



# DECUS

## PROGRAM LIBRARY

DECUS NO.	12-187
TITLE	OS/8 DEVICE HANDLERS FOR PDP-12 CORE
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DATE	February 1, 1975
SOURCE LANGUAGE	PAL-8

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GENERAL INFORMATION

Object Computer(s) PDP-12 Source Computer (if different) \_\_\_\_\_  
File Name \_\_\_\_\_ Version No. \_\_\_\_\_  
Title OS/8 Device Handlers for PDP-12 Core  
Author James E. Randall  
Submitter (if other than author) \_\_\_\_\_  
Affiliation Indiana University  
Address Department of Anatomy and Physiology  
Bloomington, Indiana Country USA  
Monitor/Operating System \_\_\_\_\_ DEC No. \_\_\_\_\_  
Core Storage Required 32K Starting Address \_\_\_\_\_  
Peripherals Required \_\_\_\_\_  
Other Software Required OS/8 Version 3 DEC or DECUS No. \_\_\_\_\_  
Source Language PAL-8 Category Hardware Control  
Restrictions, Deficiencies, Problems \_\_\_\_\_  
Date of Planned or Possible Future Revisions \_\_\_\_\_

TAPES AVAILABLE

Paper Tapes Object Binary  Object ASCII  Source  Other \_\_\_\_\_  
DECtape  LINCtape  Format \_\_\_\_\_ Magtape: 7 Track  9 Track  BPI \_\_\_\_\_  
Object Files  Source Files  Documentation Files  Other \_\_\_\_\_

ABSTRACT

See page 1 of write-up



## OS/8 DEVICE HANDLERS FOR PDP-12 CORE

DECUS Program Library Write-up

DECUS NO. 12-187

These system and non-system device handlers are designed for a PDP/12 with LINCtape as the mass storage device and with 32K of core. The handlers can reduce tape shuffling by keeping directories, systems area, or files in upper core.

The handlers, their listings, and initialization and restoration routines are supplied on a LINCtape which can be started from the console bootstrap. Full documentation is obtained in the file HOW.DC on the tape. The tape is OS/8 Version 3 and will not support earlier versions.

The tape contains four versions of build, all with the same handlers, but with different core sizes and active devices. BUILD.SV uses LINCtape for system and non-system devices. It allows the full 32K of core.

.R BLINY will run a version of BUILD which has two device handlers active. Respond with \$BOOT. The active two-page system device has a switch which permits all of the files to come from tape Unit 0 or only BN 70 and beyond. In the HYBRID mode BN 0-67 will be in core in the upper 16K. This reduces response times to the directory, scratch area, and command decoder. The tape moves from file to file. This is initialized (system area moved to core) by .R HYSY. The command .R HYL1 will put the directory from tape unit 1 in core above 74000. The commands .R TAPESY and .R HYSY will restore and update the tape directories.

.R CORENS will initiate a version of BUILD in which 24K of core is a non-system device called CORE:. This is convenient for handling large files where one may want to search for strings within them.

.R CORESY will initiate a version of BUILD in which 24K of core is a system device. This keeps the entire system and 40 blocks for files always available for rapid access and leaves the two LINCtapes as non-system devices. This is convenient for transferring between two tapes which do not have a system area.

A number of illegal combinations are prevented and flagged with errors. The major hazard is that it is easy to forget to update directories on tape before removing the tapes.

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TYPE COREDV. IU  
COREDV. IU

A SYSTEM OF DEVICE HANDLERS  
FOR PDP/12 WITH LINCTAPE AND 32K CORE  
USED WITH OS/8 VERSION 3

USES UPPER CORE AS DEVICES TO REDUCE TAPE SHUFFLING  
TYPE OUT HOW. DC FOR FULL DOCUMENTATION

USER NEEDS ONLY THE .SV ROUTINES ON THIS TAPE  
AND THEY SHOULD BE ARRANGED IN SEQUENCE FOR HIS NEEDS





\*CC

. DIR /E/B

25-JAN-75

CORED.V. IU 0070	1	15-JAN-75
CCL . SV 0071	17	26-FEB-74
FOTF . SV 0112	8	18-JAN-74
DIRECT. SV 0122	7	18-JAN-74
PIP . SV 0131	11	21-JAN-75
HYSY . SV 0144	2	13-JAN-75
TAPESY. SV 0146	2	14-JAN-75
HYL1 . SV 0150	2	15-JAN-75
TAPEL1 SV 0152	2	15-JAN-75
BUILD . SV 0154	33	22-JAN-75
BLDCSY. SV 0215	33	22-JAN-75
BLDHY . SV 0256	33	22-JAN-75
BLDCNS. SV 0317	33	22-JAN-75
CORESY. SV 0360	3	20-JAN-75
CORESY. LS 0363	25	22-JAN-75
CORESY. 12 0414	9	22-JAN-75
CORESY. BN 0425	2	22-JAN-75
CORENS. SV 0427	2	21-JAN-75
CORENS. 12 0431	6	21-JAN-75
CORENS. BN 0437	1	21-JAN-75
CORENS. LS 0440	16	21-JAN-75
HYSY . LS 0460	15	23-JAN-75
HYSY . 12 0477	6	23-JAN-75
HYSY . BN 0505	1	23-JAN-75
HYL1 . 12 0506	9	23-JAN-75
HYL1 . BN 0517	1	23-JAN-75
HYL1 . LS 0520	21	23-JAN-75
TAPESY. 12 0545	7	23-JAN-75
TAPESY. BN 0554	1	23-JAN-75
TAPESY. LS 0555	15	23-JAN-75
TAPEL1. 12 0574	9	23-JAN-75
TAPEL1. BN 0605	1	23-JAN-75
TAPEL1. LS 0606	21	23-JAN-75
CRNSHN. BN 0633	1	21-JAN-75
CRNSHN. LS 0634	21	21-JAN-75
CRSYHN. 12 0661	10	22-JAN-75
CRSYHN. BN 0673	1	22-JAN-75
CRSYHN. LS 0674	23	22-JAN-75
HYSYHN. 12 0723	27	22-JAN-75
HYSYHN. BN 0756	2	22-JAN-75
HYSYHN. LS 0760	58	22-JAN-75
HYL1HN. 12 1052	19	23-JAN-75
HYL1HN. BN 1075	2	23-JAN-75
HYL1HN. LS 1077	43	23-JAN-75
PAGE2 . 12 1152	4	15-JAN-75
HON . DC 1156	33	15-JAN-75
<EMPTY>	1217	82

82 FREE BLOCKS

