

1994
HOME COMPUTER
SOFTWARE

MULTI-DISK INFORMER™
MASTER CATALOG PROGRAM
X-Basic — 32K Memory Expansion
Disk Subsystem — Optional Printer

J&KH SOFTWARE
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INTRODUCTION

The *MULTI-DISK INFORMER™* is a program written in TI EXTENDED BASIC and TMS 9900 Assembly Language for the Texas Instruments TI-99/4(A) Home Computer which provides a means of producing two master listings: 1) The FILE REPORT, a sorted listing of all filenames, except those specified to be excluded (maximum 8), identifying type, protection, size and diskname with associated input sequence; and 2) The DISK REPORT, a sorted listing of all disks input identifying diskname, input sequence, filename existence indicators (maximum 8), sectors used, available and total, and counts of files by type (D/F, D/V, I/F, I/V, PGM and ERR) and total.

Data for up to five FILE and DISK REPORTS can be saved on the program disk for later updating and/or printing. If a printer (minimum 80 column that supports HOF) is not available, a search capability allows for retrieving information by filename.

HOW TO RUN THE PROGRAM

1. Prepare the computer system.

If you are using a printer, set the top of form such that the first line is just below the perforation. The program will space down from there.

Turn on the power for all the equipment. Make sure that the TI EXTENDED BASIC command module is inserted in the command module port. *If you have the version requiring the SXB™ sub-routines, make sure they are loaded then proceed to step 2. If you have the stand-alone version, invoke TI EXTENDED BASIC without a disk in drive 1 (DSK1).*

2. Prepare memory.

Invoke the following instructions in command mode: "CALL FILES(1)" and "NEW". *It's OK — the screen is suppose to go blank here!*

3. Load the program.

Insert the *MULTI-DISK INFORMER* disk into any drive. *LEAVE THE DISK IN THIS DRIVE UNTIL YOU GET TO STEP 6.* Enter the following command: "RUN DSKx.MDI-LOAD" where "x" is the disk drive number. Shortly, you will be asked, "CHANGE PRINTER?" *Unless you have several different printers, once you get a printer specification to work correctly with your printer, you shouldn't have to change it again.* If the printer specification is OK, press "N" and go to step 5. Otherwise, press "Y" and continue with step 4.

4. Set printer specifications.

ENTER PRINT DEVICE. Type and enter any printer output device (e.g., "RS232.BA = 9600.DA = 8", "RS232.LF" or "PIO"). *Disk should*

not normally be specified as the print device. You are not allowed to specify both ".CR" and ".LF" as part of your print device as at least the carriage return or line feed is needed to distinguish lines of print.

HOW MANY LEADING SPACES ARE DESIRED FOR EACH LINE OF PRINT? Only if your printer supports line lengths greater than 80 characters, enter any number desired. This feature will allow for hole punching so the printouts can be put in a binder. *If your printer only supports a maximum of 80 characters per line, enter zero.*

ENTER OPTIONAL PRINTER INITIALIZATION CODES IN HEXADECIMAL. This feature allows you to send special characters to your printer prior to printing the reports. There is no Form Feed signal given at the beginning of print. If you would like the printer to advance to head-of-form, add the value "0C" somewhere in your codes. Also, no carriage return or line feed is output following these control codes. If you want them, you will have to include them yourself. A maximum of 84 hexadecimal characters can be input. Only an even number of characters is acceptable. Some of the more commonly needed printer control codes are "08" (backspace), "09" (horizontal tab), "0A" (line feed), "0B" (vertical tab), "0C" (form feed), "0D" (carriage return) and "1B" (escape). *CHECK THE USER'S MANUAL FOR YOUR OWN SPECIFIC PRINTER.*

ENTER OPTIONAL PRINTER DE-INITIALIZATION CODES IN HEXADECIMAL. This is the same as the previous group, except that they are sent to the printer after the reports are printed.

After the last question is answered, the data will be converted to the correct format and output to the *MULTI-DISK INFORMER* disk.

5. Load previous MDI master catalog data.

LOAD INPUT FROM M.D.I. DISK? If you want to update, search and/or reprint a previously saved master catalog, indicate which one by pressing the corresponding key (i.e., "1", "2", "3", "4" or "5"). If you are starting a new master catalog, press "N".

6. Enter report date.

ENTER DATE. Enter the date that you want on all pages of the two reports. A maximum of 28 characters may be entered, the first ten of which will be reproduced on the banner page in very large letters seven lines in height.

GO TO STEP 9 IF YOU LOADED PREVIOUS CATALOG DATA IN STEP 5.

7. Enter list of filenames to exclude.

ENTER UP TO 8 FILES THAT YOU WANT EXCLUDED FROM THE FILE REPORT. If there are files that you do not want included in the

FILE REPORT, use this option to exclude them. This will allow a larger number of disks to be input.

