

FATSCOPY Q & A

Q I want to combine as many files onto a single tape or set of tapes, but I want to do this in separate jobs run over the course of a week. How can I do this without having to manually keep track of where the output files have been written?

A You can use FATSCOPY's LASTAPE feature. When you use LASTAPE for the first time in a copy job, such as in this example:

FTP member: Copy_Using_LASTAPE.txt

```
//FATSCOPY EXEC PGM=FATSCOPY,REGION=0M
//STEPLIB DD DSN=FATSCOPY.LIBRARY,DISP=SHR
...
//TAPEOUT DD DSN=DUMMY,UNIT=VTAPE,LABEL=(,SL)
//SYSIN DD *
COPY EXPDTGROUP=999, LASTAPE=MY.LASTAPE.DATASET
SELECT ALLDSN,VOL=CCR009
SELECT ALLDSN,VOL=001122, NUMVOLS=10
...
/*
```

EXPDTGROUP=999 tells FATSCOPY to stack as many files onto as few tapes as possible. FATSCOPY catalogs a dummy file (with a name you choose as the LASTAPE= parameter) at the end of the last output tape in that copy job. The next time you run a copy job using the same LASTAPE file name, FATSCOPY determines that the LASTAPE file already exists, finds out which volume it is on, and continues to write files on that volume. At the end of the job, it recatalogs the dummy file at the (new) end of the output tape. You can repeat this to keep adding files to the volume you have been writing to.

Q I have ranges of input volsers I want to copy to a single high-capacity output tape. How can I do this?

A The FATSCOPY keywords NUMVOLS (to specify a range of consecutive volsers) and EXPDTGROUP=999 (to stack all data sets onto as few volumes as possible) make this easy to do:

FTP member: Stacking_Volume_Ranges.txt

```
//FATSETUP EXEC PGM=FATSCOPY,REGION=0M
//STEPLIB DD DSN=FATSCOPY.LIBRARY,DISP=SHR
...
//TAPEOUT DD DSN=DUMMY,UNIT=MYTAPE,DISP=(,KEEP)
//SYSIN DD *
COPY EXPDTGROUP=999
SELECT ALLDSN,VOL=003200, NUMVOLS=100
SELECT ALLDSN,VOL=003400, NUMVOLS=50
/*
```

This will select volser 003200 to 003299

This will select volser 003400 to 003449

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Q I have a tape-backed TS7740 virtual tape device. I want to make backup copies of the logical volumes in the VTS while minimizing the number of physical tape mounts. What is the best way to do this with FATSCOPY?

A FATSCOPY has two keywords, PHYSVOL and ALLPHYS, which allow you to select and copy all of the logical volumes from a single physical volume in a single job. If you know the physical volser you want to copy from, use PHYSVOL. If you know the logical volser of one logical volume on the physical tape, use ALLPHYS. Here's an example for when you have a logical volser and you want to find and copy all the logical volumes on the same physical back-end tape:

FTP member: [Copy_Using_IBM_PHYSVOL.txt](#)

```
//STEP1      EXEC  PGM=FATSCOPY,REGION=0M
//STEPLIB    DD   DSN=FATSCOPY.LIBRARY,DISP=SHR
...
//TAPEOUT    DD   UNIT=OUTDEV,DSN=DUMMY,DISP=(,KEEP)
//MAPTAPE    DD   UNIT=(INPUTDEV,,DEFER),DISP=(,CATLG),
//            DSN=MY.MAPTAPE.FILE,LABEL=(,SL),
//            DCB=(RECFM=F,LRECL=80,BLKSIZE=80,TRTCH=NOCOMP)
//SYSIN      DD   *
COPY        VIRTTYPE=IBM
SELECT     ALLDSN,ALLPHYS=CCR012
/*
```

The MAPTAPE data set is used to communicate tape mapping information between the VTS and FATSCOPY. FATSCOPY will find out which physical volume that logical volume CCR012 is located on, and select and copy all the logical volumes on that physical volume.

NOTE: a similar function is available for Oracle StorageTek tape-backed virtual tape devices.