CPYVLST1 14:37:17 *** read FLSDASDI ***** INFF050I 14:37:17 12 records are to be inserted into FLSDASDI after FLASHCOP </pre>	<p>VCAT's ermitteln</p> <p>Zu kopierende Kandidatenliste erstellen</p> <p>ICF-Userkataloge exportieren (&expocat = YES)</p> <p>Kennung des Flashpools ermitteln</p> <p>Prüfung, ob sich Quelle und Ziel im gleichen Subsystem befinden</p>
CPYSDFS	<pre> found jobname: IDF0V#G2 . CPYRSDSF 14:37:18 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDF0V#G2 allocated. ***** - IDBUNK1.IDF0V#G2.JOB00276.D0000111.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G2.JOB00276.D0000111 allocated. ***** - IDBUNK1.IDF0V#G2.JOB00276.D0000108.? . lines read: 328 </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>

InfoDesign

	SYSTSPRT file: INFOMAT.IDF0.IDF0V#G2.JOB00276.D0000108 allocated. ***** - IDBUNK1.IDF0V#G2.JOB00276.D0000105.? . lines read: 168 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G2.JOB00276.D0000105 allocated. CPYRSDSF 14:37:19 *** fill IDSYSREC ***** CPYRSDSF 14:37:19.996000 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:37:20.102996 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 14:37:20 *** fill MODDEL ***** CPYRSDSF 14:37:20.116436 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:37:20.232326 dequeue IDSYSREC sucessfully RC: 0000 .	
--	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

\$\$\$\$V#G3

Input

STEP	InfoFLASH	Bemerkung
DELETE optional	DELETE &expohlq.EXPORT.CAT00288.VIDF003 DELETE &expohlq.EXPORT.CAT00303.VIDF0L3	nur bei &expocat = YES
EXPORT optional	EXPORT CATALOG.IDF0 TEMPORARY OUTFILE(VIDF003) EXPORT CATALOG.IDF0L TEMPORARY OUTFILE(VIDF0L3)	nur bei &expocat = YES
CPYINI0	SUSPEND = SETLOAD	SET LOG,LOGLOAD(0) und submit FLASH-Jobs
RESUME optional		nur bei &suspend = SUSPEND
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP		Bemerkung
DELETE optional	DELETE INFOMAT.IDF0.EXPORT.CAT00289.VIDF003 IDC0550I ENTRY (A) INFOMAT.IDF0.EXPORT.CAT00289.VIDF003 DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 DELETE INFOMAT.IDF0.EXPORT.CAT00304.VIDF0L3 IDC0550I ENTRY (A) INFOMAT.IDF0.EXPORT.CAT00304.VIDF0L3 DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 SET MAXCC = 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0	nur bei &expocat = YES
EXPORT optional	EXPORT CATALOG.IDF0 TEMPORARY OUTFILE(VIDF003) IDC0005I NUMBER OF RECORDS PROCESSED WAS 3207 IDC0594I PORTABLE DATA SET CREATED SUCCESSFULLY ON 06/21/16 AT 14:37:34 IDC1147I IT IS RECOMMENDED THAT DIAGNOSE AND EXAMINE BE RUN BEFORE IDC1147I IMPORT OF CATALOG IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 EXPORT CATALOG.IDF0L TEMPORARY OUTFILE(VIDF0L3) IDC0005I NUMBER OF RECORDS PROCESSED WAS 51 IDC0594I PORTABLE DATA SET CREATED SUCCESSFULLY ON 06/21/16 AT 14:37:35 IDC1147I IT IS RECOMMENDED THAT DIAGNOSE AND EXAMINE BE RUN BEFORE IDC1147I IMPORT OF CATALOG IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0	nur bei &expocat = YES EXPORT Userkataloge(e)
CPYINI0	CPYINI0 13:27:27 *** init \$\$\$\$STAT ***** CPYINI0 13:27:27 *** fill \$\$\$\$STAT ***** CPYDB2UP V11R2M000 22 Jun 2016 13:27:27 CPYDB2UP 13:27:27 *** check STC ***** IDF0MSTR is not running - RC = 4 CPYDB2UP V11R2M000 22 Jun 2016 13:27:27 CPYDB2UP 13:27:27 *** check STC ***** INFF011A 13:27:27 DB2SSID changed from GAN IDF0 to member IDF1 CPYINI0 13:27:27 *** init \$\$\$CNTL ***** adding IDF0CNTL: CINFO: START CDATUM: 160622 CZEIT: 132727 CLRSN: CINFO: LOGLOAD CDATUM: CZEIT: CLRSN: CINFO: SUSPEND CDATUM: CZEIT: CLRSN: CINFO: FLASHCOPY CDATUM: CZEIT: CLRSN: CINFO: RESUME CDATUM: CZEIT: CLRSN: CINFO: DEAD CDATUM: CZEIT: CLRSN: CPYDASDI V11R2M000 22 Jun 2016 13:27:27 INFF026I 13:27:27 16 record(s) read from DD DASDIN CPYDASDI 13:27:27 *** fill \$\$\$DSDI ***** CPYCHKV1 V11R2M000 22 Jun 2016 13:27:27 CPYCHKV1 13:27:27 *** check DSNSPACE ***** CPYDB2V1 V11R2M000 22 Jun 2016 13:27:30 CPYDB2V1 13:27:30 *** check FLSCONT ***** CPYSUS V11R2M000 22 Jun 2016 13:27:32 CPYDB2UP V11R2M000 22 Jun 2016 13:27:32 CPYDB2UP 13:27:32 *** check STC *****	ISPF-Tablen initialisieren

	<pre> CPYSUS 13:27:32 *** check ISPFIL ***** CPYSUS 13:27:32 *** read \$\$\$STAT ***** *****CPYCMD 1 ID11 IDF1 -IDF1 ACTIVE LOGLOAD(0) CPYCMD V11R2M000 22 Jun 2016 13:27:32 todo given: LOGLOAD(0) LOGGING of IDF0 . CPYDB2UP V11R2M000 22 Jun 2016 13:27:32 CPYDB2UP 13:27:32 *** check STC ***** CPYCMD 13:27:32 *** call CPYGMLOG ***** CPYGMLOG V11R2M000 22 Jun 2016 13:27:32 CPYGMLOG 13:27:32 *** send COMMAND ***** INFF008I 13:27:33 command given: R0 ID11,-IDF1 SET LOG LOGLOAD(0) CPYGMGET V11R2M000 22 Jun 2016 13:27:53 FLSCONS read from ASIS CPYGMGET 13:27:53 *** reading output **** *DSNJ333I . CPYJ333I V11R2M000 22 Jun 2016 13:27:53 CPYJ333I 13:27:53 *** reading rspfile *** INFF026I 13:27:53 6 record(s) read from DD GMIRSPNC from console FLSCONS cmd found: R0 ID11,-IDF1 SET LOG LOGLOAD(0) . response from STC STC00594 DSNJ333I -IDF1 DSNJC009 SYSTEM CHECKPOINT cmd complete: DSN9022I -IDF1 DSNJC001 '-SET LOG' NORMAL COMPLETION . CPYJ333I 13:27:53 *** reading msgfile *** IEA630I OPERATOR FLSCONS NOW ACTIVE, SYSTEM=ID11 , LU=INFOFCR . R0 ID11,-IDF1 SET LOG LOGLOAD(0) . DSNJ333I -IDF1 DSNJC009 SYSTEM CHECKPOINT INITIATED . DSN9022I -IDF1 DSNJC001 '-SET LOG' NORMAL COMPLETION . CPYGMGET 13:27:53 *** reading GMIPRINT ** INFF026I 13:27:53 43 record(s) read from DD GMIPRINT GMI019I Command ISSUE ended with RC 00, elapsed time 20.182 seconds CPYGMLOG V11R2M000 22 Jun 2016 13:27:53 CPYGMLOG 13:27:54 *** send COMMAND ***** INFF008I 13:27:54 command given: R0 ID11,-IDF1 DISPLAY LOG CPYGMGET V11R2M000 22 Jun 2016 13:28:15 FLSCONS read from ASIS CPYGMGET 13:28:15 *** reading output **** *DSNJ370I . CPYJ370I V11R2M000 22 Jun 2016 13:28:15 CPYJ370I 13:28:15 *** reading rspfile *** INFF026I 13:28:15 16 record(s) read from DD GMIRSPNC from console FLSCONS cmd found: R0 ID11,-IDF1 DISPLAY LOG . response from STC STC00594 DSNJ370I -IDF1 DSNJC00A LOG DISPLAY . response from STC STC00594 CURRENT COPY1 LOG = IDF0L.IDF1.LOGCOPY1.DS response from STC STC00594 CURRENT COPY2 LOG = IDF0L.IDF1.LOGCOPY2.DS response from STC STC00594 H/W RBA = 0000EBEC2968 ... response from STC STC00594 H/O RBA = 0000B9C1BFFF ... response from STC STC00594 FULL LOGS TO OFFLOAD = 0 OF 6 ... response from STC STC00594 OFFLOAD TASK IS (AVAILABLE) ... response from STC STC00594 SOFTWARE ACCELERATION IS DISABLED response from STC STC00594 DSNJ371I -IDF1 DB2 RESTARTED 13:25:24 JUN response from STC STC00594 RESTART RBA 0000EBEB9000 ... response from STC STC00594 CHECKPOINT FREQUENCY 10 MINUTES ... response from STC STC00594 LAST SYSTEM CHECKPOINT TAKEN 13:27:33 JUN cmd complete: DSN9022I -IDF1 DSNJC001 '-DISPLAY LOG' NORMAL COMPLETI CPYJ370I 13:28:15 *** reading msgfile *** INFF194I 13:28:15 processing IDF0, using HIGHEST WRITTEN LRSN: 0000EBEC2968 LAST SYSTEM CHECKPOINT TAKEN 13:27:33 JUN 22, 2016 . CPYGMGET 13:28:15 *** reading GMIPRINT ** INFF026I 13:28:15 43 record(s) read from DD GMIPRINT GMI019I Command ISSUE ended with RC 00, elapsed time 20.189 seconds CPYLSTBS V11R2M000 22 Jun 2016 13:28:15 INFBBSDS V9R1M004 22 Jun 2016 13:28:15 A001: INFBBSDS returns 1 BSDS datasetname(s) INFBBSDS 13:28:15 *** get BSDS name ***** INFB002I 13:28:16 command given: DB2INFO SUBSYSTEMNAME(IDF0) INFB000I 13:28:16 7 record(s) read from DD GMIDATA found BSDS names: IDF0L.IDF1.BSDS01 IDF0L.IDF1.BSDS02 INFBBSDS 13:28:16 *** checking BSDSLST ** &bsdsdsn, &bsdsdsn1, &bsdsdsn2 are ready to use in ASIS pool CPYLSTBS 13:28:16 *** scan BSDS ***** INFF026I 13:28:17 2648 record(s) read from DD SYSPRINT . . . BSDS listing . . . found CHECKPOINTS: 100 . CPYLSTBS 13:28:17 *** find CHKPT ***** lfd CP Member ENDRBA ENDLRSN SHUTDWON CHECKPOINT 1 IDF1 0000EBEC2862 D0EEC8204353 06/22/2016 11:27:33.623088 2 IDF1 0000EBEBE862 D0EEC7AECA9D 06/22/2016 11:25:34.639568 3 IDF1 0000EBEB86C8 D0EEC6748A42 06/22/2016 11:20:05.123104 YES 4 IDF1 0000EBEAF6A D0EEC63F81AE 06/22/2016 11:19:09.513440 . . . 100 IDF1 0000EBC45C6A D0EE0447BB40 06/21/2016 20:51:21.659392 1 IDF2 00008C6590FE D0EEC7E94551 06/22/2016 11:26:35.959568 2 IDF2 00008C653862 D0EEC5B6356A 06/22/2016 11:16:45.546144 3 IDF2 00008C64DAFC D0EEC42C631A 06/22/2016 11:09:52.594336 YES </pre>	<p>Member 1 aktiv</p> <p>SET LOG, LOGLOAD für ein aktives Member</p> <p>DISPLAY LOG für ein aktives Member</p> <p>BSDS Dateiname bestimmen</p> <p>BSDS ausgeben</p> <p>Liste der Checkpoints</p>
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	<pre> 4 IDF2 00008C645964 D0EEC3856E50 06/22/2016 11:06:57.528064 . . . 100 IDF2 00008C454D16 D0EDE2FBC05D 06/21/2016 18:22:23.618512 checking lastest three checkpoints ... member1 1 0000EBEC2862 D0EEC8204353 member1 2 0000EBEBE862 D0EEC7AEC9D accepting SHUTDOWN CHECKPOINT D0EEC6748A42 which within the last 30 checking lastest three checkpoints ... member2 1 00008C6590FE D0EEC7E94551 member2 2 00008C653862 D0EEC5B6356A accepting SHUTDOWN CHECKPOINT D0EEC42C631A which within the last 30 INFF196A 13:28:18 using D0EEC42C631A as RECOVER BASE LOG POINT (RBLP) CPYCMD 13:28:18 *** update \$\$\$STAT *** updating IDF0STAT with: DB2MEM: IDF1 SYSNAME: ID11 ID: 1 SUBSYS: IDF1 CMDPREF: -IDF1 STATUS: ACTIVE DB2LVL: 101 IRLMSUBS: DF1I IRLMPROC: IDF1IRLM ZUSTAND: LOGLOAD(0) LRSN: D0EEC42C631A ZTIME: 132732 ZJOBNAME: ZJOBNR: ZSTATUS: ZCHECK: . *****CPYCMD 2 ID12 IDF2 -IDF2 ACTIVE NOTHING CPYCMD V11R2M000 22 Jun 2016 13:28:18 todo given: NOTHING LOGGING of IDF0 . CPYDB2UP V11R2M000 22 Jun 2016 13:28:18 CPYDB2UP 13:28:18 *** check STC ***** CPYCMD 13:28:18 *** call CPYGMLOG ***** CPYGMLOG V11R2M000 22 Jun 2016 13:28:18 CPYGMLOG 13:28:18 *** send COMMAND ***** CPYCMD 13:28:19 *** update \$\$\$STAT *** updating IDF0STAT with: DB2MEM: IDF2 SYSNAME: ID12 ID: 2 SUBSYS: IDF2 CMDPREF: -IDF2 STATUS: ACTIVE DB2LVL: 101 IRLMSUBS: DF2I IRLMPROC: IDF2IRLM ZUSTAND: NOTHING LRSN: D0E884943262 ZTIME: 132818 ZJOBNAME: ZJOBNR: ZSTATUS: ZCHECK: . CPYSUS 13:28:19 *** update \$\$\$CNTL *** LOGLOAD(0) updating IDF0CNTL with: CINFO: DEAD CDATUM: 160622 CZEIT: 132932 CLRSN: CPYFLS V11R2M000 22 Jun 2016 13:28:19 CPYFLS 13:28:19 *** read DASDIN ***** INFF026I 13:28:19 16 record(s) read from DD DASDIN * generated by InfoMAT 21 Jun 2016 14:37:17 * selected FLASH-pool: \$ * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * * IDF000 602F \$DF000 644B i * IDF003 6030 \$DF003 644D - n . . . * IDF0L3 6231 \$DF0L3 6450 Ü 9 b CPYFLS 13:28:19 *** prepare submit **** CPYFLS 13:28:19 *** submitting ... **** CPYFLS 13:28:19.827096 enqueue IDF0SDC sucessfully RC: 0000 - try: 1 . IDF0T001 . CPYADR01 . IDF0V001 . INFF146I 13:28:20 job IDF0V001 submittet CPYFLS 13:28:20.675898 dequeue IDF0SDC sucessfully RC: 0000 . CPYFLS 13:28:20.682364 dequeue IDF0SDC sucessfully RC: 0004 . CPYWAITX V11R2M000 22 Jun 2016 13:28:20 CPYWAITX 13:28:20.695595 begin of wait 00001100 CPYWAITX 13:28:31.699167 end of wait 0 JOB JESId Status ***** Zeit seit SUSPEND: ca 0 Minuten 13:28:31 IDF0V001 JOB00598 OK </pre>	<p>RBLP bestimmen</p> <p>alle anderen Member anzeigen</p> <p>DASDIN lesen</p> <p>FLASH-Job submittet</p> <p>Status prüfen Job endet</p>
RESUME optional		nur bei &suspend = SUSPEND
CPYSDFS	<pre> found jobname: IDF0V#G3 . CPYRSDSF 13:28:34 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDF0V#G3 allocated. ***** - IDBUNK1.IDF0V#G3.JOB00597.D0000109.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G3.JOB00597.D0000109 allocated. ***** - IDBUNK1.IDF0V#G3.JOB00597.D0000106.? . lines read: 3221 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G3.JOB00597.D0000106 allocated. CPYRSDSF 13:28:37 *** fill IDSYSREC ***** CPYRSDSF 13:28:37.163320 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 13:28:37.541707 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 13:28:37 *** fill MODEL ***** CPYRSDSF 13:28:37.555038 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 13:28:37.916756 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>

\$\$\$\$V001

Input

STEP	InfoFLASH	Bemerkung
FULLDATA	COPY FULL IDY(invol) ODY(outvol) - DUMPCONDITIONING - PURGE ADMIN ALLDATA(*) ALLEXCP - FCTOPPRCPPRIMARY(PMP) - FASTREP(REQ)	ADRDSU nur für Volumes mit Userdaten
FULLLOG	COPY FULL IDY(invol) ODY(outvol) - DUMPCONDITIONING - PURGE ADMIN ALLDATA(*) ALLEXCP - FCTOPPRCPPRIMARY(PMP) - FASTREP(REQ)	ADRDSU nur für Volumes mit LOG/BSDS Daten
STEPOK		FLASH endet mit RC = 0
STEPRC		FLASH endet mit RC > 0
STEPAB		FLASH endet mit ABEND

Output

Step		Bemerkung
FULLDATA	ADR006I 2016.174 14:11:10 EXECUTION BEGINS ADR241I TARGET VTOC BEGINNING AT 0000:01 AND ENDING AT 0017:14 IS OVERLAID ADR806I VOLUME IDF003 WAS COPIED USING A FAST REPLICATION FUNCTION ADR006I 2016.174 14:11:11 EXECUTION ENDS ADR013I 2016.174 14:11:11 TASK COMPLETED WITH RETURN CODE 0000	FLASHCOPY Dauer: 1 Sekunde FR wurde benutzt
FULLLOG	ADR006I 2016.174 14:11:12 EXECUTION BEGINS ADR241I TARGET VTOC BEGINNING AT 0000:01 AND ENDING AT 0017:14 IS OVERLAID ADR806I VOLUME IDF011 WAS COPIED USING A FAST REPLICATION FUNCTION ADR006I 2016.174 14:11:13 EXECUTION ENDS ADR013I 2016.174 14:11:13 TASK COMPLETED WITH RETURN CODE 0000	FLASHCOPY Dauer: 1 Sekunde FR wurde benutzt
STEPOK	CPYADRED 14:11:14 *** check status ***** INFF170I 14:11:14 normal end of FLASH-Step, status: OK CPYADRED 14:11:14 *** update \$\$\$CNTL *** CPYADRED 14:11:14.222155 enqueue IDF0SDC successfully RC: 0000 - try: 1 . CPYADRED 14:11:14.260797 dequeue IDF0SDC successfully RC: 0000 . INFF012I 14:11:14 Table IDF0T001 updated with OK	Nur ein Step ist möglich, je nach COND von ADRDSU
STEPRC		
STEPAB		

\$\$\$\$V#ST

Input

STEP	InfoFLASH	Bemerkung
CPYIFSTA		FCQUERY
LOAD		FLSINCR laden
TERMUTIL		TS Zugriff gewährleisten
CPYGENWD		
CPYSDFS optional		nur bei &storsdfs = YES

Output

STEP		Bemerkung
CPYIFSTA	CPYIFSTA 14:14:51 *** read DASDIN ***** INFF026I 14:14:51 16 record(s) read from DD DASDIN * generated by InfoMAT 21 Jun 2016 14:37:17 * selected FLASH-pool: \$ * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDF000 602F \$DF000 644B i IDF003 6030 \$DF003 644D - n ... IDF0L3 6231 \$DF0L3 6450 Ü 9 b CPYIFSTA 14:14:51 *** read SYSPRINT ***** 14:14:51 Durchlauf 1 ***** CPYIFSTA 14:14:51 *** exec FCQUERY ***** IDF000 CPYIFSTA 14:16:09 *** reading SYSPRINT ** INFF026I 14:16:09.395494 - 185 record(s) read from DD SYSPRINT	DASDIN Member auslesen zyklische Abfrage der BackGroundCopy ...

	<pre> Sessionlist: 0 0 0 1236* . IDF000 (ONLINE) - tracks to copy: 1236 . CPYIFSTA 14:16:09 *** exec FCQUERY ***** IDF003 CPYIFSTA 14:16:22 *** reading SYSPRINT ** INFF026I 14:16:22.656141 - 101 record(s) read from DD SYSPRINT Sessionlist: 3528 16680 8355 2085 210 375 195 3480 2055 30915 45 840 390 3375 3 4 450 1 IDF003 (ONLINE) - tracks to copy: 74775 </pre>	<pre> ... bis keine Spuren mehr zu kopieren sind </pre>
LOAD	<pre> DSNU050I LOAD DATA INDDN EIN LOG YES RESUME YES DSNU650I INTO TABLE FLSIF112.FLSINCR DSNU650I (DATUM POSITION(1:10) DATE EXTERNAL, DSNU650I UHRZEIT POSITION(12:19) TIME EXTERNAL, DSNU650I VOLSER POSITION(21:26) CHAR, DSNU650I TRACKS2COPY POSITION(28:35) INTEGER EXTERNAL, DSNU650I ELAPSED_TIME POSITION(37:44) CHAR) DSNU304I (RE)LOAD PHASE STATISTICS - NUMBER OF RECORDS=13 FOR TABLE FLSIF112.FLSINCR DSNU1147I (RE)LOAD PHASE STATISTICS - TOTAL NUMBER OF RECORDS LOADED=13 FOR TABLESPACE FLSIF112.FLSINCR DSNU302I (RE)LOAD PHASE STATISTICS - NUMBER OF INPUT RECORDS PROCESSED=13 DSNU300I (RE)LOAD PHASE COMPLETE, ELAPSED TIME=00:00:00 DSNU3340I UTILITY PERFORMS DYNAMIC ALLOCATION OF SORT DISK SPACE DSNU042I SORT PHASE STATISTICS - NUMBER OF RECORDS=13 ELAPSED TIME=00:00:00 DSNU349I BUILD PHASE STATISTICS - NUMBER OF KEYS=13 FOR INDEX FLSIF112.FLSINCR_IX1 DSNU258I BUILD PHASE STATISTICS - NUMBER OF INDEXES=1 DSNU259I BUILD PHASE COMPLETE, ELAPSED TIME=00:00:00 DSNU010I UTILITY EXECUTION COMPLETE, HIGHEST RETURN CODE=0 </pre>	Tabelle FLSINCR laden
TERMUTIL	<pre> -TER UTIL(IDF0V#ST) DSNU112I NO AUTHORIZED UTILITY FOUND FOR UTILID = IDF0V#ST DSN9022I '-TER UTIL' NORMAL COMPLETION </pre>	TS Zugriff gewährleisten
CPYGENWD	<pre> CPYRSTMM 14:33:26 *** read DASDIN DD **** INFF026I 14:33:26 DASDIN record(s) read from DD * generated by InfoMAT 21 Jun 2016 14:37:17 * selected FLASH-pool: \$ * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDF000 602F \$DF000 644B i IDF003 6030 \$DF003 644D - n . . . IDF0L3 6231 \$DF0L3 6450 Ü 9 b 16 records read CPYRSTMM 14:33:26 *** METRO MIRROR ***** CPYRSTMM 14:33:26 *** calling ICKDSF ***** IDF000 CPYRSTMM 14:33:26 *** read SYSPRINT ***** INFF026I 14:33:26 24 record(s) read from DD SYSPRINT IDF000 - VOLUME NOT IN FLASHCOPY RELATION 1 IDF000 (602F) - N/A - has no relation(s) tucb: . CPYRSTMM 14:33:26 *** calling ICKDSF ***** IDF003 CPYRSTMM 14:33:27 *** read SYSPRINT ***** INFF026I 14:33:27 24 record(s) read from DD SYSPRINT IDF003 - VOLUME NOT IN FLASHCOPY RELATION 1 IDF003 (6030) - N/A - has no relation(s) tucb: CPYRSTMM 14:33:29 *** calling ICKDSF ***** IDF0L3 CPYRSTMM 14:33:29 *** read SYSPRINT ***** INFF026I 14:33:30 24 record(s) read from DD SYSPRINT IDF0L3 - VOLUME NOT IN FLASHCOPY RELATION 1 IDF0L3 (6231) - N/A - has no relation(s) tucb: . CPYRSTMM 14:33:30 *** list ISPF table *** INFF107I 14:33:30 candidate list IDF0MM created: 16/06/22 14:33:26 last used: 16/06/22 14:33:30 (00000012 1 2 2) pvolser pssid plss pcca pucb svolser ssid slss scca suchb persist fcwdr IDF000 602F \$DF000 644B F NO IDF003 6030 \$DF003 644D F NO . . . IDF0L3 6231 \$DF0L3 6450 F NO CPYGENWD 14:33:30 *** gener FCWITHDR ***** INFF000I 14:33:30 Job IDF0P00B generated </pre>	<pre> METRO MIRROR table: created, last used, (rows, exists, open, readonly) FCWITHDR Job </pre>
CPYSDSF	<pre> found jobname: IDF0V#ST . CPYRSDSF 14:33:31 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDF0V#ST allocated. ***** - IDBUNK1.IDF0V#ST.JOB00602.D0000118.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDF0V#ST.JOB00602.D0000118 allocated. ***** - IDBUNK1.IDF0V#ST.JOB00602.D0000115.? . </pre>	<pre> nur bei &storsdsf = YES SYSTSPRT aus laufendem Job extrahieren </pre>

InfoDesign

	<pre> lines read: 256 SYSTSPRT file: INFOMAT.IDF0.IDF0V#ST.JOB00602.D0000115 allocated. ***** - IDBUNK1.IDF0V#ST.JOB00602.D0000112.? . lines read: 11 SYSTSPRT file: INFOMAT.IDF0.IDF0V#ST.JOB00602.D0000112 allocated. ***** - IDBUNK1.IDF0V#ST.JOB00602.D0000108.? . lines read: 4791 SYSTSPRT file: INFOMAT.IDF0.IDF0V#ST.JOB00602.D0000108 allocated. CPYRSDSF 14:33:33 *** fill IDSYSREC ***** CPYRSDSF 14:33:33.186413 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:33:33.335004 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 14:33:33 *** fill MODDEL ***** CPYRSDSF 14:33:33.340218 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:33:33.461253 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	
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\$\$\$V#G4

Input

STEP	InfoFLASH	Bemerkung
CPYINIX		InfoFLASH – Verwaltungslauf für ISPF
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP		Bemerkung
CPYINIX	<pre> CPYCHECK V11R2M000 22 Jun 2016 14:53:31 CPYCHECK 14:53:31 *** check ISPF & DB2 ** INFF014I 14:53:31 status of LOGLOAD command YMMDD HHMMSS LRSN START 160622 141021 LOGLOAD 160622 141022 D0EECC61AED8 SUSPEND FLASHCOPY 160622 141121 ok return_code=0 RESUME DEAD 160622 141221 INFF015I 14:53:31 status of DB2 subsystems DB2MEM SUBSYS SYSNAME IDF1 IDF1 ID11 IDF2 IDF2 ID12 INFF016I 14:53:31 status of volumes i Source VOLSER - Adresse Target VOLSER - Adresse 1 IDF000 602F \$DF000 644B 2 IDF003 6030 \$DF003 644D . . . 12 IDF0L3 6231 \$DF0L3 6450 INFF017I 14:53:31 status of submitted jobs ISPF-Tabelle von DASD-Nr bis DASD-Nr Jobname Jobnummer Status IDF0T001 1 12 IDF0V001 JOB00601 OK CPYDB2N2 V11R2M000 22 Jun 2016 14:53:31 CPYDB2N2 14:53:31 *** update FLSCONT ***** IDF0CNTL START . 160622 . 141021 . IDF0CNTL LOGLOAD . 160622 . 141022 . D0EECC61AED8 . IDF0CNTL SUSPEND . IDF0CNTL FLASHCOPY . 160622 . 141121 . ok return_code=0 . IDF0CNTL RESUME . IDF0CNTL DEAD . 160622 . 141221 . IDF0FLCP D0E884943262 . 160617 . 141026 . INFF018I 14:53:32 reords of DB2-table FLSIF112.FLSCONT Datum Zeit LRSN 160622 141022 D0EECC61AED8 INFF020I 14:53:32 ***** FLashCOPY with LRSN D0EECC61AED8 can be used ***** </pre>	FLASHCOPY ist für RECOVERY bestätigt
CPYSDSF	<pre> found jobname: IDF0V#G4 . CPYRSDSF 14:53:32 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDF0V#G4 allocated. ***** - IDBUNK1.IDF0V#G4.JOB00606.D0000107.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G4.JOB00606.D0000107 allocated. ***** - IDBUNK1.IDF0V#G4.JOB00606.D0000104.? . lines read: 208 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G4.JOB00606.D0000104 allocated. CPYRSDSF 14:53:34 *** fill IDSYSREC ***** </pre>	nur bei &storsdsf = YES SYSTSPRT aus laufendem Job extrahieren

InfoDesign

	CPYRSDSF 14:53:34.013960 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 .	
	CPYRSDSF 14:53:34.173626 dequeue IDSYSREC sucessfully RC: 0000 .	
	CPYRSDSF 14:53:34 *** fill MODEL *****	
	CPYRSDSF 14:53:34.177883 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 .	
	CPYRSDSF 14:53:34.314122 dequeue IDSYSREC sucessfully RC: 0000 .	

