

# DATABASE

Here, courtesy of Acorn Computers, we publish the first instalment in a series listing the call addresses of the BBC Micro's BASIC ROM routines. Note that these addresses are for BASIC II only.

## ALPHABETICAL ROM INDEX

This is an alphabetical listing of the routines in the ROM:

! binary operator	967F	CLOSE statement routine	BF99
! unary operator	95A5	CLS statement routine	8EC4
\$ unary operator	95B0	COLOUR statement routine	938E
\$ operator routine	9D3C	COS function routine	A98D
* statement routine	8B73	COUNT function routine	AEF7
+ operator routine	9C4E	Check Fac #1	A1DA
- operator routine	9CB5	Check for a 'Bad program'	BE6F
- unary operator	9CB5	Check for a comma at PTR # 2	8AAE
/ operator routine	9DE5	Check for end of statement	9857
< operator routine	9BC0	Check if A is alphanumeric	8926
< = operator routine	9BD4	Clear a new variable	9531
< > operator routine	9BDF	Clear stacks	BD3A
= operator routine	9BAE	Clear variables	BD20
= statement routine	8B47	Cold start	8ADD
> operator routine	9BE8	Compare two items	9A9E
> = operator routine	9BFA	Convert a line number to binary	889C
? binary operator	967B	Convert number to a string	9EDF
? unary operator	95A7	Convert string to a number	A07B
ABS function routine	AD6A	Create a PROC/FN catalogue entry	94ED
ACS function routine	A8D4	Create a catalogue entry	94FC
ADVAL function routine	AB33	DATA statement routine	8B7D
AND operator routine	9B7A	DEF statement routine	8B7D
ASC function routine	AC9E	DEG function routine	ABC2
ASN function routine	A8DA	DELETE command routine	8F31
ATN function routine	A907	DIM statement routine	912F
AUTO command routine	90AC	DIV operator routine	9E0A
Assemble a single instruction	85BA	DRAW statement routine	93E8
Assemble base op-codes	84C5	Decode hexadecimal number	AE6D
Assembler entry	8504	Decrement MAN #1	A4C7
Assembler exit	84FD	Delete a line from program	BC2D
Assembler label definition	85A5	Delete bytes in buffer	887C
Assembler mnemonics table (LSB)	8451	Discard the IAC from stack	BDFF
Assembler mnemonics table (MSB)	848B	END statement routine	8AC8
Assign value to numeric variable	B4B1	ENDPROC statement routine	9356
BASIC error handler	B433	ENVELOPE statement routine	B472
BGET statement routine	BF6F	EOF function routine	ACB8
BPUT statement routine	BF58	EOR operator routine	9B55
BRK handling routine	B402	EQUX in assembler	883A
CALL statement routine	8ED2	ERL function routine	AF9F
CHAIN statement routine	BF2A	ERR function routine	AFA6
CHR\$ function routine	B3BD	EVAL function routine	ABE9
CLEAR statement routine	928D	EXP function routine	AA91
CLG statement routine	BEBD	EXT function routine	BF46
		Error handler	B402

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Evaluate expression

9B29

Evaluate integer expression	8821	LEFT\$ function routine	AFCC
Evaluate operand	ADEC	LEN function routine	AED1
Exchange FAC #1 and (&4B)	A4D6	LET statement routine	8BE4
Exponentiation routine	9E35	LEVEL 1 of expression evaluator	9B29
Expression evaluator (integer)	8821	LEVEL 2 of expression evaluator	9B72
FALSE function routine	AECA	LEVEL 3 of expression evaluator	9B9C
FN function routine	B195	LEVEL 4 of expression evaluator	9C42
FOR statement routine	B7C4	LEVEL 5 of expression evaluator	9DD1
Find ERL	B3C5	LEVEL 6 of expression evaluator	9E20
Fix FAC #1	A3FE	LIST command routine	B59C
Floating point addition	9C8B	LISTO command routine	B58A
Floating point comparison	9A50	LN function routine	A7FE
Floating point multiplication	9D20	LOAD command routine	BF24
Floating point subtraction	9CE1	LOCAL statement routine	9323
GCOL statement routine	937A	LOG function routine	ABA8
GET function routine	AFB9	LOMEM function routine	AEFC
GET\$ function routine	AFBF	LOMEM statement routine	926F
GOSUB statement routine	B888	Label definition in assembler	85A5
GOTO statement routine	B8CC	Line number decoding	97EB
Get a variable name	95DD	Line number encryption	88F3
Get an array/PROC/FN name	9559	Line numbers; convert to binary	889C
Get character from PTR #1	8A97	Line numbers; tokenise	88DB
Get a character from PTR #2	8A8C	Load a new program	BE62
Get file handle	BFA9	MID\$ function routine	B039
Get the value of a variable	B32C	MOD operator routine	9E01
HIMEM function routine	AF03	MODE statement routine	939A
HIMEM statement routine	925D	MOVE statement routine	93E4
IF statement routine	98C2	Mnemonic table (LSB)	8451
INKEY function routine	ACAD	Mnemonic table (MSB)	848B
INKEY\$ function routine	B026	Move to next statement	9880
INPUT statement routine	BA44	NEW command routine	8ADA
INPUT# statement routine	B9CF	NEXT statement routine	B695
INSTR function routine	ACE2	NOT function routine	ACD1
INT function routine	AC78	Normalise FAC #1	A303
Increment MAN #1	A4B6	OLD command routine	8AB6
Increment the IAC	9222	ON ERROR OFF statement routine	B8E4
Initialisation of language	8023	ON ERROR statement routine	B8F2
Insert a line into program	BC8D	ON statement routine	B915
Integer addition	9C53	OPENIN function routine	BF78
Integer comparison	9AA2	OPENOUT function routine	BF7C
Integer division	99BE	OPENUP function routine	BF80
Integer multiplication	9D41	OR operator routine	9B3A
Integer subtraction	9CBA	OSCLI statement routine	BEC2
Keyword action addresses (LSB)	836D	Op-code base table	84C5
Keyword action addresses (MSB)	83E0	PAGE function routine	AEC0
Keyword table	8071		

