Word	Vocab	New Word	Туре	Stack Diagram	Usage	Description
?EF	FORTH	yes	1802	nibble	-	Put the state of the four 1802 EF pins into lowest nibble of number on top of stack
DI	FORTH	Yes	1802		-	Disables interrupts
El	FORTH	yes	1802		-	Enable interrupt processing
INP	FORTH	yes	1802	N byte	-	inputs a byte of data from a port selected by the 1802's N line to stack. Top byte of resulting word set to zero.
OUTP	FORTH	yes	1802	n port#	-	outputs value n to 1802 N-line port#
QOFF	FORTH	yes	1802		-	Set the state of the 1802 Q pin to zero ( gnd )
QON	FORTH	yes	1802		-	Set the state of the 1802 Q pin to zero ( +5 V)
!CODE	FORTH	no	Compile		-	Used internally to create new word headers
#	FORTH	no	Compile	d1 d2	See #S	Generate from a double number d1, the next ascii character which is placed in an output string.  Result d2 is the quotient after division by BASE, and is maintained for further processing. Used between <# and #>.
#>	FORTH	no	Compile	d addr count	-	Terminates numeric output conversion by dropping d, leaving the text address and character count suitable for TYPE.
#S	FORTH	no	Compile	d1 d2	-	Generates ascii text in the text output buffer, by the use of #, until a zero double number n2 results. Used between <# and #>.
(	FORTH	no	Compile		( comment text)	Ignore a comment that will be delimited by a right parenthesis on the same line. May occur during execution or in a colon-definition. A blank after the leading parenthesis is required.
(NUMBER)	FORTH	no	Compile	d1 addr1 d2 addr2	see NUMBER	Convert the ascii text beginning at addr1+l with regard to BASE. The new value is accumulated into double number d1, being left as d2. Addr2 is the address of the first unconvertable digit.
÷	FORTH	no	Compile		:cccc ;	Creates a dictionary entry defining cccc as equivalent to the following sequence of Forth word definitions '' until the next ';' or ';CODE'. The compiling process is done by the text interpreter as long as STATE is non-zero. Other details are that the CONTEXT vocabulary is set to the CURRENT vocabulary and that words with the precedence bit set (P) are executed rather than being compiled.
;	FORTH	no	Compile		-	Terminate a colon-definition and stop further compilation. Compiles the run-time ;S.
;CODE	FORTH	no	Compile		: cccc ;CODE	Stop compilation and terminate a new defining word cccc by compiling (;CODE). Set the CONTEXT vocabulary to ASSEMBLER, assembling to machine code the following mnemonics. When cccc later executes in the form: cccc nnnn the word nnnn will be created with its execution procedure given by the machine code following cccc. That is, when nnnn is executed, it does so by jumping to the code after nnnn. An existing defining word must exist in cc prior to ;CODE
;s	FORTH	no	Compile		-	Stop interpretation of a screen. ;S is also the run-time word compiled at the end of a colon-definition which returns execution to the calling procedure
]	FORTH	no	Compile		: xxx [ words ] more ;	Suspend compilation. The words after [ are executed, not compiled. This allows calculation or compilation exceptions before resuming compilation with ] . See LITERAL, ]
[COMPILE]	FORTH	no	Compile		: xxx [COMPILE] FORTH;	[COMPILE] will force the compilation of an immediate definitions, that would otherwise execute during compilation. The above example will select the FORTH vocabulary then xxx executes, rather than at compile time.
]	FORTH	no	Compile		See [	Resume compilation, to the completion of a colon-definition
<builds< td=""><td>FORTH</td><td>no</td><td>Compile</td><td></td><td>: cccc <builds does=""> ;</builds></td><td>Each time cccc is executed, <builds <builds="" a="" call="" cccc="" create="" defines="" dictionary="" does="" entry="" executing="" execution="" for="" form="" high-level="" in="" new="" nnnn="" procedure.="" sp?="" the="" to="" uses="" with="" word=""> part for nnnn. When nnnn is later executed, it has the address of its parameter area on the stack and executes the words after DOES&gt; in cccc. <builds and="" does=""> allow runtime procedures to written in high-level rather than in assembler code (as required by ;CODE).</builds></builds></td></builds<>	FORTH	no	Compile		: cccc <builds does=""> ;</builds>	Each time cccc is executed, <builds <builds="" a="" call="" cccc="" create="" defines="" dictionary="" does="" entry="" executing="" execution="" for="" form="" high-level="" in="" new="" nnnn="" procedure.="" sp?="" the="" to="" uses="" with="" word=""> part for nnnn. When nnnn is later executed, it has the address of its parameter area on the stack and executes the words after DOES&gt; in cccc. <builds and="" does=""> allow runtime procedures to written in high-level rather than in assembler code (as required by ;CODE).</builds></builds>

Word	Vocab	New Word	Туре	Stack Diagram	Usage	Description
>	FORTH	no	Compile			Continue interpretation with the next disc screen. (pronounced next-screen).