\$\$\$\$V#G5

Input

STEP	InfoFLASH	Bemerkung
IDCAMS	DEL &workpref..FLSDCOLL	
CPYDMPFL		DUMP-Jobs
CPYUPTBL		Pflege FLASH-Tabellen
STOPSTRT	-STO DB(&idcreate) SPACE(FLSDASDI) -STA DB(&idcreate) SPACE(FLSDASDI)	STOP/STRT FLASH- TS
CPYRSTFL		RESTORE-Jobs
CPYSDSF optional		nur bei &storsdsf = YES

Output

[illegible]

	<pre> INFF161I 08:50:35 Length of START_RBA in SYSCOPY: 6 (byte) INFF161I 08:50:35 Length of SUSPEND_LRSN in FLSDASDI: 12 (char) CPYUPTBL 08:50:35 *** select INFONOIC *** INFF135I 08:50:35 no table FLSIF112.INFONOIC found, using default minlrsn: FFFFFFFFFF CPYUPTBL 08:50:35 *** update FLSDASDI *** INFF026I 08:50:35 16 record(s) read from DD DASDIN * generated by InfoMAT 21 Jun 2016 14:37:17 * selected FLASH-pool: \$ * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * * IDF000 602F \$DF000 644B i * IDF003 6030 \$DF003 644D - n . . . * IDF0L3 6231 \$DF0L3 6450 Ü 9 b CPYUPTBL 08:50:35 *** reading DCOLLOUT ** INFF026I 08:50:35 12 record(s) read from DD DCOLLOUT V ID11 j_ ^ \$DF001 ... V ID11 j_ ^ \$DF0L2 V ID11 j_ ^ \$DF005 ... INFF022I 08:50:38 12 record(s) added to FLSIF112.FLSDASDI CPYUPTBL 08:50:38 *** update FLSHIST **** FLSHIST: 2016-06-22-14.10.22.000000 D0EECC61AED8 2016-06-23-08.50.31.590729 12 INFF022I 08:50:38 one record(s) added to FLSIF112.FLSHIST </pre>	<p>non extended LRSN</p> <p>Tabelle INFONOIC wird im InfoMAT gefüllt FLASH-Tabellen befüllen</p> <p>update FLSDASDI</p> <p>update FLSHIST</p>
STOPSTRT	<pre> -STO DB(FLSIF112) SPACE(FLSDASDI) DSN9022I -IDF1 DSNITDDIS 'STOP DATABASE' NORMAL COMPLETION -STA DB(FLSIF112) SPACE(FLSDASDI) DSN9022I -IDF1 DSNITDDIS 'START DATABASE' NORMAL COMPLETION </pre>	<p>FLSDASDI auf Platte schreiben</p>
CPYRSTFL	<pre> CPYRSTFL 08:50:40 *** read DASDIN DD **** INFF026I 08:50:40 16 record(s) read from DD DASDIN * generated by InfoMAT 21 Jun 2016 14:37:17 * selected FLASH-pool: \$ * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * * IDF000 602F \$DF000 644B i * IDF003 6030 \$DF003 644D - n . . . * IDF0L3 6231 \$DF0L3 6450 Ü 9 b \$DF000 . . . CPYRSTFL 23 Jun 2016 08:50:40 *** prepare ICKDSF **** IDC0550I ENTRY (A) INFOMAT.IDF0.MEMBER.GMIRSPNC.LISTSG DELETED IDC0550I ENTRY (A) INFOMAT.IDF0.MEMBER.GMIPRINT.LISTSG DELETED CPYRSTFL 08:50:41 *** send COMMAND ***** INFF008I 08:50:41 command given: D SMS,SG(IDF0DB2),LISTVOL CPYRSTFL 08:50:47 *** reading file ***** # of lines read from GMIRSPNC: 24 . cmd complete: SYSTEM 4 = ID13 . CPYRSTFL 08:50:47 *** generating JCL **** INFF000I 08:50:47 Job IDF0W020 generated INFF000I 08:50:47 Job IDF0W021 generated . . . INFF000I 08:50:49 Job IDF0W00A generated </pre>	<p>DASD-Member einlesen</p> <p>RESTORE-Jobs</p> <p>RELOAD JOB</p>
CPYSDSF	<pre> found jobname: IDF0V#G5 . CPYRSDSF 08:50:50 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDF0V#G5 allocated. ***** - IDBUNK1.IDF0V#G5.JOB01239.D0000121.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G5.JOB01239.D0000121 allocated. ***** - IDBUNK1.IDF0V#G5.JOB01239.D0000118.? . lines read: 238 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G5.JOB01239.D0000118 allocated. ***** - IDBUNK1.IDF0V#G5.JOB01239.D0000115.? . lines read: 12 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G5.JOB01239.D0000115 allocated. ***** - IDBUNK1.IDF0V#G5.JOB01239.D0000113.? . lines read: 200 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G5.JOB01239.D0000113 allocated. ***** - IDBUNK1.IDF0V#G5.JOB01239.D0000110.? . lines read: 235 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G5.JOB01239.D0000110 allocated. CPYRSDSF 08:50:52 *** fill IDSYSREC ***** CPYRSDSF 08:50:52.337612 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 08:50:52.497906 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 08:50:52 *** fill MODEL ***** CPYRSDSF 08:50:52.503979 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 08:50:52.632994 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>

\$\$\$\$V#U3

Input

STEP	InfoFLASH	Bemerkung
CPYT0SCH	MEM = IDF0V	Scheduler API

Output

STEP		Bemerkung
CPYT0SCH	CPYT0UC4 09:12:57 *** scan jobs ***** CPYEDUC4 V11R2M000 23 Jun 2016 09:12:57 *** EDIT: IDF0V020 CPYT0UC4 09:12:57 *** create #FT ***** IDF0V020 DUMP2TAPE 10 0 99 DUMP . INFF000I 09:12:57 Job #IDF0VFT generated	Erstellung des Members #\$\$\$\$VFT in &genlib

\$\$\$\$V02n

Input

STEP	InfoFLASH	Bemerkung
DELETE optional	DELETE &dumppref.Dvolser.Djjddd.Tsssss DELETE &dumppref.Lvolser.Djjddd.Tsssss	&ignoffl = NO Daten-Volume LOG-Volume
DUMPn	DUMP FULL - ADMINISTRATOR - INDD(DASD1) - OUTDD(TAPE1) - ALLDATA(*) ALLEXCP OPTIMIZE(4)	ADRDSU
UPDTn	//REXSYSIN DD * DUMPDSN = &dumppref.Dvolser.Djjddd.Tsssss //SYSIN DD * 5BC4C6F0F0F4E7000000000F00138A7F006B5406007EDE8500000FD00082812000000	&ignoffl = NO
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP		Bemerkung
DELETE	DELETE INFOFLSH.ADRDSU.IDF0.D\$DF004.D16175.T31828 IDC3012I ENTRY INFOFLSH.ADRDSU.IDF0.D\$DF004.D16175.T31828 NOT FOUND IDC3009I ** VSAM CATALOG RETURN CODE IS 8 - REASON CODE IS IGG0CLEG-42 IDC0551I ** ENTRY INFOFLSH.ADRDSU.IDF0.D\$DF004.D16175.T31828 NOT IDC0551I DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 8 DELETE INFOFLSH.ADRDSU.IDF0.L\$DF004.D16175.T31828 IDC3012I ENTRY INFOFLSH.ADRDSU.IDF0.L\$DF004.D16175.T31828 NOT FOUND IDC3009I ** VSAM CATALOG RETURN CODE IS 8 - REASON CODE IS IGG0CLEG-42 IDC0551I ** ENTRY INFOFLSH.ADRDSU.IDF0.L\$DF004.D16175.T31828 NOT IDC0551I DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 8 SET MAXCC EQ 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0	Löschen für eventuellen Wiederanlauf
DUMPn	ADR016I (002)-PRIME(01), RACF LOGGING OPTION IN EFFECT FOR THIS TASK ADR006I (002)-STEND(01), 2016.175 09:14:29 EXECUTION BEGINS ADR006I (002)-STEND(02), 2016.175 09:18:34 EXECUTION ENDS ADR013I (002)-CLTSK(01), 2016.175 09:18:34 TASK COMPLETED WITH RETURN CODE 0000	ADRDSU.DUMP
UPDTn	CPYDMPUP 09:23:15 *** update FLSDASDI *** INFF026I 09:23:15 1 record(s) read from DD DUMPDSN INFF041I 09:23:15 FLASH-volser \$DF002 updated in FLSIF112.FLSDASDI CPYDMPUP 09:23:15 *** get columns ***** CPYDMPUP 09:23:15 *** insert FLSTAPE *** SRCVOL TGTVOL SUSPEND_TIMESTAMP SUSPEND_LRSN LOG IDF002 \$DF002 2016-06-22-14.10.22.000000 D0EECC61AED8 N . begin of insert 09:23:15.536917 end of insert 09:23:15.601810 1 records inserted into FLSTAPE (11 columns). CPYDMPUP 09:23:15 *** delete FLSTAPE *** 0 records with OFFLOAD_STATUS = IGNORED, TGTVOL = \$DF002 and RETPD > deleted from FLSIF112.FLSTAPE (RC:100)	Update in FLSDASDI Insert in FLSTAPE Nicht katalogisierte Einträge aus FLSTAPE löschen

CPYSDSF	<pre> CPYRX2IS V11R2M000 23 Jun 2016 09:51:37 DB2 modules are not preloaded. CPYRSDSF V11R2M000 23 Jun 2016 09:51:37 found jobname: IDFOV020 . CPYRSDSF 09:51:37 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDFOV020 allocated. ***** - IDBUNK1.IDFOV020.JOB01246.D0000211.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDFOV020.JOB01246.D0000211 allocated. ***** - IDBUNK1.IDFOV020.JOB01246.D0000208.? . lines read: 180 SYSTSPRT file: INFOMAT.IDF0.IDFOV020.JOB01246.D0000208 allocated. . . . ***** - IDBUNK1.IDFOV020.JOB01246.D0000153.? . lines read: 180 SYSTSPRT file: INFOMAT.IDF0.IDFOV020.JOB01246.D0000153 allocated. CPYRSDSF 09:51:42 *** fill IDSYSREC ***** CPYRSDSF 09:51:42.447739 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 09:51:42.544212 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 09:51:42 *** fill MODEL ***** CPYRSDSF 09:51:42.547806 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 09:51:42.650980 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>
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\$\$\$V#TM

Input

STEP	InfoFLASH	Bemerkung
CPYTMSTA		
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP	InfoFLASH	Bemerkung
CPYTMSTA	<pre> CPYTMSTA 09:55:26 *** get RMM info ***** SD-cont: . INFF173I 09:55:29 348 records found in RMM with INFOFLSH.ADRDSSU.IDF0.** INFF173I 09:55:30 60 records found in FLSIF112.FLSTAPE with OFFLOAD_STATUS OKAY dsname . credt 1 1 INFOFLSH.ADRDSSU.IDF0.D\$DF000.D16168.T51395 . 16/06/2016 2 2 INFOFLSH.ADRDSSU.IDF0.D\$DF000.D16169.T47117 . 17/06/2016 . . . 60 348 INFOFLSH.ADRDSSU.IDF0.LIDF0B9.D16173.T31409 . 21/06/2016 </pre>	<p>Liste aller in FLSTAPE gefundenen TAPes +&dumpret: parametrisiertes EXPDT errechnetes crdate <> aktuelles crdate</p>
CPYSDSF	<pre> found jobname: IDFOV#TM . CPYRSDSF 09:55:34 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDFOV#TM allocated. ***** - IDBUNK1.IDFOV#TM.JOB01264.D0000107.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDFOV#TM.JOB01264.D0000107 allocated. ***** - IDBUNK1.IDFOV#TM.JOB01264.D0000104.? . lines read: 228 SYSTSPRT file: INFOMAT.IDF0.IDFOV#TM.JOB01264.D0000104 allocated. CPYRSDSF 09:55:35 *** fill IDSYSREC ***** CPYRSDSF 09:55:35.838384 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 09:55:36.053992 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 09:55:36 *** fill MODEL ***** CPYRSDSF 09:55:36.061662 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 09:55:36.252140 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>

\$\$\$V#G6

Input

STEP	InfoFLASH	Bemerkung
CPYRSTML		RESTORE-Fähigkeit
CPYFLSCM		FLASHCOPY Status COMPLETE
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP		Bemerkung
CPYRSTML	<pre> CPYRSTML 10:00:37 *** read FLS tables *** INFF109I 10:00:37 SQL-Code: 0 - found objects: 5 - records from FLSHIST using MINLRSN FFFFFFFFFF . INFF109I 10:00:38 SQL-Code: 0 - found objects: 5 - records from FLSDASDI, FLSTAPE CPYXLRN V11R2M000 23 Jun 2016 10:00:38 CPYXLRN 10:00:38 *** select SYSCOLUMNS * INFF161I 10:00:38 Length of START_RBA in SYSCOPY: 6 (byte) INFF161I 10:00:38 Length of SUSPEND_LRSN in FLSDASDI: 12 (char) CPYRSTML 10:00:38 *** write \$\$\$\$MINL *** restorable SUSPEND_LRSN: IDFO LRSN TIMESTAMP ANZAHL_DASD OFFLOADED ONLINE STATUS D0EECC61AED8 2016-06-22-14.10.22 12 YES YES OKAY D0EC648C078F 2016-06-20-16.00.55 12 YES YES OKAY . . . D0E743353F0F 2016-06-16-14.13.21 12 YES NO OKAY CPYRSTML 10:00:38.436474 enqueue MINLRSN sucessfully RC: 0000 - try: 1 . CPYRSTML 10:00:38.514546 dequeue MINLRSN sucessfully RC: 0000 . INFF174I 10:00:38 5 record(s) written to member IDFOMINL in //MINLRSN DD. CPYRSTML 10:00:38.528730 dequeue MINLRSN sucessfully RC: 0004 . </pre>	Liste der FLASHCOPY's zu denen noch Tapes und LOG existieren (auf Basis der Tabelle INFONOC, oder FLASHCOPY's, die noch ONLINE sind)
CPYFLSCM	<pre> CPYFLSCM 10:00:39 *** check FLSHADOW *** updating FLSHADOW ... (FLASH_ACTIVE = 'OLD') copying FLSDASDI in FLSHADOW ... (FLASH_ACTIVE = 'YES') deleting FLSHADOW ... (FLASH_ACTIVE <=> 'YES') CPYFLSCM 10:00:40 *** update FLSHADOW *** updating FLSHADOW ... (FLASH_ACTIVE = 'NO') INFF143I 10:00:40 FLASHCOPY is set to "COMPLETE" </pre>	FLSDASDI und FLSHADOW bekommen gleichen Inhalt.
CPYSDSF	<pre> found jobname: IDFOV#G6 . CPYRSDSF 10:00:41 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDFO.SYSIN.LOAD.IDFOV#G6 allocated. ***** - IDBUNK1.IDFOV#G6.JOB01265.D0000111.? . lines read: 7 SYSTSPRT file: INFOMAT.IDFO.IDFOV#G6.JOB01265.D0000111 allocated. ***** - IDBUNK1.IDFOV#G6.JOB01265.D0000108.? . lines read: 172 SYSTSPRT file: INFOMAT.IDFO.IDFOV#G6.JOB01265.D0000108 allocated. ***** - IDBUNK1.IDFOV#G6.JOB01265.D0000105.? . lines read: 178 SYSTSPRT file: INFOMAT.IDFO.IDFOV#G6.JOB01265.D0000105 allocated. CPYRSDSF 10:00:43 *** fill IDSYSREC ***** CPYRSDSF 10:00:43.056534 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 10:00:43.208165 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 10:00:43 *** fill MODEL ***** CPYRSDSF 10:00:43.212839 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 10:00:43.329281 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	nur bei &storsdsf = YES SYSTSPRT aus laufendem Job extrahieren

\$\$\$\$V#GL

Input

STEP	InfoFLASH	Bemerkung
LOAD	LOAD DATA LOG YES RESUME YES INTO TABLE &idcreate.FLSTSPRT	

Output

STEP		Bemerkung
LOAD	<pre> DSNU050I LOAD DATA LOG YES RESUME YES DSNU650I INTO TABLE FLSIF112.FLSTSPRT DSNU650I (PRODUCT POSITION(1:10) CHAR, DSNU650I VERSION POSITION(12:21) CHAR, DSNU650I JOBNAME POSITION(23:30) CHAR, DSNU650I JESID POSITION(32:39) CHAR, DSNU650I DSID POSITION(41:48) CHAR, DSNU650I SYSTSPRT POSITION(50:93) CHAR CLOBF) DSNU304I (RE)LOAD PHASE STATISTICS - NUMBER OF RECORDS=134 FOR TABLE FLSIF112.FLSTSPRT DSNU1147I (RE)LOAD PHASE STATISTICS - TOTAL NUMBER OF RECORDS LOADED=134 FOR TABLESPACE FLSIF112.FLSTSPRT DSNU3340I UTILITY PERFORMS DYNAMIC ALLOCATION OF SORT DISK SPACE DSNU302I (RE)LOAD PHASE STATISTICS - NUMBER OF INPUT RECORDS PROCESSED=134 </pre>	

InfoDesign

DSNU300I	(RE)LOAD PHASE COMPLETE, ELAPSED TIME=00: 00:09	
DSNU042I	SORT PHASE STATISTICS - NUMBER OF RECORDS=268 ELAPSED TIME=00:00:00	
DSNU349I	BUILD PHASE STATISTICS - NUMBER OF KEYS=28 FOR INDEX FLSIF112.FLSTSPRT_IX1	
DSNU349I	BUILD PHASE STATISTICS - NUMBER OF KEYS=134 FOR INDEX FLSIF112.FLSTSPRT_IX2	
DSNU258I	BUILD PHASE STATISTICS - NUMBER OF INDEXES=2	
DSNU259I	BUILD PHASE COMPLETE, ELAPSED TIME=00:000:00	
DSNU356I	INDEXVAL PHASE COMPLETE, ELAPSED TIME=00:00:00	
DSNU3340I	UTILITY PERFORMS DYNAMIC ALLOCATION OF SORT DISK SPACE	
DSNU396I	REPORT PHASE COMPLETE, ELAPSED TIME=00:00:00	
DSNU010I	UTILITY EXECUTION COMPLETE, HIGHEST RETURN CODE=0	

InfoFLASH ICR

\$\$\$\$V#pv

Input

STEP	InfoFLASH	Bemerkung
CPYPARMV		

Output

Step		Bemerkung
CPYPARMV	INFF172I 08:31:16 found jobname: IDFCV#IF, selected PARMVERS: IF SETP-Member created in INFOFLSH.V11R2M0.CNTL.PIT(IDFCSETP) SETP: /* IDFCSETP PARAMETER SET BY IDFCV#IF 14/06/16 08:31:16 SETP: // SET PARMVERS=IF	

\$\$\$\$V#G0

Input

STEP	InfoFLASH (optional: TSR)	Bemerkung
FLASHGEN	FUNCTION = FLASHGEN JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix
FLASHRUN	FUNCTION = FLASHRUN JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix
FLASHUC4	FUNCTION = FLASHUC4 JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix
PITGEN	FUNCTION = PITGEN JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix
TSRGEN optional	FUNCTION = TSRGEN JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix
ADDON optional	FUNCTION = ADDON JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix

Output

Step		Bemerkung
FLASHGEN	CPYGENST 10:12:37 *** get I,J suffix **** CPYCHKPA V11R2M000 14 Jun 2016 10:12:38 CPYCHKPA 10:12:38 *** checking parms **** INFF151I 10:12:38 Combination of given parameters is valid. &mirror: INCR &flsskel: CPYADRIF &subchar: (\$,#) &pool2use: \$ &flshmode: FULL &suspend: SETLOAD &dumpclas: &subscol: 1 &hsmstc: &hsmbcds: CPYCHKPA 10:12:38 *** checking chars **** CPYXLRN V11R2M000 14 Jun 2016 10:12:38 CPYXLRN 10:12:38 *** select SYSCOLUMNS * INFF161I 10:12:38 Length of START_RBA in SYSCOPY: 10 (byte) INFF161I 10:12:38 Length of SUSPEND_LRSN in FLSDASDI: 20 (char) CPYGENST 10:12:38 *** build JCL ***** INFF000I 10:12:38 Job IDFCV#G1 generated INFF000I 10:12:38 Job IDFCV#G2 generated INFF000I 10:12:38 Job IDFCV#G3 generated INFF000I 10:12:38 Job IDFCV#ES generated Member IDFC#MD# (re)created in INFOFLSH.V11R2M0.CNTL.PIT .	EXTENDED LRSN

	<p>Member IDFC#SD# (re)created in INFOFLSH.V11R2M0.CNTL.PIT .</p> <p>CPYXGRES V11R2M000 14 Jun 2016 10:12:38</p> <p>CPYMDRES V11R2M000 10:12:39 ***** EDIT MACRO *****</p> <p>INFOFLSH.V11R2M0.SLIB.PIT(CPYXDRES) found</p> <p>INFOFLSH.V11R2M0.SLIB.PIT(CPYPLIB) found</p> <p>INFOFLSH.V11R2M0.SLIB.PIT(CPYBSURP) found</p> <p>Result of copying 'INFOFLSH.V11R2M0.SLIB.PIT(CPYXDRES)': RC: 0 .</p> <p>Result of copying 'INFOFLSH.V11R2M0.SLIB.PIT(CPYPLIB)': RC: 0 .</p> <p>Result of copying 'INFOFLSH.V11R2M0.SLIB.PIT(CPYBSURP)': RC: 0 .</p> <p>INFF000I 10:12:40 Job IDFCX#XC generated</p>	JCL von \$\$\$\$XCAT wird in JCL \$\$\$\$X#XC kopiert
FLASHRUN	<p>CPYGENST 10:12:42 *** get I,J suffix ****</p> <p>CPYCHKPA V11R2M000 14 Jun 2016 10:12:42</p> <p>CPYCHKPA 10:12:42 *** checking parms ****</p> <p>INFF151I 10:12:42 Combination of given parameters is valid.</p> <p>&mirror: INCR</p> <p>&flsskel: CPYADRIF &subschar: (\$,#)</p> <p>&pool2use: \$ &flshmode: FULL &suspend: SETLOAD</p> <p>&dumpclas: &subscol: 1</p> <p>&hsmstc: &hsmbcds:</p> <p>CPYCHKPA 10:12:42 *** checking chars ****</p> <p>CPYXLRN V11R2M000 14 Jun 2016 10:12:42</p> <p>CPYXLRN 10:12:42 *** select SYSCOLUMNS *</p> <p>INFF161I 10:12:42 Length of START_RBA in SYSCOPY: 10 (byte)</p> <p>INFF161I 10:12:42 Length of SUSPEND_LRSN in FLSDASDI: 20 (char)</p> <p>CPYGENST 10:12:42 *** build JCL *****</p> <p>INFF000I 10:12:42 Job IDFCV#G4 generated</p> <p>INFF000I 10:12:42 Job IDFCV#G5 generated</p> <p>INFF000I 10:12:42 Job IDFCV#G6 generated</p> <p>INFF000I 10:12:42 Job IDFCV#G7 generated</p> <p>INFF000I 10:12:42 Job IDFCV#ST generated</p> <p>INFF000I 10:12:42 Job IDFCV#TM generated</p> <p>INFF000I 10:12:43 Job IDFCV#GL generated</p>	EXTENDED LRSN
FLASHUC4	<p>CPYGENST 10:12:45 *** get I,J suffix ****</p> <p>CPYCHKPA V11R2M000 14 Jun 2016 10:12:45</p> <p>CPYCHKPA 10:12:45 *** checking parms ****</p> <p>INFF151I 10:12:45 Combination of given parameters is valid.</p> <p>&mirror: INCR</p> <p>&flsskel: CPYADRIF &subschar: (\$,#)</p> <p>&pool2use: \$ &flshmode: FULL &suspend: SETLOAD</p> <p>&dumpclas: &subscol: 1</p> <p>&hsmstc: &hsmbcds:</p> <p>CPYCHKPA 10:12:45 *** checking chars ****</p> <p>CPYXLRN V11R2M000 14 Jun 2016 10:12:45</p> <p>CPYXLRN 10:12:45 *** select SYSCOLUMNS *</p> <p>INFF161I 10:12:45 Length of START_RBA in SYSCOPY: 10 (byte)</p> <p>INFF161I 10:12:45 Length of SUSPEND_LRSN in FLSDASDI: 20 (char)</p> <p>CPYGENST 10:12:45 *** build JCL *****</p> <p>INFF000I 10:12:45 Job IDFCV#U3 generated</p> <p>INFF000I 10:12:45 Job IDFCW#U3 generated</p>	EXTENDED LRSN
PITGEN	<p>CPYGENST 10:12:47 *** get I,J suffix ****</p> <p>CPYCHKPA V11R2M000 14 Jun 2016 10:12:47</p> <p>CPYCHKPA 10:12:47 *** checking parms ****</p> <p>INFF151I 10:12:47 Combination of given parameters is valid.</p> <p>&mirror: INCR</p> <p>&flsskel: CPYADRIF &subschar: (\$,#)</p> <p>&pool2use: \$ &flshmode: FULL &suspend: SETLOAD</p> <p>&dumpclas: &subscol: 1</p> <p>&hsmstc: &hsmbcds:</p> <p>CPYCHKPA 10:12:47 *** checking chars ****</p> <p>CPYXLRN V11R2M000 14 Jun 2016 10:12:47</p> <p>CPYXLRN 10:12:47 *** select SYSCOLUMNS *</p> <p>INFF161I 10:12:47 Length of START_RBA in SYSCOPY: 10 (byte)</p> <p>INFF161I 10:12:47 Length of SUSPEND_LRSN in FLSDASDI: 20 (char)</p> <p>CPYGENST 10:12:47 *** build JCL *****</p> <p>INFF000I 10:12:47 Job IDFCX#GA generated</p>	EXTENDED LRSN
TSRGEN optional	<p>CPYGENST 10:12:50 *** get I,J suffix ****</p> <p>CPYCHKPA V11R2M000 14 Jun 2016 10:12:50</p> <p>CPYCHKPA 10:12:50 *** checking parms ****</p> <p>INFF151I 10:12:50 Combination of given parameters is valid.</p> <p>&mirror: INCR</p> <p>&flsskel: CPYADRIF &subschar: (\$,#)</p> <p>&pool2use: \$ &flshmode: FULL &suspend: SETLOAD</p> <p>&dumpclas: &subscol: 1</p> <p>&hsmstc: &hsmbcds:</p> <p>CPYCHKPA 10:12:50 *** checking chars ****</p> <p>CPYXLRN V11R2M000 14 Jun 2016 10:12:50</p> <p>CPYXLRN 10:12:50 *** select SYSCOLUMNS *</p> <p>INFF161I 10:12:50 Length of START_RBA in SYSCOPY: 10 (byte)</p> <p>INFF161I 10:12:50 Length of SUSPEND_LRSN in FLSDASDI: 20 (char)</p> <p>CPYTSRTB V11R2M000 14 Jun 2016 10:12:50</p>	EXTENDED LRSN

InfoDesign

[illegible]

\$\$\$\$V#G1

Input

STEP	InfoFLASH	Bemerkung
IDCAMS	DEL &profpref..\$ISPPROF	
CPYDLMEM	&genlib(\$\$\$\$V*) &genlib(\$\$\$\$W*) &tlib(\$\$\$\$CNTL) &tlib(\$\$\$\$T*) &tlib(\$\$\$\$DSD*) &tlib(\$\$\$\$FL*) &tlib(\$\$\$\$STAT) &tlib(\$\$\$\$I*)	FLASHCOPY-Jobs RESTORE-Jobs diverse ISPF-Tabellen
DELMASK optional	DEL &workpref..*.J*.D0000* MASK	nur bei &storsdsf = YES alte Jobprotokolle löschen

Output

STEP		Bemerkung
IDCAMS	IDC0550I ENTRY (A) INFOMAT.IDF0.\$ISPPROF DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0	
CPYDLMEM	. . . CPYDLMEM V11R2M000 14 Jun 2016 10:12:57 INFF001I 10:12:57 Deleting members from INFOMAT.V11R1M0.TLIB, mask: IDFACT* CPYDLMEM 10:12:57 *** delete member ***** INFF004I 10:12:57 IDFACTSRC deleted INFF004I 10:12:57 IDFACTSRX deleted INFF004I 10:12:57 IDFACT001 deleted . . .	TSR Copy-Job FlashCopy-Job DUMP-Jobs
DELMASK	DEL INFOMAT.IDFC.*.J*.D0000* MASK IDC0550I ENTRY (A) INFOMAT.IDFC.IDFCV#GC.JOB08200.D0000109 DELETED IDC0550I ENTRY (A) INFOMAT.IDFC.IDFCV#GC.JOB08200.D0000112 DELETED . . . IDC0550I ENTRY (A) INFOMAT.IDFC.IDFCV020.JOB08190.D0000211 DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 SET MAXCC E0 0	nur bei &storsdsf = YES alte Jobprotokolle löschen

\$\$\$\$V#G2

Input

STEP	InfoFLASH ICR	Bemerkung
CPYFLSSH		Sicherung FLSDASDI
CPYIFCOL		\$\$\$\$DASD erstellen
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP		Bemerkung
CPYFLSSH	<pre> CPYFLSSH 10:13:09 *** check FLSHADOW *** deleting FLSHADOW ... copying FLSDASDI in FLSHADOW ... (last run complete) initializing //IDSYSREC DD, //MODEL DD ... </pre>	<p>Kopie der FLSDASDI in FLSHADOW erstellen</p> <p>Initialisieren der \$\$\$\$V#SD- und \$\$\$\$V#MD-Member in der &jcllib</p>
CPYIFCOL	<pre> INFBBSDS V9R1M004 14 Jun 2016 10:13:10 A001: INFBBSDS returns 1 BSDS datasetname(s) INFBBSDS 10:13:10 *** get BSDS name ***** INFB002I 10:13:10 command given: DB2INFO SUBSYSTEMNAME(IDFC) INFB000I 10:13:11 7 record(s) read from DD GMIDATA found BSDS names: IDFCL.IDFC.BSDS01 IDFCL.IDFC.BSDS02 INFBBSDS 10:13:11 *** checking BSDSLST ** &bsdsdsn, &bsdsdsn1, &bsdsdsn2 are ready to use in ASIS pool CPYCHKPA V11R2M000 14 Jun 2016 10:13:11 CPYCHKPA 10:13:11 *** checking parms ***** INFF151I 11:35:10 Combination of given parameters is valid. &mirror: INCR &flsskel: CPYADRIF &subchar: (\$,#) &pool2use: \$ &flshmode: FULL &suspend: SETLOAD &dumpclas: &subscol: 1 &hsmstc: &hsmbcds: CPYCHKPA 10:13:11 *** checking chars ***** CPYIFCOL 10:13:11 *** DIS GROUP ***** CPYDB2UP V11R2M000 14 Jun 2016 10:13:11 CPYDB2UP 10:13:11 *** check STC ***** INFF011A 10:13:11 DB2SSID changed from GAN IDFC to member IDFC CPYIFCOL 10:13:11 *** scan BSDS ***** INFF026I 10:13:12 1496 record(s) read from DD SYSPRINT HLQ of CAT/DIR-datasets is : IDFC Prefix of LOGCOPY-datasets is: IDFCL.IDFC Name of BSDS01-dataset is : IDFCL.IDFC.BSDS01 found LOG/BSDS volumes : IDFCL3 IDFCL4 IDFCL5 . . . CPYIFCOL 10:13:13 *** select vcatnames ** INFF006I 10:13:13 VCAT names found in SYSTABLEPART and SYSINDEXPART: IDFC CPYIFCOL 10:13:14 *** get volumelist **** CPYIFCOL 10:13:14 *** call CPYDCOLL ***** Target Volume list IDFCL0 IDFCL1 IDFCL2 . . . CPYDCOLL V11R2M000 14 Jun 2016 10:13:14 CPYDCOLL 10:13:14 *** call IDCAMS ***** INFF026I 10:13:14 22 record(s) read from DD SYSPRINT DCCOLLECT - VOLUMES (- IDFCL0 - IDFCL1 - . . . IDFCL4 -) - OUTFILE(DCOLLOUT) NODATAINFO IDC01811I NUMBER OF 'V ' RECORDS PROCESSED WAS 12 IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0 INFF026I 10:13:14 12 record(s) read from DD DCOLLOUT V ID12 H ? IDFC00 ... V ID12 H ? IDFC03 V ID12 H ? IDFCL5 ... CPYIFCOL 10:13:14 *** gener EXPORT ***** CATALOG.IDFC on IDFC01 found - ready to EXPORT CATALOG.IDFCL on IDFCL5 found - ready to EXPORT INFF000I 10:13:15 Job IDFCVEXP generated CPYIFCOL 10:13:15 *** conversation rule * given substitution chars: \$ # . selected character to target VOLSER names: \$. . . CPYIFCOL 10:13:15 *** fill DASDIN ***** CPYIFCOL 10:13:15 *** read DCOLLECT ***** processing input volume IDFC00 CPYIFCOL 10:13:15 *** get S/N ***** 6007 CPYIFCOL 10:13:15 *** get S/N ***** 6420 </pre>	<p>Name des BSDS-datasets bestimmen</p> <p>REXBASE Parameter auf ICR FULL prüfen</p> <p>VCAT's ermitteln</p> <p>Zu kopierende Kandidatenliste erstellen ICF-Userkataloge exportieren (&expocat = YES)</p> <p>Prüfung, ob sich Quelle und Ziel im gleichen Subsystem befinden</p>

