

# IBM Education Assistance for z/OS V2R1

Item: Append Dump Directory

Element/Component: BCP Service Aids



## Agenda

- Trademarks
- Presentation Objectives
- Overview
- Usage & Invocation
- Presentation Summary
- Appendix



## Trademarks

- See url <http://www.ibm.com/legal/copytrade.shtml> for a list of trademarks.



## Presentation Objectives

- Explain the purpose of IPCS append dump directory
- Define the functional content and benefit
- Provide list of Publications



## Overview: Problem

### ▪ **Problems:**

- Long dump initialization time delays the start of diagnosis
  - Especially with today's increased dump sizes
- Dump needs to be initialized again when it is sent to IBM or another software vendor for diagnosis



## Overview: Solution

### ▪ **Solution:**

- Provide a way to avoid repeated dump initialization
- Append the data description records from the dump directory which are built during COPYDUMP to the dump
- The dump and dump directory are sent to IBM support center
- The dump directory is then extracted and used by IBM support personnel
- Available for SADMP, SDUMP, SYSMDUMP, TDUMP



## Overview: Benefit

- **Benefit:**

- Speeds up the process to access the dump
- Avoids having to manage sending the dump and a separate directory data set



## Usage & Invocation

### ▪ IPCS COPYDUMP subcommand change

```
{ OUTDSNAME(outds-spec )|OUTDATASET(outds-spec )|ODS( outds-spec) }
{ OUTFILE(outdd-spec )|OFILE(outdd-spec)|OUTDDNAME(outdd-spec) }
[ INDSNAME(dsname_list)|INDATASET(dsname_list)|IDS(dsname|list) ]
[ INFILE(ddname_list|IPCSINDD) | IFILE(ddname_list|IPCSIND)
INDDNAME(ddname_list|IPCSINDD) ]
[ DEFAULT ]
[ SPACE(nnnn[,mmmm]|1500,1500) ]
[ CLOSE | LEAVE ]
[ ASIDLIST(ddddd[,dddd]) ]
[ JOBLIST(j1[,j2][,j3]..[,jn]) ]
NOSKIP | SKIP[(nnn|1|EOF)] ]
[ NOCLEAR | CLEAR ]
[ EASYCOPY ]
```

*where*

```
outds-spec := dsname [ INITIALIZE | INITAPPEND ] | NULLFILE
[ COMPLEMENT(dsname | NULLFILE) ]
[ FULL(dsname [INITIALIZE]) | NULLFILE]
outdd-spec := ddname [ INITIALIZE | INITAPPEND ] [ COMPLEMENT(ddname) ]
[ FULL(ddname [INITIALIZE]) ]
```





## Usage & Invocation

- New option INITAPPEND for output data set or ddname
- If INITAPPEND is specified:
  - Create the dump directory entries
  - Perform dump initialization for the output dump data set
  - Add the dump directory entries to the end of the dump data set
- Avoids repeated initialization
- INITAPPEND cannot be specified with the NULLFILE operand



## Usage & Invocation

- INITAPPEND is not used with COMPLEMENT data sets
- If both INITIALIZE and INITAPPEND are specified, INITAPPEND is used
- If INITAPPEND is specified for an appended dump, the dump description will be refreshed using the current DDIR
- The user can specify either OUTDSNAME or OUTDDNAME when the dump data set is being exported using COPYDUMP



## Usage & Invocation

- When the dump data set is imported via DSNNAME (using IPCS 0. or SETDEF DSNNAME) the imported dump description will contain the dump data set name. When the dump data set is imported via DDNAME (using SETDEF DDNAME) the imported dump description will contain the DD name.
- If the original dump data set has been renamed and the appended dump description name contains a different name from the current dump data set name then when the DDIR is imported, the dump description name in the DDIR will be changed to contain the current dump data set name.



## Usage & Invocation

- IPCS will adjust the dump data set name when the appended dump directory is imported into a new DDIR.
- The appended dump directory doesn't support HFS data sets



## Usage & Invocation: New Message BLS18259I

### **BLS18259I NULLFILE cannot be specified with INITAPPEND.**

**Explanation:** INITAPPEND was specified with COPYDUMP in attempt to use the appended dump directory. NULLFILE is not accepted with INITAPPEND. A target data set must be specified on the command line when INITAPPEND option specified.

