

FDOS 1.0

FDOS was the first operating system provided with the MF-68 floppy disk system for the SWTPC 6800 computer. It was a direct parallel of North Star DOS in the S-100 world. These are very primitive operating systems that are little more than a replacement of the cassette interface. Of course, data transfers to/from the disk are much faster and more reliable than with cassette, and the disk allows use of file names, but neither FDOS or NSDOS provides the feature set or easy user interface of FLEX or CP/M.

The FDOS disk images found in the "Disk Images" folder can be written to a floppy on your SWTPC 6800 with the PC2FLOP.S19 program found in the "Disk Image Transfer" folder. The disk image is transferred from the PC to the 6800 using a terminal emulator and the XMODEM protocol. An MP-S board is required. If 9600 baud is used, disk transfer takes about two minutes. Use the L command in SWTBUG to load PC2FLOP.S19 and then type G to execute the program.

To save an FDOS disk image to the PC, run FLOP2PC.S19 in the same manner as described above for PC2FLOP.

FDOS 1.0 Disk Images (thanks to Francis Massen and Dave Dunfield)

Below is the content of each of the disk images. Many of the programs expect the MP-C board for the console interface and will not operate properly with the MP-S serial board. The disk image FDOSDUNF.DSK is typical of the FDOS distribution disk. Files preceded by '\$' are system files and execute by simply typing the name (without the \$). All other programs are run by typing RUN filename. The BASIC and CORES (co-resident editor/assembler) programs on this disk require an MP-C board for the console. A version of this disk patched to run with the MP-S serial board as the console is FDOSMPS.DSK

FDOS is located from \$2400-\$2FFF. Note that on some disks, executable files errantly extend into this space (e.g., BASIC/D, BASIC/2, BASIC/2E on FDOS01.DSK). When these programs are loaded, the bytes of FDOS that happened to be in memory when that program was saved are then in memory when control returns to FDOS or BASIC calls disk routines in the FDOS loader (\$2400-\$25FF). This could be different than the FDOS version that was booted from disk (e.g., the patched versions in FDOSMPS.DSK). This can cause some unexpected behavior.

FDOSDUNF.DSK (BASIC and CORES use MP-C for console)

```
$DOS      00 00 14 00 2400 2FFF 2600
$COPY     03 00 03 11 0100 03FF 0100
$PACK     03 03 02 11 0100 02FF 0100
$BASIC    03 05 23 11 0100 23FF 0100
$CORES    07 00 24 11 00F0 23FF 0100
SECTORS REMAINING (HEX)  00FE
```

FDOSMPS.DSK (BASIC and CORES use MP-S for console)

```
$DOS      00 00 14 00 2400 2FFF 2600
$COPY     03 00 03 11 0100 03FF 0100
$PACK     03 03 02 11 0100 02FF 0100
$BASIC    03 05 23 11 0100 23FF 0100
$CORES    07 00 24 11 00F0 23FF 0100
SECTORS REMAINING (HEX)  00FE
```

FDOS00.DSK

| | | | | | | | |
|-------------------------|----|----|----|----|------|------|------|
| \$DOS | 00 | 00 | 14 | 00 | 2400 | 2FFF | 2600 |
| BASIC/D | 03 | 00 | 2C | 22 | 0100 | 2720 | 0100 |
| CORES/D | 07 | 04 | 2E | 22 | 00F0 | 23FF | 0100 |
| DISASS | 0C | 00 | 07 | 22 | 1B00 | 1F95 | 1B36 |
| TEXT/TSC | 0C | 07 | 2E | 22 | 0200 | 25EF | 0200 |
| BASIC/2 | 11 | 03 | 31 | 22 | 0100 | 2720 | 0100 |
| BASIC/2E | 16 | 02 | 31 | 22 | 0100 | 2720 | 0100 |
| TINY-ASS | 1B | 01 | 15 | 22 | 0000 | 0FFF | 07A4 |
| MICRO/OS | 1D | 02 | 06 | 22 | 0000 | 0400 | 0073 |
| BILOBIPU | 1D | 08 | 03 | 22 | 1E03 | 1F85 | 1E03 |
| TICTAC | 1E | 01 | 09 | 22 | 0020 | 06B0 | 0100 |
| MORSGEN | 1F | 00 | 03 | 22 | 0000 | 01F0 | 0191 |
| MORSER/1 | 1F | 03 | 04 | 22 | 0020 | 021F | 00AF |
| CW/68/73 | 1F | 07 | 03 | 22 | 0020 | 01DA | 013A |
| SSTV/1 | 20 | 00 | 07 | 22 | 0000 | 0437 | 0000 |
| SSTV/2 | 20 | 07 | 03 | 22 | 1D00 | 1E5F | 0000 |
| GRAPHENT | 21 | 00 | 09 | 22 | 0020 | 0620 | 0036 |
| ERASE1 | 21 | 09 | 03 | 22 | 1EAF | 1F05 | 1EC1 |
| STARS/I | 22 | 02 | 04 | 22 | 0020 | 0256 | 00B5 |
| SECTORS REMAINING (HEX) | | | | | 000E | | |