InfoDesign

	<pre> INFF155I 10:13:15 source devnum 6007 and target devnum 6420 are in the same SFI processing input volume IDFC03 CPYIFCOL 10:13:15 *** get S/N ***** 6008 CPYIFCOL 10:13:15 *** get S/N ***** 6422 INFF155I 10:13:15 source devnum 6008 and target devnum 6422 are in the same SFI . . . processing input volume IDFC15 CPYIFCOL 10:13:15 *** get S/N ***** 620A CPYIFCOL 10:13:15 *** get S/N ***** 6427 INFF155I 10:13:15 source devnum 620A and target devnum 6427 are in the same SFI * generated by InfoMAT 14 Jun 2016 10:13:15 * selected FLASH-pool: \$ * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDFC00 6007 \$DFC00 6420 +: Ý IDFC03 6008 \$DFC03 6422 !Zx 4 . . . IDFC15 620A \$DFC15 6427 + CPYIFCOL 10:13:15.608381 enqueue DASHIN successfully RC: 0000 - try: 1 . CPYIFCOL 10:13:15.642370 dequeue DASHIN successfully RC: 0000 . CPYIFCOL 10:13:15.645254 dequeue DASHIN successfully RC: 0004 . INFF045I 10:13:15 12 VOLUME(s) will be flashed CPYIFCOL 10:13:15 *** read FLSDASDI ***** DELETE FROM FLSIF112.FLSDASDI WHERE SUSPEND_TIMESTAMP <= '2016-06-14-09.37.03.000000' AND (OFFLOAD_STATUS IN ('OKAY', 'IGNORED') AND VOLSER_RULE = '\$') . INFF049I 10:13:15 records with timestamp 2016-06-14-09.37.03.000000 from FLSIF112.FLSDASDI deleted </pre>	<p>In PARMLIB das Member \$\$\$\$DASD erstellen</p> <p>Veraltete Sätze aus Tabelle FLSDASI löschen</p>
CPYSDSF optional	<pre> found jobname: IDFCV#G2 . CPYRSDSF 10:13:16 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDFC.SYSIN.LOAD.IDFCV#G2 allocated. ***** - UC4STC.IDFCV#G2.JOB08205.D0000111.? . lines read: 7 SYSTSPRT file: INFOMAT.IDFC.IDFCV#G2.JOB08205.D0000111 allocated. ***** - UC4STC.IDFCV#G2.JOB08205.D0000108.? . lines read: 326 SYSTSPRT file: INFOMAT.IDFC.IDFCV#G2.JOB08205.D0000108 allocated. ***** - UC4STC.IDFCV#G2.JOB08205.D0000105.? . lines read: 168 SYSTSPRT file: INFOMAT.IDFC.IDFCV#G2.JOB08205.D0000105 allocated. CPYRSDSF 10:13:18 *** fill IDSYSREC ***** CPYRSDSF 10:13:18.294059 enqueue IDSYSREC successfully RC: 0000 - try: 1 . CPYRSDSF 10:13:18.359328 dequeue IDSYSREC successfully RC: 0000 . CPYRSDSF 10:13:18 *** fill MODEL ***** CPYRSDSF 10:13:18.363822 enqueue IDSYSREC successfully RC: 0000 - try: 1 . CPYRSDSF 10:13:18.422949 dequeue IDSYSREC successfully RC: 0000 . </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>

\$\$\$V#G3

Input

STEP	InfoFLASH ICR	Bemerkung
DELETE optional	DELETE &expohlq.EXPORT.CAT00288.VIDF003 DELETE &expohlq.EXPORT.CAT00303.VIDF0L3	nur bei &expocat = YES
EXPORT optional	EXPORT CATALOG.IDF0 TEMPORARY OUTFILE(VIDF003) EXPORT CATALOG.IDF0L TEMPORARY OUTFILE(VIDF0L3)	nur bei &expocat = YES
CPYINI0		
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP		Bemerkung
DELETE optional	DELETE &expohlq.EXPORT.CAT00200.VIDFC01 IDC0550I ENTRY (A) &expohlq.EXPORT.CAT00200.VIDFC01 DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 DELETE &expohlq.EXPORT.CAT00215.VIDFCL5 IDC0550I ENTRY (A) &expohlq.EXPORT.CAT00215.VIDFCL5 DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 SET MAXCC = 0	nur bei &expocat = YES
EXPORT optional	EXPORT CATALOG.IDFC TEMPORARY OUTFILE(VIDFC01) IDC0005I NUMBER OF RECORDS PROCESSED WAS 1408 IDC0594I PORTABLE DATA SET CREATED SUCCESSFULLY ON 06/14/16 AT 10:13:26	nur bei &expocat = YES

InfoDesign

	IDC1147I IT IS RECOMMENDED THAT DIAGNOSE AND EXAMINE BE RUN BEFORE IDC1147I IMPORT OF CATALOG IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 EXPORT CATALOG.IDFCL TEMPORARY OUTFILE(VIDFCL5) IDC0005I NUMBER OF RECORDS PROCESSED WAS 36 IDC0594I PORTABLE DATA SET CREATED SUCCESSFULLY ON 06/14/16 AT 10:13:27 IDC1147I IT IS RECOMMENDED THAT DIAGNOSE AND EXAMINE BE RUN BEFORE IDC1147I IMPORT OF CATALOG IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0	EXPORT Userkataloge(e)
CPYINIO	CPYINIO 11:39:16 *** init \$\$\$\$STAT ***** CPYINIO 11:39:16 *** fill \$\$\$\$STAT ***** CPYDB2UP V11R2M000 14 Jun 2016 11:39:16 CPYDB2UP 11:39:16 *** check STC ***** INFF011A 11:39:16 DB2SSID changed from GAN IDFC to member IDFC CPYINIO 11:39:16 *** init \$\$\$\$CNTL ***** adding IDFCNTL: CINFO: START CDATUM: 160614 CZEIT: 113916 CLRSN: CINFO: LOGLOAD CDATUM: CZEIT: CLRSN: CINFO: SUSPEND CDATUM: CZEIT: CLRSN: CINFO: FLASHCOPY CDATUM: CZEIT: CLRSN: CINFO: RESUME CDATUM: CZEIT: CLRSN: CINFO: DEAD CDATUM: CZEIT: CLRSN: . . . CPYDASDI V11R2M000 14 Jun 2016 11:39:16 INFF026I 11:39:16 16 record(s) read from DD DASDIN CPYDASDI 11:39:16 *** fill \$\$\$\$SDSI ***** CPYCHKV1 V11R2M000 14 Jun 2016 11:39:16 CPYCHKV1 11:39:16 *** check DSNSPACE **** CPYDB2V1 V11R2M000 14 Jun 2016 11:39:16 CPYDB2V1 11:39:16 *** check FLSCONT ***** CPYSUS V11R2M000 14 Jun 2016 11:39:17 CPYDB2UP V11R2M000 14 Jun 2016 11:39:17 CPYDB2UP 11:39:17 *** check STC ***** CPYSUS 11:39:17 *** check ISPFIL ***** CPYSUS 11:39:17 *** read \$\$\$\$STAT ***** CPYCMD V11R2M000 14 Jun 2016 11:39:17 todo given: LOGLOAD(0) LOGGING of IDFC . CPYDB2UP V11R2M000 14 Jun 2016 11:39:17 CPYDB2UP 11:39:17 *** check STC ***** CPYCMD 11:39:17 *** call CPYGMLOG ***** CPYGMLOG V11R2M000 14 Jun 2016 11:39:17 CPYGMLOG 11:39:17 *** send COMMAND ***** INFF008I 11:39:18 command given: R0 ID12,-IDFC SET LOG LOGLOAD(0) CPYGMGET V11R2M000 14 Jun 2016 11:39:38 FLSCONS read from ASIS CPYGMGET 11:39:38 *** reading output **** *DSNJ333I . CPYJ333I V11R2M000 14 Jun 2016 11:39:38 CPYJ333I 11:39:38 *** reading rspfile *** INFF026I 11:39:38 6 record(s) read from DD GMIRSPNC from console FLSCONS cmd found: R0 ID12,-IDFC SET LOG LOGLOAD(0) . response from STC STC07648 DSNJ333I -IDFC DSNJC009 SYSTEM CHECKPOINT INITIATED cmd complete: DSN9022I -IDFC DSNJC001 '-SET LOG' NORMAL COMPLETION . CPYJ333I 11:39:38 *** reading msgfile *** IEA630I OPERATOR FLSCONS NOW ACTIVE, SYSTEM=ID12 , LU=INFOFCR . R0 ID12,-IDFC SET LOG LOGLOAD(0) . DSNJ333I -IDFC DSNJC009 SYSTEM CHECKPOINT INITIATED . DSN9022I -IDFC DSNJC001 '-SET LOG' NORMAL COMPLETION . CPYGMGET 11:39:38 *** reading GMIPRINT ** INFF026I 11:39:38 43 record(s) read from DD GMIPRINT GMI019I Command ISSUE ended with RC 00, elapsed time 20.137 seconds . CPYGMLOG V11R2M000 14 Jun 2016 11:39:38 CPYGMLOG 11:39:38 *** send COMMAND ***** INFF008I 11:39:39 command given: R0 ID12,-IDFC DISPLAY LOG CPYGMGET V11R2M000 14 Jun 2016 11:39:59 FLSCONS read from ASIS CPYGMGET 11:39:59 *** reading output **** *DSNJ370I . CPYJ370I V11R2M000 14 Jun 2016 11:39:59 CPYJ370I 11:39:59 *** reading rspfile *** INFF026I 11:39:59 16 record(s) read from DD GMIRSPNC from console FLSCONS cmd found: R0 ID12,-IDFC DISPLAY LOG . response from STC STC07648 DSNJ370I -IDFC DSNJC00A LOG DISPLAY . response from STC STC07648 CURRENT COPY1 LOG = IDFCL.IDFC.LOGCOPY1.DS03 response from STC STC07648 CURRENT COPY2 LOG = IDFCL.IDFC.LOGCOPY2.DS03 response from STC STC07648 H/W RBA = 0000000000006CC83A94 ... response from STC STC07648 H/O RBA = 0000000000002D4F3FFF ... response from STC STC07648 FULL LOGS TO OFFLOAD = 0 OF 6 ... response from STC STC07648 OFFLOAD TASK IS (AVAILABLE) ... response from STC STC07648 SOFTWARE ACCELERATION IS DISABLED response from STC STC07648 DSNJ371I -IDFC DB2 RESTARTED 13:10:53 JUN 1	ISPF-Tabellen initialisieren DASDIN lesen SET LOG,LOGLOAD(0) jedes DS-Member Ergebnis von SET LOG,LOGLOAD(0) DISPLAY LOG Ergebnis von DISPLAY LOG H/W RBA auslesen

	<pre> response from STC STC07648 RESTART RBA 0000000000068915000 ... response from STC STC07648 CHECKPOINT FREQUENCY 10 MINUTES ... response from STC STC07648 LAST SYSTEM CHECKPOINT TAKEN 11:39:18 JUN 14 cmd complete: DSN9022I -IDFC DSNJC001 '-DISPLAY LOG' NORMAL COMPLETION CPYJ370I 11:39:59 *** reading msgfile *** INFF194I 11:39:59 processing IDFC, using HIGHEST WRITTEN LRSN: 000000000006CC83A94 LAST SYSTEM CHECKPOINT TAKEN 11:39:18 JUN 14, 2016 . CPYGMGET 11:39:59 *** reading GMIPRINT ** INFF026I 11:39:59 43 record(s) read from DD GMIPRINT GMI019I Command ISSUE ended with RC 00, elapsed time 20.148 seconds CPYLSTBS V11R2M000 14 Jun 2016 11:39:59 INFBBSDS V9R1M004 14 Jun 2016 11:39:59 A001: INFBBSDS returns 1 BSDS datasetname(s) INFBBSDS 11:39:59 *** get BSDS name ***** INFB002I 11:40:00 command given: DB2INFO SUBSYSTEMNAME(IDFC) INFB000I 11:40:00 7 record(s) read from DD GMIDATA found BSDS names: IDFC.IDFC.BSDS01 IDFC.IDFC.BSDS02 INFBBSDS 11:40:00 *** checking BSDSLST ** &bsdsdsn, &bsdsdsn1, &bsdsdsn2 are ready to use in ASIS pool CPYLSTBS 11:40:00 *** scan BSDS ***** INFF026I 11:40:01 1496 record(s) read from DD SYSPRINT . . . found CHECKPOINTS: 100 . CPYLSTBS 11:40:01 *** find CHKPT ***** lfd CP Member ENDRBA ENDLRSN SHUTDWON CHECKPOINT 1 IDFC 000000000006CC8320C 00D0E4A10214C9744600 06/14/2016 09:39:18.2 2 IDFC 000000000006CC79F0C 00D0E49F206D42206600 06/14/2016 09:30:53.1 . . . 100 IDFC 0000000000068C6D10C 00D0E3C65084F1C35600 06/13/2016 17:20:53.1 checking latest three checkpoints ... member 1 1 000000000006CC8320C member 1 2 000000000006CC79F0C member 1 3 000000000006CC61B0C using: 000000000006CC61B0C . INFF195A 11:40:02 using 000000000006CC61B0C as RECOVER BASE LOG POINT (RBLP TIME(UTC): BEGIN : END : ENDLRSN : STCK: SHUTDOWN : CPYCMD 11:40:02 *** update \$\$\$STAT *** updating IDFCSTAT with: DB2MEM: IDFC SYSNAME: ID12 ID: 0 SUBSYS: IDFC CMDPREF: -IDFC STATUS: ACTIVE DB2LVL: 111 IRLMSUBS: DFCI IRLMPROC: IDFCIRLM ZUSTAND: LOGLOAD(0) LRSN: 000000000006CC61B0C ZTIME: 113917 ZJOBNAME: ZJOBNR: ZSTATUS: ZCHECK: . CPYUS 11:40:02 *** update \$\$\$CNTL *** updating IDFCNTL with: CINFO: LOGLOAD CDATUM: 160614 CZEIT: 113917 CLRSN: . . .06CC61B0C CINFO: DEAD CDATUM: 160614 CZEIT: 114117 CLRSN: CPYFLS V11R2M000 14 Jun 2016 11:40:02 CPYFLS 11:40:02 *** read DASDIN ***** INFF026I 11:40:02 16 record(s) read from DD DASDIN * generated by InfoMAT 14 Jun 2016 11:35:14 * selected FLASH-pool: \$ * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDFC00 6007 \$DFC00 6420 k 3 Y IDFC03 6008 \$DFC03 6422 !Zx 4 . . . IDFCL5 620A \$DFCL5 6427 + CPYFLS 11:40:02 *** prepare submit *** CPYFLS 11:40:02 *** submitting ... *** CPYFLS 11:40:02.369680 enqueue IDFCDSDC sucessfully RC: 0000 - try: 1 . IDFCT001 . CPYADRIF . IDFCV001 . INFF146I 11:40:02 job IDFCV001 submittet CPYFLS 11:40:02.649677 dequeue IDFCDSDC sucessfully RC: 0000 . CPYFLS 11:40:02.652545 dequeue IDFCDSDC sucessfully RC: 0004 . CPYWAITX V11R2M000 14 Jun 2016 11:40:02 CPYWAITX 11:40:02.656767 begin of wait 00001100 CPYWAITX 11:40:13.661733 end of wait 0 JOB JESid Status ***** Zeit seit SUSPEND: ca 0 Minuten 11:40:1 IDFCV001 JOB08280 OK </pre>	<p>BSDS Namen bestimmen</p> <p>CHECKPOINT Queue auslesen</p> <p>CHRRCKPOINT für RBLP</p> <p>DASDIN einlesen</p> <p>FLASH-Job submittet</p> <p>Status prüfen Job endet</p>
CPYSDSF optional	<pre> found jobname: IDFCV#G3 . CPYRSDSF 11:40:15 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDFC.SYSIN.LOAD.IDFCV#G3 allocated. - UC4STC.IDFCV#G3.JOB08279.D0000109.? . lines read: 7 SYSTSPRT file: INFOMAT.IDFC.IDFCV#G3.JOB08279.D0000109 allocated. ***** - UC4STC.IDFCV#G3.JOB08279.D0000106.? . </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>

InfoDesign

	lines read: 1898 SYSTSPRT file: INFOMAT.IDFC.IDFCV#G3.J0B08279.D0000106 allocated. CPYRSDSF 11:40:17 *** fill IDSYSREC ***** CPYRSDSF 11:40:17.763158 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 11:40:17.884446 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 11:40:17 *** fill MODEL ***** CPYRSDSF 11:40:17.899690 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 11:40:18.041143 dequeue IDSYSREC sucessfully RC: 0000 .	
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\$\$\$\$V001

Input

STEP	InfoFLASH	Bemerkung
FULLDATA	COPY FULL IDY(invol) ODY(outvol) - DUMPCONDITIONING - PURGE ADMIN ALLDATA(*) ALLEXCP - FCTOPPRCPPRIMARY(PMP) - FASTREP(REQ)	ADRDSU nur für Volumes mit Userdaten
FULLLOG	COPY FULL IDY(invol) ODY(outvol) - DUMPCONDITIONING - PURGE ADMIN ALLDATA(*) ALLEXCP - FCTOPPRCPPRIMARY(PMP) - FASTREP(REQ)	ADRDSU nur für Volumes mit LOG/BSDS Daten
STEPOK		FLASH endet mit RC = 0
STEPRC		FLASH endet mit RC > 0
STEPAB		FLASH endet mit ABEND

Output

Step		Bemerkung
FULLDATA	ADR006I 2016.166 11:40:02 EXECUTION BEGINS ADR241I TARGET VTOC BEGINNING AT 00000000:01 AND ENDING AT 00000000:14 IS OVERLAID ADR806I VOLUME IDFC00 WAS COPIED USING A FAST REPLICATION FUNCTION ADR006I 2016.166 11:40:03 EXECUTION ENDS ADR013I 2016.166 11:40:03 TASK COMPLETED WITH RETURN CODE 0000	FLASHCOPY FR wurde benutzt
FULLLOG	ADR006I 2016.166 11:40:02 EXECUTION BEGINS ADR241I TARGET VTOC BEGINNING AT 00000000:01 AND ENDING AT 00000000:14 IS OVERLAID ADR806I VOLUME IDFC00 WAS COPIED USING A FAST REPLICATION FUNCTION ADR006I 2016.166 11:40:03 EXECUTION ENDS ADR013I 2016.166 11:40:03 TASK COMPLETED WITH RETURN CODE 0000	FLASHCOPY FR wurde benutzt
OK	CPYADRED V11R2M000 14 Jun 2016 11:40:04 CPYADRED 11:40:04 *** check status ***** INFF170I 11:40:04 normal end of FLASH-Step, status: OK CPYADRED 11:40:04 *** update \$\$\$\$CNTL *** CPYADRED 11:40:04.474706 enqueue IDFCSDC sucessfully RC: 0000 - try: 1 . CPYADRED 11:40:04.505002 dequeue IDFCSDC sucessfully RC: 0000 . INFF012I 11:40:04 Table IDFC001 updated with OK	

\$\$\$\$V#ST

Input

STEP	InfoFLASH	Bemerkung
CPYIFSTA		FCQUERY
LOAD		FLSINCR laden
TERMUTIL		Utility-ID = \$\$\$\$V#ST terminieren
CPYGENWD		
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP		Bemerkung
CPYIFSTA	CPYIFSTA 11:40:26 *** read DASDIN ***** INFF026I 11:40:26 16 record(s) read from DD DASDIN * generated by InfoMAT 14 Jun 2016 11:35:14 * selected FLASH-pool: \$ * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR	DASDIN Member auslesen

	<pre> * IDFC00 6007 \$DFC00 6420 k 3 Y IDFC03 6008 \$DFC03 6422 !Zx 4 . . . IDFCL5 620A \$DFCL5 6427 + CPYIFSTA 11:40:26 *** read SYSPRINT ***** 11:40:26 Durchlauf 1 ***** CPYIFSTA 11:40:26 *** exec FCQUERY ***** IDFC00 CPYIFSTA 11:40:27 *** reading SYSPRINT ** INFF026I 11:40:27.570192 - 71 record(s) read from DD SYSPRINT Sessionlist: 4170 120 345 1215 2295 1453* 597* 785* . IDFC00 (ONLINE) - tracks to copy: 10980 . CPYIFSTA 11:40:27 *** exec FCQUERY ***** IDFC03 CPYIFSTA 11:40:28 *** reading SYSPRINT ** INFF026I 11:40:28.236598 - 63 record(s) read from DD SYSPRINT Sessionlist: 450 2235 4540* 44662* . IDFC03 (ONLINE) - tracks to copy: 51887 CPYIFSTA 11:40:34 *** exec FCQUERY ***** IDFCL5 CPYIFSTA 11:40:34 *** reading SYSPRINT ** INFF026I 11:40:34.761346 - 58 record(s) read from DD SYSPRINT Sessionlist: 28625 159 . IDFCL5 (ONLINE) - tracks to copy: 28784 . ***** trackslft_pool: 381700 . *** 1 *** trackslft_pool: 381700 . CPYWAITX V11R2M000 14 Jun 2016 11:40:34 CPYWAITX 11:40:34.778682 begin of wait 00100000 CPYWAITX 11:50:34.798831 end of wait 0 11:50:34 Durchlauf 2 ***** CPYIFSTA 11:50:34 *** exec FCQUERY ***** IDFC00 CPYIFSTA 11:50:35 *** reading SYSPRINT ** INFF026I 11:50:35.082274 - 24 record(s) read from DD SYSPRINT IDFC00 ONLINE - VOLUME NOT IN FLASHCOPY RELATION CPYIFSTA 11:50:35 *** exec FCQUERY ***** IDFC03 CPYIFSTA 11:50:35 *** reading SYSPRINT ** INFF026I 11:50:35.319031 - 24 record(s) read from DD SYSPRINT IDFC03 ONLINE - VOLUME NOT IN FLASHCOPY RELATION . . . CPYIFSTA 11:50:37 *** exec FCQUERY ***** IDFCL5 CPYIFSTA 11:50:37 *** reading SYSPRINT ** INFF026I 11:50:37.644052 - 24 record(s) read from DD SYSPRINT IDFCL5 ONLINE - VOLUME NOT IN FLASHCOPY RELATION *** 2 *** trackslft_pool: 0 . CPYWAITX V11R2M000 14 Jun 2016 11:50:37 CPYWAITX 11:50:37.651206 begin of wait 00000000 CPYWAITX 11:50:37.654026 end of wait 0 </pre>	<p>zyklische Abfrage der BackGroundCopy ...</p> <p>... bis keine Spuren mehr zu kopieren sind</p>
LOAD	<pre> DSNU000I - OUTPUT START FOR UTILITY, UTILID = IDFCV#ST DSNU1044I - PROCESSING SYSIN AS EBCDIC DSNU050I - LOAD DATA INDDN EIN LOG YES RESUME YES DSNU650I - INTO TABLE FLSIF112.FLSINCR DSNU650I - (DATUM POSITION(1:10) DATE EXTERNAL, DSNU650I - UHRZEIT POSITION(12:19) TIME EXTERNAL, DSNU650I - VOLSER POSITION(21:26) CHAR, DSNU650I - TRACKS2COPY POSITION(28:35) INTEGER EXTERNAL, DSNU650I - ELAPSED TIME POSITION(37:44) CHAR) DSNU304I - (RE)LOAD PHASE STATISTICS - NUMBER OF RECORDS=13 FOR TABLE FLSINCR DSNU1147I - (RE)LOAD PHASE STATISTICS - TOTAL NUMBER OF RECORDS LOADED=13 FOR TABLESPACE FLSIF112.FLSINCR DSNU302I - (RE)LOAD PHASE STATISTICS - NUMBER OF INP UT RECORDS PROCESSED=13 DSNU300I - (RE)LOAD PHASE COMPLETE, ELAPSED TIME=00: 00:00 </pre>	Tabelle FLSINCR laden
TERMUTIL	<pre> -TER UTIL(IDFCV#ST) DSNU112I -IDFC DSNUGDIS - NO AUTHORIZED UTILITY FOUND FOR UTILID = IDFCV#ST DSN9022I -IDFC DSNUGCCC '-TER UTIL' NORMAL COMPLETION </pre>	TS Zugriff gewährleisten
CPYGENWD	<pre> CPYRSTGM V11R2M000 14 Jun 2016 11:50:40 CPYRSTGM 11:50:40 *** read DASDIN DD **** INFF026I 11:50:40 DASDIN record(s) read from DD * generated by InfoMAT 14 Jun 2016 11:35:14 * selected FLASH-pool: \$ * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDFC00 6007 \$DFC00 6420 k 3 Y IDFC03 6008 \$DFC03 6422 !Zx 4 . . . IDF0L3 6231 \$DF0L3 6450 .%q...ã#...a 14 records read CPYRSTGM 15:28:59 *** GLOBAL MIRROR ***** CPYRSTGM 15:28:59 *** calling ICKDSF ***** IDF000 </pre>	

InfoDesign

	<pre> CPYRSTGM 15:29:00 *** read SYSPRINT ***** INFF026I 15:29:00 56 record(s) read from DD SYSPRINT CPYRSTGM 15:29:00 *** get S/N ***** 602F CPYRSTGM 15:29:00 *** get S/N ***** 644B CPYRSTGM 15:29:00 *** get S/N ***** 044B CPYRSTGM 15:29:00 *** get S/N ***** 044B CPYRSTGM 15:29:00 *** get S/N ***** 144B . . . CPYRSTGM 15:29:00 *** get S/N ***** 644B devn 644B found in same SFI (70400) like source SFI (70400) . 1 IDF000 (602F) SRC - has relation to LSS 04 CCA 4B SSID 1004 . 644B CPYRSTGM 15:29:00 *** calling ICKDSF ***** IDF003 CPYRSTGM 15:29:00 *** read SYSPRINT ***** INFF026I 15:29:00 56 record(s) read from DD SYSPRINT CPYRSTGM 15:29:00 *** get S/N ***** 6030 CPYRSTGM 15:29:00 *** get S/N ***** 644D CPYRSTGM 15:29:00 *** get S/N ***** 044D CPYRSTGM 15:29:00 *** get S/N ***** 044D CPYRSTGM 15:29:00 *** get S/N ***** 144D . . . CPYRSTGM 15:29:01 *** get S/N ***** 644D devn 644D found in same SFI (70400) like source SFI (70400) . 1 IDF003 (6030) SRC - has relation to LSS 04 CCA 4D SSID 1004 . 644D . . . CPYRSTGM 15:29:06 *** list ISPF table *** INFF107I 15:29:06 candidate list created: IDF0GM 15/07/23 15:28:59 last used: 15 pvolser pssid plss pcca puch svolser sssid sseno slss scca suchb persist fcwd IDF000 1000 00 2F 602F \$DF000 1004 70400 04 4B 644B T YES IDF003 1000 00 30 6030 \$DF003 1004 70400 04 4D 644D T YES . . . IDF0L3 1002 02 31 6231 \$DF0L3 1004 70400 04 50 6450 T YES CPYGENWD 15:29:06 *** gener FCWITHDR ***** INFF000I 15:29:06 Job IDF0P00B generated </pre>	<p>METRO MIRROR table: created, last used, (rows, exists, open, readonly)</p> <p>FCWITHDR Job</p>
CPYSDSF	<pre> found jobname: IDFCV#ST . CPYRSDSF 11:50:43 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDFC.SYSIN.LOAD.IDFCV#ST allocated. ***** - UC4STC.IDFCV#ST.JOB08281.D0000118.? . lines read: 7 SYSTSPRT file: INFOMAT.IDFC.IDFCV#ST.JOB08281.D0000118 allocated. ***** - UC4STC.IDFCV#ST.JOB08281.D0000115.? . lines read: 256 SYSTSPRT file: INFOMAT.IDFC.IDFCV#ST.JOB08281.D0000115 allocated. ***** - UC4STC.IDFCV#ST.JOB08281.D0000112.? . lines read: 11 SYSTSPRT file: INFOMAT.IDFC.IDFCV#ST.JOB08281.D0000112 allocated. ***** - UC4STC.IDFCV#ST.JOB08281.D0000108.? . lines read: 296 SYSTSPRT file: INFOMAT.IDFC.IDFCV#ST.JOB08281.D0000108 allocated. CPYRSDSF 11:50:45 *** fill IDSYSREC ***** CPYRSDSF 11:50:45.862962 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 11:50:45.918713 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 11:50:45 *** fill MODEL ***** CPYRSDSF 11:50:45.922757 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 11:50:45.978928 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>

\$\$\$V#G4

Input

STEP	InfoFLASH	Bemerkung
CPYINIX		InfoFLASH – Verwaltungslauf für ISPF
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP		Bemerkung
CPYINIX	<pre> CPYCHECK V11R2M000 14 Jun 2016 14:28:49 CPYCHECK 14:28:49 *** check ISPF & DB2 ** INFF014I 14:28:49 status of LOGLOAD command YYMMDD HHMMSS LRSN START 160614 142726 LOGLOAD 160614 142727 0000000000006CE4740C SUSPEND FLASHCOPY 160614 142832 ok return_code=0 RESUME DEAD 160614 142926 </pre>	ISPF Steuertabelle auslesen

	<p>INFF015I 14:28:49 status of DB2 subsystems DB2MEM SUBSYS SYSNAME IDFC IDFC ID12</p> <p>INFF016I 14:28:49 status of volumes</p> <table><tr><th>i</th><th>Source</th><th>VOLSER</th><th>- Adresse</th><th>Target</th><th>VOLSER</th><th>- Adresse</th></tr><tr><td>1</td><td>IDFC00</td><td>6007</td><td></td><td>\$DFC00</td><td>6420</td><td></td></tr><tr><td>2</td><td>IDFC03</td><td>6008</td><td></td><td>\$DFC03</td><td>6422</td><td></td></tr><tr><td>...</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>12</td><td>IDFCL5</td><td>620A</td><td></td><td>\$DFCL5</td><td>6427</td><td></td></tr></table> <p>INFF017I 14:28:49 status of submitted jobs</p> <table><tr><th>ISPF-Tabelle</th><th>von DASD-Nr</th><th>bis DASD-Nr</th><th>Jobname</th><th>Jobnummer</th><th>Status</th></tr><tr><td>IDFCT001</td><td>1</td><td>12</td><td>IDFCV001</td><td>JOB08412</td><td>OK</td></tr></table> <p>CPYDB2N2 V11R2M000 14 Jun 2016 14:28:50 CPYDB2N2 14:28:50 *** update FLSCONT **** IDFCCNTL START . 160614 . 142726 . IDFCCNTL LOGLOAD . 160614 . 142727 . 00000000000006CE4740C . IDFCCNTL SUSPEND . . . IDFCCNTL FLASHCOPY . 160614 . 142832 . ok return_code=0 . IDFCCNTL RESUME . . . IDFCCNTL DEAD . 160614 . 142926 . . IDFCFLCP 00000000000006ACCF352 . 160614 . 101329 . INFF018I 14:28:50 reords of DB2-table FLSIF112.FLSCONT Datum Zeit LRSN 160614 142727 00000000000006CE4740C</p> <p>INFF020I 14:28:50 ***** FLashCOPY with LRSN 00000000000006CE4740C can be used *****</p>	i	Source	VOLSER	- Adresse	Target	VOLSER	- Adresse	1	IDFC00	6007		\$DFC00	6420		2	IDFC03	6008		\$DFC03	6422		...							12	IDFCL5	620A		\$DFCL5	6427		ISPF-Tabelle	von DASD-Nr	bis DASD-Nr	Jobname	Jobnummer	Status	IDFCT001	1	12	IDFCV001	JOB08412	OK	<p>DB2 Subsystem</p> <p>FlashCopy-jobs</p> <p>ISPF Steuertabelle auslesen</p> <p>FLASHCOPY ist für RECOVERY bestätigt</p>
i	Source	VOLSER	- Adresse	Target	VOLSER	- Adresse																																											
1	IDFC00	6007		\$DFC00	6420																																												
2	IDFC03	6008		\$DFC03	6422																																												
...																																																	
12	IDFCL5	620A		\$DFCL5	6427																																												
ISPF-Tabelle	von DASD-Nr	bis DASD-Nr	Jobname	Jobnummer	Status																																												
IDFCT001	1	12	IDFCV001	JOB08412	OK																																												
CPYSDSF	<p>found jobname: IDFCV#G4 .</p> <p>CPYRSDSF 14:28:52 *** scan ISFLOG *****</p> <p>SDSF LOAD file: INFOMAT.IDFC.SYSIN.LOAD.IDFCV#G4 allocated.</p> <p>***** - UC4STC.IDFCV#G4.JOB08414.D0000107.? .</p> <p>lines read: 7</p> <p>SYSTSPRT file: INFOMAT.IDFC.IDFCV#G4.JOB08414.D0000107 allocated.</p> <p>***** - UC4STC.IDFCV#G4.JOB08414.D0000104.? .</p> <p>lines read: 207</p> <p>SYSTSPRT file: INFOMAT.IDFC.IDFCV#G4.JOB08414.D0000104 allocated.</p> <p>CPYRSDSF 14:28:57 *** fill IDSYSREC *****</p> <p>CPYRSDSF 14:28:57.679769 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 .</p> <p>CPYRSDSF 14:28:57.980920 dequeue IDSYSREC sucessfully RC: 0000 .</p> <p>CPYRSDSF 14:28:57 *** fill MODDEL *****</p> <p>CPYRSDSF 14:28:58.022854 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 .</p> <p>CPYRSDSF 14:28:58.406071 dequeue IDSYSREC sucessfully RC: 0000 .</p>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>																																															

