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PUBLICATION (NOTICE NO.)

23/5/73

4091  
4092

MAGNETIC TAPE (31)  
CASSETTE TAPE (7)

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### DUMP AND RESTART

With the issue of the Dump routines HDUMP/20 and HDUMPE/4 and the Restart programs #XJRT/11, #XJRE/11, #XJRF/11 and #XJRC/10 the Dump and Restart package has been enhanced to operate correctly in the following circumstances:

- 1 When object programs at the time of issuing an SDDUMP macro have files of differing device types open on the same unit number. Previous versions of the package could cause the Restart programs to decrease core to 64 words.
- 2 When overlaid object programs at the time of issuing an SDDUMP macro have released their overlay tape. Previous versions of the package could cause the restarted object program to go illegal.
- 3 Object programs which are utilising the Enhanced Direct Access Housekeeping Package (Double-Buffering/Multi-Bucket Transfers/Direct Path Serial Processing) described in User Notice 38 to the *Direct Access* manual (TP 4107) should always use the above versions of the Dump and Restart routines, which have been enhanced to cater for the new facilities.

These enhancements have necessitated some minor changes to the dump. The user, therefore, must not attempt to restart from dumps produced by HDUMP/20 and HDUMPE/4 or later versions with Restart programs prior to #XJRE/11, #XJRT/11, #XJRF/11 and #XJRC/10. However, it should be noted that the above versions of these programs will successfully restart from dumps produced by both HDUMP/20 and HDUMPE/4 and earlier versions of these routines.

No additional action by the user is required to implement these enhancements, other than re-compiling his object programs to include the new routines.

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23/6/71

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MANUAL (NOTICE NO.)

4092

CASSETTE TAPE (6)

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### DUMP AND RESTART

#### #XJRC/9

This version corrects the error which caused RESTART to fail on some machines when repositioning tapes after subfile or dump sentinels.

This version will now open Program Overlay files in mode #100 for Magnetic Tape and mode #200 for Direct Access.

The following enhancements have also been incorporated:

- a) Dump files may now be called ICL-DUMPxxxx or ICT-DUMPxxxx
- b) The file generation number of a dump file may be a maximum of four digits, that is, up to 9999

#### HDDT/4, HDMT/10 and HDUMP/19

The above routines have been amended to incorporate the following enhancements

- 1 Dump files may now be called ICL-DUMPxxxx or ICT-DUMPxxxx
- 2 The file generation number of a dump file may be a maximum of four digits, that is, up to 9999

The format of a restart parameter may not take one of two forms

- a) for a 3 digit file generation number,

DUMP-xx-dd/mm/yy-uuu-xx-ffffffffffff-SEQNxxx-FGNxxx-RESTART

b) for a 4 digit generation number,

DUMP-xx-dd/mm/yy-uuu-xx-ffffffffffff-SEQNxxx-  
FGNxxxxRESTART

3 If any tape is opened by the dump package, a start of data sentinel will be written prior to the commencement of the dump

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MANUAL (NOTICE NO.)

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CASSETTE TAPE (5)

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DUMP AND RESTART

HDUMP/17D and HDMT/9F

The above routines correct the following error:

If the facility for suppressing dump console messages is used, the final dump message is now suppressed if Bit 6 of the inhibitor word is set.

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MANUAL (NOTICE NO.)

12/11/69

4091

MAGNETIC TAPE (14)

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DIRECT ACCESS (21)

4092

CASSETTE TAPE (4)

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### HDUMP/17A

This routine corrects the error in HDUMP/16 which was reported in Software Notice 482, item 503.

### DUMP AND RESTART - HDRB

The subroutine HDRB has been deleted as it is now obsolete.

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TECHNICAL SERVICE 4092

MANUAL (NOTICE NO.)

9/7/69

4107

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DIRECT ACCESS (14)

CASSETTE TAPE (3)

MAGNETIC TAPE (11)

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### DUMP AND RESTART

With the issue of HDUMP/16, HDMT/9A, HDDAT/5, HDDT/3, #XJRT/8D, #XJRE/8C, #XJRC/8C, #XJRF/3B, HMTWSS/12, HMTT/12, HMTZ/11 and HMTSE/12A, programs using composite files on magnetic tape which are under the control of the Housekeeping package may use Dump and Restart. These new versions of Dump and Restart are, however, incompatible with all previous versions, and must be used in conjunction with each other. They also, of course, dump and restart programs using simple files.

Dumps may be made onto a special Dump file or, in the case of magnetic tape, onto the user's own output tape, which may be either a composite or simple file. For all files output transfers must be terminated and an SD instruction given to those being processed logically. If the dump is to be made to a composite magnetic tape file there must be a simple subfile open on that file.

Also, with the issue of the above routines, programs using graph plotters may use Dump and Restart. A graph plotter allocated to the program at dump time will be reallocated to it at restart.

The subroutines HDMT, HDUMP, HDRB, HDEDS, HDFDS, and HDDAT, have now been repositioned so as to come before HMTWSS as the calling sequences have been altered.

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