A typical example for use of this feature is where you have the same several programs on every one of your disks. Unless you want specific size usage to determine versions of the same program (e.g., LOAD), you probably really don't want these filenames listed for each disk.

8. Enter list of filenames to mark.

ENTER UP TO 8 FILENAMES THAT YOU WANT THEIR EXISTENCE MARKED ON THE DISK REPORT. If you entered any filenames in step 7 and you want to mark the existence of the same filenames for each disk in the DISK REPORT, just enter "##". Optionally, you can specify up to eight totally different filenames.

A typical example for use of this feature is where you have some standard files (e.g., ASSM1, EDIT1, EDITA1, LOAD, etc.) on a portion of your disks. With this option you can easily identify which disks have any of these special files just by looking up the disknames on the DISK REPORT... there will be an asterisk if the file exists and a hyphen if it doesn't.

9. Input specification step.

PRESS KEY FOR SELECTION. Press "0" if there is no more input, then proceed to step 10. *A MAXIMUM OF 6800 BYTES OF DATA CAN BE INCLUDED IN THE CATALOG. THIS IS COMPRISED OF THE LISTS OF FILENAMES TO BE EXCLUDED AND MARKED, THE DISK NAMES (+ 1 BYTE EACH) AND THE FILENAMES (+ 4 BYTES EACH).* If you are getting close to the maximum you may want to consider not inputting another disk because an incomplete catalog of the last disk is always a possibility. Since you can have up to five master catalogs saved at a time, you can have a master catalog for each major category of disks (e.g., business, games, programming, etc.).

If there is another disk to be input, press the key corresponding to the drive that the disk is in (i.e., "1", "2" or "3"). *If the disk drive is not ready or you have inadvertently tried to input an uninitialized disk, the program will note the error and allow you to return to the beginning of this step.* If the disk name has not been input previously, the disk name, input sequence number and sectors used, available and total will be displayed. As the filenames are read from the disk directory, the filenames, type (including record size), protection and size (in sectors) will scroll in the lower portion of the screen. Counts by file type will be incremented in the upper portion of the screen. *If for some reason the program cannot read information concerning a particular file, the ERROR count will be incremented.* Only if the

filename is not one to be excluded, the count will appear on the right side of the filename entry on the screen. *A MAXIMUM OF 600 FILENAME ENTRIES MAY BE INPUT — THIS DOES NOT INCLUDE THOSE SPECIFIED TO BE EXCLUDED. THIS LIMIT IS NOT ABSOLUTE, AND WILL ONLY BE REACHED IF YOU HAVE SHORT FILENAMES.*

If a diskname has been used before, you will have three options: 1) Skip the disk; 2) Accept the duplicate disk name; or 3) Update the disk information. If you choose this last option, the program will pause momentarily to remove all file and disk information. With this feature you now only have to read in a previous master catalog's data and then input the disks which have had changes since the last report to get a completely revised set of listings.

A MAXIMUM OF 100 DISKS MAY BE INPUT. THIS LIMIT IS NOT ABSOLUTE AND WILL BE REACHED ONLY IF YOU HAVE DISKS WITH ONLY A FEW SHORT FILENAMES EACH.

After all input for a disk has been processed, a flashing message will appear at the bottom of the screen indicating which disk drive was just processed and that you should press "enter" to continue. This allows you a chance to see the final results of the counts by file type. Return to the beginning of this step after pressing "enter".

10. Save MDI master catalog data.

SAVE OUTPUT ON M.D.I. DISK? If you want to save the master catalog data you have just collected, indicate the file you want to save it to by pressing the corresponding key (i.e., "1", "2", "3", "4" or "5"). *CAUTION: IT IS EASY TO WIPE OUT THE WRONG MASTER CATALOG BY PRESSING THE INCORRECT KEY.* If you do not want to save this master catalog, press "N".

You may want to use this the save feature every ten disks or so if you are inputting a large number of disks for the first time. This will help recovering should the program be interrupted unexpectedly. WHEN YOU DO THIS, YOU SHOULD NOTE THE LAST INPUT DISK THAT WAS SAVED.

11. Search for filenames.

ENTER FILENAME TO SEARCH FOR. At this point you can enter a filename at a time to search for. The information will be presented in the bottom box on the screen. When finished searching, press "enter" without entering a filename. This feature is particularly helpful if you do not have a printer.

After the last search, the filenames will be sorted.

12. Print the reports.

IS A PRINTED COPY DESIRED? Press "N" if you do not want a printed report... the program will return to the master title screen.

Press "Y" if you do want a printout in which case the banner page will be printed first, followed by the FILE REPORT and then the DISK REPORT. Once these portions have been printed you will be given the opportunity to reprint them as many times as you like.