\$\$\$\$V#G5

Input

STEP	InfoFLASH	Bemerkung
IDCAMS	DEL &workpref..FLSDCOLL	
CPYDMPFL		DUMP-Jobs generieren
CPYUPTBL		Pflege FLASH-Tabellen
STOPSTRT	-ST0 DB(&idadmdb) SPACE(FLSDASDI) -STA DB(&idadmdb) SPACE(FLSDASDI)	STOP/STRT FLASH- TS
CPYRSTFL		RESTORE-Jobs generieren
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP		Bemerkung
IDCAMS	DEL INFOMAT.IDFC.FLSDCOLL IDC0550I ENTRY (A) INFOMAT.IDFC.FLSDCOLL DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0	

CPYDMPFL	<pre> CPYDMPFL 14:29:09 *** read DASDIN DD **** INFF026I 14:29:09 16 record(s) read from DD DASDIN * generated by InfoMAT 14 Jun 2016 14:27:13 * selected FLASH-pool: \$ * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDFC00 6007 \$DFC00 6420 k 3 Ý IDFC03 6008 \$DFC03 6422 !Zx 4 . . . IDFC15 620A \$DFC15 6427 + CPYDMPFL 14:29:09 *** call CPYDCOLL ***** Target Volume List \$DFC00 . . . CPYDCOLL V11R2M000 14 Jun 2016 14:29:09 CPYDCOLL 14:29:09 *** call IDCAMS ***** INFF026I 14:29:11 22 record(s) read from DD SYSPRINT DCOLLECT - VOLUMES (- \$DFC00 - \$DFC03 - . . . \$DFC15 -) - OUTFILE(DCOLLOUT) NODATAINFO IDC01811I NUMBER OF 'V ' RECORDS PROCESSED WAS 12 IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0 INFF026I 14:29:11 12 record(s) read from DD DCOLLOUT V ID12 !l ? \$DFC01 ... V ID12 !l ? \$DFC04 V ID12 !l ? \$DFC15 ... CPYDMPFL 14:29:11 *** generating JCL **** INFF000I 14:29:12 Job IDFCV020 generated DUMP to TAPE skipped, ignoffl=YES . </pre>	&ignoffl=YES
CPYUPTBL	<pre> CPYXLRN V11R2M000 14 Jun 2016 14:29:16 CPYXLRN 14:29:16 *** select SYSCOLUMNS * INFF161I 14:29:16 Length of START_RBA in SYSCOPY: 10 (byte) INFF161I 14:29:16 Length of SUSPEND_LRSN in FLSDASDI: 20 (char) CPYUPTBL 14:29:16 *** select INFONOIC *** INFF135I 14:29:16 no table FLSIF112.INFONOIC found, using default minlrsn: FFFFFFFFFFFFFFFFFF CPYUPTBL 14:29:16 *** update FLSDASDI *** INFF026I 14:29:16 16 record(s) read from DD DASDIN * generated by InfoMAT 14 Jun 2016 14:27:13 * selected FLASH-pool: \$ * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDFC00 6007 \$DFC00 6420 k 3 Ý IDFC03 6008 \$DFC03 6422 !Zx 4 . . . IDFC15 620A \$DFC15 6427 + CPYUPTBL 14:29:16 *** reading DCOLLOUT ** INFF026I 14:29:16 12 record(s) read from DD DCOLLOUT V ID12 !l ? \$DFC01 ... V ID12 !l ? \$DFC04 V ID12 !l ? \$DFC15 ... INFF022I 14:29:16 12 record(s) added to FLSIF112.FLSDASDI CPYUPTBL 14:29:16 *** update FLSHIST **** FLSHIST: 2016-06-14-14.27.27.000000 0000000006CE4740C 2016-06-14- 14.29.15.158002 12 INFF022I 14:29:17 one record(s) added to FLSIF112.FLSHIST </pre>	<p>Tabelle INFONOIC wird im InfoMAT gefüllt</p> <p>FLASH-Tabellen befüllen</p>
STOPSTRT	<pre> -STO DB(FLSIF112) SPACE(FLSDASDI) DSN9022I -IDFC DSNTDDIS 'STOP DATABASE' NORMAL COMPLETION -STA DB(FLSIF112) SPACE(FLSDASDI) DSN9022I -IDFC DSNTDDIS 'START DATABASE' NORMAL COMPLETION </pre>	FLSDASDI auf Platte schreiben
CPYRSTFL	<pre> CPYRSTFL 14:29:21 *** read DASDIN DD **** INFF026I 14:29:21 16 record(s) read from DD DASDIN * generated by InfoMAT 14 Jun 2016 14:27:13 * selected FLASH-pool: \$ * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDFC00 6007 \$DFC00 6420 k 3 Ý IDFC03 6008 \$DFC03 6422 !Zx 4 . . . IDFC15 620A \$DFC15 6427 + IDFC00 6231 \$DFC00 6450 .%q...ã#...a IDFC15 620A \$DFC15 6427 + CPYRSTFL 14 Jun 2016 14:29:21 *** prepare ICKDSF **** </pre>	INIT notwendig?

InfoDesign

	ENTRY (A) INFOMAT.IDFC.MEMBER.GMIRSPNC.LISTSG DELETED ENTRY (A) INFOMAT.IDFC.MEMBER.GMIPRINT.LISTSG DELETED CPYRSTFL 14:29:22 *** send COMMAND ***** INFF008I 14:29:22 command given: D SMS,SG(IDFCDB2),LISTVOL CPYRSTFL 14:29:28 *** reading file ***** # of lines read from GMIRSPNC: 45 . from console FLSCONS cmd found: D SMS,SG(IDFCDB2),LISTVOL . cmd complete: SYSTEM 4 = ID13 . CPYRSTFL 14:29:29 *** generating JCL **** no RESTORE-Jobs caused by &ignoffl = YES	RESTORE-Jobs entfallen, wegen &ignoffl = YES
CPYSDSF	found jobname: IDFCV#G5 . CPYRSDSF 14:29:30 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDFC.SYSIN.LOAD.IDFCV#G5 allocated. ***** - UC4STC.IDFCV#G5.JOB08415.D0000121.? . lines read: 7 SYSTSPRT file: INFOMAT.IDFC.IDFCV#G5.JOB08415.D0000121 allocated. ***** - UC4STC.IDFCV#G5.JOB08415.D0000118.? . lines read: 232 SYSTSPRT file: INFOMAT.IDFC.IDFCV#G5.JOB08415.D0000118 allocated. ***** - UC4STC.IDFCV#G5.JOB08415.D0000115.? . lines read: 12 SYSTSPRT file: INFOMAT.IDFC.IDFCV#G5.JOB08415.D0000115 allocated. ***** - UC4STC.IDFCV#G5.JOB08415.D0000113.? . lines read: 200 SYSTSPRT file: INFOMAT.IDFC.IDFCV#G5.JOB08415.D0000113 allocated. ***** - UC4STC.IDFCV#G5.JOB08415.D0000110.? . lines read: 219 SYSTSPRT file: INFOMAT.IDFC.IDFCV#G5.JOB08415.D0000110 allocated. CPYRSDSF 14:29:35 *** fill IDSYSREC ***** CPYRSDSF 14:29:35.503682 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:29:35.667301 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 14:29:35 *** fill MODEL ***** CPYRSDSF 14:29:35.672674 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:29:35.796951 dequeue IDSYSREC sucessfully RC: 0000 .	nur bei &storsdsf = YES SYSTSPRT aus laufendem Job extrahieren

\$\$\$V#U3

Input

STEP	InfoFLASH	Bemerkung
CPYTOSCH	MEM = IDFCV	Scheduler API

Output

STEP		Bemerkung
CPYTOSCH	CPYTOUNC 14:39:21 *** scan jobs ***** CPYEDUC4 V11R2M000 14 Jun 2016 14:39:22 *** EDIT: IDFCV020 CPYTOUNC 14:39:22 *** create #FT ***** IDFCV020 DUMP2TAPE 10 0 99 DUMP . INFF008I 14:39:22 Job #IDFCVFT generated	Erstellung des Members #\$\$\$VFT in &genlib

\$\$\$V02n

Input

STEP	InfoFLASH	Bemerkung
DELETE optional	DELETE &dumppref.D\$DFD01.D16167.T12893 DELETE &dumppref.L\$DFD01.D16167.T12893	nur bei &ignoffl = NO
DUMPN	DUMP FULL ADMINISTRATOR INDD(DASD1) OUTDD(TAPE1) - ALLDATA(*) ALLEXCP OPTIMIZE(4)	ADRDSSU
UPDTn	DUMPDSN = &dumppref.D\$DFC05.NO.OFFLOAD	&ignoffl = NO
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP		Bemerkung
DELETE optional	DELETE INFOFLSH.ADRDSSU.IDFD.D\$DFD01.D16167.T12893 IDC3012I ENTRY INFOFLSH.ADRDSSU.IDFD.D\$DFD01.D16167.T12893 NOT FOUND IDC3009I ** VSAM CATALOG RETURN CODE IS 8 - REASON CODE IS IGG0CLEG-42 IDC0551I ** ENTRY INFOFLSH.ADRDSSU.IDFD.D\$DFD01.D16167.T12893 NOT	nur bei &ignoffl = NO

InfoDesign

	IDC0551I DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 8 DELETE INFOFLSH.ADRDSSU.IDFD.L\$DFD01.D16167.T12893 IDC3012I ENTRY INFOFLSH.ADRDSSU.IDFD.L\$DFD01.D16167.T12893 NOT FOUND IDC3009I ** VSAM CATALOG RETURN CODE IS 8 - REASON CODE IS IGG0CLEG-42 IDC0551I ** ENTRY INFOFLSH.ADRDSSU.IDFD.L\$DFD01.D16167.T12893 NOT IDC0551I DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 8 SET MAXCC EQ 0	
DUMPn	ADR006I -STEND(01), 2016.167 03:52:20 EXECUTION BEGINS ADR006I -STEND(02), 2016.167 03:58:26 EXECUTION ENDS ADR013I -CLTSK(01), 2016.167 03:58:26 TASK COMPLETED WITH RETURN CODE 0000	
UPDTn	CPYDMPUP 03:58:27 *** update FLSDASDI *** INFF026I 03:58:27 1 record(s) read from DD DUMPDSN INFF026I 03:58:27 1 record(s) read from DD SYSIN INFF041I 03:58:27 FLASH-volser \$DFD01 updated in FLSIFI92.FLSDASDI CPYDMPUP 03:58:27 *** get columns ***** CPYDMPUP 03:58:27 *** insert FLSTAPE *** SRCVOL TGTVOL SUSPEND_TIMESTAMP SUSPEND_LRSN LOG IDFD01 \$DFD01 2016-06-15-03.33.29.000000 0000000000A0466BB2A N . begin of insert 03:58:27.960624 end of insert 03:58:28.283969 1 records inserted into FLSTAPE (11 columns). CPYDMPUP 03:58:28 *** delete FLSTAPE *** INFF099A 03:58:28 INFOFLSH.ADRDSSU.IDFD.D\$DFD00.D16158.T12901 deleted 0005 INFF099A 03:58:28 INFOFLSH.ADRDSSU.IDFD.D\$DFD01.D16158.T12901 deleted 0005 . . . INFF099A 03:58:29 INFOFLSH.ADRDSSU.IDFD.L\$DFDL5.D16158.T12901 deleted 0005 0 records with OFFLOAD_STATUS = IGNORED, TGTVOL = \$DFDL5 and RETPD > 8 deleted from FLSIFI92.FLSTAPE (RC:100)	Update in FLSDASDI Insert in FLSTAPE nicht katalogisierte Einträge aus FLSTAPE löschen
CPYSDSF	CPYRX2IS V11R2M000 14 Jun 2016 14:39:44 DB2 modules are not preloaded. CPYRSDSF V11R2M000 14 Jun 2016 14:39:44 found jobname: IDFCV020 . CPYRSDSF 14:39:44 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDFC.SYSIN.LOAD.IDFCV020 allocated. ***** - UC4STC.IDFCV020.JOB08417.D0000187.? . lines read: 7 SYSTSPRT file: INFOMAT.IDFC.IDFCV020.JOB08417.D0000187 allocated. ***** - UC4STC.IDFCV020.JOB08417.D0000184.? . lines read: 180 SYSTSPRT file: INFOMAT.IDFC.IDFCV020.JOB08417.D0000184 allocated. . . . CPYRSDSF 14:39:50 *** fill IDSYSREC ***** CPYRSDSF 14:39:50.580295 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:39:50.640358 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 14:39:50 *** fill MODEL ***** CPYRSDSF 14:39:50.644371 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:39:50.701774 dequeue IDSYSREC sucessfully RC: 0000 .	nur bei &storsdsf = YES SYSTSPRT aus laufendem Job extrahieren

\$\$\$V#TM

Input

STEP	InfoFLASH	Bemerkung
CPYTMSTA		
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP		Bemerkung
CPYTMSTA	CPYTMSTA 14:39:56 *** get RMM info ***** SD-cont: . INFF173I 14:39:57 96 records found in RMM with INFOFLSH.ADRDSSU.IDFC.** INFF173I 14:39:57 36 records found in FLSTAPE with OFFLOAD_STATUS OKAY dsname . credt 1 6 INFOFLSH.ADRDSSU.IDFC.D\$DFC00.D16166.T34725 . 14/06/2016 2 7 INFOFLSH.ADRDSSU.IDFC.D\$DFC00.D16166.T36911 . 14/06/2016 . . . 36 96 INFOFLSH.ADRDSSU.IDFC.L\$DFCL5.D16166.T49132 . 14/06/2016	Liste aller in FLSTAPE gefundenen TAPes +&dumpret: parametrisiertes EXPDT Errechnetes crdate <> aktuelles crdate

InfoDesign

CPYSDSF	<pre> found jobname: IDFCV#TM . CPYRSDSF 14:39:59 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDFC.SYSIN.LOAD.IDFCV#TM allocated. ***** - UC4STC.IDFCV#TM.JOB08418.D0000107.? . lines read: 7 SYSTSPRT file: INFOMAT.IDFC.IDFCV#TM.JOB08418.D0000107 allocated. ***** - UC4STC.IDFCV#TM.JOB08418.D0000104.? . lines read: 204 SYSTSPRT file: INFOMAT.IDFC.IDFCV#TM.JOB08418.D0000104 allocated. CPYRSDSF 14:40:00 *** fill IDSYSREC ***** CPYRSDSF 14:40:00.747199 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:40:00.803005 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 14:40:00 *** fill MODDEL ***** CPYRSDSF 14:40:00.807247 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:40:00.865922 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>
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\$\$\$V#G6

Input

STEP	InfoFLASH	Bemerkung
CPYRSTML		RESTORE-Fähigkeit
CPYFLSCM		FLASHCOPY Status COMPLETE
CPYSDSF optional		nur bei &storsdsf = YES

Output

STEP		Bemerkung
CPYRSTML	<pre> CPYRSTML 14:40:08 *** read FLS tables *** INFF109I 14:40:08 SQL-Code: 0 - found objects: 3 - records from FLSHIST using MINLRSN FFFFFFFFFFFFFFFFFF . INFF109I 14:40:08 SQL-Code: 0 - found: 4 - records from FLSDASDI, FLSTAPE CPYXLRN V11R2M000 14 Jun 2016 14:40:08 CPYXLRN 14:40:08 *** select SYSCOLUMNS * INFF161I 14:40:08 Length of START_RBA in SYSCOPY: 10 (byte) INFF161I 14:40:08 Length of SUSPEND_LRSN in FLSDASDI: 20 (char) CPYRSTML 14:40:08 *** write \$\$\$MINL *** restorable SUSPEND_LRSN: IDFC LRSN TIMESTAMP ANZAHL_DASD OFFLOADED ONLINE STATUS 00000000000006CE4740C 2016-06-14-14.27.27 12 NO YES IGNORED 00000000000006CC61B0C 2016-06-14-11.39.17 12 YES NO OKAY 00000000000006ACCF352 2016-06-14-10.13.29 12 YES NO OKAY 000000000000068F1850C 2016-06-14-09.37.03 12 YES NO OKAY CPYRSTML 14:40:08.219214 enqueue MINLRSN sucessfully RC: 0000 - try: 1 . CPYRSTML 14:40:08.249902 dequeue MINLRSN sucessfully RC: 0000 . INFF174I 14:40:08 4 record(s) written to member IDFCMINL in //MINLRSN DD. CPYRSTML 14:40:08.256740 dequeue MINLRSN sucessfully RC: 0004 . </pre>	<p>Liste der FLASHCOPY's zu denen noch Tapes und LOG existieren, auf Basis der Tabelle INFONOIC, oder FLASHCOPY's, die noch ONLINE sind</p>
CPYFLSCM	<pre> CPYFLSCM 14:40:09 *** check FLASHADOW *** updating FLASHADOW ... (FLASH_ACTIVE = 'OLD') copying FLSDASDI in FLASHADOW ... (FLASH_ACTIVE = 'YES') deleting FLASHADOW ... (FLASH_ACTIVE <> 'YES') CPYFLSCM 14:40:09 *** update FLASHADOW *** updating FLASHADOW ... (FLASH_ACTIVE = 'NO') INFF143I 14:40:09 FLASHCOPY is set to "COMPLETE" </pre>	<p>FLSDASDI und FLASHADOW bekommen gleichen Inhalt.</p>
CPYSDSF	<pre> found jobname: IDFCV#G6 . CPYRSDSF 14:40:09 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDFC.SYSIN.LOAD.IDFCV#G6 allocated. ***** - UC4STC.IDFCV#G6.JOB08419.D0000111.? . lines read: 7 SYSTSPRT file: INFOMAT.IDFC.IDFCV#G6.JOB08419.D0000111 allocated. ***** - UC4STC.IDFCV#G6.JOB08419.D0000108.? . lines read: 172 SYSTSPRT file: INFOMAT.IDFC.IDFCV#G6.JOB08419.D0000108 allocated. ***** - UC4STC.IDFCV#G6.JOB08419.D0000105.? . lines read: 177 SYSTSPRT file: INFOMAT.IDFC.IDFCV#G6.JOB08419.D0000105 allocated. CPYRSDSF 14:40:11 *** fill IDSYSREC ***** CPYRSDSF 14:40:11.818004 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:40:11.875787 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 14:40:11 *** fill MODDEL ***** CPYRSDSF 14:40:11.880832 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:40:11.937851 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>

\$\$\$\$V#GL

Input

STEP	InfoFLASH	Bemerkung
LOAD	LOAD DATA LOG YES RESUME YES INTO TABLE &idcreate.FLSTSPRT	

Output

STEP		Bemerkung
LOAD	DSNU304I - (RE)LOAD PHASE STATISTICS - NUMBER OF RECORDS=34 FOR TABLE DSNU1147I - (RE)LOAD PHASE STATISTICS - TOTAL NUMBER OF RECORDS LOADED=34 DSNU3340I - UTILITY PERFORMS DYNAMIC ALLOCATION OF SORT DISK SPACE DSNU302I - (RE)LOAD PHASE STATISTICS - NUMBER OF INPUT RECORDS PROCESSED=34 DSNU300I - (RE)LOAD PHASE COMPLETE, ELAPSED TIME=00:00:01 DSNU042I - SORT PHASE STATISTICS - NUMBER OF RECORDS=68 ELAPSED TIME=00:00:00 DSNU349I - BUILD PHASE STATISTICS - NUMBER OF KEYS=34 DSNU349I - BUILD PHASE STATISTICS - NUMBER OF KEYS=34 DSNU258I - BUILD PHASE STATISTICS - NUMBER OF INDEXES=2 DSNU259I - BUILD PHASE COMPLETE, ELAPSED TIME=00:00:00	

InfoFLASH BSU

\$\$\$\$V#pv

Input

STEP	InfoFLASH	Bemerkung

Output

Step		Bemerkung
CPYPARMV	INFF172I 13:23:56 found jobname: IDF0V#BF, selected PARMVERS: BF SETP-Member created in INFOFLSH.V11R2M0.CNTL.PIT(IDF0SETP) SETP: /** IDF0SETP PARAMETER SET BY IDF0V#BF 20/06/1613:23:56 SETP: // SET PARMVERS=BF	

\$\$\$\$V#G0

Input

STEP	InfoFLASH (optional: TSR)	Bemerkung
FLASHGEN	FUNCTION = FLASHGEN JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix
FLASHRUN	FUNCTION = FLASHRUN JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix
FLASHUC4	FUNCTION = FLASHUC4 JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix
PITGEN	FUNCTION = PITGEN JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix
TSRGEN optional	FUNCTION = TSRGEN JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix
ADDON optional	FUNCTION = ADDON JOBPREF = \$\$\$\$V	CPYGENMA Sektion Jobnamenpräfix

Output

Step		Bemerkung
FLASHGEN	CPYGENST 13:35:16 *** get I,J suffix **** CPYCHKPA V11R2M000 20 Jun 2016 13:35:16 CPYCHKPA 13:35:16 *** checking parms **** INFF151I 13:35:16 Combination of given parameters is valid. &mirror: BACKSYS &flsskel: &subshchar: &pool2use: &flshmode: FULL &suspend: &dumpclas: &subscol: &hsmstc: HSM &hsmbcds: HSM.BCDS CPYCHKPA 13:35:16 *** checking chars **** CPYXLRSN V11R2M000 20 Jun 2016 13:35:16 CPYXLRSN 13:35:16 *** select SYSCOLUMNS * INFF161I 13:35:17 Length of START RBA in SYSCOPY: 6 (byte)	EXTENDED LRSN

InfoDesign

	INFF161I 13:35:17 Length of SUSPEND_LRSN in FLSDASDI: 12 (char) CPYGENST 13:35:17 *** build JCL ***** INFF000I 13:35:17 Job IDF0V#G1 generated INFF000I 13:35:17 Job IDF0V#G2 generated INFF000I 13:35:17 Job IDF0V#G3 generated INFF000I 13:35:17 Job IDF0V#ES generated Member IDF0#MD# (re)created in INFOFLSH.V11R2M0.CNTL.PIT . Member IDF0#SD# (re)created in INFOFLSH.V11R2M0.CNTL.PIT . CPYXGRES V11R2M000 20 Jun 2016 13:35:17 CPYMDRES V11R2M000 13:35:18 ***** EDIT MACRO ***** INFOFLSH.V11R2M0.SLIB.PIT(CPYXDRES) found INFOFLSH.V11R2M0.SLIB.PIT(CPYPLIB) found INFOFLSH.V11R2M0.SLIB.PIT(CPYBSURP) found Result of copying 'INFOFLSH.V11R2M0.SLIB.PIT(CPYXDRES)': RC: 0 . Result of copying 'INFOFLSH.V11R2M0.SLIB.PIT(CPYPLIB)': RC: 0 . Result of copying 'INFOFLSH.V11R2M0.SLIB.PIT(CPYBSURP)': RC: 0 . INFF000I 13:35:19 Job IDF0X#XC generated	JCL von \$\$\$\$XCAT wird in JCL \$\$\$\$X#XC kopiert
FLASHRUN	CPYGENST 13:35:21 *** get I,J suffix *** CPYCHKPA V11R2M000 20 Jun 2016 13:35:21 CPYCHKPA 13:35:21 *** checking parms *** INFF151I 13:35:21 Combination of given parameters is valid. &mirror: BACKSYS &flsskel: &subschar: &pool2use: &flshmode: FULL &suspend: &dumpclas: &subscol: &hsmstc: HSM &hsmbcds: HSM.BCDS CPYCHKPA 13:35:21 *** checking chars *** CPYXLRSN V11R2M000 20 Jun 2016 13:35:21 CPYXLRSN 13:35:21 *** select SYSCOLUMNS * INFF161I 13:35:21 Length of START_RBA in SYSCOPY: 6 (byte) INFF161I 13:35:21 Length of SUSPEND_LRSN in FLSDASDI: 12 (char) CPYGENST 13:35:21 *** build JCL ***** INFF000I 13:35:22 Job IDF0V#G4 generated INFF000I 13:35:22 Job IDF0V#G5 generated INFF000I 13:35:22 Job IDF0V#G6 generated INFF000I 13:35:22 Job IDF0V#G7 generated INFF000I 13:35:22 Job IDF0V#ST generated INFF000I 13:35:22 Job IDF0V#TM generated INFF000I 13:35:22 Job IDF0V#GL generated	EXTENDED LRSN
FLASHUC4	CPYGENST 13:35:24 *** get I,J suffix *** CPYCHKPA V11R2M000 20 Jun 2016 13:35:24 CPYCHKPA 13:35:24 *** checking parms *** INFF151I 13:35:24 Combination of given parameters is valid. &mirror: BACKSYS &flsskel: &subschar: &pool2use: &flshmode: FULL &suspend: &dumpclas: &subscol: &hsmstc: HSM &hsmbcds: HSM.BCDS CPYCHKPA 13:35:24 *** checking chars *** CPYXLRSN V11R2M000 20 Jun 2016 13:35:24 CPYXLRSN 13:35:24 *** select SYSCOLUMNS * INFF161I 13:35:25 Length of START_RBA in SYSCOPY: 6 (byte) INFF161I 13:35:25 Length of SUSPEND_LRSN in FLSDASDI: 12 (char) CPYGENST 13:35:25 *** build JCL ***** INFF000I 13:35:25 Job IDF0V#U3 generated INFF000I 13:35:25 Job IDF0W#U3 generated	EXTENDED LRSN
PITGEN	CPYGENST 13:35:27 *** get I,J suffix *** CPYCHKPA V11R2M000 20 Jun 2016 13:35:27 CPYCHKPA 13:35:27 *** checking parms *** INFF151I 13:35:27 Combination of given parameters is valid. &mirror: BACKSYS &flsskel: &subschar: &pool2use: &flshmode: FULL &suspend: &dumpclas: &subscol: &hsmstc: HSM &hsmbcds: HSM.BCDS CPYCHKPA 13:35:27 *** checking chars *** CPYXLRSN V11R2M000 20 Jun 2016 13:35:27 CPYXLRSN 13:35:27 *** select SYSCOLUMNS * INFF161I 13:35:27 Length of START_RBA in SYSCOPY: 6 (byte) INFF161I 13:35:27 Length of SUSPEND_LRSN in FLSDASDI: 12 (char) CPYGENST 13:35:27 *** build JCL ***** INFF000I 13:35:27 Job IDF0X#GA generated	EXTENDED LRSN
TSRGEN optional	CPYGENST 13:35:30 *** get I,J suffix *** CPYCHKPA V11R2M000 20 Jun 2016 13:35:30 CPYCHKPA 13:35:30 *** checking parms *** INFF151I 13:35:30 Combination of given parameters is valid. &mirror: BACKSYS &flsskel: &subschar: &pool2use: &flshmode: FULL &suspend: &dumpclas: &subscol:	

InfoDesign

[illegible]

\$\$\$\$V#G1

Input

STEP	InfoFLASH	Bemerkung
IDCAMS	DEL &profpref..\$ISPPROF	
CPYDLMEM	&genlib(\$\$\$\$V*) &genlib(\$\$\$\$W*) &tlib(\$\$\$\$CNTL)	FLASHCOPY-Jobs RESTORE-Jobs diverse ISPF-Tabellen
DELMASK optional	DEL &workpref..*.J*.D0000* MASK	nur bei &storsdsf = YES alte Jobprotokolle löschen

Output

STEP		Bemerkung
IDCAMS	IDC0550I ENTRY (A) INFOMAT.IDF0.\$ISPPROF DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0	
CPYDLMEM	CPYDLMEM V11R2M000 20 Jun 2016 13:49:24 INFF001I 13:49:24 Deleting members from ID.OPC.GENERLIB.IDF0, mask: IDF0V* CPYDLMEM 13:49:24 *** delete member ***** INFF004I 13:49:24 IDF0V020 deleted	
DELMASK	DEL INFOMAT.IDF0.*J*.D0000* MASK IDC0550I ENTRY (A) INFOMAT.IDF0.IDF0V#G2.JOB11667.D0000115 DELETED IDC0550I ENTRY (A) INFOMAT.IDF0.IDF0V#G2.JOB11667.D0000129 DELETED IDC0550I ENTRY (A) INFOMAT.IDF0.IDF0V020.JOB11673.D0000211 DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0	nur bei &storsdsf = YES alte Jobprotokolle löschen

\$\$\$\$V#G2

Input

STEP	InfoFLASH	Bemerkung
CPYFLSSH		Sicherung FLSDASDI
SORT		Sort BCDS-Sätze
CPYBSUPR		Initial PREPARE, nur wenn SORT leer
CPYBSULR		nur wenn SORT leer
CPYBSUFM		
CPYBSULR		
CPYBSUPR		\$\$\$\$DASD erstellen

InfoDesign

CPYBSULR		
CPYBSUDC		
CPYSDSF optional		nur bei &storsdsf = YES alte Jobprotokolle löschen

