

FATSCOPY AUDIT

Q I am setting up a complex migration project. How can I keep a record of which data sets and volumes have been copied without having to save and sort through hundreds of job logs?

A FATSCOPY can write records to an audit data set which contains information on the data sets copied (the input and output volumes, expiration dates, etc.) by that job. A second copy job can append to that audit data set, and then a third, and so forth. You can run the FATAUDIT utility at any time which reads the audit data set and formats out a report displaying the files copied and summary information for all of the jobs which were recorded in that audit data set.

Here's an example of a job which writes to a new audit data set:

FTP member: [Copy_With_New_Audit.txt](#)

```
//JOB LIB      DD  DSN=FATCOPY.LIBRARY,DISP=SHR
//AUDIT1      EXEC PGM=FATSCOPY,REGION=0M
...
//AUDIT       DD  DSN=JAT.FATSCOPY.AUDITDSN,UNIT=SYSALLDA,
//            DISP=(NEW,CATLG),SPACE=(TRK,(5,5))
//TAPEOUT     DD  DSN=DUMMY,DISP=(NEW,KEEP),UNIT=VTAPE
//SYSIN       DD  *
COPY
  SELECT ALLDSN,VOL=A00001
  SELECT ALLDSN,VOL=B34220
/*
```

A second job which appends to that audit data set would change the AUDIT DD to:

```
//AUDIT       DD  DSN=JAT.FATSCOPY.AUDITDSN,DISP=MOD
```

but otherwise looks the same as the first job, with new SELECT statements.

Here is a FATAUDIT job which reads the audit data set to produce a printable report:

FTP member: [Write_Audit_Report.txt](#)

```
//AUDIT2      EXEC PGM=FATAUDIT,REGION=0M
//SYSABEND    DD  SYSOUT=*
//AUDITRPT    DD  SYSOUT=*
//AUDIT       DD  DSN=JAT.FATSCOPY.AUDITDSN,DISP=SHR
/*
```

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Here is a sample of a portion of an Audit Report produced by FATAUDIT:

FATAUDIT DETAIL REPORT														
JOBNAME=JATPAN		STEPNAME=FATSCOPY		RUN DATE= 2013303		RUN TIME= 145653		CPUID=CPUC						
INPUT INFORMATION							OUTPUT INFORMATION							
DATA SET NAME	VOLSER	FSEQ	VSQ	M/V	EXPDATE	CAT	SCRDATE	VOLSER	FSEQ	VSQ	EXPDATE	CAT	TMS RC	REAS
NEW NAME	BLOCKS		BYTES				BLOCKS		BYTES					
JAT.EE.FATS.FILE1	CCR009	1	1	NO	2019001	YES		E10037	1	1	2013304	NO	YES	0000
			2			0				2			0	
JAT.EE.FATS.FILE2	CCR009	2	1	NO	2019002	YES		E10037	2	1	2013304	NO	YES	0000
			2			0				2			0	
...														
FATAUDIT SUMMARY REPORT														
TOTAL INPUT VOLUMES	-	25												
TOTAL OUTPUT VOLUMES	-	25												
TOTAL BYTES READ	-	9550256056												
TOTAL BYTES WRITTEN	-	9550256056												
TOTAL BLOCKS READ	-	1463991												
TOTAL BLOCKS WRITTEN	-	1463991												
TOTAL FILES COPIED	-	486												
TOTAL FAILED COPIES	-	0												
TOTAL JOBS EXECUTED	-	46												

Q OK, but I want to run two (or more) FATSCOPY jobs at a time. Can I write to the same audit data set with copy jobs that are running concurrently?

A You can't use the same sequential audit data set for two jobs which run at the same time. There are two options you can use: use separate audit data sets and merge them into one Audit Report, or use a System Logger log stream to write audit records to a single log stream.

- One "set" of copy jobs can use an audit data set MY.AUDIT.DATASET1 and a second "set" can use MY.AUDIT.DATASET2. When you want to produce an Audit Report, the FATAUDIT utility can use both audit data sets as input and produce a single Audit Report.

Here's how you use 2 audit data sets to produce 1 report:

FTP member: [Audit_Report_Using_Two_Audit_Datasets.txt](#)

```
//AUDIT EXEC PGM=FATAUDIT,REGION=0M
//AUDITRPT DD SYSOUT=*
//AUDIT DD DSN=MY.AUDIT.DATASET1,DISP=SHR
// DD DSN=MY.AUDIT.DATASET2,DISP=SHR
/*
```

- Instead of writing audit records to a sequential data set, FATSCOPY can write audit records to a system logger log stream. The z/OS system logger is a component of z/OS that must be activated and configured. If you have configured a log stream to receive FATSCOPY audit records, then your copy jobs will look like:

FTP member: [Copy_Using_System_Logger.txt](#)

```
//JOB LIB DD DSN=FATCOPY.LIBRARY,DISP=SHR
//AUDIT1 EXEC PGM=FATSCOPY,REGION=0M
...
//TAPEOUT DD DSN=DUMMY,DISP=(NEW,KEEP),UNIT=VTAPE
//SYSIN DD *
COPY AUDITLOG=MY.FATSCOPY.LOGSTRM
SELECT ALLDSN,VOL=A00001
SELECT ALLDSN,VOL=B34220
...
```

and audit records are written to the log stream. Concurrent jobs can write to the same log stream. The FATAUDIT utility can read audit records from the log stream and produce Audit Reports.