DM2K - Disk manager 2000

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by

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1. INTRODUCTION

Diskmanager 2000 is a program manager to use with hard-disk drives (HFDC/SCSI/IDE). It is possible to acces files in a directory structure by entering a full path name instead by drive number as used by programs written in the pre-directory age. There was no intention to write a program to replace the fabulous Diskmager 1000 program, but the need for a program like this for the TI99/4a, and more or less for the Myarc 9640 is high.

2. FEATURES

With Diskmanager 2000 it is possible to:

- Protect and unprotect files
- Rename files and/or directories
- Copy files and/or directories
- Move files and/or directories
- Delete files and/or directories
- View a file as text or hexadecimal (program files only in hex) in 40 or 80 characters per line.
- Create a subdirectory
- Print the contents of a subdirectory
- Execute a program
- Format a floppy disk

It is not possible to:

- Protect subdirectories
- Create subdirectories on floppy disks

3. DISKMANAGER 2000 SCREEN LAYOUT

The Diskmanager 2000 screen shows the following information:

- the name of the device and/or subdirectory of wich the filenames ar read (SRC)
- the name of the device and/or subdirectory to wich files are copied or moved (DST)
- the volume name of the device (Vol)
- the total size in sectors of the device (Size)
- the number of free sectors on the device (Free)
- the number of used sectors on the device (Used)
- the number of files in a directory (Files)
- the number of sub-directories in a directory (Dirs)
- the number of used sectors in a directory (Used)

- the number of selected files and/or subdirectories in the directory showed (Selct) on which te file command will be executed
- the total number of sectors the selected files are using up in the directory showed (Tsect)
- a maximum of 12 filenames with their sector size, file-type, protection status
- the command currently being executed (if any)
- an immediately command to execute (if any)
- an error message (if any occured)
- the first sector number reading or writing of a block of 8Kb while copy-ing

 SRC: WDS1.C99C. DST: DSK2.

 Vol : HH1050
 Size: 163840

 Free: 115608
 Used: 48232

 C Name
 Size Type
 P 32W

 .
 0 UprDir
 Files

 + ASSM1
 36 Program 8192
 9

 + ASSM2
 23 Program 4614
 Dirs

 BTEST
 61 Program 14332
 2

 BTEST2
 47 Program 10842
 Used

 + C990
 36 Program 8192
 301

 + C99P
 36 Program 8002
 301

 + TEST
 23 Dis/Var
 80

 + TEST_O
 21 Dis/Fix
 80

 - COpy: WDS1.C99C.PROGRAM1
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4 WORKING WITH DISKMANAGER 2000

To be able to work with Diskmanager 2000 place the Editor/Assembler module in the TI99/4A console or start the GPL-interpreter on your Myarc. Choose option 5 Run program file and enter DSK1.DM2K

When Diskmanager 2000 is loaded, your computer screen will show the help screen. This screen can be called any time by pressing the 'H' key. Press enter to go to the Diskmanager 2000 main screen.

Before the filenames on a device can be read a source devicename and/or subdirectory name must be entered (i.e. DSK1. or SCS7.SUB01). It's not necessary to end the names with a period, Diskmanager 2000 will append this for you. You can use the cursor keys fctn-S and fctn-D to move the cursor through the line. Pressing fctn-3 will erase the whole line. Press enter to read the filenames of the just entered device and/or subdirectory.

4.1 BROWSING

After the filenames are read, you'll be able to manage them. Use the arrow keys fctn-E and fctn- X to browse through your files. Use ctrl-E and ctrl-X to browse page by page. Ctrl-H will take you back to the top of the subdirectory.

4.2 ENTERING SUBDIRECTORIES

If the cursor character '>' is in front of a subdirectory name (the type is SubDir) simply press ENTER to go to that subdirectory and read the filenames in it. The device name and subdirectory level on top of the screen is expanded automatically.

To return to the upper directory (name is .. and type is UprDir) press enter when the cursor character is pointing at the upper dirtectory name. Use ctrl-H to move the cursor to the top of current directory.

Press fctn-0 (also F10 on the Myarc) the enter a complete new device name and/or subdirectory name as described above. Pressing fctn-9 at this stage will abort this function. Pressing ctrl-s will swap the source with the destination device and subdirectory name. DM2k v2.6

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4.3 DIRECT COMMANDS

The direct commands are:

- Type a file on screen
- Rename a file
- Print a catalog on a printer
- Create a subdirectory
- Starting a program
- Formatting a floppy disk

and will be executed immediatelly.

4.3.1 TYPE A FILE

To view the contents of file move the cursor to the filename to view and press 'T' for an ASCII representation in 40 characters per line or ctrl-T in 80 characters per line (not for program files). To view the file in a hexadecimal representation press 'B' for 40 characters per line or ctrl-B for 80 characters per line. Use ctrl-E and Ctrl-X to browse through the file. While viewing an ASCII representation you can use fctn-7 (tab) to view records which are longer than 40 or 80 characters. Pressing Q while take you back to the main screen.