Output

STEP		Bemerkung
CPYFLSSH	CPYFLSSH 14:27:18 *** check FLSHADOW **** deleting FLSHADOW ... copying FLSDASDI in FLSHADOW ... (last run complete) initializing //IDSYSREC DD, //MODEL DD ...	\$\$\$\$V#SD- und \$\$\$\$V#MD-Member in &jcllib
SORT		Copypool-Informationen aus BCDS extrahieren
CPYBSUPR		Ausführung nur wenn SORT mit RC 4 ended
CPYBSULR		Ausführung nur wenn SORT mit RC 4 ended
CPYBSUFM	CPYCHKPA 14:27:26 *** checking parms **** INFF151I 14:27:26 Combination of given parameters is valid. &mirror: BACKSYS &flsskel: &subschar: &pool2use: &flshmode: FULL &suspend: &dumpclas: &subscol: &hsmstc: HSM &hsmbcds: HSM.BCDS CPYCHKPA 14:27:26 *** checking chars **** CPYDB2UP V11R2M000 20 Jun 2016 14:27:26 CPYDB2UP 14:27:26 *** check STC ***** IDF0MSTR is not running - RC = 4 CPYDB2UP V11R2M000 20 Jun 2016 14:27:26 CPYDB2UP 14:27:26 *** check STC ***** INFF011A 14:27:26 DB2SSID changed from GAN IDF0 to member IDF1 CPYXLRN V11R2M000 20 Jun 2016 14:27:26 CPYXLRN 14:27:26 *** select SYSCOLUMNS * INFF161I 14:27:26 Length of START_RBA in SYSCOPY: 6 (byte) INFF161I 14:27:26 Length of SUSPEND_LRSN in FLSDASDI: 12 (char) CPYBSUFM 14:27:26 *** scan BSDS ***** INFF026I 14:27:27 2652 record(s) read from DD SYSPRINT CPYBSUFM 14:27:27 *** check INCR ***** processing COPY POOL DSN\$IDF0LOC\$DB with 1 versions . ***** BCDS INCR status : N (x'81') (b'10000001') . REXBASE parameter : FULL FRBACKUP option set to: SKIP ***** processing COPY POOL DSN\$IDF0LOC\$LG with 1 versions . ***** BCDS INCR status : N (x'81') (b'10000001') . REXBASE parameter : FULL FRBACKUP option set to: SKIP ***** processing B . processing DSN\$IDF0LOC\$DB..... with 6 volumes CPSPG record skipped processing B . processing DSN\$IDF0LOC\$LG..... with 6 volumes CPSPG record skipped CPYBSUFM 14:27:27 *** HSM dialog ***** IDZ0SCMD waits 1 second. processing copypool - D T . IDZ0SCMD waits 1 second. processing copypool - D T .	extended LRSN DB-Copypool gefundener Modus geforderter Modus LG-Copypool gefundener Modus geforderter Modus dummy command, weil keine Aktion notwendig ist.
CPYBSULR	***** 13.06.2016 - SYSSTC.HSM.STC03554.D0000214.? - BACKUP LOG . HSM ARC1801I FAST REPLICATION DATA SET RECOVERY IS STARTING FOR DATA SET IDF0.DSNDBC.FLSBS111.FLSINCR.I0001.A001, HSM AT 11:00:11 ON 2016/06/13 HSM ARC1861I THE FOLLOWING 0001 DATA SET(S) WERE SUCCESSFULLY PROCESSED DURING FAST REPLICATION DATA SET RECOVERY: HSM ARC1861I (CONT.) IDF0.DSNDBC.FLSBS111.FLSINCR.I0001.A001, COPYPPOOL=DSN\$IDF0LOC\$DB, DEVTYPE=DASD HSM ARC1802I FAST REPLICATION DATA SET RECOVERY HAS COMPLETED FOR DATA SET IDF0.DSNDBC.FLSBS111.FLSINCR.I0001.A001, HSM AT 11:00:12 ON 2016/06/13. FUNCTION RC=0000. MAXIMUM DATA SET RC=0000	

CPYBSUPR	<pre> INFBBSDS V9R1M004 20 Jun 2016 14:27:51 A001: INFBBSDS returns 1 BSDS datasetname(s) INFBBSDS 14:27:51 *** get BSDS name ***** INFB002I 14:27:52 command given: DB2INFO SUBSYSTEMNAME(IDF0) INFB000I 14:27:52 7 record(s) read from DD GMIDATA found BSDS names: IDF0L.IDF1.BSDS01 IDF0L.IDF1.BSDS02 INFBBSDS 14:27:52 *** checking BSDSLST ** &bsdsdsn, &bsdsdsn1, &bsdsdsn2 are ready to use in ASIS pool . . . CPYCHKPA V11R2M000 20 Jun 2016 14:27:52 CPYCHKPA 14:27:52 *** checking parms **** INFF151I 14:27:52 Combination of given parameters is valid. &mirror: BACKSYS &flsskel: &subsschar: &pool2use: &flshmode: FULL &suspend: &dumpclas: &subscol: &hsmstc: HSM &hsmbcds: HSM.BCDS CPYCHKPA 14:27:52 *** checking chars **** CPYDB2UP V11R2M000 20 Jun 2016 14:27:52 CPYDB2UP 14:27:53 *** check STC ***** IDF0MSTR is not running - RC = 4 CPYDB2UP V11R2M000 20 Jun 2016 14:27:53 CPYDB2UP 14:27:53 *** check STC ***** INFF011A 14:27:53 DB2SSID changed from GAN IDF0 to member IDF1 CPYBSUPR 14:27:53 *** scan BSDS ***** INFF026I 14:27:54 2652 record(s) read from DD SYSPRINT CPYBSUPR 14:27:54 *** preparing CP ***** CPYGMPRE V11R1M000 20 Jun 2016 14:27:54 CPYGMPRE 14:27:54 *** send COMMAND ***** INFF008I 14:27:54 command given: F HSM,FRBACKUP CP(DSN\$IDF0LOC\$DB),PREPARE INFF008I 14:27:54 command given: F HSM,FRBACKUP CP(DSN\$IDF0LOC\$LG),PREPARE CPYGMGET V11R2M000 20 Jun 2016 14:28:15 FLSCONS read from ASIS CPYGMGET 14:28:15 *** reading output **** ARC1801I . CPY1801I V11R1M000 20 Jun 2016 14:28:15 CPY1801I 14:28:15 *** reading file ***** HSM . INFF026I 14:28:15 19 record(s) read from DD GMIRSPNC from console FLSCONS cmd found: F HSM,FRBACKUP CP(DSN\$IDF0LOC\$DB),PREPARE PREPARE started: ARC1801I FAST REPLICATION PREPARE IS STARTING FOR COPY ARC1802I FAST REPLICATION PREPARE HAS COMPLETED FOR . ARC1802I (CONT.) COPY POOL DSN\$IDF0LOC\$DB, AT 14:27:55 ARC1802I (CONT.) FUNCTION RC=0000, MAXIMUM VOLUME RC= ARC1000I COPY POOL DSN\$IDF0LOC\$DB FRBACKUP PROCESSING PREPARE ended : ARC1000I (CONT.) ENDED . CPY1801I 14:28:15 *** reading file ***** HSM . INFF026I 14:28:15 7 record(s) read from DD GMIRSPNC from console FLSCONS cmd found: F HSM,FRBACKUP CP(DSN\$IDF0LOC\$LG),PREPARE PREPARE started: ARC1801I FAST REPLICATION PREPARE IS STARTING FOR COPY ARC1802I FAST REPLICATION PREPARE HAS COMPLETED FOR . ARC1802I (CONT.) COPY POOL DSN\$IDF0LOC\$LG, AT 14:27:55 ARC1802I (CONT.) FUNCTION RC=0000, MAXIMUM VOLUME RC=0 ARC1000I COPY POOL DSN\$IDF0LOC\$LG FRBACKUP PROCESSING PREPARE ended : ARC1000I (CONT.) ENDED . CPY1801I 14:28:15 *** reading msgfile *** INFF087I 14:28:15 DSN\$IDF0LOC\$DB is ready to use 1 . INFF087I 14:28:15 DSN\$IDF0LOC\$LG is ready to use 2 . CPY1801I 14:28:15 no errors found CPYGMGET 14:28:15 *** reading GMIPRINT ** INFF026I 14:28:15 43 record(s) read from DD GMIPRINT GMI019I Command ISSUE ended with RC 00, elapsed time 20.239 seconds </pre>	<p>Name des BSDS-datasets bestimmen</p> <p>REXBASE Parameter auf BSU FULL prüfen</p> <p>FRBACKUP PREPARE für beide Copypools</p> <p>Ergebnisprüfung</p>
CPYBSULR	<pre> ***** 13.06.2016 - SYSSTC.HSM.STC03554.D0000213.? - DUMP LOG . ***** - SYSSTC.HSM.STC03554.D0000002.JESMSG LG . HSM 018 ARC1801I (CONT.) POOL DSN\$IDF0LOC\$LG, AT 14:27:55 ON HSM 14.27.55 STC03554 ARC1802I FAST REPLICATION PREPARE HAS COMPLETED FOR HSM 019 ARC1802I (CONT.) COPY POOL DSN\$IDF0LOC\$LG, AT 14:27: HSM 019 ARC1802I (CONT.) FUNCTION RC=0000, MAXIMUM VOLUME RC HSM 019 ARC1802I (CONT.) COPY POOL DSN\$IDF0LOC\$LG, AT 14:27: </pre>	
CPYBSUDC	<pre> INFBBSDS V9R1M004 20 Jun 2016 14:28:35 A001: INFBBSDS returns 1 BSDS datasetname(s) INFBBSDS 14:28:35 *** get BSDS name ***** INFB002I 14:28:36 command given: DB2INFO SUBSYSTEMNAME(IDF0) INFB000I 14:28:36 7 record(s) read from DD GMIDATA found BSDS names: IDF0L.IDF1.BSDS01 IDF0L.IDF1.BSDS02 INFBBSDS 14:28:36 *** checking BSDSLST ** &bsdsdsn, &bsdsdsn1, &bsdsdsn2 are ready to use in ASIS pool . . . CPYBSUDC 14:28:37 *** DIS GROUP ***** CPYDB2UP V11R2M000 20 Jun 2016 14:28:37 CPYDB2UP 14:28:37 *** check STC ***** IDF0MSTR is not running - RC = 4 CPYDB2UP V11R2M000 20 Jun 2016 14:28:37 </pre>	

	<pre> CPYDB2UP 14:28:37 *** check STC ***** INFF011A 14:28:37 DB2SSID changed from GAN IDF0 to member IDF1 CPYXLRN V11R2M000 20 Jun 2016 14:28:37 CPYXLRN 14:28:37 *** select SYSCOLUMNS * INFF161I 14:28:37 Length of START_RBA in SYSCOPY: 6 (byte) INFF161I 14:28:37 Length of SUSPEND_LRSN in FLSDASDI: 12 (char) CPYBSUDC 14:28:37 *** scan BSDS ***** INFF026I 14:28:38 2652 record(s) read from DD SYSPRINT found STCK: 1 STCK DATA D0E7B06C80F25B84 STCK LOG D0E7B07EDC591C84 found LOG/BSDS volumes: IDF0L2 . . . CPYBSUDC 14:28:39 *** scan BCDS ***** INFF089A 14:28:39 &flashcnt = 1, set to number of copypool versions 1 processing DSN\$IDF0LOC\$DB version 018 BACKUP with 6 volumes, SG: IDF0DB2 FRS: RECOVERABLE processing DSN\$IDF0LOC\$DB version 018 PREPARED with 6 volumes, SG: IDF0DB2 . processing DSN\$IDF0LOC\$LG version 071 BACKUP with 6 volumes, SG: IDF0LOG FRS: RECOVERABLE processing DSN\$IDF0LOC\$LG version 071 PREPARED with 6 volumes, SG: IDF0LOG . CPYBSUDC 14:28:39 *** get volumelist **** Number of P-records: 2 . Number of B-records: 2 . DSN\$IDF0LOC\$DB 22:05:02 17 Jun 2016 v: 018 D0E8F1E37D11 source target status IDF000 IDF0BB used (x'80') (b'10000000') IDF001 IDF0BA used (x'80') (b'10000000') . . . IDF005 IDF0B5 used (x'A0') (b'10100000') DSN\$IDF0LOC\$LG 22:05:22 17 Jun 2016 v: 071 D0E8F1E37D11 source target status IDF0L0 IDF0B6 used (x'80') (b'10000000') IDF0L1 IDF0B7 used (x'80') (b'10000000') . . . IDF0L5 IDF0B2 used (x'A0') (b'10100000') CPYBSUDC 14:28:39 *** list backupinfo *** CPYBSUDC 14:28:39 *** call CPYDCOLL ***** Target Volume list IDF0L0 . . . CPYDCOLL V11R2M000 20 Jun 2016 14:28:39 CPYDCOLL 14:28:39 *** call IDCAMS ***** INFF026I 14:28:40 22 record(s) read from DD SYSPRINT DCOLLECT - VOLUMES (- IDF0L0 - IDF0L1 - . . . IDF0L5 -) - OUTFILE(DCOLLOUT) NODATAINFO IDC01811I NUMBER OF 'V ' RECORDS PROCESSED WAS 12 IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0 INFF026I 14:28:40 12 record(s) read from DD DCOLLOUT V ID11 !g IDF000 ... V ID11 !g IDF003 V ID11 !g IDF0L3 ... CPYBSUDC 14:28:40 *** gener EXPORT ***** CATALOG.IDF0 on IDF003 found - ready to EXPORT CATALOG.IDF0L on IDF0L3 found - ready to EXPORT INFOFLSH.V11R2M0.CNTL.PIT(IDF0VEXP) generated CPYBSUDC 14:28:41 *** clear FLSDASDI **** CPYBSUDC 14:28:41 *** check OFFLOAD ***** INFF148I 14:28:41 FLSDASDI: 12, FLSHIST: 12 volumes at 2016-06-17- 14.10.26.000000 CPYBSUDC 14:28:41 *** delete old version deleting from FLSDASDI IDF0BB D0DBAAC90C54 2016-06-17-14.10.26.000000 . IDF0BA D0DBAAC90C54 2016-06-17-14.10.26.000000 \$DF0L0 D0E884943262 2016-06-17-14.10.26.000000 . DELETE FROM FLSIF112.FLSDASDI WHERE SUSPEND_TIMESTAMP <= '2016-06-17-14. INFF049I 14:28:42 records with timestamp 2016-06-17-14.10.26.000000 from FLSIF112.FLSDASDI deleted CPYBSUDC 14:28:42 *** fill DASDIN ***** CPYBSUDC 14:28:42 *** read DCOLLECT ***** * generated by InfoMAT 20 Jun 2016 14:28:42 * selected FLASH-pool: COPYPOOL.DATA.071.NAME# 019 DSN\$IDF0LOC\$LG 019 SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * </pre>	<p>extended LRSN</p> <p>ISMF Konfiguration</p> <p>SMS-SG bestimmen</p> <p>Volume Status bestimmen (DB-Pool)</p> <p>Volume Status bestimmen (LG-Pool)</p> <p>EXPORT der ICF-Userkataloge generieren</p> <p>\$\$\$\$DASD Member erstellen</p>
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	<pre> IDF000 602F IDF0BB 6463 N IDF001 612F IDF0BA 635E IDF0L5 6132 IDF0B2 6353 ÜŸu INFF045I 14:28:42 12 VOLUME(s) will be flashed CPYBSUDC 14:28:42 *** fill ssidCNTL ***** </pre>	
CPYSDSF	<pre> found jobname: IDF0V#G2 . CPYRSDSF 14:28:43 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDF0V#G2 allocated. ***** - IDBUNK1.IDF0V#G2.JOB11976.D0000146.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G2.JOB11976.D0000146 allocated. ***** - IDBUNK1.IDF0V#G2.JOB11976.D0000143.? . lines read: 326 . . . SYSTSPRT file: INFOMAT.IDF0.IDF0V#G2.JOB11976.D0000129 allocated. ***** - IDBUNK1.IDF0V#G2.JOB11976.D0000115.? . lines read: 168 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G2.JOB11976.D0000115 allocated. CPYRSDSF 14:28:47 *** fill IDSYSREC ***** CPYRSDSF 14:28:47.578365 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:28:47.686401 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 14:28:47 *** fill MODDEL ***** CPYRSDSF 14:28:47.690450 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 14:28:47.806256 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>

\$\$\$V#G3

Input

STEP	InfoFLASH	Bemerkung
DUMMY		Dummy Step wegen AUTOMIC Problem mit INCLUDE Statement
EXPORT optional	<pre> DELETE &expohlq.EXPORT.CAT00199.VIDFC01 DELETE &expohlq.EXPORT.CAT00214.VIDFCL5 EXPORT CATALOG.IDFC TEMPORARY OUTFILE(VIDFC01) EXPORT CATALOG.IDFCL TEMPORARY OUTFILE(VIDFCL5) </pre>	nur bei &expocat = YES
BACKSYS		
CPYBSULR		

Output

STEP		Bemerkung
EXPORT optional	<pre> EXPORT CATALOG.IDF0 TEMPORARY OUTFILE(VIDF003) IDC0005I NUMBER OF RECORDS PROCESSED WAS 3207 IDC0594I PORTABLE DATA SET CREATED SUCCESSFULLY ON 06/20/16 AT 16:00:31 IDC1147I IT IS RECOMMENDED THAT DIAGNOSE AND EXAMINE BE RUN BEFORE IDC1147I IMPORT OF CATALOG IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 EXPORT CATALOG.IDF0L TEMPORARY OUTFILE(VIDF0L3) IDC0005I NUMBER OF RECORDS PROCESSED WAS 51 IDC0594I PORTABLE DATA SET CREATED SUCCESSFULLY ON 06/20/16 AT 16:00:31 IDC1147I IT IS RECOMMENDED THAT DIAGNOSE AND EXAMINE BE RUN BEFORE IDC1147I IMPORT OF CATALOG IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0 </pre>	<p>nur bei &expocat = YES</p> <p>EXPORT Userkataloge(e)</p>
BACKSYS	<pre> DSNU050I - BACKUP SYSTEM FULL DSNU1600I - BACKUP SYSTEM UTILITY FOR DATA STARTING, COPYPOOL = DSN\$IDF0LOC\$DB TOKEN = X'C9C4C6F2D0EC669795BA7A84D0EC648C078F' . DSNU1614I - BACKUP SYSTEM UTILITY FOR DATA COMPLETED SUCCESSFULLY, COPYPOOL = DSN\$IDF0LOC\$DB TOKEN = X'C9C4C6F2D0EC669795BA7A84D0EC648C078F' DATA COMPLETE LRSN = X'D0EC66A41F44' ELAPSED TIME = 00:00:14. DSNU1600I - BACKUP SYSTEM UTILITY FOR LOGS STARTING, COPYPOOL = DSN\$IDF0LOC\$LG TOKEN = X'C9C4C6F2D0EC669795BA7A84D0EC648C078F' . DSNU1614I - BACKUP SYSTEM UTILITY FOR LOGS COMPLETED SUCCESSFULLY, COPYPOOL = DSN\$IDF0LOC\$LG TOKEN = X'C9C4C6F2D0EC669795BA7A84D0EC648C078F' DATA COMPLETE LRSN = X'D0EC66A41F44' ELAPSED TIME = 00:00:04. </pre>	

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	DSNU1602I - BACKUP SYSTEM UTILITY COMPLETED, ELAPSED TIME = 00:00:27. DSNU010I - UTILITY EXECUTION COMPLETE, HIGHEST RETURN CODE=0	
CPYBSULR	<pre> ***** - SYSSTC.HSM.STC07005.D0000002.JESMSGLG . HSM 615 ARC1801I (CONT.) TOKEN=X'C9C4C6F2D0EC669795BA7A84D0EC648C078F' HSM 16.00.59 STC07005 ARC1805I THE FOLLOWING 00006 VOLUME(S) WERE 616 HSM 616 ARC1805I (CONT.) SUCCESSFULLY PROCESSED BY FAST REPLICATION BACKUP OF HSM 616 ARC1805I (CONT.) COPY POOL DSN\$IDF0LOC\$LG HSM 16.00.59 STC07005 ARC1805I (CONT.) IDF0L0 HSM 16.00.59 STC07005 ARC1805I (CONT.) IDF0L1 HSM 16.00.59 STC07005 ARC1805I (CONT.) IDF0L2 HSM 16.00.59 STC07005 ARC1805I (CONT.) IDF0L3 HSM 16.00.59 STC07005 ARC1805I (CONT.) IDF0L4 HSM 16.00.59 STC07005 ARC1805I (CONT.) IDF0L5 HSM 16.00.59 STC07005 ARC1802I FAST REPLICATION BACKUP HAS COMPLETED FOR HSM 623 ARC1802I (CONT.) COPY POOL DSN\$IDF0LOC\$LG, AT 16:00:59 ON 2016/06/20, HSM 623 ARC1802I (CONT.) FUNCTION RC=0000, MAXIMUM VOLUME RC=0000, CAPTURE HSM 623 ARC1802I (CONT.) CATALOG RC=0000 HSM 623 ARC1802I (CONT.) COPY POOL DSN\$IDF0LOC\$LG, AT 16:00:59 ON 2016/06/20, </pre>	

Damit wird vom HSM für jedes Volume der beiden Copypools ein ADRDSSU.COPY Statement generiert

```

COPY IDY(invol) ODY(outvol) -
  DUMPCOND -
  FASTREPLICATION(REQUIRED) -
  PURGE -
  ALLX ALLD(*) -
  DEBUG(FRMSG(DTL)) -
  FCFULLVOLUMERELATION

```

Die Option FCFULLVOLUMERELATION verhindert, dass die BackGroundCopy in mehreren parallelen Sessions abgearbeitet wird.

\$\$\$\$V#ST

Input

STEP	InfoFLASH	Bemerkung
CPYIFSTA		FCQUERY
LOAD		FLSINCR laden
TERMUTIL		Utility-ID = \$\$\$\$V#ST terminieren
CPYGENWD		
CPYSDSF optional		nur bei &storsdsf = YES alte Jobprotokolle löschen

Output

STEP		Bemerkung
CPYIFSTA	<pre> CPYIFSTA 16:01:29 *** read DASDIN ***** INFF026I 16:01:29 16 record(s) read from DD DASDIN * generated by InfoMAT 20 Jun 2016 14:28:42 * selected FLASH-pool: COPYPOOL.DATA.071.NAME# 019 DSN\$IDF0LOC\$LG 0 * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDF000 602F IDF0BB 6463 N IDF001 612F IDF0BA 635E . . . IDF0L5 6132 IDF0B2 6353 ÜŸu CPYIFSTA 16:01:29 *** read SYSPRINT ***** 16:01:30 Durchlauf 1 ***** CPYIFSTA 16:01:30 *** exec FCQUERY ***** IDF000 CPYIFSTA 16:01:31 *** reading SYSPRINT ** INFF026I 16:01:31.143545 - 56 record(s) read from DD SYSPRINT Sessionlist: 134689* IDF000 (ONLINE) - tracks to copy: 134689 CPYIFSTA 16:01:31 *** exec FCQUERY ***** IDF001 CPYIFSTA 16:01:31 *** reading SYSPRINT ** </pre>	<p>Zyklische Abfrage der BackGroundCopy</p> <p>Spuranzahl der aktiven BackGroundCopy</p>

	<pre> INFF026I 16:01:31.654563 - 56 record(s) read from DD SYSPRINT Sessionlist: 134814* . IDF001 (ONLINE) - tracks to copy: 134814 CPYIFSTA 16:01:40 *** exec FCQUERY ***** IDF0L5 CPYIFSTA 16:01:42 *** reading SYSPRINT ** INFF026I 16:01:42.564176 - 56 record(s) read from DD SYSPRINT Sessionlist: 150237 . IDF0L5 (ONLINE) - tracks to copy: 150237 . ***** tracksleft_pool: 1771999 . *** 1 *** tracksleft_pool: 1771999 . CPYWAITX V11R2M000 20 Jun 2016 16:01:42 CPYWAITX 16:01:42.616521 begin of wait 00100000 CPYWAITX 16:11:42.639432 end of wait 0 16:11:42 Durchlauf 2 ***** CPYIFSTA 16:11:42 *** exec FCQUERY ***** IDF000 CPYIFSTA 16:11:43 *** reading SYSPRINT ** INFF026I 16:11:43.728469 - 56 record(s) read from DD SYSPRINT Sessionlist: 71959* . IDF000 (ONLINE) - tracks to copy: 71959 . CPYIFSTA 16:11:43 *** exec FCQUERY ***** IDF001 CPYIFSTA 16:11:44 *** reading SYSPRINT ** INFF026I 16:11:44.896178 - 56 record(s) read from DD SYSPRINT Sessionlist: 56707* CPYIFSTA 16:22:00 *** exec FCQUERY ***** IDF0L5 CPYIFSTA 16:22:01 *** reading SYSPRINT ** INFF026I 16:22:01.247071 - 56 record(s) read from DD SYSPRINT Sessionlist: 93880* . IDF0L5 (ONLINE) - tracks to copy: 93880 . *** 3 *** tracksleft_pool: 1146536 . CPYWAITX V11R2M000 20 Jun 2016 16:22:01 CPYWAITX 16:22:01.264951 begin of wait 00100000 17:00:56 Durchlauf 7 ***** CPYIFSTA 17:00:56 *** exec FCQUERY ***** IDF000 CPYIFSTA 17:00:56 *** reading SYSPRINT ** INFF026I 17:00:56.758036 - 24 record(s) read from DD SYSPRINT IDF000 ONLINE - VOLUME NOT IN FLASHCOPY RELATION CPYIFSTA 17:00:56 *** exec FCQUERY ***** IDF001 CPYIFSTA 17:00:57 *** reading SYSPRINT ** INFF026I 17:00:57.014967 - 24 record(s) read from DD SYSPRINT IDF001 ONLINE - VOLUME NOT IN FLASHCOPY RELATION CPYIFSTA 17:00:59 *** exec FCQUERY ***** IDF0L5 CPYIFSTA 17:00:59 *** reading SYSPRINT ** INFF026I 17:00:59.537982 - 24 record(s) read from DD SYSPRINT IDF0L5 ONLINE - VOLUME NOT IN FLASHCOPY RELATION *** 7 *** tracksleft_pool: 0 . CPYWAITX V11R2M000 20 Jun 2016 17:00:59 CPYWAITX 17:00:59.551526 begin of wait 00000000 CPYWAITX 17:00:59.554774 end of wait 0 </pre>	<p>Spuranzahl einer inaktiven BackGroundCopy</p> <p>nächster Abfragezyklus (unter Berücksichtigung von &trkpscc: 10 Minuten)</p> <p>letzter Abfragezyklus (alle Beziehungen sind beendet)</p>
LOAD	<pre> DSNU050I - LOAD DATA INDDN EIN LOG YES RESUME YES DSNU650I - INTO TABLE FLSIF112.FLSINCR DSNU650I - (DATUM POSITION(1:10) DATE EXTERNAL, DSNU650I - UHRZEIT POSITION(12:19) TIME EXTERNAL, DSNU650I - VOLSER POSITION(21:26) CHAR, DSNU650I - TRACKS2COPY POSITION(28:35) INTEGER EXTERNAL, DSNU650I - ELAPSED TIME POSITION(37:44) CHAR) DSNU304I - (RE)LOAD PHASE STATISTICS - NUMBER OF RECORDS=13 FOR TABLE FLSIF112.FLSINCR DSNU1147I - (RE)LOAD PHASE STATISTICS - TOTAL NUMBER OF RECORDS LOADED=13 FOR TABLESPACE FLSIF112.FLSINCR DSNU302I - (RE)LOAD PHASE STATISTICS - NUMBER OF INPUT RECORDS PROCESSED=13 DSNU300I - (RE)LOAD PHASE COMPLETE, ELAPSED TIME=00:00:01 DSNU3340I - UTILITY PERFORMS DYNAMIC ALLOCATION OF SORT DISK SPACE DSNU042I - SORT PHASE STATISTICS - NUMBER OF RECORDS=13 ELAPSED TIME=00:00:00 DSNU349I - BUILD PHASE STATISTICS - NUMBER OF KEYS=13 FOR INDEX FLSIF112.FLSINCR_IX1 DSNU258I - BUILD PHASE STATISTICS - NUMBER OF INDEXES=1 DSNU259I - BUILD PHASE COMPLETE, ELAPSED TIME=00:00:00 DSNU010I - UTILITY EXECUTION COMPLETE, HIGHEST RETURN CODE=0 </pre>	Tabelle FLSINCR laden
TERMUTIL	<pre> -TER UTIL(IDF0V#ST) DSNU112I - NO AUTHORIZED UTILITY FOUND FOR UTILID = IDF0V#ST DSN9022I '-TER UTIL' NORMAL COMPLETION </pre>	TS Zugriff gewährleisten
CPYGENWD	<pre> CPYRSTMM V11R2M000 20 Jun 2016 17:01:04 CPYRSTMM 17:01:04 *** read DASDIN DD **** </pre>	

InfoDesign

	<pre> INFF026I 17:01:04 DASDIN record(s) read from DD * generated by InfoMAT 20 Jun 2016 14:28:42 * selected FLASH-pool: COPYPOOL.DATA.071.NAME# 019 DSN\$IDF0LOC\$LG 019 * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDF000 602F IDF0BB 6463 N IDF001 612F IDF0BA 635E IDF0L5 6132 IDF0B2 6353 ÜŸu 16 records read CPYRSTMM 17:01:04 *** METRO MIRROR ***** CPYRSTMM 17:01:04 *** calling ICKDSF **** IDF000 CPYRSTMM 17:01:05 *** read SYSPRINT ***** INFF026I 17:01:05 24 record(s) read from DD SYSPRINT IDF000 - VOLUME NOT IN FLASHCOPY RELATION 1 IDF000 (602F) - N/A - has no relation(s) tubc: . CPYRSTMM 17:01:05 *** calling ICKDSF **** IDF001 CPYRSTMM 17:01:05 *** read SYSPRINT ***** INFF026I 17:01:05 24 record(s) read from DD SYSPRINT IDF001 - VOLUME NOT IN FLASHCOPY RELATION 1 IDF001 (612F) - N/A - has no relation(s) tubc: CPYRSTMM 17:01:07 *** calling ICKDSF **** IDF0L5 CPYRSTMM 17:01:08 *** read SYSPRINT ***** INFF026I 17:01:08 24 record(s) read from DD SYSPRINT IDF0L5 - VOLUME NOT IN FLASHCOPY RELATION 1 IDF0L5 (6132) - N/A - has no relation(s) tubc: . CPYRSTMM 17:01:08 *** list ISPF table *** INFF107I 17:01:08 candidate list IDF0MM created: 16/06/20 17:01:04 last used: 16/06/20 17:01:08 (00000012 1 2 2) pvolser pssid plss pcca pucb svolser sssid slss scca suchb persist fcwdr IDF000 602F IDF0BB 6463 F NO IDF001 612F IDF0BA 635E F NO . . . IDF0L5 6132 IDF0B2 6353 F NO CPYGENWD 17:01:08 *** gener FCWITHDR **** INFF000I 17:01:08 Job IDF0P00B generated </pre>	<p>METRO MIRROR table: created, last used, (rows, exists, open, readonly)</p> <p>FCWITHDR Job</p>
CPYSDSF	<pre> found jobname: IDF0V#ST . CPYRSDSF 17:01:09 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDF0V#ST allocated. ***** - IDBUNK1.IDF0V#ST.JOB11982.D0000118.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDF0V#ST.JOB11982.D0000118 allocated. ***** - IDBUNK1.IDF0V#ST.JOB11982.D0000115.? . lines read: 256 SYSTSPRT file: INFOMAT.IDF0.IDF0V#ST.JOB11982.D0000115 allocated. ***** - IDBUNK1.IDF0V#ST.JOB11982.D0000112.? . lines read: 11 SYSTSPRT file: INFOMAT.IDF0.IDF0V#ST.JOB11982.D0000112 allocated. ***** - IDBUNK1.IDF0V#ST.JOB11982.D0000108.? . lines read: 606 SYSTSPRT file: INFOMAT.IDF0.IDF0V#ST.JOB11982.D0000108 allocated. CPYRSDSF 17:01:12 *** fill IDSYSREC ***** CPYRSDSF 17:01:12.090501 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 17:01:12.174606 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 17:01:12 *** fill MODEL ***** CPYRSDSF 17:01:12.179116 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 17:01:12.243500 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>

