LDOS (tm)LSI
UTILITY DISKS

By: KIM WATT

from

POWERSOFT

a division of Breeze/QSD, Inc.

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)

LOADING INSTRUCTIONS

- MOD I or III -

1) Prepare a SINGLE density LDOS formatted diskette. This disk may be 35, 40, or 80 tracks, but 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.

PREFORM

The PREFORM Utility is a comprehensive Disk Re-Formatter Utility. It allows the user to easily repair "sector not found" and "crc errors". Only 5" Floppy Disks may be operated on, including Single/Double Density, Single/Double Sided disk systems. The syntax of the PREFORM command is:

```
=====================================================
!  PREFORM,:a,b,c                                   !
!                                                   !
!          :a  = drive to be re-formatted (Ø-7)     !
!          b   = Y or N (pause on faulty sectors)   !
!          c   = starting cylinder (default Ø)      !
!                                                   !
!  abbr: NONE                                       !
=====================================================
```

When the desired parameters have been selected, the specified drive will be read to determine the diskette type (cylinders, density, sides). If there is not enough memory for the re-format utility to operate, the program will abort with a corresponding message. If memory is sufficient, then the re-format operation will then proceed as follows:

The current track will be read into memory sector by sector.
The track will be formatted.
The track will be re-written back sector by sector.

If any errors occur during any of the 3 steps, and the Y option was specified, you will be issued an error message, and allowed to R>etry, S>kip, or A>bort. If the N option was specified, processing will continue with no error messages. When the entire disk has been re-formatted, the directory track will be read into memory, and written back with the proper read-protect data address marks.

If you wish the program to abort, you may press the BREAK key, and the routine will terminate after the current track has been completed. This will allow normal termination of the program. It is NOT suggested to press the RESET button to abort the program, as the current track may be totally lost. If the program is aborted, and the directory track has already been re-formatted, it will not be read-protected. In this case, you must issue a "repair (alien)" command to gain access back to the diskette.

If any CRC errors existed on the diskette, they will be corrected (if the media is OK). If any NOT FOUND errors existed on the diskette, they also will be corrected, but the previous contents of the sector will be completely lost. This will allow the diskette to be reused with minor losses. If the faulty sector was on the directory track, it is possible that some files records may have been lost also. It is strongly recommended that the user make frequent backups of valued data so minimal losses will be experienced. If sectors are lost during the re-formatting process, it is advised that the user recopy the programs that were assigned to the faulty sectors. The PSS Utility will assist the user in resolving this. (see utility disk #6)

This program will also "freshen" a diskette. The diskettes that are used have a "shelf" life of about 5 years according to most manufacturers. By re-formatting a diskette, the data will be strengthened, and the shelf life will be extended. If all sectors are readable before re-formatting, then no loss of data will occur.

PVU

The PVU Utility is a comprehensive Disk Verify Utility. It allows the user to easily locate and identify faulty sectors on a disk. All LDOS supported disk devices may be operated on, including Single/Double Density, Single/Double Sided, 5" and 8" floppies and fixed/removable disk systems. The syntax of the PVU command is:

```
=====================================================
!  PVU,:a,b,c                                       !
!                                                   !
!          :a   = drive to be verified (Ø-7)        !
!          b    = Y or N (pause on faulty sectors)  !
!          c    = starting cylinder (default Ø)     !
!                                                   !
!  abbr: NONE                                       !
=====================================================
```

When the desired parameters have been selected, the specified drive will be read to determine the diskette type (cylinders, density, sides). Each cylinder will then be read sector by sector. If any errors are found, and the Y (pause) option was given, you will be given the option to R>etry, S>kip, or A>bort.

When the disk has been completed, you will be given the number of sectors checked, and the number of sectors that were not read successfully. If there were bad sectors, you will be prompted to press ENTER for the list of faulty sectors. Each bad sector will then be listed to the video.

PERASE

The PERASE Utility is a Software Bulk-Erase Utility. It allows the user to easily remove all traces of data on a diskette, and return it back to a blank state. Only 5" Floppy Disks may be operated on, including Single/Double Density, Single/Double Sided disk systems. The syntax of the PERASE command is:

```
=====================================================
!  PERASE,:a                                        !
!                                                   !
!          :a  = drive to be erased (Ø-7)           !
!                                                   !
!  abbr: NONE                                       !
=====================================================
```

When the desired parameters have been selected, the specified drive will be read to determine the diskette type (cylinders, density, sides). The diskette must be currently formatted. If LDOS cannot establish the type of diskette, the program will abort with a "device not available" message. If there is not enough memory for the erase utility to operate, the program will abort with a corresponding message. If memory is sufficient, then the erase operation will proceed. You will be asked if you are ABSOLUTELY SURE if you want to proceed with this operation. ALL DATA WILL BE LOST, so be sure that the correct diskette is mounted before you answer Yes.

Each track will be formatted with all bits off (zeroes). This will effectively remove all traces of sectors and data on the diskette. If the user wishes to abort the program, press the BREAK key, and the routine will abort at the completion of the current track. When the entire disk has been erased, it may be considered a completely blank disk. The program will essentially perform the same task as using bulk-erase magnets to delete all information from the disk.

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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.

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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.

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)