**System action:** IPCS stops processing the subcommand.

**User response:** Specify the target data set using either OUTDATASET or OUTFILE.

**Source:** Interactive problem control system (IPCS)



## Usage & Invocation: JCL example: COPYDUMP with INITAPPEND

```
//ACD01A01 JOB      EEA,GO,MSGCLASS=A,MSGLEVEL=(1,1)
//GTFPRNT  EXEC     PGM=IKJEFT01,DYNAMNBR=20,REGION=3000K
//SYSPROC  DD       DSN=SYS1.SBLSCLI0,DISP=SHR
//IPCSTOC  DD       SYSOUT=*
//SYSTSPRT DD       SYSOUT=*
//SYSEXEC  DD       DSN=RSTLSVA.REXX.EXECS,DISP=SHR,DCB=BLKSIZE=32760
//          DD       DSN=ISF.SISFEXEC,DISP=SHR DCB=BLKSIZE=27920
//SYSUT1   DD       UNIT=SYSDA,SPACE=(CYL,(50,50))
//SYSTSIN  DD       *
      %BLSCDDIR DSNAME('SYS4.DDIR') VOLUME(VSAM01) NOENQ
      IPCS NOPARM
      SETDEF LIST NOCONFIRM
      COPYDUMP INDS('MVSSVA.LI2142.TDUMP1.R14') -
        OUTDS('MVSSVA.LI2142.TDUMP1.R14.AD' INITAPPEND)
      END
/*
```



## Usage & Invocation: JCL example: Import a copied dump

```
//AIM01I01 JOB      EEA,GO,MSGCLASS=A,MSGLEVEL=(1,1)
//GTFPRNT  EXEC     PGM=IKJEFT01,DYNAMNBR=20,REGION=3000K
//SYSPROC  DD       DSN=SYS1.SBLSCLI0,DISP=SHR
//IPCSTOC  DD       SYSOUT=*
//SYSTSPRT DD       SYSOUT=*
//SYSABEND DD       SYSOUT=*
//SYSSNAP  DD       SYSOUT=*
//SYSEXEC  DD       DSN=RSTLSVA.REXX.EXECS,DISP=SHR,DCB=BLKSIZE=32760
//          DD       DSN=ISF.SISFEXEC,DISP=SHR DCB=BLKSIZE=27920
//SYSUT1   DD       UNIT=SYSDA,SPACE=(CYL,(50,50))
//SYSTSIN  DD       *
          %BLSCDDIR DSNAME('SYS4.DDIR') VOLUME(VSAM01) NOENQ
          IPCS NOPARM
          SETDEF DSN('MVSSVA.LI2142.TDUMP1.R14.AD') LIST NOCONFIRM
          L 0
END
/*
```



## Usage & Invocation: COPYDUMP panel update

----- Copy an MVS Dump Data Set -----  
 Command ===>

Enter Output parameters to copy an MVS dump data set.  
 Use ENTER to copy data, END to terminate.

OUTPUT DATA SET: NULLFILE \_ INITIALIZE \_ **INITAPPEND /** (Enter "/" to select)  
 NAME 'D83DUMP.SADUMP.COPY' (DSNAME or DDNAME)

FULL DATA SET: NULLFILE \_ INITIALIZE \_ (Enter "/" to select)  
 NAME (DSNAME or DDNAME)

COMPLEMENT DATA SET: NULLFILE \_  
 NAME (DSNAME or DDNAME)

NAME	TYPE	SPACE (No. of Records)	EXECUTION	DEFAULT
<u>1</u> 1.	DSNAME	PRIMARY 1500	<u>2</u> 1.	BATCH
2.	DDNAME	SECONDARY 1500	2.	BACKGROUND





## Presentation Summary

- New option INITAPPEND is provided for output data sets or ddnames for COPYDUMP
  - Creates the dump directory
  - Performs dump initialization for output dump data set at the same time that the dump is being copied
  - Adds dump directory records to the end of the dump data set
  
- Avoids repeated dump initialization



## Appendix

- Publication updated:
  - SA23-1378 – z/OS MVS Dump Output Messages
  - SA23-1382 – z/OS MVS IPCS Commands