\$\$\$V#G4

Input

STEP	InfoFLASH	Bemerkung
IDCAMS	REPRO INFILE(BCDS) OUTFILE(DCOLLOUT) - FROMKEY(X'2E') TOKEY(X'2F')	Copypool-Informationen aus BCDS extrahieren
CPYBSUUP		
LOAD		
CPYSDSF optional		nur bei &storsdsf = YES alte Jobprotokolle löschen

Output

STEP		Bemerkung
IDCAMS	REPRO INFILE(BCDS) OUTFILE(DCOLLOUT) - FROMKEY(X'2E') TOKEY(X'2F') IDC0005I NUMBER OF RECORDS PROCESSED WAS 134	Copypool-Informationen aus BCDS extrahieren

	IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0	
CPYBSUUP	<p>INFBBSDS V9R1M004 21 Jun 2016 08:26:47 A001: INFBBSDS returns 1 BSDS datasetname(s) INFBBSDS 08:26:47 *** get BSDS name ***** INFB002I 08:26:48 command given: DB2INFO SUBSYSTEMNAME(IDF0) INFB000I 08:26:49 7 record(s) read from DD GMIDATA found BSDS names: IDF0L.IDF1.BSDS01 IDF0L.IDF1.BSDS02 INFBBSDS 08:26:49 *** checking BSDSLST ** &bsdsdsn, &bsdsdsn1, &bsdsdsn2 are ready to use in ASIS pool CPYXLRN V11R2M000 21 Jun 2016 08:26:49 CPYXLRN 08:26:49 *** select SYSCOLUMNS * INFF161I 08:26:49 Length of START_RBA in SYSCOPY: 6 (byte) INFF161I 08:26:49 Length of SUSPEND_LRSN in FLSDASDI: 12 (char) CPYBSUUP 08:26:49 *** scan BCDS ***** INFF089A 08:26:49 &flashcnt = 1, set to number of copypool versions 1 processing COPY POOL DSN\$IDF0LOC\$DB with 1 versions . processing COPY POOL DSN\$IDF0LOC\$LG with 1 versions . processing DSN\$IDF0LOC\$DB version 019 BACKUP with 6 volumes, SG: IDF0DB2 . processing DSN\$IDF0LOC\$LG version 072 BACKUP with 6 volumes, SG: IDF0LOG . CPYBSUUP 08:26:49 *** get volumelist **** DSN\$IDF0LOC\$LG 16:00:55 20 Jun 2016 v: 072 D0EC648C078F source target status IDF0L0 IDF0B6 used 80 IDF0L1 IDF0B7 used 80 IDF0L5 IDF0B2 used A0 DSN\$IDF0LOC\$DB 16:00:33 20 Jun 2016 version: 019 D0EC648C078F source target status IDF000 IDF0BB used 80 IDF001 IDF0BA used 80 IDF005 IDF0B5 used A0 used token is D0EC648C078F . CPYBSUUP 08:26:49 *** scan BSDS ***** CPYBSUUP 08:26:50 *** update FLSDASDI *** using SUSPEND LRSN: D0EC648C078F INFF026I 08:26:51 16 record(s) read from DD DASDIN * generated by InfoMAT 20 Jun 2016 14:28:42 * selected FLASH-pool: COPYPOOL.DATA.071.NAME# 019 DSN\$IDF0LOC\$LG 0 * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDF000 602F IDF0BB 6463 N IDF001 612F IDF0BA 635E IDF0L5 6132 IDF0B2 6353 ÜŸu Target Volume list IDF0BB . . . CPYDCOLL V11R2M000 21 Jun 2016 08:26:51 CPYDCOLL 08:26:51 *** call IDCAMS ***** INFF026I 08:26:51 22 record(s) read from DD SYSPRINT DCOLLECT - VOLUMES (- IDF0BB - IDF0BA - IDF0B2 -) - OUTFILE(DCOLLOUT) NODATAINFO IDC01811I NUMBER OF 'V ' RECORDS PROCESSED WAS 12 IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0 INFF026I 08:26:51 12 record(s) read from DD DCOLOUT V ID12 IDF0B0 ... V ID12 IDF0B1 V ID12 IDF0BB ... inserting follwing records into FLSIF112.FLSDASDI FLSDASDI: IDF0B0 2016-06-20-16.00.55 D0EC648C078F 2016-06-21-08.26.50.972073 FLSDASDI: IDF0B1 2016-06-20-16.00.55 D0EC648C078F 2016-06-21-08.26.50.972073 FLSDASDI: IDF0BB 2016-06-20-16.00.55 D0EC648C078F 2016-06-21-08.26.50.972073 INFF022I 08:26:54 12 record(s) added to FLSIF112.FLSDASDI CPYBSUUP 08:26:54 *** select INFON0IC *** INFF135I 08:26:54 no table FLSIF112.INFON0IC found, using default minlrsn: F CPYBSUUP 08:26:54 *** update FLSHIST **** FLSHIST : 2016-06-20-16.00.55 D0EC648C078F 2016-06-21-08.26.50.972073 12 INFF022I 08:26:55 one record(s) added to FLSIF112.FLSHIST CPYBSUUP 08:26:55 *** update ssidCNTL *** ISPF Table IDF0CNTL updated with: BACKSYS 160620 160055 D0EC648C078F .</p>	<p>extended LRSN</p> <p>Anzahl CP Versionen aus ISMF</p> <p>SMS-SG aus ISMF</p> <p>Volumeliste LG-Pool</p> <p>Volumeliste DB-Pool</p> <p>SUSPEND LRSN aus Token bestimmen</p> <p>\$\$\$\$DASD lesen</p> <p>FLSDASDI befüllen</p> <p>FLSHIST befüllen</p> <p>ISPF table aktualisieren</p>

InfoDesign

LOAD	DSNU050I - LOAD DATA INDDN EIN LOG YES RESUME YES DSNU650I - INTO TABLE FLSIF112.FLSBCDS DSNU650I - (DEFINE_TIMESTAMP POSITION(1:26) TIMESTAMP EXTERNAL, DSNU650I - STCK_DATA POSITION(28:43) CHAR, DSNU650I - DATA_TYPE POSITION(45:48) CHAR, DSNU650I - FRRECOV_TYPE POSITION(50:50) CHAR, DSNU650I - BCDS_RECORD POSITION(52) VARCHAR) DSNU304I - (RE)LOAD PHASE STATISTICS - NUMBER OF RECORDS=4 FOR TABLE FLSIF112.FLSBCDS DSNU1147I - (RE)LOAD PHASE STATISTICS - TOTAL NUMBER OF RECORDS LOADED=4 FOR TABLESPACE FLSIF112.FLSBCDS DSNU302I - (RE)LOAD PHASE STATISTICS - NUMBER OF INPUT RECORDS PROCESSED=4 DSNU300I - (RE)LOAD PHASE COMPLETE, ELAPSED TIME=00: 00:00 DSNU3340I - UTILITY PERFORMS DYNAMIC ALLOCATION OF SORT DISK SPACE DSNU042I - SORT PHASE STATISTICS - NUMBER OF RECORDS=4 ELAPSED TIME=00:00:00 DSNU349I - BUILD PHASE STATISTICS - NUMBER OF KEYS=4 FOR INDEX FLSIF112.FLSBCDS_IX1 DSNU258I - BUILD PHASE STATISTICS - NUMBER OF INDEXES=1 DSNU259I - BUILD PHASE COMPLETE, ELAPSED TIME=00:00: 00 DSNU010I - UTILITY EXECUTION COMPLETE, HIGHEST RETURN CODE=0	Tabelle FLSBCDS laden
CPYSDSF	found jobname: IDF0V#G4 . CPYRDSF 08:26:58 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDF0V#G4 allocated. ***** - IDBUNK1.IDF0V#G4.JOB00208.D0000113.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G4.JOB00208.D0000113 allocated. ***** - IDBUNK1.IDF0V#G4.JOB00208.D0000108.? . lines read: 286 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G4.JOB00208.D0000108 allocated. CPYRDSF 08:27:00 *** fill IDSYSREC ***** CPYRDSF 08:27:00.169623 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRDSF 08:27:00.231080 dequeue IDSYSREC sucessfully RC: 0000 . CPYRDSF 08:27:00 *** fill MODDEL ***** CPYRDSF 08:27:00.235169 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRDSF 08:27:00.283521 dequeue IDSYSREC sucessfully RC: 0000 .	nur bei &storsdsf = YES SYSTSPRT aus laufendem Job extrahieren

\$\$\$V#G5

Input

STEP	InfoFLASH	Bemerkung
IDCAMS	DEL &workpref..FLSDCOLL	
CPYDMPFL		DUMP-Job(s) generieren
CPYSDSF optional		nur bei &storsdsf = YES alte Jobprotokolle löschen

Output

STEP		Bemerkung
IDCAMS	DEL INFOMAT.IDF0.FLSDCOLL IDC0550I ENTRY (A) INFOMAT.IDF0.FLSDCOLL DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0	
CPYDMPFL	CPYDMPFL 08:43:29 *** read DASDIN DD ***** INFF026I 08:43:29 16 record(s) read from DD DASDIN * generated by InfoMAT 20 Jun 2016 14:28:42 * selected FLASH-pool: COPYPOOL.DATA.071.NAME# 019 DSN\$IDF0LOC\$LG 0 * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDF000 602F IDF0BB 6463 N IDF001 612F IDF0BA 635E IDF0L5 6132 IDF0B2 6353 ÜŸu CPYDMPFL 08:43:29 *** call CPYDCOLL ***** Target Volume list IDF0BB . . . CPYDCOLL V11R2M000 21 Jun 2016 08:43:29 CPYDCOLL 08:43:29 *** call IDCAMS ***** INFF026I 08:43:30 22 record(s) read from DD SYSPRINT DCOLLECT - VOLUMES (- IDF0BB - IDF0BA - . . . IDF0B2 -) -	

	<pre> OUTFILE(DCOLLOUT) NODATAINFO IDC01811I NUMBER OF 'V ' RECORDS PROCESSED WAS 12 IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0 INFF026I 08:43:30 12 record(s) read from DD DCOLLOUT V ID11 IDF0B0 ... V ID11 IDF0B1 V ID11 IDF0BB ... CPYDMPFL 08:43:30 *** generating JCL *** INFF028I 08:43:30 tape summary tblnr tapenr dcvvolsr prevlbl steplfd lblldf dcvspcmb logkz 1 1 IDF0B0 0 1 1 6870 D 2 1 IDF0B3 1 2 2 6642 D . . . 12 1 IDF0B6 11 12 12 2304 L INFF000I 08:43:30 Job IDF0V020 generated INFF029I 08:43:30 processing summary 48938 MB amount of space requires 1 tape(s) with percentage of 82 used and capacity of 60000 MB defined. </pre>	<pre> &dumpjobs=1 &dumpcapa=60000 &ignoffl=NO </pre>
CPYSDSF	<pre> found jobname: IDF0V#G5 . CPYRSDSF 08:43:31 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDF0V#G5 allocated. ***** - IDBUNK1.IDF0V#G5.JOB00210.D0000109.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G5.JOB00210.D0000109 allocated. ***** - IDBUNK1.IDF0V#G5.JOB00210.D0000106.? . lines read: 235 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G5.JOB00210.D0000106 allocated. CPYRSDSF 08:43:32 *** fill IDSYSREC ***** CPYRSDSF 08:43:32.686062 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 08:43:32.907284 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 08:43:32 *** fill MODDEL ***** CPYRSDSF 08:43:32.911849 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 08:43:33.036898 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	<pre> nur bei &storsdsf = YES SYSTSPRT aus laufendem Job extrahieren </pre>

\$\$\$\$V#U3

Input

STEP	InfoFLASH	Bemerkung
CPYTOSCH	MEM = IDF0V	Scheduler API

Output

STEP	InfoFLASH	Bemerkung
CPYTOSCH	<pre> CPYT0UC4 08:53:56 *** scan jobs ***** CPYEDUC4 V11R2M000 21 Jun 2016 08:53:57 *** EDIT: IDF0V020 CPYT0UC4 08:53:57 *** create #FT ***** IDF0V020 DUMP2TAPE 10 0 99 DUMP . INFF000I 08:53:57 Job #IDF0VFT generated </pre>	Erstellung des Members #\$\$\$VFT in &genlib

\$\$\$\$V02n

Input

STEP	InfoFLASH	Bemerkung
DELETE optional	DELETE &dumppref.Dvolser.D16173.T31409 DELETE &dumppref.Lvolser.D16173.T31409	nur bei &ignoffl = NO
DUMPN	DUMP FULL - ADMINISTRATOR - INDD(DASD1) - OUTDD(TAPE1) - ALLDATA(*) ALLEXCP OPTIMIZE(4)	
UPDTn	//REXSYSIN DD * DUMPSDSN = &dumppref.Dvolser0.D16173.T31409 //SYSIN DD * C9C4C6F0C2F0E700000000F00138A7F006B5406007EDE85000000FD00082812000000	nur bei &ignoffl = NO
CPYSDSF optional		nur bei &storsdsf = YES alte Jobprotokolle löschen

Output

STEP	Bemerkung
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InfoDesign

DELETE	DELETE INFOFLSH.ADRDSSU.IDF0.DIDF0B0.D16173.T31409 IDC3012I ENTRY INFOFLSH.ADRDSSU.IDF0.DIDF0B0.D16173.T31409 NOT FOUND IDC3009I ** VSAM CATALOG RETURN CODE IS 8 - REASON CODE IS IGG0CLEG-42 IDC0551I ** ENTRY INFOFLSH.ADRDSSU.IDF0.DIDF0B0.D16173.T31409 NOT IDC0551I DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 8 DELETE INFOFLSH.ADRDSSU.IDF0.LIDF0B0.D16173.T31409 IDC3012I ENTRY INFOFLSH.ADRDSSU.IDF0.LIDF0B0.D16173.T31409 NOT FOUND IDC3009I ** VSAM CATALOG RETURN CODE IS 8 - REASON CODE IS IGG0CLEG-42 IDC0551I ** ENTRY INFOFLSH.ADRDSSU.IDF0.LIDF0B0.D16173.T31409 NOT IDC0551I DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 8 SET MAXCC EQ 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0	nur bei &ignoffl = NO
DUMPN	ADR101I TASKID 002 HAS BEEN ASSIGNED TO COMMAND 'DUMP ' ADR109I INITIAL SCAN OF USER CONTROL STATEMENTS COMPLETED ADR014I ALL PREVIOUSLY SCHEDULED TASKS COMPLETED. PARALLEL MODE NOW IN EFPE ADR016I RACF LOGGING OPTION IN EFFECT FOR THIS TASK ADR006I 2016.173 08:53:16 EXECUTION BEGINS ADR006I 2016.173 08:57:05 EXECUTION ENDS ADR013I TASK COMPLETED WITH RETURN CODE 0000 ADR012I DFSMSDSS PROCESSING COMPLETE. HIGHEST RETURN CODE IS 0000	nur bei &ignoffl = NO &dumtask = 1: ein volser = ein Step
UPDTn	CPYDMPUP 08:57:06 *** update FLSDASDI *** INFF026I 08:57:06 1 record(s) read from DD DUMPDSN INFF026I 08:57:06 1 record(s) read from DD SYSIN INFF041I 08:57:07 FLASH-volser IDF0B0 updated in FLSIF112.FLSDASDI CPYDMPUP 08:57:07 *** get columns ***** CPYDMPUP 08:57:07 *** insert FLSTAPE **** SRCVOL TGTVOL SUSPEND_TIMESTAMP SUSPEND_LRSN LOG IDF004 IDF0B0 2016-06-20-16.00.55.000000 D0EC648C078F N . begin of insert 08:57:07.970023 end of insert 08:57:09.085631 1 records inserted into FLSTAPE (11 columns). CPYDMPUP 08:57:09 *** delete FLSTAPE **** 0 records with OFFLOAD_STATUS = IGNORED, TGTVOL = IDF0B0 and RETPD > 8 deleted from FLSIF112.FLSTAPE (RC:100)	Update in FLSDASDI Insert in FLSTAPE Nicht katalogisierte Einträge aus FLSTAPE löschen
CPYSDSF	found jobname: IDF0V020 . CPYRSDSF 09:32:01 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDF0V020 allocated. ***** - IDBUNK1.IDF0V020.JOB00211.D0000211.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDF0V020.JOB00211.D0000211 allocated. ***** - IDBUNK1.IDF0V020.JOB00211.D0000208.? . lines read: 180 . . . SYSTSPRT file: INFOMAT.IDF0.IDF0V020.JOB00211.D0000158 allocated. ***** - IDBUNK1.IDF0V020.JOB00211.D0000153.? . lines read: 180 SYSTSPRT file: INFOMAT.IDF0.IDF0V020.JOB00211.D0000153 allocated. CPYRSDSF 09:32:06 *** fill IDSYSREC ***** CPYRSDSF 09:32:06.572755 enqueue IDSYSREC successfully RC: 0000 - try: 1 . CPYRSDSF 09:32:06.667872 dequeue IDSYSREC successfully RC: 0000 . CPYRSDSF 09:32:06 *** fill MODDEL ***** CPYRSDSF 09:32:06.672949 enqueue IDSYSREC successfully RC: 0000 - try: 1 . CPYRSDSF 09:32:06.757835 dequeue IDSYSREC successfully RC: 0000 .	nur bei &storsdsf = YES SYSTSPRT aus laufendem Job extrahieren

\$\$\$V#TM

Input

STEP	InfoFLASH	Bemerkung
CPYTMSTA		
CPYSDSF optional		nur bei &storsdsf = YES alte Jobprotokolle löschen

Output

STEP		Bemerkung
CPYTMSTA	CPYTMSTA 09:51:47 *** get RMM info ***** SD-cont: . INFF173I 09:51:49 336 records found in RMM with INFOFLSH.ADRDSSU.IDF0.** INFF173I 09:51:49 48 records found in FLSIF112.FLSTAPE with OFFLOAD_STATUS OKAY dsname . credt 1 1 INFOFLSH.ADRDSSU.IDF0.D\$DF000.D16168.T51395 . 16/06/2016 2 2 INFOFLSH.ADRDSSU.IDF0.D\$DF000.D16169.T47117 . 17/06/2016 . . .	Liste aller in FLSTAPE gefundenen TAPES +&dumpret: parametrisiertes EXPDT

	48 336 INFOFLSH.ADRDSSU.IDF0.LIDF0B9.D16173.T31409 . 21/06/2016	
CPYSDSF	<pre> found jobname: IDF0V#TM . CPYRSDSF 09:51:52 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDF0V#TM allocated. ***** - IDBUNK1.IDF0V#TM.JOB00215.D0000107.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDF0V#TM.JOB00215.D0000107 allocated. ***** - IDBUNK1.IDF0V#TM.JOB00215.D0000104.? . lines read: 216 SYSTSPRT file: INFOMAT.IDF0.IDF0V#TM.JOB00215.D0000104 allocated. CPYRSDSF 09:51:53 *** fill IDSYSREC ***** CPYRSDSF 09:51:53.759652 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 09:51:53.924231 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 09:51:53 *** fill MODDEL ***** CPYRSDSF 09:51:53.928929 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 09:51:54.040726 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>

\$\$\$V#G6

Input

STEP	InfoFLASH	Bemerkung
CPYBSUVC		
CPYFLSCM		
CPYSDSF optional		nur bei &storsdsf = YES alte Jobprotokolle löschen

Output

STEP		Bemerkung
CPYBSUVC	<pre> INFBBSDS V9R1M004 21 Jun 2016 09:56:27 A001: INFBBSDS returns 1 BSDS datasetname(s) INFBBSDS 09:56:27 *** get BSDS name ***** INFB002I 09:56:28 command given: DB2INFO SUBSYSTEMNAME(IDF0) INFB000I 09:56:28 7 record(s) read from DD GMIDATA found BSDS names: IDF0L.IDF1.BSDS01 IDF0L.IDF1.BSDS02 INFBBSDS 09:56:28 *** checking BSDSLST ** &bsdsdsn, &bsdsdsn1, &bsdsdsn2 are ready to use in ASIS pool . . . CPYBSUVC 09:56:28 *** scan BSDS ***** CPYBSUVC 09:56:28 *** DIS GROUP ***** CPYDB2UP V11R2M000 21 Jun 2016 09:56:28 CPYDB2UP 09:56:28 *** check STC ***** IDF0MSTR is not running - RC = 4 CPYDB2UP V11R2M000 21 Jun 2016 09:56:29 CPYDB2UP 09:56:29 *** check STC ***** INFF011A 09:56:29 DB2SSID changed from GAN IDF0 to member IDF1 CPYBSUVC 09:56:29 *** read DASDIN DD *** INFF026I 09:56:29 16 record(s) read from DD DASDIN * generated by InfoMAT 20 Jun 2016 14:28:42 * selected FLASH-pool: COPYP00L.DATA.071.NAME# 019 DSN\$IDF0LOC\$LG 0 * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDF000 602F IDF0BB 6463 N IDF001 612F IDF0BA 635E . . . IDF0L5 6132 IDF0B2 6353 ÜŸu CPYBSUVC 09:56:29 *** scan BSDS ***** INFF026I 09:56:30 2641 record(s) read from DD SYSPRINT HLQ of CAT/DIR-datasets is : IDF0 Prefix of LOGCOPY-datasets is: IDF0L.IDF1 IDF0L.IDF2 Name of BSDS01-dataset is : IDF0L.IDF1.BSDS01 CPYBSUVC 09:56:30 *** select vcatnames ** INFF006I 09:56:30 VCAT names found in SYSTABLEPART and SYSINDEXPART: IDF0 CPYBSUVC 09:56:30 *** call CSI ***** DSNAME number and names of used volsers IDF0.DSNBDB.TSRMVB.TSRMVT.J0001.A001 2 IDF005 IDF003 CPYBSUVC 09:56:32 *** get volumelist *** CPYBSUVC 09:56:32 *** find DB2 volumes ** processing input volume: IDF0L0 </pre>	<p>Volumeliste aus Sicht DB2 auf Vollständigkeit prüfen</p>

	<pre> processing input volume: IDF0L1 . . . processing input volume: IDF005 </pre>	
CPYFLSCM	<pre> CPYFLSCM 09:56:34 *** check FLSHADOW **** updating FLSHADOW ... (FLASH_ACTIVE = 'OLD') copying FLSDASDI in FLSHADOW ... (FLASH_ACTIVE = 'YES') deleting FLSHADOW ... (FLASH_ACTIVE <> 'YES') CPYFLSCM 09:56:34 *** update FLSHADOW *** updating FLSHADOW ... (FLASH_ACTIVE = 'NO') INFF143I 09:56:34 FLASHCOPY is set to "COMPLETE" </pre>	FLSDASDI und FLSHADOW bekommen gleichen Inhalt.
CPYRSDSF	<pre> found jobname: IDF0V#G6 . CPYRSDSF 09:56:35 *** scan ISFLOG ***** SDSF LOAD file: INFOMAT.IDF0.SYSIN.LOAD.IDF0V#G6 allocated. ***** - IDBUNK1.IDF0V#G6.JOB00216.D0000111.? . lines read: 7 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G6.JOB00216.D0000111 allocated. ***** - IDBUNK1.IDF0V#G6.JOB00216.D0000108.? . lines read: 172 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G6.JOB00216.D0000108 allocated. ***** - IDBUNK1.IDF0V#G6.JOB00216.D0000105.? . lines read: 227 SYSTSPRT file: INFOMAT.IDF0.IDF0V#G6.JOB00216.D0000105 allocated. CPYRSDSF 09:56:36 *** fill IDSYSREC ***** CPYRSDSF 09:56:36.998107 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 09:56:37.157581 dequeue IDSYSREC sucessfully RC: 0000 . CPYRSDSF 09:56:37 *** fill MODEL ***** CPYRSDSF 09:56:37.162178 enqueue IDSYSREC sucessfully RC: 0000 - try: 1 . CPYRSDSF 09:56:37.278096 dequeue IDSYSREC sucessfully RC: 0000 . </pre>	<p>nur bei &storsdsf = YES</p> <p>SYSTSPRT aus laufendem Job extrahieren</p>

\$\$\$\$V#GL

Input

STEP	InfoFLASH	Bemerkung
LOAD	LOAD DATA LOG YES RESUME YES INTO TABLE &idcreate.FLSTSPRT	

Output

STEP		Bemerkung
LOAD	<pre> DSNU050I - LOAD DATA LOG YES RESUME YES DSNU650I - INTO TABLE FLSIF112.FLSTSPRT DSNU650I - (PRODUCT POSITION(1:10) CHAR, DSNU650I - VERSION POSITION(12:21) CHAR, DSNU650I - JOBNAME POSITION(23:30) CHAR, DSNU650I - JESID POSITION(32:39) CHAR, DSNU650I - DSID POSITION(41:48) CHAR, DSNU650I - SYSTSPRT POSITION(50:93) CHAR CLOBF) DSNU304I - (RE)LOAD PHASE STATISTICS - NUMBER OF RECORDS=33 FOR TABLE FLSIF112.FLSTSPRT DSNU1147I - (RE)LOAD PHASE STATISTICS - TOTAL NUMBER OF RECORDS LOADED=33 FOR TABLESPACE FLSIF112.FLSTSPRT DSNU3340I - UTILITY PERFORMS DYNAMIC ALLOCATION OF SORT DISK SPACE DSNU302I - (RE)LOAD PHASE STATISTICS - NUMBER OF INPUT RECORDS PROCESSED=33 DSNU300I - (RE)LOAD PHASE COMPLETE, ELAPSED TIME=00: 00:03 DSNU042I - SORT PHASE STATISTICS - NUMBER OF RECORDS=66 ELAPSED TIME=00:00:00 DSNU349I - BUILD PHASE STATISTICS - NUMBER OF KEYS=33 FOR INDEX FLSIF112.FLSTSPRT_IX1 DSNU349I - BUILD PHASE STATISTICS - NUMBER OF KEYS=33 FOR INDEX FLSIF112.FLSTSPRT_IX2 </pre>	

InfoDesign

	DSNU258I - BUILD PHASE STATISTICS - NUMBER OF INDEXES=2 DSNU259I - BUILD PHASE COMPLETE, ELAPSED TIME=00:00:00 DSNU010I - UTILITY EXECUTION COMPLETE, HIGHEST RETURN CODE=0	
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InfoFLASH TSR

\$\$\$\$V#GC

Input

STEP	InfoFLASH	Bemerkung
CPYTSTCG		
CPYTSTDC		
LOAD		
UPDATE		
CPYTSTCL		

Output

STEP		Bemerkung
CPYTSTCG	<pre> CPYTSTCG 10:24:18 *** read DASDIN DD **** INFF026I 10:24:18 DASDIN record(s) read from DD * generated by InfoMAT 20 Jun 2016 14:28:42 * selected FLASH-pool: COPYPOOL.DATA.071.NAME# 019 DSN\$IDF0LOC\$LG 0 * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDF000 602F IDF0BB 6463 N IDF001 612F IDF0BA 635E IDF0L5 6132 IDF0B2 6353 ÜŸu 16 records read CPYTSTCG 10:24:18 *** get volumelist **** CPYTSTCG 10:24:18 *** call CPYDCOLL ***** Target Volume list IDF0BB . . . CPYDCOLL V11R2M000 21 Jun 2016 10:24:18 CPYDCOLL 10:24:18 *** call IDCAMS ***** INFF026I 10:24:19 24 record(s) read from DD SYSPRINT DCOLLECT - VOLUMES (- IDF0BB - IDF0BA - . . . IDF0B2 -) - OUTFILE(DCOLLOUT) IDC01811I NUMBER OF 'D ' RECORDS PROCESSED WAS 1652 IDC01811I NUMBER OF 'A ' RECORDS PROCESSED WAS 1640 IDC01811I NUMBER OF 'V ' RECORDS PROCESSED WAS 12 IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0 INFF026I 10:24:19 3304 record(s) read from DD DCOLLOUT CPYTSTCG 10:24:19 *** read DCOLLECT *** INFF174I 10:24:20 1600 record(s) written to //SYSPRINT DD. CPYTSTCG 10:24:20 *** process MVDS ***** IDF0.DSNDBC.TSRMVDB.TSRMVT.SJ0001.A001 on volume IDF0B4 (volsq:2) INFF000I 10:24:22 Job IDF0VTAB generated CPYTSTRL V11R2M000 21 Jun 2016 10:24:22 CPYTSTRL 10:24:22 *** read DB2NORUN ***** CPYTSTRL 10:24:22 *** read EXCEPT_TBL *** INFF109I 10:24:22 SQL-Code: 0 - found objects: 1 - from DSNACC.EXCEPT_TBL excluded from REORG (see DSNACC.EXCEPT_TBL): TSRMVDB.TSRMVT CPYTSTRL 10:24:22 *** get VB data ***** INFF109I 10:24:22 SQL-Code: 0 - found objects: 0 - records from SYSIBM.SYSTABLESPACE, SYSIBM.SYSTABLES CPYTSTRL 10:24:22 *** get WORK DB ***** </pre>	<p>DCOLLECT Zielvolumes mit DATAINFO</p> <p>multivolume Dateien bestimmen Sicherungsjob für multivolume Datei generiert</p> <p>Ausnahmen prüfen</p>