ВАСК	FORTH	no	Compile	addr	-	Calculate the backward branch offset from HERE to addr and compile into the next available dictionary memory address
BEGIN	FORTH	no	Compile	addr n (compiling)	BEGIN UNTIL BEGIN AGAIN BEGIN WHILE REPEAT	At run-time, BEGIN marks the start of a sequence that may be repetitively executed. It serves as a return point from the corresponding UNTIL, AGAIN or REPEAT.  When executing UNTIL, a return to BEGIN will occur if the top of the stack is false; for AGAIN and REPEAT a return to BEGIN always occurs.  At compile time BEGIN leaves its return address and n for compiler error checking.
CFA	FORTH	no	Compile	pfa cfa	-	Convert the parameter field address of a definition to its code field address.
COMPILE	FORTH	no	Compile		-	When the word containing COMPILE executes, the execution address of the word following COMPILE is copied (compiled) into the dictionary. This allows specific compilation situations to be handled in addition to simply compiling an execution address (which the interpreter already does).
CONSTANT	FORTH	no	Compile	n	n CONSTANT cccc	creates word cccc, with its parameter field containing n. When cccc is later executed, it will push the value of n to the stack
CONTEXT	FORTH	no	Compile	addr U,L0	-	A user variable containing a pointer to the vocabulary within which dictionary searches will first begin
CREATE	FORTH	no	Compile		CREATE cccc	Used by such words as CODE and CONSTANT to create a dictionary header for a Forth definition. The code field contains the address of the words parameter field. The new word is created in the CURRENT vocabulary.
CSP	FORTH	no	Compile	addr	-	A user variable temporarily storing the stack pointer position, for compilation error checking.
DEFINITIONS	FORTH	no	Compile		cccc DEFINITIONS	Set the CURRENT vocabulary to the CONTEXT vocabulary. In the example, executing vocabulary name cccc made it the CONTEXT vocabulary and executing DEFINITIONS made both specify vocabulary cccc.
DLITERAL	FORTH	no	Compile	d d (executing) d (compiling)	-	If compiling, compile a stack double number into a literal. Later execution of the definition containing the literal will push it to the stack. If executing, the number will remain on the stack.
DOES>	FORTH	no	Compile		-	A word which defines the run-time action within a high-level defining word. DOES> alters the code field and first parameter of the new word to execute the sequence of compiled word addresses following DOES>. Used in combination with <builds. does="" the="" when=""> part executes it begins with the address of the first parameter of the new word on the stack. This allows interpretation using this area or its contents. Typical uses include the Forth assembler, multidimensional arrays, and compiler generation.</builds.>
IMMEDIATE	FORTH	no	Compile		-	Mark the most recently made definition so that when encountered at compile time, it will be executed rather than being compiled. i.e. the precedence bit in its header is set. This method allows definitions to handle unusual compiling situations, rather. than build them into the fundamental compiler. The user may force compilation of an immediate definition by preceeding it with [COMPILE],
INTERPRET	FORTH	no	Compile		See NUMBER	The outer text interpreter which sequentially executes or compiles text from the input stream (terminal or disc) depending on STATE. If the word name cannot be found after a search of CONTEXT and then CURRENT it is converted to a number according to the current base. That also failing, an error message echoing the name with a "?" will be given.  Text input will be taken according to the convention for WORD. If a decimal point is found as part of a number, a double number value will be left. The decimal point has no other purpose than to force this action.

Word	Vocab	New Word	Туре	Stack Diagram	Usage	Description
LITERAL	FORTH	no	Compile	n (compiling)	-	If compiling, then compile the stack value n as a 16 bit literal. This definition is immediate so that it will execute during a colon definition. The intended use is:  : xxx
NFA	FORTH	no	Compile	pfa nfa	-	Convert the parameter, field address of a definition to its name field
PFA	FORTH	no	Compile	pfa	-	Convert the name field address of a compiled definition to its parameter field address
SMUDGE	FORTH	no	Compile		-	Used during word definition to toggle the "smudge bit" in a definitions' name field. This prevents an uncompleted definition from being found during dictionary searches, until compiling is completed without error.
STATE	FORTH	no	Compile	addr	-	A user variable containing the compilation state. A non-zero value indicates compilation
TASK	FORTH	no	Compile		<del>-</del>	A no-operation word which can mark the boundary between applications
TRAVERSE	FORTH	no	Compile	addr1 n addr2	-	Move across the name field of a fig-FORTH variable length name field. addr1 is the address of either the length byte or the last letter. If n=1, the motion is toward hi memory; if n=-l, the motion is toward low memory. The addr2 resulting is address of the other end of the name.
