LDOS (tm)LSI
UTILITY DISKS

By: KIM WATT

from

POWERSOFT

a division of Breeze/QSD, Inc.

UTILITY DISK
8 (c)1982

$29.95

Disk #8 Includes:
PMX/FLT-MX80 graphics
PHELP/CMD -Instant HELP! Very complete. Saves time!
PBOOT/FIX - Customize YOUR LDOS Boot graphics and message!
PFILT/FLT - A User Definable Filter. Very flexible!
DVORAK/FLT - DVORAK/QWERTY Keyboard Filter.
DVORAK/JCL - DVORAK Keyboard Table (used with PFILT/FLT)
CODE/JCL - Keyboard EN-Coding TABLE (used with PFILT/FLT)
DECODE/JCL - Keyboard DE-Coding Table (used with PFILT/FLT)

LOADING INSTRUCTIONS

- MOD I or III -

1) Prepare a SINGLE density LDOS formatted diskette. This disk may be 35, 40, or 80 tracks, but make sure it is SINGLE DENSITY!
2) BOOT the MASTER disk you received in this package in Drive 0. You will be prompted to insert the destination diskette, and the files will be "moved" to YOUR diskette with no effort on your part. Single drive owners will need to swap disks a few times.
3) LX-80 users should treat the enclosed MASTER disk as a 35 track single density DATA diskette.

DVORAK

This is the famous DVORAK keyboard driver. It contains drivers for both DVORAK and QWERTY, and each driver may easily be toggled to the other. The program also allows a caps lock function. The program may be terminated at any time, and the memory it is using will be reclaimed if it was the last driver into high memory. The syntax of the DVORAK command is:

```
=================================================
!  FILTER,*KI,DVORAK,a                           !
!                                                !
!          a = Q or D if the program will        !
!              initialize as QWERTY or DVORAK    !
!              (default DVORAK) (optional)       !
!  abbr: NONE                                    !
=================================================
```

This will load the driver into memory, at which time it will relocate itself to high memory and protect itself. It is recommended that the user SET,*KI,KI/DVR before setting up the DVORAK filter so that the control keys will be active.

You may toggle between DVORAK and QWERTY by pressing the CLEAR Ø. The SHIFT Ø toggles the upper case lock feature. The driver may be disabled with CLEAR BREAK. If it was the last file into high memory, then the memory that it occupies will be reclaimed to the system and a corresponding message will be displayed.

PMX

This filter will adjust graphic characters so that they are printed out as normal TRS80 graphic when using an Epson MX80 printer. The syntax of the command is:

```
========================================
!  FILTER,*PR,PMX                       !
!                                       !
!  abbr: NONE                           !
========================================
```

The MX80 printer will not print standard TRS80 graphics unless it is set in the TRS80 mode, in which case you lose some of the special printer capabilities of the machine. This filter will allow use of these special features while correctly printing graphic characters identical to the TRS80 computer.

PFILT

This is a comprehensive, user definable conversion filter that may be used for either input or output devices. The program will read an ascii text file created by the user (via the BUILD command) to determine the parameters. The syntax of the PFILT utility is:

```
==============================================
!  FILTER,*aa,PFILT,filespec                  !
!                                             !
!          aa = any LDOS defined device       !
!          filespec = any valid LDOS filespec !
!                     default extension /JCL  !
!                                             !
!  abbr: NONE                                 !
==============================================
```

This command will read the designated file and create a table of the parameters in the file. The entire program will then relocate itself to high memory, and protect itself. The format of the data file is as follows:

A numerical value, followed by an equal sign (=), followed by the value to be converted to.

If the first character is a colon (:), then the following character is interpreted in its ASCII form.

If the first character is a period (.), then the following data on the line is considered a remark, and is not executed, although it will be displayed to the video.

All numerical values may be entered in Binary, Decimal, Hex or Octal by PRECEDING the number with B, D, H or O respectively (default decimal).

Following are examples of acceptable syntax:

```
31=37
31=h44
o37=d44
b11011011=o177
hff=hfe
:A=a
:Q=B
```

DVORAK

This is the famous DVORAK keyboard driver that can be used in conjunction with the PFILT driver. It is a pure ascii data file, and although it does not provide the user with the full features of the DVORAK/FLT utility, it does require much less memory. The syntax of the command is:

```
==============================================
!  FILTER,*KI,PFILT,DVORAK                    !
!                                             !
!  abbr: NONE                                 !
==============================================
```

After this command, the DVORAK filter will be installed, moved to high memory, and protected.