	<pre> INFF101I 10:24:22 DBs not considered: 'DSNDB01','DSNDB06','DSNRTSDB', 'DSNDB07', 'WRKIDF1','WRKIDF2' CPYTSTRIL 10:24:22 *** insert INFOREOL *** entries found in IDF0TSRC: TSRMVDB TS RMVTS 1 419110 0 1 0 CYL 800 600 TS Y NOT_USED NOT_USED INFF160I 10:24:22 IDF0.DSNDBC.TSRMVDB.TSRMVTS.J0001.A001 excluded from INSERT, caused by REORG= </pre>	ggf. in INFOREOL eintragen
CPYTSTRDC	<pre> CPYTSTRDC V11R2M000 21 Jun 2016 10:24:23 INFF174I 10:24:26 1601 record(s) written to //OUT DD. </pre>	
LOAD	<pre> DSNU050I - LOAD DATA INDDN EIN RESUME YES LOG YES DSNU650I - INTO TABLE FLSIF112.FLSTSRDC DSNU650I - (DSNAME POSITION(25:68) CHAR, DSNU650I - ERROR_SMS POSITION(71:71) CHAR, . . . DSNU650I - DB2PARTITION POSITION(476:479) CHAR) DSNU320I - RESUME(YES) WAS SPECIFIED FOR EMPTY TABLESPACE DSNU3340I - UTILITY PERFORMS DYNAMIC ALLOCATION OF SORT DISK SPACE DSNU3342I - NUMBER OF OPTIMAL SORT TASKS = 2, NUMBER OF SORT TASKS = 2 DSNU395I - INDEXES WILL BE BUILT IN PARALLEL, NUMBER OF TASKS = 4 DSNU310I - RECORD (1601) WILL BE DISCARDED DUE TO 'CREATION_DATE' CONVERSION ERROR FOR FLSIF112.FLSTSRDC ERROR CODE '04 - INPUT PACKED DECIMAL IS IN ERROR' DSNU304I - (RE)LOAD PHASE STATISTICS - NUMBER OF RECORDS=1600 FOR TABLE FLSIF112.FLSTSRDC DSNU1147I - (RE)LOAD PHASE STATISTICS - TOTAL NUMBER OF RECORDS LOADED=1600 FOR TABLESPACE FLSIF112.FLSTSRDC DSNU1150I - (RE)LOAD PHASE STATISTICS - NUMBER OF RECORDS NOT LOADED=1 DSNU302I - (RE)LOAD PHASE STATISTICS - NUMBER OF RECORDS PROCESSED=1601 DSNU300I - (RE)LOAD PHASE COMPLETE, ELAPSED TIME=00:00:00 DSNU394I - SORTBLD PHASE STATISTICS - NUMBER OF KEYS=1600 FOR INDEX FLSIF112.FLSTSRDC_IX2 DSNU394I - SORTBLD PHASE STATISTICS - NUMBER OF KEYS=1600 FOR INDEX FLSIF112.FLSTSRDC_IX1 DSNU391I - SORTBLD PHASE STATISTICS. NUMBER OF INDEXES = 2 DSNU392I - SORTBLD PHASE COMPLETE, ELAPSED TIME = 00:00:01 DSNU375I - DISCARD PHASE STATISTICS - 1 INPUT DATA SET RECORDS DISCARDED DSNU376I - DISCARD PHASE COMPLETE, ELAPSED TIME=00:00:00 DSNU010I - UTILITY EXECUTION COMPLETE, HIGHEST RETURN CODE=4 </pre>	
UPDATE	<pre> UPDATE FLSIF112.FLSTSRDC B SET DB2PARTITION = '0000' WHERE EXISTS (SELECT 1 FROM SYSIBM.SYSTABLESPACE A WHERE A.DBNAME = B.DB2DBNAME AND A.NAME = B.DB2TSNAME AND PARTITIONS = 0); RESULT OF SQL STATEMENT: SUCCESSFUL UPDATE OF 77 ROW(S) UPDATE FLSIF112.FLSTSRDC C SET DB2PARTITION = '0000' WHERE EXISTS (SELECT 1 FROM SYSIBM.SYSINDEXES A, SYSIBM.SYSINDEXPART B WHERE A.NAME = B.IXNAME AND A.CREATOR = B.IXCREATOR AND A.DBNAME = C.DB2DBNAME AND A.INDEXSPACE = C.DB2TSNAME AND PARTITION = 0); RESULT OF SQL STATEMENT: DSNT400I SQLCODE = 000, SUCCESSFUL EXECUTION SUCCESSFUL UPDATE OF 868 ROW(S) </pre>	
CPYTSTRCL	<pre> CPYTSTRCL 10:24:32 *** get MINLRN ***** INFF109I 10:24:33 SQL-Code: 0 - found objects: 4 - records from FLSHIST INFF176I 10:24:33 using oldest offloaded SUSPEND with: MIN_SUSPEND_TIMESTAMP: 2016-06-16-14.13.21.000000 . MIN_SUSPEND_LRSN : D0E743353F0F . MINLRN (FLSHIST): FFFFFFFF . CPYTSTRCL 10:24:33 *** delete FLSTSRDC *** </pre>	Löschen aller Sätze deren SUSPEND_LRSN älter als icmaxage ist oder zu denen es keine LOG- Sätze mehr gibt

	10:24:33 executing SQL: DELETE FROM FLSIF112.FLSTSRDC WHERE DATE(SUSPEND_TIMESTAMP) < '2016-03-23' INFF109I 10:24:33 SQL-Code: 100 - found objects: 0 - records from FLSTSRDC CPYTSRCL 10:24:33 *** delete MV DUMPs *** 10:24:33 executing SQL: SELECT DISTINCT MV_DUMP_DSN FROM FLSIF112.FLSTSRDC WHERE MV_DUMP_DSN_VALID = 'D' AND SUSPEND_LRSN < 'D0E743353F0F' INFF109I 10:24:33 SQL-Code: 0 - found objects: 0 - looking for DSN	
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\$\$\$\$VTab

Input

STEP	InfoFLASH	Bemerkung
ICcn	COPY TABLESPACE multivolume tablespace DSNUM 1 CHangelIMIT(0,1) SHRLEVEL CHANGE CHECKPAGE COPYDDN CP1 REPORTONLY	
ICFn	COPY TABLESPACE multivolume tablespace DSNUM 1 COPYDDN (CP1) SHRLEVEL CHANGE CHECKPAGE	

Output

STEP		Bemerkung																		
ICcn	<div>DSNU050I - COPY TABLESPACE TSRMVDB.TSRMVTS DSNUM 1 CHANGLIMIT(0, 1) SHRLEVEL CHANGE CHECKPAGE COPYDDN CP1 REPORTONLY</div> <div>DSNU440I - IMAGE COPY INFORMATION</div> <table><thead><tr><th>DBNAME</th><th>TSNAME</th><th>DSNUM</th><th>PAGES</th><th>4KB PAGES</th><th>EMPTY PAGES</th><th>CHANGED PAGES</th><th>PERCENT OF CHANGED PAGES</th><th>ICTYPE</th></tr></thead><tbody><tr><td>TSRMVDB</td><td>TSRMVTS</td><td>1</td><td>424,140</td><td>18</td><td>15,435</td><td>3.63</td><td>F</td><td></td></tr></tbody></table> <div>DSNU443I - FULL CHANGE LIMIT MET FOR TABLESPACE TSRMVDB.TSRMVTS DSNUM 1</div> <div>DSNU010I - UTILITY EXECUTION COMPLETE, HIGHEST RETUR N CODE=3</div>	DBNAME	TSNAME	DSNUM	PAGES	4KB PAGES	EMPTY PAGES	CHANGED PAGES	PERCENT OF CHANGED PAGES	ICTYPE	TSRMVDB	TSRMVTS	1	424,140	18	15,435	3.63	F		COPY REPORTONLY je gefundenes Objekt
DBNAME	TSNAME	DSNUM	PAGES	4KB PAGES	EMPTY PAGES	CHANGED PAGES	PERCENT OF CHANGED PAGES	ICTYPE												
TSRMVDB	TSRMVTS	1	424,140	18	15,435	3.63	F													
ICFn	<div>DSNU050I - COPY TABLESPACE TSRMVDB.TSRMVTS DSNUM 1 COPYDDN(CP1) SHRLEVEL CHANGE CHECKPAGE</div> <div>DSNU400I - COPY PROCESSED FOR TABLESPACE TSRMVDB.TSRMVTS DSNUM 1</div> <div>NUMBER OF PAGES=424122 AVERAGE PERCENT FREE SPACE PER PAGE = 82.80 PERCENT OF CHANGED PAGES = 3.62 ELAPSED TIME=00:00:40</div> <div>DSNU428I - DB2 IMAGE COPY SUCCESSFUL FOR TABLESPACE TSRMVDB.TSRMVTS DSNUM 1</div> <div>DSNU010I - UTILITY EXECUTION COMPLETE, HIGHEST RETUR N CODE=0</div>	COPY FULL NO je gefundenes Objekt																		

InfoFLASH TSR TS RECOVER

\$\$\$\$V#GD

Input

STEP	InfoFLASH	Bemerkung
CPYTSR00	Clustername: vcat.DSNDBC D.dbname.tsname.I J00001.A00n	//SYSIN DD

Output

STEP	InfoFLASH	Bemerkung
CPYTSR00	INFBBSDS V9R1M004 21 Jun 2016 11:14:44 A001: INFBBSDS returns 1 BSDS datasetname(s) INFBBSDS 11:14:44 *** get BSDS name ***** INFB002I 11:14:45 command given: DB2INFO SUBSYSTEMNAME(IDF0) INFB000I 11:14:45 7 record(s) read from DD GMIDATA found BSDS names: IDF0L.IDF1.BSDS01 IDF0L.IDF1.BSDS02 INFBBSDS 11:14:45 *** checking BSDSLST ** &bsdsdsn, &bsdsdsn1, &bsdsdsn2 are ready to use in ASIS pool . . .	

	<pre> CPYTSR00 11:14:45 *** read DASDIN DD **** INFF026I 11:14:45 DASDIN record(s) read from DD * generated by InfoMAT 20 Jun 2016 14:28:42 * selected FLASH-pool: COPYPOOL.DATA.071.NAME# 019 DSN\$IDF0LOC\$LG 0 * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDF000 602F IDF0BB 6463 N IDF001 612F IDF0BA 635E IDF0L5 6132 IDF0B2 6353 ÜYu 16 records read CPYTSR00 11:14:45 *** process SYSIN ***** INFF026I 11:14:45 1 record(s) read from DD SYSIN TBADD IDF0.DSNDBC.TSRMVDB.TSRMVT.SJ0001.A001 RC: 0 . INFF168I 11:14:45 IDF0DSNT with 00000001 rows found CPYTSR00 11:14:45 *** looking for IX **** 11:14:45 executing SQL: SELECT DB2DBNAME, DB2TSNAME, DB2PARTITION, TSR.SUSPEND_TIMESTAMP, 'IX' AS TYPE FROM FLSIF112.FLSTSRDC TSR, SYSIBM.SYSINDEXES IX WHERE DSNAME = 'IDF0.DSNDBC.TSRMVDB.TSRMVT.SJ0001.A001' AND IX.DBNAME = TSR.DB2DBNAME AND IX.INDEXSPACE = TSR.DB2TSNAME INFF109I 11:14:45 SQL-Code: 0 - found objects: 0 - looking for IX INFF168I 11:14:45 IDF0DSNT with 00000001 rows found IDF0.DSNDBC.TSRMVDB.TSRMVT.SJ0001.A001 . CPYTSR00 11:14:45 *** SYSCOPY LOG NO **** 11:14:45 executing SQL: SELECT HEX(START_RBA) AS LOGNO_LRSN, ICDATE, ICTIME, ICTYPE, DBNAME, TSNAME, DSNUM FROM SYSIBM.SYSCOPY WHERE ICTYPE IN ('P','S','W','Y','C') AND DBNAME = 'TSRMVDB' AND TSNAME = 'TSRMVTS' AND (DSNUM = INTEGER(0001) OR DSNUM = 0) ORDER BY START_RBA DESC INFF109I 11:14:45 SQL-Code: 0 - found objects: 0 - looking for FC > LOG NO INFF168I 11:14:45 IDF0DSNT with 00000001 rows found IDF0.DSNDBC.TSRMVDB.TSRMVT.SJ0001.A001 . CPYTSR00 11:14:45 *** checking NONPART ** 11:14:45 executing SQL: SELECT DB2DBNAME, DB2TSNAME, DB2PARTITION FROM FLSIF112.FLSTSRDC WHERE DSNAME = 'IDF0.DSNDBC.TSRMVDB.TSRMVT.SJ0001.A001' AND 0 = INTEGER(DB2PARTITION) INFF109I 11:14:46 SQL-Code: 0 - found objects: 0 - looking for NON PART INFF168I 11:14:46 IDF0DSNT with 00000001 rows found IDF0.DSNDBC.TSRMVDB.TSRMVT.SJ0001.A001 . CPYTSR01 V11R1M002 21 Jun 2016 11:14:46 CPYTSR01 11:14:46 *** read FLSDASDI ***** INFF109I 11:14:46 SQL-Code: 0 - found objects: 1 - looking for LRSN SUSPEND_LRSN: D0EC648C078F . CPYTSR01 11:14:46 *** read FLSTAPE ***** INFF109I 11:14:46 SQL-Code: 0 - found objects: 4 - looking for LRSN SUSPEND_LRSN: D0EC648C078F . SUSPEND_LRSN: D0E743353F0F . SUSPEND_LRSN: D0E874EEC234 . SUSPEND_LRSN: D0E884943262 . CPYTSR01 11:14:46 *** restore source **** INFF168I 11:14:46 IDF0DSNT with 00000001 rows found CPYTSR01 11:14:46 *** get RESTORE src *** INFF109I 11:14:46 SQL-Code: 0 - found objects: 2 - looking for LRSN IDF0B4 . . D0EC648C078F . FROMDASD . 11:14:46 executing SQL: SELECT VOLSER, DB2DBNAME, DB2TSNAME, DB2PARTITION, TSR.SUSPEND_TIMESTAMP, 'TS' AS TYPE, SRCVOL FROM FLSIF112.FLSTSRDC TSR, SYSIBM.SYSTABLESPACE TSP, FLSIF112.FLSTAPE TA WHERE DSNAME = 'IDF0.DSNDBC.TSRMVDB.TSRMVT.SJ0001.A001' AND TSP.DBNAME = TSR.DB2DBNAME AND TSP.NAME = TSR.DB2TSNAME AND TSR.SUSPEND_LRSN = TA.SUSPEND_LRSN AND TSR.VOLSER = TA.TGTVOL ORDER BY SUSPEND_TIMESTAMP DESC INFF109I 11:14:46 SQL-Code: 0 - found objects: 2 - looking for TS IDF0.DSNDBC.TSRMVDB.TSRMVT.SJ0001.A001 IDF0B4 TS 2016-06-20-16.00.55.000000 IDF0.DSNDBC.TSRMVDB.TSRMVT.SJ0001.A001 IDF0B5 TS 2016-06-20-16.00.55.000000 CPYTSR01 11:14:46 *** send COMMAND ***** IDF003 </pre>	<p>\$\$\$\$DASD einlesen</p> <p>//SYSIN einlesen, nur ein Dateiname wird akzeptiert</p> <p>Prüfung auf Index; Indexes werden nicht unterstützt</p> <p>Prüfung auf LOG NO Ereignisse, diese können nicht aus dem LOG wiederhergestellt werden.</p> <p>Prüfung auf weitere Dateicontainer bei NON PART Tablespace</p> <p>Prüfung auf ONLINE Verfügbarkeit der FlashCopy</p> <p>Prüfung auf Wiederherstellung aus einer Bandsicherung</p> <p>Singlevolume Datei gefunden</p>
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InfoDesign

	CPYTSR01 11:14:50 *** reading GMIRSPNC ** INFF026I 11:14:50 16 record(s) read from DD GMIRSPNC . . TSRMVDB TSMVTS 0001 TS IDFODB2 . IDFO.DSNDDBC.TSRMVDB.TSMVTS.J000 INFF168I 11:14:50 IDF0NONP with 00000000 rows found 3 INFF168I 11:14:50 IDFOREST with 00000000 rows found INFF168I 11:14:50 IDF0NONP with 00000000 rows found 2 INFF168I 11:14:50 IDF0DSNT with 00000001 rows found INFF168I 11:14:50 IDF0NONP with 00000000 rows found 1 INFF000I 11:14:50 Job IDFOXAAB generated	Objektkallokation ermitteln RESTORE und RECOVER Job erstellen
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\$\$\$\$Xabc

Input

STEP	InfoFLASH	Bemerkung
STOPSTRT	-STO DB(dbname) SPACE(tablespace) -STA DB(dbname) SPACE(tablespace)	
DELMVDS	DEL VSAM-cluster SET MAXCC EQ 0	
GM2NGINE		
RC	RECOVER TABLESPACE tablespace LOGONLY	

Output

STEP		Bemerkung
STOPSTRT	-STO DB(TSRMVDB) SPACE(TSRMVTs) DSN9022I -IDF1 DSNTDDIS 'STOP DATABASE' NORMAL COMPLETION DSN -STA DB(TSRMVDB) SPACE(TSRMVTs) DSN9022I -IDF1 DSNTDDIS 'START DATABASE' NORMAL COMPLETION	Stoppen des Objektes in der DBD01
DELMVDS	DEL IDF0.DSNDBC.TSRMVDB.TSRMVTs.J0001.A001 IDC0550I ENTRY (D) IDF0.DSNBDB.TSRMVDB.TSRMVTs.J0001.A001 DELETED IDC0550I ENTRY (C) IDF0.DSNDBC.TSRMVDB.TSRMVTs.J0001.A001 DELETED IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 SET MAXCC EQ 0	Cluster löschen, falls vorhanden
GM2ENGINE	TABSPARE - INVOL (- IDF0BB - IDF0BA - . . . IDF0B2 -)- ACCEPT (- IDF0.DSNDBC.TSRMVDB.TSRMVTs.J0001.A001 -)- OUTSTORGROUP (- IDF0B2 -)- ADRKW('ADMINISTRATOR FR(PREF) REPLACEU')	Durchsuchen der Flash-Volumes nach Dateibestandteilen
	GMI048I List of OUTPUT volumes added for cmd TABSPARE from storgrp IDF0B2 GMI048I IDF000 GMI330I Datasets used by next restore GMI330I DSname_or_VSAM_component Volser Seq DSorg HiUsedRBA GMI330I IDF0.DSNBDB.TSRMVDB.TSRMVTs.J0001.A001 IDF0B5 001 0008 0D3BC000 GMI330I IDF0.DSNBDB.TSRMVDB.TSRMVTs.J0001.A001 IDF0B4 002 0008 678CC000 GMI332I Source cluster processed with ADRDSSU GMI102I ADRDSSU ended with RC 04, messages from utility listed next GMI102I COPY DS(INC(- GMI102I IDF0.DSNDBC.TSRMVDB.TSRMVTs.J0001.A001 - GMI102I)) - GMI102I PHYSINDYNAM((IDF0B5)) - GMI102I OUTDYNAM((IDF001)) - GMI102I PROCESS(SYS1) - GMI102I ADMINISTRATOR FR(PREF) REPLACEU - GMI102I TOL(ENQF) ALLDATA(*) ALLEXCP GMI102I ADR101I TASKID 001 HAS BEEN ASSIGNED TO COMMAND 'COPY ' GMI102I ADR109I INITIAL SCAN OF USER CONTROL GMI102I ADR050I DFSMSDSS INVOKED VIA APPLICATION INTERFACE GMI102I ADR016I RACF LOGGING OPTION IN EFFECT FOR THIS TASK GMI102I ADR006I EXECUTION BEGINS GMI102I ADR396I DATA SET CLUSTER IDF0.DSNDBC.TSRMVDB.TSRMVTs.J0001.A001 OMONENT IDF0.DSNBDB.TSRMVDB.TSRMVTs.J0001.A001 GMI102I ALLOCATED. ON VOLUME(S): IDF001	Physikalisches Kopieren der Dateikomponente

	<p>GMI102I ADR806I DATA SET IDF0.DSNDBC.TSRMVDB.TSRMVTS.J0001.A001 COPIED USING A FAST REPLICATION FUNCTION THE FOLLOWING COMPONENTS FOR CLUSTER IDF0.DSNDBC.TSRMVDB.TSRMVTS.J0001.A001 ON IDF001 MAY HAVE TO CATALOGED IN CATALOG CATALOG.IDF0 COMPONENT IDF0.DSNDBD.TSRMVDB.TSRMVTS.J0001.A001</p> <p>GMI102I ADR423W SELECTED DATA SET IDF0.DSNDBC.TSRMVDB.TSRMVTS.J0001.A001 IS A MULTIVOLUME DATA SET</p> <p>GMI102I ADR454I THE FOLLOWING DATA SETS WERE SUCCESSFULLY PROCESSED GMI102I CLUSTER NAME IDF0.DSNDBC.TSRMVDB.TSRMVTS.J0001.A001 GMI102I COMPONENT NAME IDF0.DSNDBD.TSRMVDB.TSRMVTS.J0001.A001 GMI102I ADR006I EXECUTION ENDS GMI102I ADR013I TASK COMPLETED WITH RETURN CODE 0004 GMI102I ADR012I DFSMSDSS PROCESSING COMPLETE.HIGHEST RETURN CODE IS 0004 FROM: TASK 001</p> <p>GMI102I ADRDSSU ended with RC 04, messages from utility listed next GMI102I COPY DS(INC(- GMI102I IDF0.DSNDBC.TSRMVDB.TSRMVTS.J0001.A001 - GMI102I)) - GMI102I PHYSINDYNAM((IDF0B4)) - GMI102I OUTDYNAM((IDF003)) - GMI102I PROCESS(SYS1) - GMI102I ADMINISTRATOR FR(PREF) REPLACEU - GMI102I TOL(ENQF) ALLDATA(*) ALLEXCP</p> <p>GMI102I ADR101I TASKID 001 HAS BEEN ASSIGNED TO COMMAND 'COPY ' GMI102I ADR109I INITIAL SCAN OF USER CONTROL STATEMENTS COMPLETED GMI102I ADR050I DFSMSDSS INVOKED VIA APPLICATION INTERFACE GMI102I ADR016I RACF LOGGING OPTION IN EFFECT FOR THIS TASK GMI102I ADR006I EXECUTION BEGINS GMI102I ADR396I DATA SET CLUSTER IDF0.DSNDBC.TSRMVDB.TSRMVTS.J0001.A001 COMPONENT IDF0.DSNDBD.TSRMVDB.TSRMVTS.J0001.A001 ALLOCATED, ON VOLUME(S): IDF003</p> <p>GMI102I ADR806I DATA SET IDF0.DSNDBC.TSRMVDB.TSRMVTS.J0001.A001 GMI102I ADR418I THE FOLLOWING COMPONENTS FOR CLUSTER IDF0.DSNDBC.TSRMVDB.TSRMVTS.J0001.A001 ON IDF003 MAY HAVE TO CATALOGED IN CATALOG CATALOG.IDF0 COMPONENT IDF0.DSNDBD.TSRMVDB.TSRMVTS.J0001.A001</p> <p>GMI102I ADR423W SELECTED DATA SET IDF0.DSNDBC.TSRMVDB.TSRMVTS.J 0001.A001 IS A MULTIVOLUME DATA SET</p> <p>GMI102I ADR454I THE FOLLOWING DATA SETS WERE SUCCESSFULLY PROCESSED GMI102I CLUSTER NAME IDF0.DSNDBC.TSRMVDB.TSRMVTS.J0001.A001 GMI102I COMPONENT NAME IDF0.DSNDBD.TSRMVDB.TSRMVTS.J0001.A001 GMI102I ADR006I EXECUTION ENDS GMI102I ADR013I TASK COMPLETED WITH RETURN CODE 0004 GMI102I ADR012I DFSMSDSS PROCESSING COMPLETE. HIGHEST RETURN CODE IS 0004 FROM: TASK 001</p> <p>GMI103I IDCAMS ended with RC 00, message from utility listed next GMI103I DEFINE CLUSTER(- GMI103I NAME(IDF0.DSNDBC.TSRMVDB.TSRMVTS.J0001.A001) - GMI103I VOLUME(- GMI103I IDF001 IDF003 - GMI103I) - GMI103I LINEAR - GMI103I RECATALOG)</p> <p>GMI103I IDC0508I DATA ALLOCATION STATUS FOR VOLUME IDF001 IS 0 GMI103I IDC0508I DATA ALLOCATION STATUS FOR VOLUME IDF003 IS 0 GMI103I IDC0001I FUNCTION COMPLETED, HIGHEST CONDITION CODE WAS 0 GMI103I GMI103I IDC0002I IDCAMS PROCESSING COMPLETE. MAXIMUM CONDITION CODE WAS 0 ... GMI023I GM2NGINE ended, highest RC 00, total time 2.630 seconds</p>	Wiederherstellen des Katalogeintrags
RC	<p>DSNU050I - LISTDEF RECOLIST INCLUDE TABLESPACE TSRMVDB.TSRMVTS PARTLEVEL 1 DSNU1035I - LISTDEF STATEMENT PROCESSED SUCCESSFULLY DSNU050I - RECOVER LIST RECOLIST LOGONLY DSNU1039I - PROCESSING LIST ITEM: TABLESPACE TSRMVDB.TSRMVTS PARTITION 1 DSNU532I - RECOVER TABLESPACE TSRMVDB.TSRMVTS DSNUM 1 START DSNU549I -IDF1 173 11:32:48.75 DSNUCALA - RECOVER TABLESPACE TSRMVDB.TSRMVTS DSNUM 1 USES ONLY DB2 LOGS STARTING FROM LOGPOINT=X'D0E8D7495F20'</p> <p>DSNU1511I - FAST LOG APPLY WAS NOT USED FOR RECOVERY DSNU1510I - LOG APPLY PHASE COMPLETE, ELAPSED TIME = 00:00:00 DSNU500I - RECOVERY COMPLETE, ELAPSED TIME=00:00:00 DSNU050I - LISTDEF REBULIST INCLUDE TABLESPACE TSRMVDB.TSRMVTS PARTLEVEL 1 DSNU1035I - LISTDEF STATEMENT PROCESSED SUCCESSFULLY DSNU050I - REBUILD INDEX LIST REBULIST DSNU1039I - PROCESSING LIST ITEM: TABLESPACE TSRMVDB.TSRMVTS PARTITION 1 DSNU3340I - UTILITY PERFORMS DYNAMIC ALLOCATION OF SORT DISK SPACE DSNU3342I - NUMBER OF OPTIMAL SORT TASKS = 1, NUMBER OF ACTIVE TASKS = 1</p>	RECOVER LOGONLY

	DSNU555I - UNLOAD PHASE STATISTICS - NUMBER OF RECORDS PROCESSED=5650968 DSNU705I - UNLOAD PHASE COMPLETE - ELAPSED TIME=00:01:40 DSNU394I - SORTBLD PHASE STATISTICS - NUMBER OF KEYS=5650968 FOR INDEX IDSAP.TSRMVIX DSNU391I - SORTBLD PHASE STATISTICS. NUMBER OF INDEXES = 1 DSNU392I - SORTBLD PHASE COMPLETE, ELAPSED TIME = 00:00:08 DSNU010I - UTILITY EXECUTION COMPLETE, HIGHEST RETURN CODE=0	
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InfoFLASH RECOVERY

Die nachfolgend aufgeführten Jobs werden benötigt um eine RECOVERY basierend auf FlashCopy-Sicherungen durchzuführen.

\$\$\$\$X#XC

Das JCL für diesen Job wird vom \$\$\$\$V#G0 generiert.

Den Kern bildet dabei das JCL des Jobs \$\$\$\$XCAT, welcher während des letzten InfoMAT-Ablaufes erstellt wurde. Ausgeführt wird der Teil des RECOVER CATALOG aber nur, wenn das vorgeschaltete DISPLAY RESTRICTED den Bedarf anzeigt.

Input

STEP	InfoFLASH	Bemerkung
CPYXDRES		
\$\$\$\$XCAT		nur bei RC 4 aus CPYXDRES
CPYBSURP		

Output

STEP		Bemerkung
CPYXDRES	<pre> CPYXDRES 15:33:10 *** display RES ***** RES(RBDP,RECP,LPL) 1 DSNT360I -IDFC ***** 2 DSNT361I -IDFC * DISPLAY DATABASE SUMMARY 3 * RESTRICTED 4 DSNT360I -IDFC ***** 5 DSNT362I -IDFC DATABASE = DSNDB01 STATUS = RW 6 DBD LENGTH = 108200 7 DSNT397I -IDFC 8 NAME TYPE PART STATUS PHYERRLO PHYERRHI CATALOG PIECE 9 ----- 10 DSNDB01X IX L0001 RW,RBDP,PSRBD 11 ---- 12 ICOPY 13 ---- 14 ICOPY 14 DBD01 TS 0001 RW,RECP 15 DBD01 TS 16 ***** DISPLAY OF DATABASE DSNDB01 ENDED ***** 17 DSNT360I -IDFC ***** 18 DSNT362I -IDFC DATABASE = FLSIFI92 STATUS = RW 19 DBD LENGTH = 36332 20 DSNT397I -IDFC 21 NAME TYPE PART STATUS PHYERRLO PHYERRHI CATALOG PIECE 22 ----- 23 FLST1JVL IX L0001 RW,RBDP,PSRBD 24 FLST1JVL IX L* 25 FLST18ZL IX L0001 RW,RBDP,PSRBD 26 FLST18ZL IX L* 27 . . . 31 FLST1XS1 IX L0001 RW,RBDP,PSRBD 32 FLST1XS1 IX L* 33 ***** DISPLAY OF DATABASE FLSIFI92 ENDED ***** 34 DSN9022I -IDFC DSNTDDIS 'DISPLAY DATABASE' NORMAL COMPLETION DBNAME NAME von bis TYPE STATUS Partition 1 DSNDB01 DSNDB01X 1 1 IX RBDP 3 DSNDB01 DBD01 1 1 TS RECP 5 FLSIFI92 FLST1JVL 1 1 IX RBDP 6 FLSIFI92 FLST1JVL 0 0 IX . . . 13 FLSIFI92 FLST1XS1 1 1 IX RBDP 14 FLSIFI92 FLST1XS1 0 0 IX </pre>	<p>Gesuchte RES-Stat</p> <p>Objekt aus DIRECTORY/CATALOG gefunden → RECOVER CATALOG erforderlich, RC=4</p>
\$\$\$\$XCAT		Bestandteil der InfoMAT Generierung
CPYBSURP	<pre> CPYBSURP 15:38:50 *** get WORK DBs ***** INFF101I 15:38:50 DBs not considered: 'DSNDB01', 'DSNDB06', 'DSNRTSDB', 'DSNDB07' CPYBSURP 15:38:50 *** display RES ***** RES(RBDP,RECP,LPL) 1 DSNT360I -IDFC ***** 2 DSNT361I -IDFC * DISPLAY DATABASE SUMMARY 3 * RESTRICTED 4 DSNT360I -IDFC ***** 5 DSNT362I -IDFC DATABASE = FLSIFI92 STATUS = RW 6 DBD LENGTH = 36332 7 DSNT397I -IDFC 8 NAME TYPE PART STATUS PHYERRLO PHYERRHI CATALOG PIECE 9 ----- 10 DSNDB01X IX L0001 RW,RBDP,PSRBD 11 ---- 12 ICOPY 13 ---- 14 ICOPY 14 DBD01 TS 0001 RW,RECP 15 DBD01 TS 16 ***** DISPLAY OF DATABASE DSNDB01 ENDED ***** 17 DSNT360I -IDFC ***** 18 DSNT362I -IDFC DATABASE = FLSIFI92 STATUS = RW 19 DBD LENGTH = 36332 20 DSNT397I -IDFC 21 NAME TYPE PART STATUS PHYERRLO PHYERRHI CATALOG PIECE 22 ----- 23 FLST1JVL IX L0001 RW,RBDP,PSRBD 24 FLST1JVL IX L* 25 FLST18ZL IX L0001 RW,RBDP,PSRBD 26 FLST18ZL IX L* 27 . . . 31 FLST1XS1 IX L0001 RW,RBDP,PSRBD 32 FLST1XS1 IX L* 33 ***** DISPLAY OF DATABASE FLSIFI92 ENDED ***** 34 DSN9022I -IDFC DSNTDDIS 'DISPLAY DATABASE' NORMAL COMPLETION DBNAME NAME von bis TYPE STATUS Partition 1 DSNDB01 DSNDB01X 1 1 IX RBDP 3 DSNDB01 DBD01 1 1 TS RECP 5 FLSIFI92 FLST1JVL 1 1 IX RBDP 6 FLSIFI92 FLST1JVL 0 0 IX . . . 13 FLSIFI92 FLST1XS1 1 1 IX RBDP 14 FLSIFI92 FLST1XS1 0 0 IX </pre>	<p>RESTRICTED STATE nur für Fachdaten</p>

InfoDesign

```

19 FLST1XS1 IX L*
20 ***** DISPLAY OF DATABASE FLSIFI92 ENDED *****
21 DSN9022I -IDFC DSNTDDIS 'DISPLAY DATABASE' NORMAL COMPLETION

      IDFCREC3 table
      DBNAME  NAME      von bis TYPE STATUS
                        Partition
      1 FLSIFI92 FLST1JVL    1  1  IX RBDP
      2 FLSIFI92 FLST1JVL    0  0  IX
      . . .
     10 FLSIFI92 FLST1XS1    0  0  IX
CPYBSURP 15:38:50 *** fill RTT2 table ***
      processing TS ...
      processing IX ...
      IDFCRTT2 table
      DBNAME  NAME      DBID PSID PARTNR ACTION      LRSN NACTIVE
      FLSIFI92 FLST18ZL  270  34    1  IX4TS        55
      FLSIFI92 FLST18ZL  270  34    0  IX4TS        55
      . . .
      FLSIFI92 FLST1XS1  270  88    0  IX4TS        55

```

ISPF-Tabelle für
\$\$\$X#G2 befüllen

InfoFLASH ADDON

Die nachfolgend aufgeführten Jobs werden immer mit **&simulate = YES** generiert. Vor dem Einsatz (submit) muss der Wert auf **“NO“** gesetzt werden.