USER	FORTH	no	Compile	n	n USER cccc	creates a user variable cccc. The parameter field of cccc contains n as a fixed offset relative to the user pointer register UP for this user variable. When cccc is later executed, it places the sum of its offset and the user area base address on the stack as the storage address of that particular variable
VARIABLE	FORTH	no	Compile	n	n VARIABLE cccc	creates the definition cccc with its parameter field initialized to n. When cccc is later executed, the address of its parameter field (containing n) is left on the stack, so that a fetch or store may access this location
VOCABULARY	FORTH	no	Compile		VOCABULARY cccc	creates a vocabulary definition cccc. Subsequent use of cccc will make it the CONTEXT vocabulary which is searched first by INTERPRET. The sequence "cccc DEFINITIONS" will also make cccc the CURRENT vocabulary into which new definitions are placed. In fig-FORTH, cccc will be so chained as to include all definitions of the vocabulary in which cccc is itself defined. All vocabularies ultimately chain to Forth. By convention, vocabulary names are to be declared IMMEDIATE. See VOC-LINK.
VOC-LINK	FORTH	no	Compile	addr U	-	A user variable containing the address of a field in the definition of the most recently created vocabulary. All vocabulary names are linked by these fields to allow control for FORGET'ing thru multiple vocabularies.
WIDTH	FORTH	no	Compile	addr	-	In fig-FORTH, a user variable containing the maximum number of letters saved in the compilation of a definitions' name. It must be 1 thru 31, with a default value of 31. The name character count and its natural characters are saved, up to the value in WIDTH. The value may be changed at any time within the above limits
	FORTH	no	Console	n	-	Print a number from a signed l6 bit two's complement value, converted according to the numeric BASE. A trailing blanks follows. Pronounced "dot"
."	FORTH	no	Console		." cccc"	Compiles an in-line string cccc (delimited by the trailing ") with an execution procedure to transmit the text to the selected output device. If executed outside a definition, ." will immediately print the text until the final ',. The maximum number of characters may be an installation dependent value. See (.")
.LINE	FORTH	no	Console	line scr	-	Print on the terminal device, a line of text from the disc by its line and screen number. Trailing blanks are suppressed.
.R	FORTH	no	Console	n1 n2	-	Print the number n1 right aligned in a field whose width is n2. No following blank is printed.
.S	FORTH	yes	Console		-	dump contents for stack to console output formatted as 16 bit hex numbers
?	FORTH	no	Console	addr	-	Print the value contained at the address in free format according to the current base.
?COMP	FORTH	no	Console		-	Issue error message if not compiling
?CSP	FORTH	no	Console		-	Issue error message if stack position differs from value saved in CSP.
?ERROR	FORTH	no	Console	f n	<del>-</del>	Issue an error message number n, if the boolean flag is true

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Word	Vocab	New Word	Туре	Stack Diagram	Usage	Description
?EXEC	FORTH	no	Console		-	Issue an error message if not executing
?LOADING	FORTH	no	Console		-	Issue an error message if not loading
?PAIRS	FORTH	no	Console	n1 n2		Issue an error message if n1 does not equal n2. The message indicates that compiled
:FAIN3	PONTH	110	Console	111112	-	conditionals do not match
?STACK	FORTH	no	Console			Issue an error message is the stack is out of bounds. This definition may be installation
STACK	FORTH	110	Console		-	dependent.
?TERMINAL	FORTH	no	Console			Perform a test of the terminal keyboard for actuation of the break key. A true flag indicates
TERMINAL	TOKITI	110	Console		-	actuation. This definition is installation dependent.
						Setup for pictured numeric output formatting using the words:
<#	FORTH	no	Console		-	<# # #S SIGN #>
						The conversion is done on a double number producing text at PAD.
>IH	FORTH	1100	Console			Receives data from the console formatted as Intel Hex and stores in memory address from the
<b>∠III</b>	FORTH	yes	Console		-	intel hex file.
2.R	FORTH	yes	Console	n	-	outputs lower byte of number on top of stack as two digit hex
4.R	FORTH	yes	Console	n	-	outputs number on top of stack as four digit hex
A2H1	FORTH	yes	Console	n1 n2 b	-	combines two nibbles on TOS into one byte - used by Intel Hex Loader
BASE	FORTH	no	Console	addr	-	A user variable containing the current number base used for input and output conversion
BL	FORTH	no	Console	c	-	A constant that leaves the ascii value for "blank".
BLANKS	FORTH	no	Console	addr count	-	Fill an area of memory beginning at addr with blanks
C/L	FORTH	yes	Console	n	-	Store the number of characters available per line on the console
CAPS	FORTH	yes	Console	addr	-	Leave address of caps lock variable
						Leave the byte address addr2 and byte count n of a message text beginning at address addr1. It is
COUNT	FORTH	no	Console	addr1 addr2 n L0	-	presumed that the first byte at addr1 contains the text byte count and the actual text starts with
						the second byte. Typically COUNT is followed by TYPE.
CR	FORTH	no	Console		-	Transmit a carriage return and line feed to the selected output device.
						Print a signed double number from a 32 bit two's complement value. The high-order l6 bits are
D.	FORTH	no	Console	d	-	most accessible on the stack. Conversion is performed according to the current BASE. A blank
						follows. Pronounced D-dot
D.R	FORTH	no	Console	d n	-	Print a signed double number d right aligned in a field n characters wide.