FDOS01.DSK

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|-------------------------|----|----|----|----|------|------|------|
| \$DOS | 00 | 00 | 14 | 00 | 2400 | 2FFF | 2600 |
| \$COPY | 03 | 00 | 03 | 11 | 0100 | 03FF | 0100 |
| \$PACK | 03 | 03 | 02 | 11 | 0100 | 02FF | 0100 |
| \$BASIC | 03 | 05 | 23 | 11 | 0100 | 23FF | 0100 |
| \$CORES | 07 | 00 | 24 | 11 | 00F0 | 23FF | 0100 |
| BASIC/2 | 0A | 06 | 2C | 22 | 0100 | 23FF | 0100 |
| CORES/1 | 0F | 00 | 2E | 22 | 00F0 | 23FF | 0100 |
| DISASS/1 | 13 | 06 | 07 | 22 | 1B00 | 1F95 | 1B36 |
| BASIC/4 | 14 | 03 | 15 | 22 | 0100 | 10FF | 0100 |
| SECTORS REMAINING (HEX) | | | | | 0088 | | |

FDOS05.DSK

| | | | | | | | |
|----------|----|----|----|----|------|------|------|
| \$DOS | 00 | 00 | 14 | 00 | 2400 | 2FFF | 2600 |
| FACT | 03 | 00 | 03 | 55 | 2720 | 2869 | 6E00 |
| PLANETS1 | 03 | 03 | 0D | 55 | 2720 | 30A6 | 6E00 |
| SIMULAT1 | 04 | 06 | 03 | 55 | 2720 | 284D | 6E00 |
| FSTFOUR1 | 04 | 09 | 11 | 55 | 2720 | 3367 | 6E00 |
| LIFE/B | 06 | 06 | 0C | 55 | 2720 | 2F7B | 6E00 |
| FUNCTAPX | 07 | 08 | 0B | 55 | 2720 | 2E37 | 6E00 |
| BASECONV | 08 | 09 | 06 | 55 | 2720 | 2A1E | 6E00 |
| LEASTSQ1 | 09 | 05 | 09 | 55 | 2720 | 2DEF | 6E00 |
| FOURIER2 | 0A | 04 | 08 | 55 | 2720 | 2C9C | 6E00 |
| CHEBYCH | 0B | 02 | 0B | 55 | 2720 | 2EA6 | 6E00 |
| MAUS | 0C | 03 | 02 | 55 | 2720 | 2752 | 6E00 |
| SONNE1 | 0C | 05 | 10 | 55 | 2720 | 32A3 | 6E00 |
| POLYFIT | 0E | 01 | 15 | 55 | 2720 | 36DE | 6E00 |
| INTEGRAL | 10 | 02 | 08 | 55 | 2720 | 2C1B | 6E00 |
| RANDOM | 11 | 00 | 02 | 55 | 2720 | 276A | 6E00 |
| ORBITALS | 11 | 02 | 0C | 55 | 2720 | 2FDD | 6E00 |
| CALENDAR | 12 | 04 | 06 | 55 | 2720 | 2ADF | 6E00 |
| WAVES | 13 | 00 | 09 | 55 | 2720 | 2D7B | 6E00 |

| | | | | | | | |
|-------------------------|----|----|----|----|------|------|------|
| FINANCE | 13 | 09 | 38 | 55 | 2720 | 527D | 6E00 |
| LUCAS | 19 | 05 | 07 | 55 | 2720 | 2BDE | 6E00 |
| SCORE68 | 1A | 02 | 08 | 55 | 3900 | 3EC0 | 6E00 |
| CIRCANAL | 1B | 00 | 0D | 55 | 2B25 | 3454 | 6E00 |
| ORBITS/2 | 1C | 03 | 06 | 55 | 2720 | 2A80 | 6E00 |
| OSCAR7 | 1C | 09 | 0D | 55 | 2720 | 30B4 | 6E00 |
| VIELECK | 1E | 02 | 04 | 55 | 2820 | 2A00 | 6E00 |
| SLOTMACH | 1E | 06 | 0E | 55 | 2720 | 319D | 6E00 |
| BIORHYTM | 20 | 00 | 0B | 55 | 2720 | 2E3D | 6E00 |
| ORBIT | 21 | 01 | 06 | 55 | 2720 | 2AB1 | 6E00 |
| OSCARORB | 21 | 07 | 02 | 55 | 2720 | 2720 | 6E00 |
| ORBITS/5 | 21 | 09 | 06 | 55 | 2720 | 2AC3 | 6E00 |
| SECTORS REMAINING (HEX) | | | | | | | 000F |