NOTES

THE DISK PROTECT NOTCH SHOULD NOT BE COVERED WHEN CHANGING THE PRINT SPECIFICATION OR SAVING MASTER CATALOG DATA.

All unreadable characters in disknames and filenames will be changed to question marks.

The following abbreviations are used in the MULTI-DISK INFORMER listings:

- D/F = Display Fixed
- D/V = Display Variable
- I/F = Internal Fixed
- I/V = Internal Variable
- PGM = ProGraM
- ERR = ERRor (unreadable filename)
- TOT = TOTal

The program has been designed to allow for maximum input (i.e., 600 filenames, 100 disknames, or 6,800 bytes — whichever comes first). As the maximum 6,800 bytes is approached, the program will significantly slow down to do "garbage collection." This is an inherent feature of the TI-99/4A to provide for maximum utilization of string variables.

The CLEAR key has been disabled. If you want to stop the program in the middle of a run, wait until all disk activity has ceased, then press QUIT. **DO NOT ATTEMPT TO MODIFY THE DISK OR PROGRAM IN ANY WAY!** The program can only run exactly as it is sold to you. Any attempt to modify the disk or program can have unpredictable results.

The MULTI-DISK INFORMER has been protected to assure you that you are receiving the authorized and guaranteed version. We realize that this might not allow you to make a backup copy, therefore we have adopted the following liberal REPLACEMENT POLICY: Call or write to determine the current replacement fee (to cover media, postage and handling). Send us the original disk, a copy of your receipt and the replacement fee — and we will ship you a new disk.

IN CASE OF DIFFICULTY

Please carefully reread the instructions. If you still have problems, call or write us and we will attempt to resolve them.

The MULTI-DISK INFORMER is a copyrighted (1984) product of J & K H Software, 2820 S. Abingdon St., Arlington, Virginia, USA, 22206. Phone: (703) 820-4131.

BANNER PAGE

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MULTI-DISK
INFORMER
LISTING
PAGE 04
    
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MULTI-DISK INFORMER PROGRAM v2.0
 Written by: Jim Hollender
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12 JUNE 84 -- EXAMPLE

The following FILENAMES were excluded from the FILE REPORT:

