**CPM-65 BDOS.COM Documentation**

**Program description**

BDOS.COM is the Basic Disk Operating System of CPM-65. It is as such the core module of CPM-65 performing file system operations and terminal I/O. It is the main entry point for user programs into CPM-65.

This document is work in progress and will be expanded over time

**Usage**

BDOS is called via a JSR call onto its fixed memory address at $00F0. At this address CPM-65 places a direct JMP to the begin of BDOS into the BDOS command handler.

BDOS commands and parameters are submitted in the registers

X BDOS function number ($00 .. $1F)

A/Y Arguments – 16 bit L/H or 2 8 bit values

If the command was executed successfully, BDOS returns the carry flag as cleat.

If an error occurs, carry is set and an error number is in A. the user program has to take all error handling for maximum flexibility.

**DATA structures**

**BDOS Function $0x**

**BDOS Function $0A Basic Input Line Editor**

The function accepts a line of input into the line buffer referenced in $EC/$ED.

Line Format:

Byte content

$00 length + 1

$01 .. $nn 7 bit ASCII text

$nn+1 EOT chr = $00

Maximum line length is 126 chrs including EOT

The input line may be edited by the user with control commands. The line editor is overwrite only. No insert mode is available.

Command function

[->] cursor right

[<-] cursor left

CR carriage return, exit line input

CTRL-A cursor to 1 chr of the line

CTRL-D cursor right

CTRL-F cursor to the current end of the line

CTRL-H cursor left

CTRL-I cursor right

CTRL-M carriage return, exit line input

RUBOUT cursor left – ASCII $7F must be sent

The command checks for a valid string in the buffer. So a command string from a previous command can be directly reused or edited.