DECIMAL	FORTH	no	Console		-	Set the numeric conversion BASE for decimal input-output.
DIGIT	FORTH	no	Console	c n1 n2 tf (ok)		Converts the ascii character c (using base n1) to its binary equivalent n2, accompanied by a true
Digit	FORTH	110	Console	c n1 ff (bad)	-	flag. If the conversion isinvalid, leaves only a false flag.
						A user variable containing the number of digits to the right of the decimal on double integer input.
DPL	FORTH	no	Console	addr	-	It may also be used hold output column location of a decimal point, in user generated formatting.
						The default value is -1
DUMP	FORTH	no	Console	addr n		Print the contents of n memory locations beginning at addr. Both addresses and contents are
DUMP	FURTH	no	Console	addr n	-	shown in the current numeric base
FAUT	FORTU		0	_		Transmit ascii character c to the selected output device. OUT is incremented for each character
EMIT	FORTH	no	Console	C	-	output.
						The text scanning primitive used by WORD. From the text address addr1 and an ascii delimiting
						character c, is determined the byte offset to the first non-delimiter character n1, the offset to the
ENCLOSE	FORTH	no	Console	addr1 c addr1 n1 n2 n3	-	first delimiter after the text n2, and the offset to the first character not included. This procedure
						will not process past an ascii 'null', treating it as an unconditional delimiter.

Word	Vocab	New Word	Туре	Stack Diagram	Usage	Description
ERROR	FORTH	no	Console	line in blk	-	Execute error notification and restart of system. WARNING is first examined. If 1, the text of line n, relative to screen 4 of drive O is printed. This line number may be positive or negative, and beyond just screen 4. If WARNING=O, n is just printed as a message number (non disc installation). If WARNING is -I, the definition (ABORT) is executed, which executes the system ABORT. The user may cautiously modify this execution by altering (ABORT). fig-FORTH saves the contents of IN and BLK to assist in determining the location of the error. Final action is execution of QUIT
ERRS	FORTH	yes	Console	addr	-	Returns the address of the variable where a count of serial I/O communication errors are saved
EXPECT	FORTH	no	Console	addr count	-	Transfer characters from the terminal to address, until a "return" or the count of characters have been received. One or more nulls are added at the end of the text
FLD	FORTH	no	Console	addr	-	A user variable for control of number output field width. Presently unused in fig-FORTH.
HEX	FORTH	no	Console		-	Set the numeric conversion base to sixteen (hexadecimal).
HLD	FORTH	no	Console	addr	-	A user variable that holds the address of the latest character of text during numeric output conversion.
HOLD	FORTH	no	Console	с	-	Used between <# and #> to insert an ascii character into a pictured numeric output string. e.g. 2E HOLD will place a decimal point.
ID.	FORTH	no	Console	addr	-	Print a definition's name from its name field address
IH>	FORTH	yes	Console	addr count	-	outputs n bytes of memory data in Intel Hex format from memory starting at addr.
IN	FORTH	no	Console	addr	-	A user variable containing the byte offset within the current input text buffer (terminal or disc) from which the next text will be accepted. WORD uses and moves the value of IN.
KEY	FORTH	no	Console	c	-	Leave the ascii value of the next terminal key struck
MESSAGE	FORTH	no	Console	n	-	Print on the selected output device the text of line n relative to screen 4 of drive O. n may be positive or negative. MESSAGE may be used to print incidental text such as report headers. If WARNING is zero, the message will simply be printed as a number (disc unavailable)
NEXTBYTE	FORTH	yes	Console		-	reads in two ASCII Hex character and converts to binary byte
NUMBER	FORTH	no	Console	addr d	-	Convert a character string left at addr with a preceeding count, to a signed .double number, using the current numeric base. If a decimal point is encountered in the text, its position will be given in DPL, but no other effect occurs. If numeric conversion is not possible, an error message will be given
оит	FORTH	no	Console	addr	-	A user variable that contains a value incremented by EMIT. The user may alter and examine OUT to control display formatting
PAD	FORTH	no	Console	addr	-	Leave the address of the text output buffer, which is a fixed offset above HERE
QKEY	FORTH	yes	Console	ch	-	Used by internal intel hex loader to get the next character from console and abort if it's an ESC (\$1B)
QUERY	FORTH	no	Console		-	Input 80 characters of text (or until a "return") from the operators terminal. Text is positioned at the address contained in TIB with IN set to zero.
R#	FORTH	no	Console	addr	-	A user variable which may contain the location of an editing cursor, or other file related function
SIGN	FORTH	no	Console	n d d	-	Stores an ascii "-" sign just before a converted numeric output string in the text output buffer when n is negative. n is discarded but double number d is maintained. Must be used between <# and #>.
SPACE	FORTH	no	Console		-	Transmit an ascii blank to the output device.