CODE/DECODE

These sample files show how PFILT may be used for coding/decoding purposes. These are not supplied as sophisticated techniques, but merely as examples demonstrating the power of the PFILT filter. The syntax of the command is:

```
==============================================
!  FILTER,*KI,PFILT,CODE                      !
!  FILTER,*DO,PFILT,DECODE                    !
!                                             !
!  abbr: NONE                                 !
==============================================
```

Normally, you would only want to have one driver in memory at a time. When the *KI is being filtered, only upper case input will be changed, thereby allowing the user to enter DOS commands in lower case. Use the SPACEBAR to enter commas while the CODE filter is active. Following is a sample session demonstrating the capabilities of the system:

(Enter the case exactly as entered below)

```
filter,*ki,pfilt,code
build test/fil:Ø
THIS IS A TEST OF A CODED MESSAGE. <ENTER>
<BREAK>
reset,*ki
LIST TEST/FIL:Ø
(SHOULD NOT BE READABLE!)
filter,*do,pfilt,decode
list,test/fil
(SHOULD NOW BE READABLE!)
reset,*do
```

PBOOT

This patch will allow you to change the screen graphics displayed by LDOS at bootup, without affecting any of the copyright information. Space is provided for 3 lines of 22 characters each of user definable text. The syntax for the PBOOT command is:

```
=========================================
!  PATCH,SYSØ/SYS.RSØLTØFF,PBOOT         !
!                                        !
!  abbr: NONE                            !
=========================================
```

This will patch the code directly into the SYSØ system overlay, and will appear each time the system is booted.

PHELP

This utility will allow easy access to the syntax associated with the LDOS library commands and several utilities. The syntax of the PHELP command is:

```
=============================================
!  PHELP,*                                  !
!  PHELP,*,?                                !
!  PHELP,*,command                          !
!                                           !
!          * sends output to printer        !
!          ? displays syntax for PHELP      !
!          command - displays syntax for    !
!                    the associated command !
!                                           !
!  abbr: commands may be abbreviated        !
=============================================
```

When the desired command has been issued, the associated syntax for the command will be displayed on the video, and also sent to the printer if the * was issued.

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UTILITY DISK #2 (c)1982

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Disk #2 Includes:

PMOD/CMD - A Disk-File-Memory Modification Utility.

PMOD,aaaa (display memory address)
PMOD,filespec,aaaa (file to display,starting rel. sector)
PMOD :b,c,d (drive,cylinder,sector to display)

UTILITY DISK #3 (c)1982

$29.95

Disk #3 Includes:

PCHECK/CMD - LDOS Directory Check Utility. Checks a drive or a file, (GAT, HIT, BOOT, etc.) for integrity.
PFIX/CMD - FIXES problem discovered by PCHECK/CMD. You may repair GAT or HIT table, repair BOOT sector, or repair FILE records. This program might fix that crashed disk that has you going nuts!

UTILITY DISK #4 (c)1982

$29.95

Disk #4 Includes:

PFIND/CMD - FIND a string, replace a string, find a byte, find a WORD, replace a byte or word! FIND ANYTHING on the disk FAST! Replace it FAST!
PCOMPARE/CMD - Compare a FILE or a sector to any other file or sector. Detects the minutest differences! Send the outputs from above to video or printer.

UTILITY DISK #5 (c)1982

$29.95

Disk #5 Includes:

PREFORM/CMD - Disk Re-Formatter Utility. Fixes CRC errors and "stengthens" the format on older disks. A FORMAT without ERASE utility(5" floppy only)
PVU/CMD - a Disk Verification Utility. Detects bad sectors. Fix them with PREFORM/CMD.
PERASE/CMD - Disk Bulk Eraser (5" floppy only)

UTILITY DISK #6 (c)1982

$29.95

Disk #6 Includes:

PCLEAR/CMD- Erases unassigned sectors and Directory slots. Removes ALL traces of "killed" files!
PSS/CMD - Sector Status Utility. Finds WHAT file is assigned to WHAT sector.
PMAP/CMD - Disk-File Mapping Utility. Map a FILE or a disk! Shows exactly WHERE all files are with extents.

UTILITY DISK #7 (c)1982

$29.95

Disk #7 Includes:

PMOVE/CMD - A SUPER FAST Multiple Copy Utility!
PDIRT/CMD - Read a Mod III TRSDOS directory from LDOS!
PASSGO/CMD - Removes passwords from A file or a WHOLE disk!
PUN/CMD - UN-REPAIR a disk. (Mod I only)
PEX/CMD - A disk exerciser for head cleaning kits.

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