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PAGE statement routine

9283

PI function routine	ABCB	SIN function routine	A998
PLOT statement routine	93F1	SOUND statement routine	B44C
POINT function routine	AB41	SPC routine	8E58
POS function routine	AB6D	SQR function routine	A7B4
PRINT statement routine	8D9A	STOP statement routine	8AD0
PRINT# statement routine	8D2B	STR\$ function routine	B094
PROC statement routine	9304	STRING\$ function routine	B0C2
PTR function routine	BF47	Search for FN/PROC in catalogue	945B
PTR statement routine	BF30	Search for a program line	B99A
Pack FAC#1 to &46C onwards	A385	Search for line in program	9970
Pack FAC#1 to &471 onwards	A37D	Search for name in catalogue	9469
Pack FAC#1 to &476 onwards	A381	Search for next DATA item	BB50
Pack FAC#1 to (&4B)	A38D	Search program for PROC/FN	B112
Parameters; unstacking	8CC1	Series evaluator	A897
Print A in hexadecimal	B545	Set (&2A)=(&2A)*(&3F)	9236
Print a character	B50E	Set (&4B)=&46C	A7F5
Print a string	BFCF	Set (&4B)=&471	A7E9
Print number in decimal	9EDF	Set (&4B)=&476	A7ED
Print number in hexadecimal	9E90	Set FAC#1=(&4B)+FAC#1	A500
Print the IAC	991F	Set FAC#1=(&4B)+FAC#1	A4FD
Pull a string from stack	BDCB	Set FAC#1=(&4B)/FAC#1	A6AD
Pull the IAC from stack	BDEA	Set FAC#1=0	A686
Push FAC#1 onto stack	BD51	Set FAC#1=1	A699
Push a string onto stack	BDB2	Set FAC#1=1/FAC #1	A6A5
Push anything onto stack	BD90	Set FAC#1=A	A2ED
Push the IAC onto stack	BD94	Set FAC#1=FAC#1*(&4B)	A606
RAD function routine	BB1F	Set FAC#1=FAC#1*(&4B);chk ov/flow	A656
REM statement routine	8B7D	Set FAC#1=FAC#1*10	A1F4
RENUMBER command routine	8FA3	Set FAC#1=FAC#1*FAC#2	A613
REPEAT statement routine	BBE4	Set FAC#1=FAC#1+FAC#2	A50B
REPORT statement routine	BFE4	Set FAC#1=FAC#1-(&4B)	A4D0
RESTORE statement routine	BAF6	Set FAC#1=FAC#1-INT(FAC#1)	A486
RETURN statement routine	B8B6	Set FAC#1=FAC#1/(&4B)	A6E7
RIGHT\$ function routine	AFEE	Set FAC#1=FAC#1/FAC#2	A6F1
RND function routine	AF49	Set FAC#1=FAC#1^A	AB12
ROM Entry point	8000	Set FAC#1=FAC#2	A4DC
ROM header	8005	Set FAC#1=IAC	A2BE
RUN statement routine	BD11	Set FAC#2=0	A453
Real addition	9C8B	Set FAC#2=FAC#1	A21E
Real comparison	9A50	Set FAC#2=FAC#1*2	A23F
Real multiplication	9D20	Set IAC=INT(FAC#1)	A3E4
Real subtraction	9CE1	Set MAN#1=MAN#1*10	A197
Remove FAC #1 from stack	BD7E	Set MAN#1=MAN#1+A	A2A4
Remove a string from stack	BDDC	Set MAN#1=MAN#1+MAN#2	A178
SAVE command routine	BEF3		
SGN function routine	AB88		

# DATABAS E

Here, courtesy of Acorn Computers, we complete the list of the call addresses of the BBC Micro's BASIC ROM routines. Note that these addresses are for BASIC II only.

Set MAN#1=MAN#2	A4E8
String addition	9C15
String assignment	8C1E
String comparison	9AE7
String concatenation	9C15
Swap FAC#1 and (&4B)	A4D6
TAB(X)	8E24
TAB(X) routine	8E40
TAN function routine	A6BE
TIME function routine	A6BE
TIME statement routine	92C9
TOP function routine	AEDC
TRACE function routine	9295
TRUE function routine	ACC4
Token table	8071

Tokenise a line of text	8951
Tokenise line numbers	88DB
UNTIL statement routine	BBB1
USR function routine	ABD2
Unpack FAC#1 from (&4B)	A3B2
Unpack FAC#2 from (&4B)	A34E
Unstack a parameter	8CC1
VAL function routine	AC2F
VDU statement routine	942F
VPOS function routine	AB76
WIDTH statement routine	B4A0
Warm start	8AF3
Zero FAC#1	A686
Zero FAC#2	A453
^ operator routine	9E35