SPACES	FORTH	no	Console	n	-	Transmit n ascii blanks to the output device.
TIB	FORTH	no	Console	addr	-	A user variable containing the address of the terminal input buffer.
-TRAILING	FORTH	no	Console	addr n1 addr n2	-	Adjusts the character count n1 of a text string beginning address to suppress the output of trailing blanks. i.e. the characters at addr+n1 to addr+n2 are blanks.
TYPE	FORTH	no	Console	addr count	-	Transmit count characters from addr to the selected output device
U.	FORTH	no	Console	u	-	Output the value on top of stack as an unsigned number

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Word	Vocab	New Word	Туре	Stack Diagram	Usage	Description
VLIST	FORTH	no	Console		-	List the names of the definitions in the context vocabulary. "Break" will terminate the listing.
WARNING	FORTH	no	Console	addr	See MESSAGE, ERROR	A user variable containing a value controlling messages. If = 1 disc is present, and screen 4 of drive 0 is the base location for messages. If = 0, no disc is present and messages will be presented by number. If = -1, execute (ABORT) for a user specified procedure.
WORD	FORTH	no	Console	С	-	Read the next text characters from the input stream being interpreted, until a delimiter c is found, storing the packed character string beginning at the dictionary buffer HERE. WORD leaves the character count in the first byte, the characters, and ends with two or more blanks. Leading occurrences of c are ignored. If BLK is zero text is taken from the terminal input buffer, otherwise from the disc block stored in BLK.
X.	FORTH	no	Console	n	-	Outputs top of stack formated in hexidecimal
,	FORTH	no	Dictionary	addr	'nnnn	Leaves the parameter field address of dictionary word nnnn. As a compiler directive, executes in a colon-definition to compile the address as a literal. If the word is not found after a search of CONTEXT and CURRENT, an appropriate error message is given. Pronounced "tick".
FENCE	FORTH	no	Dictionary	addr	-	A user variable containing an address below which FORGETting is trapped. To forget below this point the user must alter the contents of FENCE
-FIND	FORTH	no	Dictionary	pfa b tf (found) ff (not found)	-	Accepts the next text word (delimited by blanks) in the input stream to HERE, and searches the CONTEXT and then CURRENT vocabularies for a matching entry. If found, the dictionary entry's parameter field address, its length byte, and a boolean true is left. Oherwise, only a boolean false is left
FORGET	FORTH	no	Dictionary		FORGET cccc	Deletes definition named cccc from the dictionary with all entries physically following it. In fig-FORTH, an error message will occur if the CURRENT and CONTEXT vocabularies are not currently the same
FORTH	FORTH	no	Dictionary			The name of the primary vocabulary. Execution makes FORTH the CONTEXT vocabulary. Until additional user vocabularies are defined, new user definitions become a part of FORTH. FORTH is immediate, so it will execute during the creation of a colon-definition, to select this vocabulary at compile time
HERE	FORTH	no	Dictionary	addr	-	Leave the address of the next available dictionary location
B/BUF	FORTH	no	Disk	n	-	This constant leaves the number of bytes per disc buffer, the byte count read from disc by BLOCK
B/SCR	FORTH	no	Disk	n	-	This constant leaves the number of blocks per editing screen. By convention, an editing screen is 1024 bytes organized as 16 lines of 64 characters each.
BLK	FORTH	no	Disk	addr	-	A user variable containing the block number being interpreted. If zero, input is being taken from the terminal input buffer.
BLOCK	FORTH	no	Disk	n addr	See also BUFFER, R/W UPDATE, FLUSH	Leave the memory address of the block buffer containing block n. If the block is not already in memory, it is transferred from disc to which ever buffer Was least recently written. If the block occupying that buffer has been marked as updated, it is rewritten to disc before block n is read into the buffer.
FIRST	FORTH	no	Disk	n	-	A constant that leaves the address of the first (lowest) block buffer
OFFSET	FORTH	no	Disk	addr	-	A user variable which may contain a block offset to disc drives. The contents of OFFSET is added to the stack number by BLOCK. Messages by MESSAGE are independent of OFFSET.
>SCR	FORTH	yes	Editor	screen#	-	Receives incoming characters from the console to screen#. Input text files should be delimited by a ~ (tilde). Lines are padded to 64 characters with spaces if necessary.
LIST	FORTH	no	Editor		-	Display the ascii text of screen n on the selected output device. SCR contains the screen number during and after this process.
LOAD	FORTH	no	Editor	n	See ;S and>	Begin interpretation of screen n. Loading will terminate at the end of the screen or at ;S
SCR	FORTH	no	Editor	addr	-	A user variable containing the screen number most recently reference by LIST
SCR>	FORTH	yes	Editor	n screen#	-	Transmits n screens, starting at screen#, to the console. Lines are truncated at the last non-space character and a CR inserted.

