

## **PC2FLOP and FLOP2PC (for CP/68 on SWTPC with MF-68)**

These programs transfer an image of a CP/68 disk through an MP-S serial port in any of the SWTPC 6800 I/O ports to archive (FLOP2PC) or create (PC2FLOP) disks. The XMODEM protocol is used for the serial transfer (choose checksum, not CRC). CP/68 disks are SSSD with 35 tracks, 128 byte sectors, and 18 sectors per track. Track zero has sectors 0,1,2,4,5...18 (sector 3 skipped) and all remaining tracks have sectors 1-18. This arrangement on track zero supports loading the three sector cold boot loader with the "D" command in SWTBUG.

The SWTBUG (or MIKBUG) PROM must be present in the computer. If using the console port for the XMODEM transfer, error messages and prompts won't be seen once the XMODEM transfer is started. This can make it difficult to notice and determine disk I/O problems. A second serial port for the XMODEM transfer is the ideal configuration, though not required.

The PC2FLOP utility provides the option to format the disk before transfer. This allows creation of a boot disk on a "cold" system. A format is required if the disk has not already formatted specifically for CP/68. A sample disk image, CP68.DSK is available in the parent folder. For convenience, these disk images includes PC2FLOP and FLOP2PC which can be also run under CP/68.

The programs can be run from SWTBUG or MIKBUG by loading the appropriate S-record file using the "L" command followed by the "G" command to execute. The programs load and run at \$2000.

At 9600 baud it takes just over two minutes to create a disk. I like to put the 9600 baud clock on the 600 baud motherboard line since I never use 600 baud and the "600" reminds me of 9600. See "MP-A 9600 Baud Mod.jpg" in this same folder.