4.3.2 RENAME A FILE OR SUBDIRECTORY

To rename file or subdirectory move the cursor to the filename or subdirectorynam to change and press 'R'. At the bottom of the main screen the following line will appear:

Rename NAME_____ to NAME_____

Use the cursor keys fctn-S and fctn-D to move the cursor through the name. Use fctn-3 (also F3 on the Myarc) to remove the complete name to enter a new name. The maximum length of a filename or subdirectory name is 10 characters. Pressing ENTER will rename the file or subdirectory. Press fctn-9 (also F9 on the Myarc) the return to the main screen without renaming the file or subdirectory.

4.3.3 PRINT A CATALOG

To print a catalog of the subdirectory actually shown in the main screen press ctrl-P. At the bottom of the main screen the following line with a default device name will appear:

Print: PIO.

Use the cursor keys fctn-S and fctn-D to move the cursor through the devicename. Use fctn-3 (also F3 on the Myarc) to remove the complete devicename to enter a new devicename. Pressing ENTER will start the print function. Press fctn-9

(also F9 on the Myarc) the return to the main screen without printing a catalog. See appendix B for changing the default printer name and/or settings.

4.3.4 CREATE A SUBDIRECTORY

To create a subdirectory press fctn-8 (also F8 on the Myarc). At the bottom of the main screen the following line will appear:

Makedir

Enter a subdirectory name. Use the cursor keys fctn-S and fctn-D to move the cursor through the devicename. Use fctn-3 (also F3 on the Myarc) to remove the complete subdirectory to enter a new name. The maximum length of a fsubdirectory name is 10 characters. Pressing ENTER will create the subdirectory. Press fctn-9 (also F9 on the Myarc) the return to the main screen without creating a subdirectory.

4.3.5 START A PROGRAM

To start a program (TI99 version only) position the cursor in front of a executable program and press X. At the bottom of the main screen the following line will appear if the file type is PROGRAM or DIS/FIX80:

Execute PROGRAMNAME? ([y],n)

Pressing ENTER or Y at this stage, Diskmanager 2000 will attempt to load and start the program. If an error occurs the following line will be displayed at the bottom of the screen:

Error X

Where X will be between 0 and 7 or 13. See appendix B for an explanation of the error codes. In the case of an error Diskmanager 2000 returns to the title screen.

4.3.6 FORMATTING A FLOPPY DISK

Press ctlr-F to format a floppy-disk (TI99 version only). The following information will be displayed on the screen:

Format	disk (1	-9, A-Z)	1
Tracks	per side	40 (Y/N)	1
Double	sided	(Y/N)	1
Density	7	(S/D/H)	1
Volume	label		DISKNAME

First enter the drive number of the floppy disk to format. Next press 'Y' to format the floppy disk for 40 tracks, or 'N' for 80 tracks (the diskdrive must be able to handle 80 tracks). Press 'Y' to format the floppy disk double sides and 'N' for single sided. The data density depends on the disk controller you uses. Enter 'S' for single density (ie TI-disk controller), 'D' for double density or 'H' for high density (ie Myarc-disk controller). Also enter a volume label for the disk to format. The following line will appear: Format DSKx (Y/N)Press 'Y' to start formatting or 'N' to return to the main screen. If you start the formatting routine, the next line will appear: Formatting... After formatting the floppy disk will be checked: Formatting...Done Verifying <xxxx> If a problem occurs with one of the sectors, this sector will be marked as bad: Bad sectors <xxxx> in which <xxxx> means the total number of unusable sectors. While entering the information to format a floppy disk or during checking the formatted floppy disk it is always possible to press fctn-9 (olso F9 on the Myarc) to return to the main screen. After formatting a floppy disk, the results will be displayed on screen: SRC: DSK1.

Vol : FLOPPYNAME Size: 1440 Free: 1440 Used: 0

Format another disk (Y/N)

Press 'Y' to format another disk or 'N' to return to the main screen.

4.4 FILE AND DIRECTORY COMMANDS

File and directory commands will be executed on all selected files and directories.

Move the cursor in front of the name of the file by using the cursor keys fctn-E, fctn-X, ctrl-E or ctrl-X and mark the file or directory bij pressing fctn-2 (or F2 or insert on the Myarc). A '+' sign will be displayed before the file or directory name. By pressing fctn-2 again the file or subdirecty will be de-selected.

Next press fctn-6 (or F6 on the Myarc). At the bottom of the main screen the following line will appear:

Press: Unpr Prot Copy Move Delete: :

- Press 'U' to remove the protection of all selected files and all the files in the selected directories.
- Press 'P' to protect all selected files and all the files in the selected directories.
- Press 'C' to copy all selected files and directories.
- Press 'M' to move all selected files and directories.
- Press 'D' to delete all selected files and directories.

Any other key will return you to the main screen of Diskmanager 2000. Pressing fcnt-9 (or F9 on the Myarc) will abort execution of the choosen command.