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Word	Vocab	New Word	Туре	Stack Diagram	Usage	Description
+LOOP	FORTH	no	Execution Flow	n1 (run) addr n2 (compile)	DO n1 +LOOP	At run-time, +LOOP selectively controls branching back to the corresponding DO based on n1, the loop index and the loop limit. The signed increment n1 is added to the index and the total compared to the limit. The branch back to DO occurs until the new index is equal to or greater than the limit (n1>0), or until the new index is equal to or less than the limit (n1<0). Upon exiting the loop, the parameters are discarded and execution continues ahead.  At compile time, +LOOP compiles the run-time word (+LOOP) and the branch offset computed from HERE to the address left on the stack by DO. n2 is used for compile tine error checking.
0BRANCH	FORTH	no	Execution Flow	f	-	The run-time procedure to conditionally branch. If f is false (zero), the following in-line parameter is added to the interpretive pointer to branch ahead or back. Compiled by IF, UNTIL, and WHILE.
ABORT	FORTH	no	Execution Flow		-	Clear the stacks and enter the execution state. Return control to the operators terminal, printing a message appropriate to the installation.
AGAIN	FORTH	no	Execution Flow	addr n (compiling)	BEGIN AGAIN	At run-time, AGAIN forces execution to return to corresponding BEGIN. There is no effect on the stack. Execution cannot leave this loop (unless R> DROP is executed one level below).  At compile time, AGAIN compiles BRANCH with an offset from HERE to addr. n is used for compile-time error checking.
BRANCH	FORTH	no	Execution Flow		-	The run-time procedure to unconditionally branch. An in-line offset is added to the interpretive pointer IP to branch ahead or back. BRANCH is compiled by ELSE, AGAIN, REPEAT.
BYE	FORTH	no	Execution Flow		-	Exits FORTH to an installation dependent address
COLD	FORTH	no	Execution Flow		-	The cold start procedure to adjust the dictionary pointer to the minimum standard and restart via ABORT. May be called from the terminal to remove application programs and restart.
DO	FORTH	no	Execution Flow	n1 n2 (execute) addr n (compile)	DO LOOP	At run time, DO begins a sequence with repetitive execution controlled by a loop limit n1 and an index with initial value n2. DO removes these from the stack. Upon reaching LOOP the index is incremented by one. Until the new index equals or exceeds the limit, execution loops back to just after DO; otherwise the loop parameters are discarded and execution continues ahead. Both n1 and n2 are determined at run-time and may be the result of other operations. Within a loop 'I' will copy the current value of the index to the stack. See I, LOOP, +LOOP, LEAVE. When compiling within the colon definition, DO compiles (DO), leaves the following address addr and n for later error checking.
ELSE	FORTH	no	Execution Flow	addr1 n1 addr2 n2	IF ELSE ENDIF	At run-time, ELSE executes after the true part following IF. ELSE forces execution to skip over the following false part and resumes execution after the ENDIF. It has no stack effect.  At compile-time ELSE emplaces BRANCH reserving a branch offset, leaves the address addr2 and n2 for error testing. ELSE also resolves the pending forward branch from IF by calculating the offset from addr1 to HERE and storing at addr1.
END	FORTH	no	Execution Flow		-	This is an 'alias' or duplicate definition for UNTIL.
ENDIF	FORTH	no	Execution Flow	addr n	IF ENDIF IF ELSE ENDIF	At run-time, ENDIF serves only as the destination of a forward branch from IF or ELSE. It marks the conclusion of the conditional structure. THEN is another name for ENDIF. Both names are supported in fig-FORTH. See also IF and ELSE.  At compile-time, ENDIF computes the forward branch offset from addr to HERE and stores it at addr. n is used for error tests.
EXECUTE	FORTH	no	Execution Flow	addr	-	Execute the definition whose code field address is on the stack. The code field address is also called the compilation address.
GO	FORTH	yes	Execution Flow	addr	-	Transfers execution control to addr

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Word	Vocab	New Word	Туре	Stack Diagram	Usage	Description
IF	FORTH	no	Execution Flow	addr n (run-time) P,C2,L0 (compile)	IF (tp) ENDIF IF (tp) ELSE (fp) ENDIF	At run-time, IF selects execution based on a boolean flag. If f is true (non-zero), execution continues ahead thru the true part. If f is false (zero), execution skips till just after ELSE to execute the false part. After either part, execution resumes after ENDIF. ELSE and its false part are optional.; if missing, false execution skips to just after ENDIF At compile-time IF compiles OBRANCH and reserves space for an offset at addr. addr and n are used later for resolution of the offset and error testing.
LEAVE	FORTH	no	Execution Flow		-	Force termination of a DO-LOOP at the next opportunity by setting the loop limit equal to the current value of the index. The index itself remains unchanged, and execution proceeds normally until LOOP or +LOOP is encountered
LFA	FORTH	no	<b>Execution Flow</b>	pfa lfa	-	Convert the parameter field address of a dictionary definition to its link field address
LOOP	FORTH	no	Execution Flow	addr n (compiling)	DO LOOP	At run-time, LOOP selectively controls branching back to the corresponding DO based on the loop index and limit. The loop index is incremented by one and compared to the limit. The branch back to DO occurs until the index equals or exceeds the limit; at that time, the parameters are discarded and execution continues ahead.  At compile-time. LOOP compiles (LOOP) and uses addr to calculate an offset to DO. n is used for error testing.
