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# 1. ALPHABETICAL COMMAND LIST

- A \* ALLOCATE tracks
- C \* CREATE a FILE
- D \* DESTROY a FILE
- F \* FORMAT a disk
- G \* RESTART after simulated power failure
- I \* INPUT FROM a FILE if it exists
- L \* display a DIRECTORY LISTING
- M display a message
- O \* OUTPUT TO a FILE if it exists
- O OUIT
- R \* RELEASE allocated tracks
- S display disk usage STATISTICS
- T \* display the allocation TABLE
- X1 \* fixed sized file eXTENSIVE TESTING
- x2 \* variable sized file eXTENSIVE TESTING
- x3 \* final eXTENSIVE TESTING
- QUIET MODE don't display all the gory details
  NOISY MODE display all details for all commands

## MISCELLANEOUS DRIVER COMMANDS

Z DRIVER TEST MODE - allows the driver to continue even on a status check error. This feature is primarily for driver debugging.

### 2. PARAMETER DOCUMENTATION

Parameters	<u>Usage</u>
address	a disk address or track number. Tracks are numbered from 0 up
expect	the expected status. If the command status does not agree, the test run will halt. Use the value -1 to suppress this check.
message	the rest of the line up to and including the new line $(\n)$ character.
name	the name of a file. This must be preceded by exactly one space and must consist of exactly eight characters.
seed	a seed for the random number generator. If you don't know what this is for, you can just give it your favorite positive integer.
size	the size or average size of a file in extensive testing.
status	the return status to check against 'expect'
temp	indicates a variable for use by the driver
tracks	the number of tracks for an allocation request

<sup>\*</sup> these commands interact with the program being tested. See below for functions tested.

# 3. COMMAND DOCUMENTATION

X2 <seed> <size>

х3

```
Usage
                              Program Statements
=== BASIC TESTING ===
Format a disk.
F <tracks>
                              FormatDisk( tracks, 128 );
Restart after simulated power fail. The number of tracks is taken from the
Format (F) command.
                              Restart( tracks , 128 );
Allocate 1 or more tracks.
A <tracks> <expect>
                              status = Allocate( &temp, tracks );
Release 1 or more tracks.
R <address> <tracks> <expect> status = Release( address, numTracks );
=== FILE SYSTEM TESTING ===
Create a file.
Destroy a file.
D <name> <expect>
                              status = DestroyFile( name );
Input from a file if it exists.
                              status = FindFile( name, temp1, temp2 );
I <name> <expect>
                              ReadFileTrack( temp1, temp2 )
Output to a file if it exists.
O <name> <expect>
                              status = FindFile( name, temp1, temp2 );
                              WriteFileTrack( temp1, temp2 );
Extensive tests...
X1 creates up to 5000 files of the given size, in a somewhat arbitrary order.
It then deletes first the odd-numbered files, then the even numbered files.
Calls to list directory are made between each block of calls. X2 uses "seed" to
seed the random number generator, then creates up to 5000 files of sizes
averaging the given size. The files are deleted as in X1. X3 does variable size
tests with a fixed seed and a fixed average file size. In addition, X3 will
generate more realistic head movements.
X1 <size>
```

```
=== DISK AND FILE SYSTEM STATUS ===
List a directory
                           ListDirectory();
Display allocation table
                           Table();
______
=== DRIVER UTILITIES ===
Disable detailed listing of commands
                           (No interactions)
Enable detailed listing of commands (default)
                           (No interactions)
Message display
M <message>
                           (No interactions)
Quit
                           (No interactions)
Q
Display statistics
                           Statistics();
Special driver testing mode
                           (No interactions)
```