If a file seems write protected while attemting to overwrite this file, the following message will appear at the bottom of the screen:

Copy: DSK1.FILENAAM Protected! Overwrite (y, [n], a)

Press 'Y' to overwrite the file. Press 'N' to keep the original file. Press 'A' to overwrite all write protected files.

If a file seems write protected while attemting to delete this file, the following message will appear at the bottom of the screen:

Del : DSK1.FILENAAM
Protected! Delete (y, [n], a)

Press 'Y' to delete the file. Press 'N' to keep the original file. Press 'A' to delete all write protected files.

APPENDIX A - FUNCTION KEYS

The following function keys are used by Diskmanager 2000

A N R T / ctrl-T	All: Select all files and subdirectories None: Deselect all files and subdirectories Rename file or subdirectory Type the contents of a file on screen in ASCII in 40 or 80 characters per line.			
B / CTTI-B	Hexadecimal form in 40 or 80 characters per			
line. ctrl-P ctrl-F X Q	Print the contents of a subdirectory Format a floppy disk (TI99 version only) Execute a program (TI99 version only) Exit program			
fctn-3 / F3 fctn-6 / F6 fctn-7 / F7 fctn-8 / F8 fctn-9 / F9 fctn 0 / F10	Erase line Execute file commands Tab while viewing files Create subdirectory Escape Input a pathname			
fctn-E fctn-X ctrl-E ctrl-X cltr-L ctrl-J ctrl-C ctrl-S ENTER	Filename up Filename down Page up Page down Begining of line (or Home on the Myarc) End of line (or End on the Myarc) Copy Src path to Dst path while entering Dst Swap Src path with Dst path while entering Dst Accept line, name, go into subdirecotry, go back to the upper-directory			

APPENDIX B - CONFGIGURATION

A few variables can be manipulated to change the operation of Dm2k to your desires:

- Autorepeat delay, this is the time to wait before the autorepeat function will start after holding the same key on the keyboard.
- Autorepeat speed, to define the rate at which the same key will be generated.
- Printer name, to change the default printer name and/or properties.

These variables are located at the beginning of the file Dm2k and can be changed with any sector editor:

Offset Value TI Description

>0000 >0002 >0004 >0006 >000A >000E >0012 >0014 >0016	FFFF 1FFA A000 02E0 020B 0460 0250 0050 PIO.	83E0 0024 A056	Loader flag Module size Module start address LWPI >83E0 instruction LI 11,>0024 instruction B @START instruction Autorepeat delay Autorepeat speed Printer name (max 30 characters)
Offset	Value	Myarc	Description
>0000 >0002 >0004 >0006	5047 1FFA 0400		Loader flag Module size Module start address

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APPENDIX B - ERROR MESSAGES

An error message consists of 3 parts:

- An error number
- The function for which the error occured
- The reason for the error (explanation of the error number)

The following functions can result in an error:

-	Opendir	-	Open a directory
-	Readdir	-	Read a directory
-	Delete	-	Delete a file or subdirectory
-	Load	-	Load a program file
-	Save	-	Save a program file
-	Opensrc	-	Open a source file for reading
-	Readsrc	-	Reading a source file
-	Opendst	-	Open a destination file for writing
-	Writedst	-	Writing to a destination file
-	Protect	-	Write protect a file
-	Unprotect	-	Make a file accessible for both reading and
			writing
-	Rename	-	Renaming a file or subdirectory
-	Mkdir	-	Create a subdirectory
-	Execute	-	Execute a program
-	CBstor	-	Saving a subdirectory name in a circulair buffer

The following errors can occure:

0 - Device name A devicename like "DSK1" or "WDS1.SUBDIR" was entered that doesn't excist, or an attempt was made to start a non autostart DIS/FIX80 program.

1 - Write protected An attempt was made to delete, rename or write over a file that is write protected.

2 - Bad open attribute An attempt was made to open a file without the proper attributes. This error should not occur in DM2k.

3 - Illegal operation I.e. an opperation not supported by the peripheral or a conflict with the open attribute. This error should not occur in DM2k.

4 - Out of buffers To many files are open. DM2K is build with a 'C' library wich can handle a maximum of 4 open files. This error should not occur in DM2k. 5 - Read past eofAn attempt was made to read past the end of a file. This error should not occur in DM2k.6 - Device error

Covers all hard device errors such as parity and bad medium errors.

7 - File error Program or data file mismatch, non exsisting file opened in INPUT mode etc.

8 - File to big The file is to big for DM2K to handle. The file doesn't fit in DM2k's internal buffers.

9 - Name to long The directory can not be created because the total length of the path name will be more than 34 characters.

13 - Unresolved reference A label was not found in the REF/DEF table after loading a DIS/FIX80 file.

14 - Circulair buffer full While executing the choosen command all names of directories and subdirectories are stored in a cirulair buffer for later processing. If this buffer is full, no more names can be stored and further executing of the command is canceled. This can occur if a directory is selected with many branches to other subdirectories.