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### • Why not CP/M also for 6502 CPU's ?

## DOS/65 - an interesting operating system with file system compatibility to CP/M-80 (and other similarities)

*From the system description of DOS/65:*

"What I (Richard A. Leary) have done is attack the software side of the problem in order to make any 6502 system a truly workable disk based system. In addition a degree of compatibility is now possible not only between 6502 systems but with large parts of the world of CP/M systems. The result of my efforts is a system of software which I have named DOS/65."

Richard's implementation is initially made for S-100 based systems, but he began to port it to the C64 also (see below).

DOS/65 has a lot of CP/M look-alike commands for the command line and also some applications like BASIC-E included.

Of course some differences between CP/M-80 and DOS/65 exist - the lowest memory areas (e.g. the "zero page") are not usable for the TPA, so the usable system memory area starts at a higher address (e.g. \$0400).

Documentation files:

[DOS/65 System description \(PDF\)](#)

[DOS/65 Sysgen manual \(PDF\)](#)

[DOS/65 System interface guide \(PDF\)](#)

[DOS/65 Bringing the system up \(PDF\)](#)

**\* NEW ! \***

[DOS/65 ASM Manual.pdf](#)

[DOS/65 BASIC-E Manual.pdf](#)

[DOS/65 EDIT Manual.pdf](#)

[DOS/65 DEBUG Manual.pdf](#)

[DOS/65 IEEE Standard 696 Manual.pdf](#)

Source code files (6502 Assembler):

[ASM204.zip](#)

[BOOT202.zip](#)

[EDIT202.zip](#)

[MAKECOM.zip](#)

[MON900A.zip](#)

[SIM300.zip](#)

[SYSGN214.zip](#)

BASIC-E compiler and runtime: *very useful !*

[BASICE\\_COMP-RT.zip](#)

Useful info for a port to C64 can be found at the [C64 CP/M page](#),  
Richard converting PDFs to readable assembler files, thank you again,  
Richard !

**A working copy of a C64 port of DOS/65 !!**

Richard has prepared two .D64 files (now updated):

[DOS65-1C.D64](#) (Bootdisk with updated SIM C64S304.ASM)

[DOS65A.D64](#) (Blank disk)

Load the bootdisk with: LOAD "DOS65",8,1:RUN

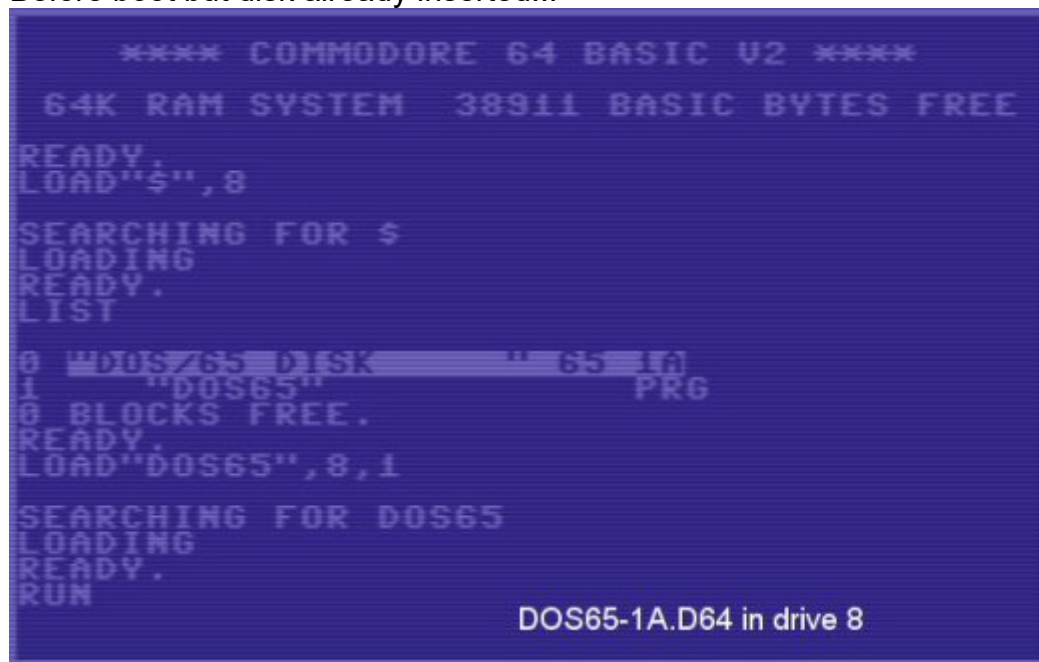
See for some [advice](#) using the assembler in the above PDF manual now.

The new source files are zipped now in one file: [newsources.zip](#)

He has written a sample BASIC/E program [FILESTAT.BAS](#) also.

Some screenshots:

Before boot but disk already inserted...



```
**** COMMODORE 64 BASIC V2 ****
64K RAM SYSTEM  38911 BASIC BYTES FREE
READY.
LOAD"$",8
SEARCHING FOR $
LOADING
READY.
LIST
0 "DOS65.DISK"  " 65 1A"
1 "DOS65"      PRG
0 BLOCKS FREE.
READY.
LOAD"DOS65",8,1
SEARCHING FOR DOS65
LOADING
READY.
RUN
DOS65-1A.D64 in drive 8
```

...after boot:



```
C64 52K DOS/65 2.15 SIM 3.02
A>dir
A:C64S302 .ASM      A:COPY .COM
A:DEBUG .COM      A:FILESTAT.BAS
A:SYSGEN .COM      A:ALLOC .COM
A:EDIT .COM       A:COMPILE .COM
A:RUN .COM        A:MAKECOM .COM
A:COMPARE .COM    A:ASM .COM
A:C64B211 .ASM    A:C64L210 .ASM
A>
```

DOS65-1A.D64 in drive 8  
after loaded system and after typed "dir"

New ! [Screenshot](#) of running DOS/65 on a SX-64 with 1541 Ultimate.

Richard can be contacted at [richardaleary AT gmail.com](mailto:richardaleary@gmail.com) .

**Important ! Please note this from the author:**

"DOS/65 software and documentation are provided as shareware for non-profit, educational, or private use. Any other use is prohibited without approval of Richard A. Leary."

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