

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
F9)" close bracket	F1	page down
F8	(" open bracket	F0	last source page
F6	"&" hexadecimal sign	F5	"%" binary sign

COMMANDS

A	assemble	B	go to basic
C	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 label field	G	go to menu
I	view initial control string		
I num1,...,num15	define initial control string num1 number of control bytes (num2 to num15)		
L	load source	M	merge source
N	new source	O	save objectcode
P	print block of source or complete source		
P ;	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 labels
V 1 or 2	view all labels in 1 or 2 columns		
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		
V *	same as above but to the printer		
V *1 to 5, label	" " "	V *symbol:	" " "
W	view workspace		
W p1,o1,p2,o2	define workspace (start, end page , start, end offset)		
X address	execute code at 'address' 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 than 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	hexadec.	&1F = 31
decimal	99	char.	"A" = 65
binary	%1100 = 12	addition	8 + 88 = 96
quote	"" = 34	division	96 / 16 = 6
subtraction	48 - 16 = 32	modulus	98 \ 9 = 8
multiplication	12 * 24 = 288		

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 '&'	brackets '()'	minus '-'
plus '+'	asterix '*'	slash '/'
back slash '\'	comma ','	accent ''
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 address (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 address (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 already 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)	