# COMET Reference Card

Comet (C) Edwin Blink

movement of the cursor the arrow points to

characters after the cursor are moved left by one position

toggle caps lock

delete a complete line insert a character

clear the current line

tabulate to the right

tabulate to the left

toggle insert mode

find next item

swap location

insert blankline

insert blockmarker

")" close bracket

"(" open bracket

"&" hexadecimal sign

restore the current line

insert the instruction EX AF, AF'

enter command/calculator mode

backspace

ARROW KEYS

SYM DELETE

CTRL DELETE

SYMBOL EDIT

SYM TAB

SYMBOL N

SYMBOL E

SYMBOL I

SYMBOL C

SYMBOL S

F3

F2

F9

F8

F6

Ζ

CAPS

INV

EDIT

ТАВ

DELETE

### CALCULATOR

All calculations have the same priority!

negative decimal

binary

auote

substraction

multiplication

99

-1 = 255 or 65535 %1100 = 12

hexadec. &1F = 31 char. "A" = 65 addition 8 + 88 = 96 division 96 / 16 = 6

operand 47 chars

48 - 16 = 3212 \* 24 = 288 modulus 98 \ 9 = 8

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

## LABELS

opcode field 5 chars, label field 15 chars

"" = 34

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

a spacedollar	sign '\$'
ampersand '&'	brackets '()'
plus '+'	asterix'*'
back slash '\'	comma ','
double point ':'	semicollon ';'

percent '% minus '-' slash '/' accent ''' 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) (disk only) INC "file name" 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 the block		
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 Out of symbol space **Check source for errors Escape pressed** Out of memory

something has gone wrong not enough memory to define label errors during assembling assembling was aborted there is not enough memory left

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

COMMANDS

F7

F4

F1

FO

F5

first source page

last source page

"%" binary sign

page up

page down

	0011117	H D C		
Α	assemble	В	go to basic	
С	copy block of source	D	directory	
E	erase file	F	find next item	
FB	find block marker	FE	find error	
F word	find word in label field or operand field			
F label:	find label in labelfield	G	go to menu	
1	view initial control string			
l num1,,num1	5 define initial control st	tring nu	m1	
number of control bytes (num2 to num15)				
L	load source	М	merge source	
Ν	new source	0	save objectcode	
Ρ	print block of source or co	omplete	source	
Ρ;	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	ν	view labels	
V 1 or 2	view all labels in 1 or 2 co	lums		
V symbol	view all labels starting with 'symbol'			
V 1 or 2,label	<b>2, label</b> same as above but in 1 or 2 columns			
V symbol:	view label 'symbol' only			
V *	_same as above but to the	printer		
V *1 to 5, label	] " " "	V *sy	mbol: " " "	
w	view workspace			
W p1,o1,p2,o2	define workspace (start,	end <b>pa</b>	<b>ge,</b> start, end <b>offset</b> )	
X address	_execute code at'addres' a	ind retu	rn to editor	
X page,address	as above, HIMEM set to	o 'page'	, 'address' from 0 to 65535	

remove swap markers from sourcefile

# SOURCE ERRORS

Bad source statement Bad expression	source statement was entered incorrectly 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		