NEXT	FORTH	no	Execution Flow			This is the inner interpreter that uses the interpretive pointer IP to execute compiled Forth definitions. It is not directly executed but is ff the return point for all code procedures. It acts by fetching the address pointed by IP, storing this value in register W. It then jumps to the address pointed to by the address pointed to by W. W points to the code field of a definition which contains the address of the code which executes for that definition. This usage of indirect threaded code is a major contributor to the power, portability, and extensibility of Forth. Locations of IP and W are computer specific
QUIT	FORTH	no	Execution Flow		-	clear the return stack, stop compilation, and return control to the operators terminal. No message is given
REPEAT	FORTH	no	Execution Flow	addr n (compiling)	BEGIN WHILE REPEAT	At run-time, REPEAT forces an unconditional branch back to just after the corresponding BEGIN. At compile-time, REPEAT compiles BRANCH and the offset from HERE to addr. n is used for error testing.
THEN	FORTH	no	Execution Flow		-	exAn alias for ENDIF
UNTIL	FORTH	no	Execution Flow	f (run-time) addr n (compile)	BEGIN UNTIL	At run-time, UNTIL controls the conditional branch back to the corresponding BEGIN. If f is false, execution returns to just after BEGIN, if true, execution continues ahead.  At compile-time, UNTIL compiles (OBRANCH) and an offset from HERE to addr. n is used for error tests.
WARM	FORTH	no	<b>Execution Flow</b>		-	Warm starts the system while maintaining words added to the base dictionary
WHILE	FORTH	no	Execution Flow	f (run-time) ad1 nl ad1 n1 ad2 n2 (compile)	BEGIN WHILE REPEAT	At run-time, WHILE selects conditional execution based on Boolean flag f. If f is true (non-zero), WHILE continues execution of the true part thru to REPEAT, which then branches back to BEGIN. If f is false (zero), execution skips to just after REPEAT, exiting the structure At compile time, WHILE emplaces (0BRANCH) and leaves ad2 of the reserved offset. The stack values will be resolved by REPEAT.
-	FORTH	no	Math	n1 n2 diff	-	Leave 16 bit the difference of n1-n2
*	FORTH	no	Math	n1 n2 prod	-	Leave the signed product of two signed 16 bit numbers
*/	FORTH	no	Math	n1 n2 n3 n4	-	Leave the ratio $n4 = n1*n2/n3$ where all are signed numbers. Retention of an intermediate 31 bit product permits greater accuracy than would. be available with the sequence: $n1 n2 *n3 /$
*/MOD	FORTH	no	Math		-	Leave the quotient n5 and remainder n4 of the operation : n1*n2/n3 A 31 bit intermediate product is used as for */
1	FORTH	no	Math	n1 n2 quot		Leave the signed quotient of n1/n2

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Word	Vocab	New Word	Туре	Stack Diagram	Usage	Description
/MOD	FORTH	no	Math	n1 n2 rem quot	-	Leave the remainder and signed quotient of n1/n2. The remainder has the sign of the dividend
+	FORTH	no	Math	n1 n2 sum	-	Leave the 16 bit sum of n1+n2
+-	FORTH	no	Math	n1 n2 n3	-	Apply the sign of n2 to n1, which is left as n3
+!	FORTH	no	Math	n addr	-	Add n to the value at the address. Pronounced "plus-store".
<	FORTH	no	Math	n1 n2 f	-	Leave a true flag if n1 is less than n2; otherwise leave a false flag.
=	FORTH	no	Math	n1 n2 f	-	Leave a true flag if n1=n2; otherwise leave a false flag
>	FORTH	no	Math	n1 n2 f	-	Leave a true flag if n1 is greater than n2; otherwise a false flag
0	FORTH	no	Math	0	-	puts a zero on top of stack - used so often that is attractive to define as a constant instead of a literal
0<	FORTH	no	Math	n f	-	Leave a true flag if the number is less than zero (negative), otherwise leave a false flag.
0=	FORTH	no	Math	n f	-	Leave a true flag is the number is equal to zero, otherwise leave a false flag
1	FORTH	no	Math	1	-	puts a one on top of stack used so often that is attractive to define as a constant instead of a literal
1+	FORTH	no	Math	n n+1	-	Increment n by 1
2	FORTH	no	Math	2	-	puts a two on top of stack used so often that is attractive to define as a constant instead of a literal
2+	FORTH	no	Math	n n+2	-	Increment n by 2
3	FORTH	yes	Math	3	-	puts a three on top of stack - used so often that is attractive to define as a constant instead of a literal
ABS	FORTH	no	Math	n u	-	Leave the absolute value of n as u.
