

Index -----	Additional -----	Description -----
0	[2 bytes]	Start of a program line / line number. If an empty line could be a END IF or REPEAT or REMARK

\*\*\*\*\* Operators \*\*\*\*\*

1	=	Equal (integer)	
2	=	Equal (float)	
3	=	Equal (string)	
51	==	Almost equals (integer)	May be the same as = (integer)
52	==	Almost equals (float)	May be the same as = (ON)
53	==	Almost equals (string)	
4	<>	Not equal (integer)	
5	<>	Not equal (float)	
6	<>	Not equal (string)	
7	<	Less than (integer)	
8	<	Less than (float)	
9	<	Less than (string)	
10	>	Greater than (integer)	
11	>	Greater than (float)	
12	>	Greater than (string)	
13	<=	Less than or equal (integer)	
14	<=	Less than or equal (float)	
15	<=	Less than or equal (string)	
16	>=	Greater than or equal (integer)	
17	>=	Greater than or equal (float)	
18	>=	Greater than or equal (string)	
19	+	Add (integer)	
20	+	Add (float)	
21	-	Subtract (integer)	
22	-	Subtract (float)	
23	*	Multiply (integer)	
24	*	Multiply (float)	
25	/	Divide (integer)	May be the same as DIV
26	/	Divide (float)	

27	&	Join strings
28	&&	Bitwise AND
29		Bitwise OR
30	^^	Bitwise XOR
31	~~	Bitwise NOT
40	OR	As in IF (a OR b)
41	AND	As in IF (a AND b)
42	XOR	
43	NOT	(Integer)
44	MOD	
45	DIV	Divide (integer)
46	NOT	(float)
47	INSTR	
48	^	Raise to a power (float)

\*\*\*\*\* Actual values \*\*\*\*\*

55	[2 bytes]	An actual integer to put on stack
56	[6 bytes]	An actual floating point to put on stack
57	[undefined]	An actual string to put on stack
58		A zero to put on stack (integer)

\*\*\*\*\* Normal variables \*\*\*\*\*

59	[2 bytes]	Get a variable (integer)
60	[2 bytes]	Get a variable (float)
61	[2 bytes]	Get a variable (string). Also get an array element If proceeded by 0,0 means the whole string otherwise it's a substring. e.g. 1,5 means a\$(1 TO 5)
62	[2 bytes]	Assign a variable (integer)
63	[2 bytes]	Assign a variable (float)
64	[2 bytes]	Assign a variable (string)

\*\*\*\*\* Arrays \*\*\*\*\*

65	[4 bytes]	DIMention a integer array (1 or more elements )   First word is no of
66	[4 bytes]	DIMention a float array (1 or more elements )   elements - 1
67	[2 bytes]	DIMention a string array (1 element )
68	[4 bytes]	DIMention a string array (2 or more elements ) 1 <sup>st</sup> word is no of elements - 2
260	[4 bytes]	LOCAl DIMention a integer array (1 or more elements )   First word is no of
261	[4 bytes]	LOCAl DIMention a float array (1 or more elements )   elements - 1
262	[2 bytes]	LOCAl DIMention a string array (1 element )
263	[4 bytes]	LOCAl DIMention a string array (2 or more elements ) 1 <sup>st</sup> word is no of elements - 2
69	[2 bytes]	Get an array element (integer) multiple element
70	[2 bytes]	Get an array element (float) multiple element
		Get an array element (string) See 61
71	[2 bytes]	Assign a numeric array element (integer)
72	[2 bytes]	Assign an array element (float)
73	[2 bytes]	Assign an array element (string)
74	[2 bytes]	Assign a substring of an array element (string)

\*\*\*\*\* Stack manipulation \*\*\*\*\*

75	Covert a string variable on stack to an actual string
76	Convert integer on stack to a float
77	Convert a float to an integer
78	Convert an integer on stack to a string
79	Convert an integer on stack to a negative (integer) on stack
80	Convert a float on stack to a negative (float) on stack
81	Move a float onto the main stack
82	Move a float from the main stack
83	Convert FP ASCII on stack to a float
84	Convert float variable to ASCII for PRINT/INPUT
85	Duplicate integer on top of the stack onto the stack (part of Procedure parameter passing)
86	Move an integer onto the main stack
87	Move an integer from the main stack
88	Convert a decimal ASCII string to an integer (long?)

