

SUPER DIRECTORY (SD) V1.03 RELEASE NOTES

Super Directory (SD) v1.03 is the fourth release of a directory utility that makes organizing and using our electronic mass storage devices simpler and faster. It was derived from SD V4.12 for CP/M.

Assembly –the supplied source code is configured for the WDC 2014 tool set for the 65C02 operating in a Windows environment. Use under a different tool set will require code changes. No 65C02 instructions or unique features were used.

Configuring – Before assembling the utility set the “V3” conditional statement to reflect use in either a DOS/65 V2.1 or a V3.0 environment. V2.1 can only handle a user area of zero while V3 can handle user areas of 0 through 15. There are other conditional assembly options that can be changed.

Running – run SD and use it just as you would use DIR. The following are all valid SD command lines:

“SD C:”

“SD new*.com”

Options – In the space immediately following the file definition, options may be entered as follows:

1. First ensure that a valid file definition (UFN or AFN) immediately follows the SD and before any attempt to enter options. This is because the option string can look like a file definition.
2. An option string must be started with a “=”, e.g., “SD *.* =”
3. Enter one or both of the following option commands:
 - a. “a” to show directory results for all user areas, e. g., “SD C:*. * =a”
 - b. “n” to cancel the screen full pause. This is especially useful if you use ctrl-P to echo the console stream to your printer to get a printed directory listing.
4. You can also enter an option string using a “u” to direct a listing of a specific user area, e. g., “SD C:*. * =u5” that will create a directory listing of drive C but only of user area 5.

Speed - SD is fast but can be improved. There is a noticeable pause as it starts processing a new user area. Some of that pause is the Shell sort but that is already optimized except possibly for implementing a two-layer file structure so COMPARE and especially SWAP subroutines mostly just handle an array of word length pointers. I will start on that improvement right away.

Revision History

V1.00 – initial release.

V1.01 – fixes bug in V1.00 that caused incorrect display of files having the character “\$” anywhere in the file name or extension.

V1.02 - significant improvement in speed achieved by eliminating redundant directory searches. In one typical run of SD against all user areas of an 8 MB CF drive total execution time was reduced from 106 seconds to 83 seconds – a 22% improvement.

V1.03 – changed option character to “=”.

Bug Reports – please report any problems found to me at richardaleary@gmail.com.