\$\$\$\$V#OL

Input

STEP	InfoFLASH	Bemerkung
ONLINE	NEWSTAT = ONLINE SIMULATE = NO ROUTETGT = &routetgt	gewünschter Status ist ONLINE

Output

[illegible]

\$\$\$\$V#OA

Input

STEP	InfoFLASH	Bemerkung
OFFLINE	<div> NEWSTAT = ONLINE SIMULATE = NO </div>	Gewünschter Status ist OFFLINE

Output

STEP		Bemerkung
OFFLINE	INFF026I 13:33:49 16 record(s) read from DD DASDIN * generated by InfoMAT 20 Jun 2016 14:28:42	Einslen des aktuellen \$\$\$\$DASD-Members

	<pre> * selected FLASH-pool: COPYP00L.DATA.071.NAME# 019 DSN\$IDF0LOC\$LG 0 * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDF000 602F IDF0BB 6463 N IDF001 612F IDF0BA 635E IDF0L5 6132 IDF0B2 6353 ÜÝu CPYONOFF 13:33:49 *** gen VARY ***** requested: 6463 . requested: 635E requested: 6353 . CPYONOFF 13:33:49 *** send COMMAND ***** INFF036I 13:33:50 sending RO *ALL,V (6463,635E,. . . 6353),ONLINE to CONSOLE INFF039I 13:35:01 VARY IDF0BB ONLINE sucessfully INFF039I 13:35:01 VARY IDF0BA ONLINE sucessfully . . . INFF039I 13:35:01 VARY IDF0B2 ONLINE sucessfully </pre>	Kommando senden und Status prüfen
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\$\$\$V#OF

Input

STEP	InfoFLASH	Bemerkung
OFFLINE	<pre> NEWSTAT = OFFLINE SIMULATE = NO </pre>	Gewünschter Status ist OFFLINE

Output

STEP		Bemerkung
OFFLINE	<pre> INFF026I 13:40:05 16 record(s) read from DD DASDIN * generated by InfoMAT 20 Jun 2016 14:28:42 * selected FLASH-pool: COPYP00L.DATA.071.NAME# 019 DSN\$IDF0LOC\$LG 0 * SRCVOL SRCADD TGTVOL TGTADD SRCSIGNATUR * IDF000 602F IDF0BB 6463 N IDF001 612F IDF0BA 635E IDF0L5 6132 IDF0B2 6353 ÜÝu CPYONOFF 13:40:05 *** gen VARY ***** requested: 6463 . requested: 635E requested: 6353 . CPYONOFF 13:40:05 *** send COMMAND ***** INFF036I 13:40:06 sending RO *ALL,V (6463,635E,. . . 6353),OFFLINE to CONSOLE INFF039I 13:41:16 VARY IDF0BB OFFLINE sucessfully INFF039I 13:41:16 VARY IDF0BA OFFLINE sucessfully . . . INFF039I 13:41:16 VARY IDF0B2 OFFLINE sucessfully </pre>	<p>Einlesen des aktuellen \$\$\$DASD-Members</p> <p>Kommando senden und Status prüfen</p>

InfoFLASH Zusatztools

Volumebeziehung

Legende:

Die Zeilen mit der Markierung "**DASDIN**" sind dem DASD-Member entnommen.

Hier ein Beispiel für nonpersistente Relationen.

```
ID12 E                               InfoDesign FCopy Monitor                               NO ERRORS
COMMAND ==>                           SCROLL ==> CSR
***** Top of Data *****
PARMLIB: INFOFLSH.V11R2M0.PARM.PIT -   DASDIN: IDFCDASD .

LEGEND:
(1): DASD-member created by &flshmode=FULL
SRC:                               SSID SS CC  -->                               SSID SS CC

DASDIN:  * generated by InfoMAT    15 Jun 2016 14:50:33
DASDIN:  * selected FLASH-pool: $
DASDIN:  * SRCVOL SRCADD          TGTVOL TGTADD SRCSIGNATUR
DASDIN:  *
DASDIN:  IDFC00 6007 $DFC00 6420 .E~1...2...Y
IDFC00 - VOLUME NOT IN FLASHCOPY RELATION
DASDIN:  IDFC03 6008 $DFC03 6422 .!Zx..4ú...¢
IDFC03 - VOLUME NOT IN FLASHCOPY RELATION
. . .
```

Bei bestehender Volumebeziehung werden die Zeilen mit der Kennung "**SRC**" bzw. "**TGT**" vom Plattensubsystem geliefert.

ID12 E	InfoDesign FCopy Monitor	NO ERRORS
COMMAND ==>		SCROLL ==> CSR
***** Top of Data *****		
PARMLIB: INFOFLSH.V9R1M0.PARM - DASDIN: IDFBDasD .		
LEGEND:		
(1): DASD-member created by &flashmode=FULL		
SRC:	SSID SS CC -->	SSID SS CC
DASDIN:	* generated by InfoMAT 17 Jun 2016 21:33:12	
DASDIN:	* selected FLASH-pool: #	
DASDIN:	* SRCVOL SRCADD	TGTVOL TGTADD SRCSIGNATUR
DASDIN:	* IDFB02 601C #DFB02 640A ..Y.Y..ê.Q....	
SRC (601C - 640A):	1000 00 1C -->	1004 04 0A . <<< OK
DASDIN:	IDFB00 611B	#DFB00 6307 . \$....cñ....
SRC (611B - 6307):	1001 01 1B -->	1003 03 07 . <<< OK
. . .		

SRC : Source der angezeigten Beziehung

601C – 640A : Source devnum – Target devnum der angezeigten Beziehung

1000 00 1C : SubSystemID, Logical SubSystem und Channel Connection Address

--> : Richtung der Beziehung (SRC nach TGT)

1004 04 0A : SubSystemID, Logical SubSystem und Channel Connection Address

OK : Angaben aus dem Plattensubsystem stimmen mit DASD-Member überein

\$\$\$V#ES

Input

STEP	InfoFLASH	Bemerkung
CPYESDSF	IDCREATE = &idcreate Schemaname JOBNAME = % jobname CREATED = % yyyy-mm-dd-hh.mm.ss.hhhhhh JESID = % jesid DSID = % dataset id	Schema für FLSTSPRT vollständiger Name in beliebiger Länge

Output

STEP	Bemerkung
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CPYESDSF	<pre> CPYESDSF V11R1M000 21 Jun 2016 14:14:17 DB2SSID: IDF0 - Tabelle: FLSIF112.FLSTSPRT JOBNAME: % CREATED: 2015-01-01-00.00.00.000000 - JESID: % - DSID: % . Warning: output limited to the last two days! . . . SELECT JOBNAME, JESID, DSID, CREATED, CAST(SYSTSPRT AS VARCHAR(32000)) AS TSPRT FROM FLSIF112.FLSTSPRT WHERE JOBNAME LIKE '%' AND JESID LIKE '%' AND DSID LIKE '%' AND CREATED >= CURRENT TIMESTAMP - 1 DAYS ORDER BY CREATED DESC, JOBNAME ASC, JESID ASC, DSID ASC; . 33 records found CPYESDSF IDF0V#G6 ***** JOB00216 ***** D0000105 ***** 2016-06-21- 10.01.24.8766 1 1CPYRX2IS V11R2M000 21 Jun 2016 09:56:27 2 REXPRELD - MODULE CAF0EXEC PRE-LOADED 3 REXPRELD - MODULE DSNACAF PRE-LOADED 4 REXPRELD - MODULE DSNALI PRE-LOADED 5 REXPRELD - MODULE DSNHLI2 PRE-LOADED 6 REXPRELD - MODULE IKJCT429 PRE-LOADED 7 REXPRELD - MODULE REXDB6 PRE-LOADED 8 CPYBSUVC V11R2M000 21 Jun 2016 09:56:27 9 INFBBSDS V9R1M004 21 Jun 2016 09:56:27 10 A001: INFBBSDS returns 1 BSDS datasetname(s) 11 INFBBSDS 09:56:27 *** get BSDS name ***** . . . </pre>	<p>Wird keine Einschränkung der Auswahl getroffen, wird die Ausgabe auf die letzten beiden Kalendertage beschränkt.</p>
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Job-Wiederaanlauf Übersicht

Allgemeine Hinweise

Während der Durchführung von InfoFLASH-Abläufen werden verschiedene Objekte verändert.

PARMLIB(ssidDASD)

Sowohl der Job \$\$\$\$Z980 als auch \$\$\$V#G7 verändern das Member \$\$\$DASD.

UNLOAD-Dateien der InfoFLASH-Tabellen

Sowohl der Job \$\$\$\$Z980 als auch \$\$\$V#G7 legen sequentielle Dateien in der Form **&workpref.FLS*.Djjddd** an. Darin enthalten sind DSN1COPY Bestände einiger InfoFLASH-Tabellen.

Der benutzte Tagesstempel (Djjddd) wird bei der Generierung der Jobs erzeugt.

Im Job \$\$\$\$Z980 wird geprüft, ob diese Datei angelegt sind. Wenn ja, wird angenommen, dass es bereits einen Erstellungslauf am gleichen Tag gab und das Entladen wird übersprungen.

FLSDASDI-Tabelle

Sowohl der FrontEND als auch die \$\$\$W-Jobs fügen bei RECOVERY auf einen OFFLINE SUSPEND-Zeitpunkt neue Sätze in die FLSDASDI ein. Diese Sätze beinhalten keine gültigen devnum's, sondern "CUAA" als Platzhalter. Diese Sätze sind vor einem erneuten Aufruf zu entfernen.

Das PARMLIB-Member und die Tabelle FLSDASDI werden durch die Rückkehr zum normalen Betrieb automatisch bereinigt.

Für **alle Jobs**, die in der nachfolgenden Übersicht **nicht** enthalten sind, gilt:
Job ist ohne Vorbedingungen RESTART-fähig

\$\$\$\$V#G2

INFF140E

Abbruch im Step CPYBSUDC | CPYVLST1 | CPYIFCOL mit Fehlermeldung INFF140E.

Dieser Fehler kann entstehen:

- Aus dem vorangegangenen Ablauf war mindestens ein "DUMP auf TAPE"-Job (\$\$\$\$V02n) nicht erfolgreich. Dadurch enthält die Spalte OFFLOAD_STATUS in der Tabelle FLSDASDI mindestens einmal den Wert "PENDING".
- Es wurden \$\$\$W-Jobs gestartet (zum Beispiel testweise), ohne die PIT RECOVERY durchzuführen. Durch diesen RESTORE-Job werden die Bandinformationen mit dem OFFLOAD_STATUS = „RESTORED“ in die FLSDASDI übernommen.

Für beide Fälle wird ein SQL-Member erzeugt, welches helfen soll, die Situation zu bereinigen. Es liegt in der Verantwortung des Kunden die Situation zu überprüfen und den Lösungsvorschlag einzusetzen. Im Zweifelsfall stehen Ihnen die Mitarbeiter von InfoDesign gern zur Verfügung.

STEP		Ursache
CPYBSUDC	<pre> CPYBSUDC 11:17:59 *** check OFFLOAD ***** INFF147I 11:17:59 FLSDASDI: 8, FLSHIST: 10 volumes at 2015-10-02-10.14.33.000000 INFF140E 11:17:59 The number of offloaded volumes in FLSDASD and FLSHIST do not match Number of OKAY offloaded volumes in FLSDASDI: 8 . Number of offloaded volumes in FLSHIST: 10 . target-VOLUME(s) in FLSBS111.FLSDASDI with 2015-10-02-10.14.33.000000 IDF0B6 offload: OKAY suspended: 2015-10-02-10.14.33.000000 defined: 2015-10-02-10.15.03.158533 IDF0B7 offload: OKAY suspended: 2015-10-02-10.14.33.000000 defined: 2015-10-02-10.15.03.158533 . . . IDF0B4 offload: PENDING suspended: 2015-10-02-10.14.33.000000 defined: 2015-10-02-10.15.03.158533 IDF0B5 offload: OKAY suspended: 2015-10-02-10.14.33.000000 defined: 2015-10-02-10.15.03.158533 FLSHIST number of volumes: 10, SUSPEND_TIMESTAMP: 2015-10-02-10.14.33.000000 generating SQL to clear the error ... Member INFOMAT.V10R2M0.SQL(IDF0140E) generated. run SQL and rerun the job afterwards. +++++ +++ abbruch im programm CPYBSUDC +++ return code = 16 +++ rownr = 1225 +++ befehl = x = error_trap() +++++ </pre>	<p>Fall a)</p> <p>Mindestens ein DUMP-Job wurde nicht ordnungsgemäß beendet.</p>
CPYBSUDC	<pre> CPYBSUDC 13:20:20 *** check OFFLOAD ***** INFF147I 13:20:20 FLSDASDI: 9, FLSHIST: 10 volumes at 2015-10-02- 11.44.21.000000 INFF140E 13:20:20 The number of volumes in FLSDASD and FLSHIST do not match Number of OKAY offloaded volumes in FLSDASDI: 9 . Number of offloaded volumes in FLSHIST: 10 . target-VOLUME(s) in FLSBS111.FLSDASDI with 2015-10-02- 11.44.21.000000 . IDF0B6 offload: OKAY suspended: 2015-10-02-11.44.21.000000 defined: 2015-10-02-11.44.52.291053 IDF0B7 offload: OKAY suspended: 2015-10-02-11.44.21.000000 defined: 2015-10-02-11.44.52.291053 . . . IDF0B5 offload: OKAY suspended: 2015-10-02-11.44.21.000000 defined: 2015-10-02-11.44.52.291053 FLSHIST number of volumes: 10, SUSPEND_TIMESTAMP: 2015-10-02-11.44.21.000000 generating SQL to clear the error ... Member INFOMAT.V10R2M0.SQL(IDF0140E) generated. run SQL and rerun the job afterwards. +++++ +++ abbruch im programm CPYBSUDC +++ return code = 16 +++ rownr = 1225 +++ befehl = x = error_trap() +++++ </pre>	<p>Fall b)</p> <p>Die Anzahl der Volumes stimmt nicht überein</p>

Zur Lösung des Konflikts wird in der genannten Bibliothek, unter dem Membernamen \$\$\$\$140E, ein ausführbares SQL-Statement bereitgestellt.

Fall a)

```
-- 22 Sep 2015 - 10:45:45
-- SQL generated by job IDFCV#G2, caused by message INFF140E
--
-- SELECT * FROM FLSBSU92.FLSDASDI;
--
-- UPDATE FLSBSU92.FLSDASDI
--   SET OFFLOAD_STATUS = 'OKAY'
--   WHERE SUSPEND_TIMESTAMP = '2015-09-14-10.35.07.000000'
--   AND OFFLOAD_STATUS NOT IN ('OKAY', 'IGNORED')
```

Fall b)

```
-- 2 Oct 2015 - 13:20:20
-- SQL generated by job IDFOV#G2, caused by message INFF140E
--
-- SELECT * FROM FLSBS111.FLSDASDI;
--
-- DELETE FROM FLSBS111.FLSDASDI
--   WHERE SUSPEND_TIMESTAMP = '2015-10-02-11.44.21.000000'
-- COMMIT;
```

RC 16 - CPYBSUPR

Abbruch im Step CPYBSUPR nach mehrmaligem Versuch (20 mal) das Kommando **FRBACKUP CP(copypool),PREPARE** abzusetzen.

STEP		Ursache
CPYBSUPR	<pre> CPYGMPIRE 16:57:31 *** send COMMAND ***** INFF008I 16:57:31 command given: F HSM,FRBACKUP CP(DSN\$IDFCLOC\$DB),PREPARE INFF008I 16:57:31 command given: F HSM,FRBACKUP CP(DSN\$IDFCLOC\$LG),PREPARE CPYGMGET V11R1M000 28 Sep 2015 16:57:52 FLSCONS read from ASIS CPYGMGET 16:57:52 *** reading output **** ARC1801I . CPY1801I V11R1M000 28 Sep 2015 16:57:52 CPY1801I 16:57:52 *** reading file ***** HSM . INFF026I 16:57:52 27 record(s) read from DD GMIRSPNC from FLSCONS cmd found: F HSM,FRBACKUP CP(DSN\$IDFCLOC\$DB),PREPARE PREPARE started: ARC1801I FAST REPLICATION PREPARE IS STARTING FOR COPY ARC1802I FAST REPLICATION PREPARE HAS COMPLETED FOR ARC1802I (CONT.) COPY POOL DSN\$IDFCLOC\$DB, AT 16:57:31 ON 2015/09/28, ARC1802I (CONT.) FUNCTION RC=0006, MAXIMUM VOLUME RC=0000 ARC1801I FAST REPLICATION PREPARE IS STARTING FOR COPY . PREPARE started: ARC1801I FAST REPLICATION PREPARE IS STARTING FOR COPY . ARC1802I FAST REPLICATION PREPARE HAS COMPLETED FOR . ARC1802I (CONT.) COPY POOL DSN\$IDFCLOC\$LG, AT 16:57:32 ON 2015/09/28, ARC1802I (CONT.) FUNCTION RC=0000, MAXIMUM VOLUME RC=0000 PREPARE ended : ARC1000I (CONT.) ENDED . CPY1801I 16:57:52 *** reading file ***** HSM . INFF026I 16:57:52 0 record(s) read from DD GMIRSPNC from FLSCONS cmd found: F HSM,FRBACKUP CP(DSN\$IDFCLOC\$LG),PREPARE CPY1801I 16:57:52 *** reading msgfile *** Fehler in FUNCTION, --> HSM +++++ +++ abbruch im programm CPY1801I V11R1M000 +++ return code = 16 +++ rownr = 226 +++ befehl = x = error_trap() +++++ </pre>	Fehler beim PREPARE DB-Copypool

Eine mögliche Ursache könnte sein:

DFSMSHsm erwartet für die Durchführung von inkrementellen. BACKUP SYSTEM, dass entweder keine Beziehung existiert, oder deren Richtung von Quell- nach Zielvolume eingestellt ist. Nach einer PIT RECOVERY unter Verwendung von FCINCVFY(RV) stehen die Relationen für den DB-Copypool nicht wie erwartet, sondern Zielvolume → Quellvolume.

Dies lässt sich überprüfen:

- mit dem InfoFLASH Zusatztool "InfoFLASH FCopy Monitor" oder
- TSO FCQUERY Befehlen oder
- ICKDSF.FLASHCPY QUERY

Hier ein Beispiel für "InfoFLASH FCopy Monitor":

PARMLIB: INFOFLSH.V11R1M0.ROLLOUT.PARM.PIT - DASDIN: IDFCDASD .									
LEGEND:									
(1): DASD-member created by &flshmode=FULL									
SRC:		SSID SS CC		-->		SSID SS CC			
DASDIN:		* generated by InfoMAT		28 Sep 2015 14:42:41					
DASDIN:		* selected FLASH-pool:		created with LRSN: 00CF9DBA79D4FA000000					
DASDIN:		*		TGTVOL TGTADD		SRCVOL SRCADD		SRCSIGNATUR	
DASDIN:		*							
DASDIN:		IDFC00	6007			IDFCBC	6440		
TGT (6007 - 6440):		1000	00 07	<--		1004	04 40	<<< OK	
DASDIN:		IDFC01	6107			IDFCB4	6332		
TGT (6107 - 6332):		1001	01 07	<--		1003	03 32	<<< OK	
. . .									
DASDIN:		IDFC05	6208			IDFCB1	6411		
TGT (6208 - 6411):		1002	02 08	<--		1004	04 11	<<< OK	

\$\$\$\$V#G7

1. Abbruch in einem der UNLOAD-Steps
Löschen der bereits erstellten UNLOAD-Dateien: &workpref.FLS*.Djjddd
Job von vorn wiederaufsetzen
2. Abbruch im Step CPYRSTXF
Job von vorn wiederaufsetzen

\$\$\$\$Z980

- 1 a) Abbruch im Step CPYXFLS1 mit RC 16 **no records with ... found in FLSDASDI**
Wird festgestellt dass die Sätze in der FLSDASDI enthalten sind, bitte den Tablespace mit STOP/START durchstarten.
Job von vorn wiederaufsetzen

\$\$\$\$P011

Wurde der Job im Stepp FCWITHDR mit FCWITHDR-Statements unter //SYSIN DD generiert, lässt er sich nicht ohne manuellen Eingriff wiederholen.

Grund:

Die aufzulösenden Volume-Beziehungen existieren nach erfolgreicher Ausführung nicht mehr.

RACF

Für das Kopieren der Volumes wird das Schlüsselwort **ADMIN** im **ADDRSSU COPY** Statement benutzt. Dafür wird **ACC(READ)** für die nachfolgend aufgeführten Profile benötigt.

Profile bei Angabe von ADMIN

STGADMIN.ADR.STGADMIN.COPY

Erlaubt das Kopieren ohne READ-Berechtigung für die Quell- und ALTER für die Zieldateien.

STGADMIN.ADR.STGADMIN.DUMP

Erlaubt das Abziehen ohne READ-Berechtigung für die Quelldateien.

"Does not give you the authority to delete a data set."

STGADMIN.ADR.STGADMIN.RESTORE

Erlaubt das Wiederherstellen ohne ALTER-Berechtigung für die Quell- und Zieldateien.

Batch SYSIN	Job	Bemerkung
ADDRSSU.COPY	\$\$\$\$V00n	nicht für BSU
ADDRSSU.DUMP	\$\$\$\$V02n	
ADDRSSU.RESTORE	\$\$\$\$W02n	RECOVERY

Kann die Berechtigung nicht erteilt werden, muss vom Kunden sichergestellt sein, dass der Submitter Zugriff auf die alle Dateien auf den zu kopierenden Volumes hat.

ACC Level ohne ADMIN

READ für die Dateien auf den Quell- und ALTER für die Zieldateien.

```
ICH408I USER(userid ) GROUP(group) NAME(user info )
Dataset CL(DATASET ) VOLvolser)
INSUFFICIENT ACCESS AUTHORITY
FROM hlq.** (G)
ACCESS INTENT(READ ) ACCESS ALLOWED(NONE )
```

InfoFLASH benutzt dies in folgenden Fällen:

Befehl / Kommando	Job	Bemerkung
ICKDSF.FLASHCPY QUERY	\$\$\$\$V#ST, \$\$\$\$V#G5, \$\$\$\$Z980	
IDCAMS.DCOLLECT	\$\$\$\$V#G2, \$\$\$\$V#G4, \$\$\$\$V#G5, \$\$\$\$V#G6, \$\$\$\$V#G7, \$\$\$\$V#G8, \$\$\$\$Z980	RECOVERY
ROUTE	\$\$\$\$V#G3, \$\$\$\$Z980, \$\$\$\$V#Ox	nicht für BSU RECOVERY
SET LOG ...	\$\$\$\$V#G3	nicht für BSU
MODIFY hsm, FRBACKUP	\$\$\$\$V#G2	nur für BSU
MODIFY hsm, Q ACTIVE	\$\$\$\$V#G5	nur für BSU
MODIFY CATALOG	\$\$\$\$Z980	RECOVERY
D SMS,SG(name),LISTVOL	\$\$\$\$V#G5	
DISPLAY XCF	\$\$\$\$Z980	RECOVERY
SETXCF FORCE	\$\$\$\$Z980	RECOVERY
VARY devn,ONLINE (OFFLINE)	\$\$\$\$V#Ox, \$\$\$\$W02n	RECOVERY

Anhang

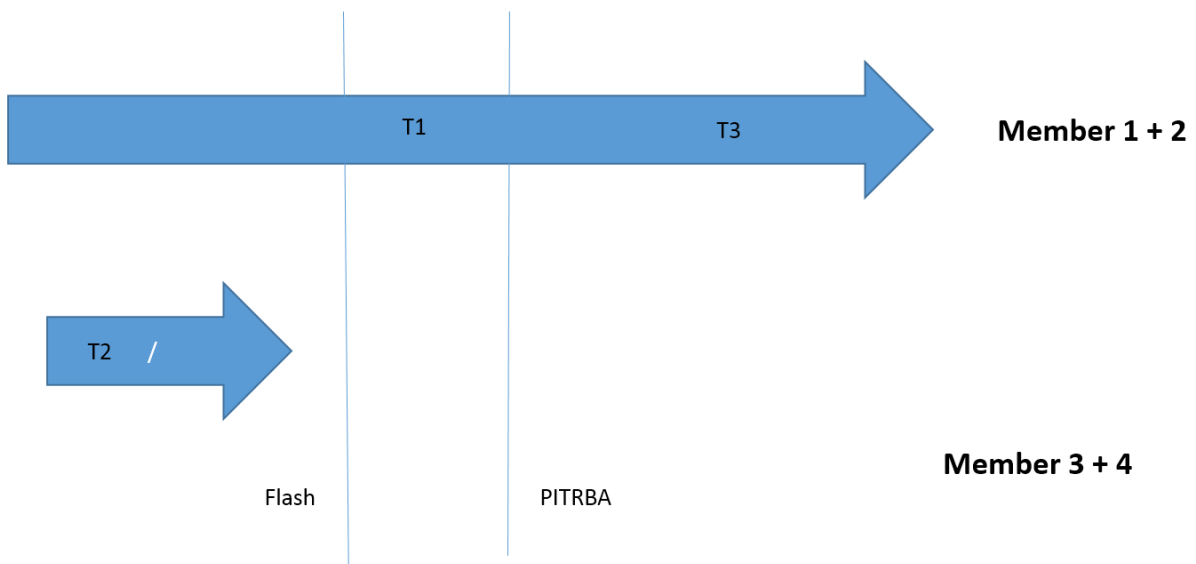
Start DB2 DATA SHARING bei eingetragener SYSPITR

Test Point in Time Recovery auf Basis einer mit InfoFlash erstellen Sicherung.

Verwendet wurden ausschließlich vom InfoMat generierte Jobs gemäß dokumentiertem Jobablauf.

Hier nochmals die Zusammenfassung der Erkenntnisse eines Kunden:

Ausgangssituation dort:



Der Ablauf dort:

1. Start member 1+2
2. Quiesce member 3+4
3. Recover
4. Alles ist gut
5. Start member 3+4: Fehler wg SYSPITRBA ist noch aktiv
6. DSNJU004: CRESTART CANCEL
7. Start Member 3+4
8. Alles ist gut

InfoDesign

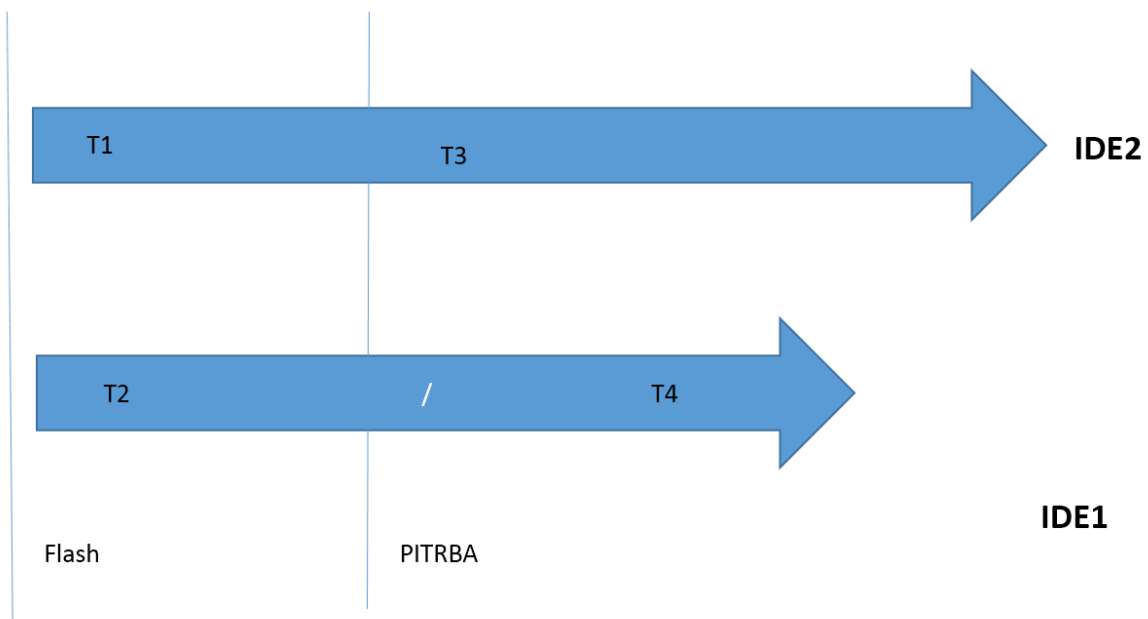
Von InfoDesign empfohlener Ablauf:

1. Start member 1+2+3+4
2. Recover
3. Alles ist gut

Begründung: Der empfohlene Ablauf ist immer in jeder Situation erfolgreich. (siehe auch nächstes Szenario)

InfoDesign Test:

Ausgangssituation hier:



Test 1:

Start IDE2

```
*46 DSNR020I  -IDE2 DSNRRUTT START MEMBER IDE1, OR REPLY 'NO' OR  
'QUIESCED'
```

```
R 46,QUIESCED
```

Quiesce IDE1

```
*47 DSNR030I  -IDE2 DSNRRUTT WILL CONTINUE WITHOUT THE IDE1 MEMBER'S LOG,  
REPLY REPLY 'YES' OR 'NO'
```

DSNR030I *csect-name* **WILL CONTINUE WITHOUT THE** *member* **MEMBER'S LOG, REPLY 'YES' OR 'NO'**

Explanation: The reply to message DSNR020I was 'QUIESCED'. This message is issued as a reminder that group restart will continue **without using the log** from the identified member.

If you are sure that the identified member was quiesced the last time it was started, that is, it was stopped with a -STOP DB2 MODE(QUIESCE) command and it stopped with no indoubt units of recovery and no distributed resynchronization responsibility, then reply 'YES'; otherwise, reply 'NO'.

System action: This group member waits for a valid reply to this message.

v If the reply is 'YES', group restart continues **without using the log** from the identified member.

v If the reply is 'NO', message DSNR020I is reissued to allow you to enter a different response.

Nochmals REPLY YES. Also einverstanden, ohne Log vom IDE1 zu restarten

Dann scheitert der RESTORE SYSTEM LOG ONLY mit dieser Meldung:

```
15:30:53.98 DSNUVARS - RESTORE SYSTEM UTILITY FAILED BECAUSE ONE OR MORE  
NON-DOR
```

```
OR NOT NORMALLY QUIESCED STATE.  THOSE MEMBERS ARE:
```

```
01
```

```
0:54.01 DSNUGBAC - UTILITY EXECUTION TERMINATED, HIGHEST RETURN CODE=8
```

Gut, das der RESTORE scheitert, weil sonst Transaktion T2 verschwunden wäre.

Test 2:

1. Start IDE2
2. Start IDE1
3. Recover
4. Alles ist gut

Dies ist in jeder Situation das von InfoDesign empfohlene Vorgehen, weil es in jeder Situation funktioniert.

Test 3:

1. Kein SYSPITRBA für IDE1
2. Start IDE2
3. (keine Aufforderung von IDE2, das IDE1 zu starten
4. Recover
5. Alles in Ordnung, T1 + T2 vorhanden T3 + T4 nicht
6. Start IDE1
7. Immer noch alles in Ordnung

Dieses Vorgehen wird NICHT empfohlen. Es ist nicht dokumentiert und es ist fraglich, ob es in jeder Situation oder in der Zukunft funktionieren wird.