\*\*\*\*\* PEEK/POKE \*\*\*\*\*

90	PEEK
91	PEEK_W
92	PEEK_L
93	POKE
94	POKE_W
95	POKE_L

\*\*\*\*\* Keyword table commands \*\*\*\*\*

96                      Preceeds actual parameters of a command

97      [2 bytes]      Keyword table entry (procedure)  
          [undefined]   Parameter bytes

98      [2bytes]       Keyword table entry (function)  
          [undefined]   Parameter bytes

\*\*\*\*\* Procedures and Functions \*\*\*\*\*

100    [2 bytes]       Call a Proc/Fun, also GOSUB  
 101    [2 bytes]       Local parameter for proc/fun (integer)  
 102    [2 bytes]       Local parameter for proc/fun (float)  
 103    [2 bytes]       Local parameter for proc/fun ??? string

260    [4 bytes]       LOCal DIMention a integer array (1 or more elements ) | First word is no of  
 261    [4 bytes]       LOCal DIMention a float array    (1 or more elements ) | elements - 1  
 262    [2 bytes]       LOCal DIMention a string array   (1 element )  
 263    [4 bytes]       LOCal DIMention a string array   (2 or more elements ) 1<sup>st</sup> word is no of  
                          elements - 2

109                      RETurn/END DEF

\*\*\*\*\* PRINT \*\*\*\*\*

110                      PRINT  
 111                      , (comma) In PRINT/INPUT print spaces to the next tab  
 112                      Newline in PRINT/INPUT - On it's own means PRINT#x  
 113                      TO      In PRINT/INPUT  
 118                      ! (exclamation) in PRINT/INPUT, print a space

\*\*\*\*\* INPUT \*\*\*\*\*

120                      INPUT (integer)  
 121                      INPUT (float)  
 122                      INPUT (string)

\*\*\*\*\* FOR loops \*\*\*\*\*

130	[2 bytes]	Set on offset to \$0001
131	[2 bytes]	Set offset to float on the stack
132	[2 bytes]	Set an offset to \$0002
133	[6 bytes]+	First word is an offset to next program position, After END FOR
	[24 bytes]	Second word is number of bytes to skip over
134	[4 bytes]	Set loop variable, First word is a pointer to 133
		Second word is variable pointer
135	[2 bytes]	END FOR & NEXT Word is pointer to 134
		Also NEXT in FOR and REPEAT loops in SuperCharge V2.00

\*\*\*\*\* IF..THEN \*\*\*\*\*

140	[2 bytes]	IF/THEN
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\*\*\*\*\* SELECT ON \*\*\*\*\*

145	[2 bytes]	ON	First word is a pointer to start of code to do
			Followed by a GO TO to the start of the next test
146		= (ON) (float)	
147		TO (ON)	
148		= (ON) (integer)	same as index 1?
149		= (ON) (string)	same as index 3?
		= REMAINDER	is handled by inner loop

\*\*\*\*\* Various functions \*\*\*\*\*

150		CODE()	
151		CHR\$()	
152		LEN()	
153		RESPR()	
154		FILL\$()	
155		EOF for embedded DATA statements	
156		EOF() channels	
157	[4 bytes]	DIMN	First word is the array
			Second word is dimension number in the array
158	[2 bytes]	DIMN	Without dimension number

\*\*\*\*\* Various commands \*\*\*\*\*

160	[2 bytes]	GOTO watch out for Def Proc/Fun & REPEAT & IF/THEN/ELSE
161		STOP also NEW
162		READ integer
163		READ float
164		READ string
165	[2 bytes]	RESTORE
166		CLEAR
167	[4 bytes + (2*number of destinations)+4]	ON..GOTO
		1 <sup>st</sup> word - Number of destinations
		2 <sup>nd</sup> word - pointer to start of destination offsets
		3 <sup>rd</sup> word onwards... list of word sized destination offsets
		last 2 words are an end marker
168	[6 bytes + (2*number of destinations)+4]	ON..GOSUB
		1 <sup>st</sup> word - Number of destinations
		2 <sup>nd</sup> word A6 offset to next program line
		3 <sup>rd</sup> word - pointer to start of destination offsets
		4 <sup>th</sup> word onwards... list of word sized destination offsets
		last 2 words are an end marker

\*\*\*\*\* Channels \*\*\*\*\*

180	Check channel is open	(These may be the wrong way round)
181	Check if a channel is a window	
183	Colour stipples (double and triple)	

\*\*\*\*\* Program initialization \*\*\*\*\*

190		Something to with procedure parameter passing (string)
193	[4 bytes]	Variable initialization - String & Arrays (all)
194	[14 bytes]	Used in BASIC program initialization of some sort
196	[2 bytes]	Variable initialization - Float
197	[2 bytes]	Variable initialization - Integer
199	[6 bytes]	Used in BASIC program initialization of some sort