COMET Reference Card

Comet (C) Edwin Blink

ARROW KEYS movement of the cursor the arrow points to CAPS toggle caps lock DELETE backspace SYM DELETE characters after the cursor are moved left by one position CTRL DELETE delete a complete line INV insert a character **EDIT** clear the current line SYMBOL EDIT restore the current line TAB tabulate to the right SYM TAB tabulate to the left

SYMBOL N find next item SYMBOL E insert the instruction EX AF, AF'

SYMBOL I toggle insert mode SYMBOL C enter command/calculator mode

SYMBOL S swap location

F3 insert blankline **F7** first source page F2 insert blockmarker F4 page up F1 F9 ")" close bracket page down F8 "(" open bracket F0 last source page "&" hexadecimal sign F5 "%" binary sign F6

COMMANDS

Α assemble В go to basic С D copy block of source directory Е F find next item erase file FΒ find block marker FE find error find word in label field or operand field F word F label: find label in labelfield G go to menu 1 view initial control string

I num1,..,num15 define initial control string num1

number of control bytes (num2 to num15)

L load source м merge source Ν O save objectcode new source Р print block of source or complete source

Р; as above but remark markers (semicolons) are printed as a space Q quit, re-boot

R relocate block of source S save source T num1,..,num15 send data to printer (max. 15 bytes)

U undo (delete) block V view lahels

V 1 or 2 view all labels in 1 or 2 colums V symbol view all labels starting with 'symbol' V 1 or 2,label same as above but in 1 or 2 columns

V symbol: view label 'symbol' only

٧* same as above but to the printer

V *symbol: V *1 to 5, label W view workspace

W p1,o1,p2,o2 define workspace (start, end page, start, end offset)

X address execute code at addres and return to editor

X page,address as above, HIMEM set to 'page', 'address' from 0 to 65535

Z remove swap markers from sourcefile

SOURCE ERRORS

Bad source statement source statement was entered incorrectly **Bad expression** numeric expression is incorrect or a label is too long

Number out of range number must be smaller than 256 or 65536

Label not found label is not defined

Multiple label label is used more then once

Displacement out of range index or displacement of DJNZ (JR) is too large

File not found

Wrong file type the file is not a code/screen file

Invalid device (disk only)

Disk error error during a disk operation File too large include file bigger than 24 Kbytes Include in include includes are allowed inside a include file

CALCULATOR

All calculations have the same priority!

negative -1 = 255 or 65535

decimal 99 hexadec. &1F = 31binary %1100 = 12 char. "A" = 65"" = 34 addition 8 + 88 = 96 auote substraction 48 - 16 = 32division 96 / 16 = 6multiplication 12 * 24 = 288 modulus 98 \ 9 = 8

> high byte of a label label / 256 low byte label \ 256

LABELS

label field 15 chars opcode field 5 chars, operand 47 chars

Labels up to 14 characters long, followed with a ":", must start with a alpha character, other characters except

> a spacedollar sign '\$' percent '% ampersand '& minus '-' brackets '()' plus '+' asterix'*' slash '/' accent ''' back slash '\' comma ',' double point ':' semicollon ';' quote ""

ASSEMBLER DIRECTIVES

ORG address set origin at 'address'

> The assembled source code will be made to run at this address (32768 as default).

DUMP address The code of the source will be assembled at this

addres (from 16384 to 65535). **DUMP** page,offset same as above but 'page' from 0 to 31, offset is

the address within a page (from 0 to 16383). DEFB num,..,num or DB define bytes (0-255)

To include data followed after the directive.

DEFM "string" or DM define message

To include text in ASCII form.

DEFS number or DS define storage

To create a gap of 'number' bytes (from 1 to 16383).

DEFW num,..num or DW define word (0-65535)

like DEFB, for numbers from 0 - 65535

EQU number equal or equate

Can be used after a label to give a value to a label.

LIST ON/OFF To print a part or the complete source during assembling.

MDAT "file name" (disk only) merge a code (or screen\$) file

Merge a file into the objectcode (no limit of the length)

INC "file name" (disk only)

Allows a source file which is on the disk to be assembled at the position the directive was put in the source file which is in memory (less than 24K, no INCludes are allowed inside a INClude file).

The instructions ADD A,.., ADC A,.. and SBC A,.. may be entered as ADD .., ADC .. or SBC .. (..= B,C, D,E,H,L,(HL),A, etc.) Undocumented instructions are not implemented (except SLL).

To give a label the current instruction addres (without an instruction following), use "label: " or "label: EQU \$".

EDITOR ERRORS

Out of memory not enough memory to insert a line

Not understood parameters are incorrect

Invalid block block empty, undefined or too large

Inside block the editor can not copy or relocate a block inside

Number out of range number bigger than 255 or 65535

String too long more than 14 chars or more then 15 numbers are used

Not found item not found

Invalid Workspace start bigger than end or memory pages are allready used

ASSEMBLER ERRORS

Assembly aborted something has gone wrong Out of symbol space not enough memory to define label

Check source for errors errors during assembling **Escape pressed** assembling was aborted Out of memory there is not enough memory left

press SYMBOL N to find errors (don't remove the error line)