- ASSM1
- ASSM2
- EDIT1
- EDITA1
- EDITA2
- FORMA1
- FORMA2
- LOAD

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FILE REPORT

MULTI-DISK INFORMER

Page 1

FILE REPORT -- 112 files from 5 disks (15 files excluded) 12 JUNE 84 -- EXAMPLE

| FILENAME | TYPE | P | SIZE | DISKNAME | SEQ | FILENAME | TYPE | P | SIZE | DISKNAME | SEQ |
|------------|--------|----|------------|----------|------------|----------|------|------------|------|----------|-----|
| 84-01A | D/V80 | 4 | NEWSLETTER | 2 | INFO060484 | D/V80 | 4 | NEWSLETTER | 2 | | |
| 84-01B | D/V80 | 4 | NEWSLETTER | 2 | INFO061284 | D/V80 | 4 | NEWSLETTER | 2 | | |
| 84-01C | D/V80 | 7 | NEWSLETTER | 2 | INT-SUBS | D/V80 | 38 | SXB-SOURCE | 3 | | |
| 84-01D | D/V80 | 4 | NEWSLETTER | 2 | INVOICE | PGM | 4 | NEWSLETTER | 2 | | |
| 84-01E | D/V80 | 7 | NEWSLETTER | 2 | LIST | D/V80 | 26 | NEWSLETTER | 2 | | |
| 84-01F | D/V80 | 2 | NEWSLETTER | 2 | LOADSXB | D/V80 | 4 | SXB-SOURCE | 3 | | |
| 84-01G | D/V80 | 3 | NEWSLETTER | 2 | LOADSXB5 | D/V80 | 4 | SXB-SOURCE | 3 | | |
| 84-01H | D/V80 | 2 | NEWSLETTER | 2 | MDI-LOAD | PGM | 2 | MDI??????? | 1 | | |
| 84-03A | D/V80 | 10 | NEWSLETTER | 2 | MDIDATA??? | I/V254 | 11 | MDI??????? | 1 | | |
| 84-03B | D/V80 | 11 | NEWSLETTER | 2 | MDIDATA??? | I/V254 | 11 | MDI??????? | 1 | | |
| 84-03C | D/V80 | 9 | NEWSLETTER | 2 | MDIDATA??? | I/V254 | 11 | MDI??????? | 1 | | |
| 84-03D | D/V80 | 11 | NEWSLETTER | 2 | MDIDATA??? | I/V254 | 11 | MDI??????? | 1 | | |
| 84-04A | D/V80 | 8 | NEWSLETTER | 2 | MDIDATA??? | I/V254 | 11 | MDI??????? | 1 | | |
| 84-04B | D/V80 | 36 | NEWSLETTER | 2 | MDILOAD??? | PGM | 43 | MDI??????? | 1 | | |
| 84-04C | D/V80 | 3 | NEWSLETTER | 2 | MDIPRINT?? | I/V254 | 2 | MDI??????? | 1 | | |
| 84-05A | D/V80 | 9 | NEWSLETTER | 2 | MDIPRINT?? | I/V254 | 3 | MDI??????? | 1 | | |
| 84-05B | D/V80 | 9 | NEWSLETTER | 2 | MDIPROG??? | D/V163 | 65 | SMASHDISK | 5 | | |
| 84-05C | D/V80 | 9 | NEWSLETTER | 2 | MDIPROG--- | D/V163 | 65 | SMASHDISK | 5 | | |
| 84-05D | D/V80 | 10 | NEWSLETTER | 2 | MDIPROG??? | I/V254 | 54 | MDI??????? | 1 | | |
| 84-06A | D/V80 | 17 | NEWSLETTER | 2 | MISC-SUBS | D/V80 | 17 | SXB-SOURCE | 3 | | |
| ADDRESSER | PGM | 3 | NEWSLETTER | 2 | MNEMONICS | D/V80 | 18 | SXB-SOURCE | 3 | | |
| ANALPRT | PGM | 9 | SMASHDISK | 5 | NEWSPAPERS | D/V80 | 26 | NEWSLETTER | 2 | | |
| ASKFORINFO | D/V80 | 3 | NEWSLETTER | 2 | PRINT | PGM | 5 | NEWSLETTER | 2 | | |
| BACKUP | PGM | 4 | SXB-SOURCE | 3 | PRINT | PGM | 5 | SXB-SOURCE | 3 | | |
| BANNER | PGM | 3 | SXB-SOURCE | 3 | PRINT-SXB | PGM | 4 | SXB-SOURCE | 3 | | |
| BLWP-SUBS | D/V80 | 25 | SXB-SOURCE | 3 | PRINTLABEL | PGM | 4 | NEWSLETTER | 2 | | |
| CONSTANTS | D/V80 | 10 | SXB-SOURCE | 3 | PROMO | PGM | 4 | SXB-SOURCE | 3 | | |
| DATATEST | D/V163 | 2 | SMASHDISK | 5 | RELEASE | D/V80 | 14 | NEWSLETTER | 2 | | |
| DBFND2 | D/V80 | 4 | NEWSLETTER | 2 | RESETO | D/V80 | 2 | --- | --- | | |
| DBFND2S | D/V80 | 6 | NEWSLETTER | 2 | RESETS | D/V80 | --- | --- | --- | | |
| DBFND2TEST | PGM | 5 | NEWSLETTER | 2 | SA-SUBS | D | --- | --- | --- | | |
| DBMS-SUBS | D/V80 | 44 | SXB-SOURCE | 3 | SADELO | --- | --- | --- | --- | | |
| DEALERLIST | D/V80 | 7 | NEWSLETTER | 2 | SAP | --- | --- | --- | --- | | |
| DECIPHER | PGM | 22 | SXB-SOURCE | 3 | --- | --- | --- | --- | --- | | |
| DEC_TO_HEX | PGM | 8 | SXB-SOURCE | 3 | --- | --- | --- | --- | --- | | |
| DISKTR | D/V80 | 3 | NEWSLETTER | 2 | --- | --- | --- | --- | --- | | |

DISK REPORT

MULTI-DISK INFORMER

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DISK REPORT 12 JUNE 84 -- EXAMPLE

5 disks

```

#FORM#
EDIT# 1 #LOAD
EDIT# 1 1 1 #PRINT
ASS# 1 1 1 1 #UNUSED
1 1 1 1 1 1 #UNUSED
INPUT 1 1 1 1 1 1
    
```

| DISKNAME | SEQ | SECTORS | | | | FILES | | | | | |
|--------------|-----|---------|-------|-------|-----|-------|-----|-----|-----|-----|-----|
| | | USED | AVAIL | TOTAL | D/F | D/V | I/F | I/V | PGM | ERR | TOT |
| MDI??????? | 1 | 163 | 193 | 358 | - | - | - | 8 | 3 | - | 11 |
| NEWSLETTER | 2 | 578 | 148 | 718 | 2 | 40 | - | - | 17 | - | 59 |
| SMASHDISK | 3 | 282 | 76 | 358 | - | 7 | 1 | - | 7 | - | 15 |
| SXB-SOURCE | 3 | 630 | 88 | 718 | 4 | 14 | - | - | 14 | - | 32 |
| VT02 | 4 | 358 | - | 358 | 1 | - | 3 | - | 6 | - | 10 |
| Grand Totals | | 2809 | 507 | 2310 | 7 | 61 | 4 | 8 | 47 | - | 127 |