FDOS10.DSK

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|-------------------------|----|----|----|----|------|------|------|
| \$DOS | 00 | 00 | 14 | 11 | 2400 | 2FFF | 2400 |
| \$BASIC | 03 | 00 | 2C | 11 | 0100 | 23FF | 0100 |
| CHEKSUM | 07 | 04 | 02 | 22 | 4000 | 407F | 4000 |
| ORBITS/1 | 07 | 06 | 03 | 55 | 2720 | 297C | 6E00 |
| OSCAR7/1 | 07 | 09 | 0C | 55 | 2720 | 30B4 | 6E00 |
| KITBUG | 09 | 01 | 04 | 22 | 6100 | 6300 | 6100 |
| ORBITS/2 | 09 | 05 | 06 | 55 | 2720 | 2A80 | 6E00 |
| BIORHYTM | 0A | 01 | 0B | 55 | 2720 | 2E35 | 6E00 |
| LOGAN | 0B | 02 | 08 | 55 | 2720 | 2CBA | 6E00 |
| TICKTAPE | 0C | 00 | 04 | 55 | 2720 | 28A8 | 6E00 |
| LOGANAL | 0C | 04 | 0C | 55 | 2B25 | 3454 | 6E00 |
| TINY-ASS | 0D | 06 | 16 | 22 | 0100 | 1100 | 0100 |
| FLOPPY | 0F | 08 | 0C | 77 | 2380 | 2B14 | 3430 |
| INTFACE | 11 | 00 | 02 | 22 | 0100 | 01FD | 2600 |
| PERMSTRI | 11 | 02 | 04 | 55 | 2720 | 29E2 | 6E00 |
| BASBIO | 11 | 06 | 0C | 55 | 2720 | 2FBD | 6E00 |
| SORTALG | 12 | 08 | 07 | 55 | 2720 | 2DE9 | 6E00 |
| CHEBYCHE | 13 | 05 | 0B | 55 | 2720 | 2E7B | 6E00 |
| HEX | 14 | 06 | 04 | 55 | 2720 | 2925 | 6E00 |
| HEXAGON | 15 | 00 | 0C | 55 | 2720 | 2F95 | 6E00 |
| HERMAN | 16 | 02 | 09 | 55 | 2720 | 2DC6 | 6E00 |
| WOODRUM | 17 | 01 | 09 | 55 | 2720 | 2DE9 | 6E00 |
| COMPLEXW | 18 | 00 | 1B | 55 | 2720 | 3CB3 | 6E00 |
| GRAPH | 1A | 07 | 07 | 77 | 2380 | 27F2 | 3930 |
| REIS | 1B | 04 | 02 | 22 | 2721 | 27B6 | 2600 |
| SENS/5 | 1B | 06 | 02 | 55 | 2820 | 28E3 | 6E00 |
| VIELECK1 | 1B | 08 | 03 | 55 | 2820 | 2A18 | 6E00 |
| VIELEXK1 | 1C | 01 | 04 | 55 | 2820 | 2A00 | 6E00 |
| SLOT/PAT | 1C | 05 | 0E | 55 | 2720 | 319D | 6E00 |
| PROJECT1 | 1D | 09 | 06 | 55 | 2720 | 2B77 | 6E00 |
| LTB/S | 1E | 05 | 09 | 77 | 2380 | 294D | 3930 |
| LTB/H | 1F | 04 | 02 | 22 | 2F50 | 3001 | 2F50 |
| PTB/S | 1F | 06 | 08 | 77 | 2380 | 2877 | 3930 |
| PTB/H | 20 | 04 | 02 | 22 | 2F6F | 3000 | 2F6F |
| | 20 | 06 | 18 | 22 | 2F6F | 3000 | 2F6F |
| GRMATTRA | 23 | 00 | 03 | 55 | 2720 | 2887 | 6E00 |
| LIFE/HX | 23 | 03 | 03 | 22 | 1A48 | 1BCB | 2600 |
| SECTORS REMAINING (HEX) | | | | | | | 0004 |

FDOS12.DSK

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|-------------------------|----|----|----|----|------|------|------|
| \$DOS | 00 | 00 | 14 | 00 | 2400 | 2FFF | 2600 |
| BASIC/M | 03 | 00 | 12 | 22 | 0100 | 0D4D | 0100 |
| TSC/ASS/ | 04 | 08 | 18 | 22 | 0300 | 15FF | 0300 |
| EDIT/TSC | 07 | 02 | 1C | 22 | 0200 | 1600 | 0200 |
| DISASSPR | 0A | 00 | 09 | 22 | 6900 | 6F50 | 6900 |
| PRINTER | 0A | 09 | 03 | 22 | 1EF9 | 1F15 | 2600 |
| PR40 | 0B | 02 | 02 | 22 | 6F20 | 6F3C | 2600 |
| CORES/T | 0B | 04 | 23 | 22 | 0100 | 1B2F | 0100 |
| LOCATOR | 0E | 09 | 02 | 22 | 3E00 | 3E77 | 3E03 |
| MEMDUMP | 0F | 01 | 02 | 22 | 3F25 | 3FFA | 3F25 |
| CORES/D | 0F | 03 | 33 | 22 | 00F0 | 2720 | 0100 |
| COPY | 14 | 04 | 04 | 22 | 0100 | 03FF | 0100 |
| PACK | 14 | 08 | 03 | 22 | 0100 | 02FF | 0100 |
| MUSIC/B | 15 | 01 | 07 | 22 | 1000 | 14DF | 1000 |
| BASIC/D | 15 | 08 | 31 | 22 | 0100 | 2720 | 0100 |
| SECTORS REMAINING (HEX) | | | | | | | 005D |