AND	FORTH	no	Math	n1 n2 n2	-	Leave the bitwise logical and of n1 and n2 as n3.
CURRENT	FORTH	no	Math	d1 d2 dsum	-	Leave the double number sum of two double numbers.
D+	FORTH	no	Math	d1 d2 dsum	-	Leave the double number sum of two double numbers
D+-	FORTH	no	Math	d1 n d2		Apply the sign of n to the double number d1, leaving it as d2
DABS	FORTH	no	Math	d ud	_	Leave the absolute value ud of a double number
DMINUS	FORTH	no	Math	d1 d2	_	Convert d1 to its double number two's complement
1	FORTH	no	Math	n	See R	Used within a DO-LOOP to copy the loop index to the stack.
j	FORTH	yes	Math		-	Used within nested DO-LOOPs to copy the loop index of the outer loop to the stack.
LIT	FORTH	no	Math	n	-	Within a colon-definition, LIT is automatically compiled before each 16 bit literal number encountered in input text. Later execution of LIT causes the contents of the next dictionary address to be pushed to the stack
M*	FORTH	no	Math	n1 n2 d	-	A mixed magnitude math operation which leaves the double number signed product of two signed number.
M/	FORTH	no	Math	d n1 n2 n3	-	A mixed magnitude math operator which leaves the signed remainder n2 and signed quotient n3 from a double number dividend and divisor n1. The remainder takes its sign from the dividend.
M/MOD	FORTH	no	Math	ud1 u2 u3 ud4	-	An unsigned mixed magnitude math operation which leaves a double quotient ud4 and remainder u3, from a double dividend ud1 and single divisor u2
MAX	FORTH	no	Math	n1 n2 max	-	Leave the greater of two numbers
MIN	FORTH	no	Math	n1 n2 min	-	Leave the smaller of two numbers.
MINUS	FORTH	no	Math	n1 n2	-	Leave the two's complement of a number
MOD	FORTH	no	Math	n1 n2 mod		Leave the remainder of n1/n2, with the same sign as n1
OR	FORTH	no	Math	n1 n2 or	-	Leave the bit-wise logical or of two l6 bit values
S->D	FORTH	no	Math	n d	-	Sign extend a single number to form a double number
TOGGLE	FORTH	no	Math	addr b	-	Complement the contents of addr by the bit pattern b
U*	FORTH	no	Math	u1 u2 ud	-	Leave the unsigned double number product of two unsigned numbers
U/	FORTH	no	Math	ud u1 u2 u3	-	Leave the unsigned remainder u2 and unsigned quotient u3 from the unsigned double dividend ud and unsigned divisor u1.

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Word	Vocab	New Word	Туре	Stack Diagram	Usage	Description
XOR	Forth	no	Math	n1 n2 xor	-	Leave the bitwise logical exclusive or of two values
!	FORTH	no	Memory	n addr	-	Store 16 bits of n at address. Pronounced "store".
	FORTH	no	Memory	n		Store n into the next available dictionary memory cell, advancing the dictionary pointer.
,	FORTH	110	Memory	11	-	(pronounced comma)
						Leave the memory address relative by n to the origin parameter area. n is the minimum address
+ORIGIN	FORTH	no	Memory	n addr	-	unit, either byte or word. This definition is used to access or modify the boot-up parameters at the
						origin area.
ALLOT	FORTH		Mamani			Add the signed number to the dictionary pointer DP. May be used to reserve dictionary space or re
ALLOT	FORTH	no	Memory	n	-	origin memory. n is with regard to computer address type (byte or word)
C!	FORTH	no	Memory	b addr	-	Store 8 bits at address.
C,	FORTH	no	Memory	b	-	Store 8 bits of b into the next available dictionary byte, advancing the dictionary pointer.
C@	FORTH	no	Memory	addr b	-	Leave the 8 bit contents of memory address.
CMOVE	FORTH	no	Memory	from to count	-	Move the specified quantity of bytes beginning at address from to address to.
	FORTIL					A user variable, the dictionary pointer, which contains the address of the next free memory above
DP	FORTH	no	Memory	addr	-	the dictionary. The value may be read by HERE and altered by ALLOT
ERASE	FORTH	no	Memory	addr n	-	Clear a region of memory to zero from addr over n addresses
FILL	FORTH	no	Memory	addr quan b -	-	Fill memory at the address with the specified quantity of bytes b.
	FORTIL					A constant leaving the address just above the highest memory available for a (disc) buffer.
LIMIT	FORTH	no	Memory	n	-	Usually this is the highest system memory
HALT	FORTH	yes	Multitasking		n HALT	Cause task n to stopt executing and go dormant
PAUSE	FORTH	yes	Multitasking		-	used by a task to cooperatively release execution control for one pass of the multitasker
RUN	FORTH	yes	Multitasking	task#	-	Sets the state of task# to cause it to run when the mulittasker next gets to it
START	FORTH	yes	Multitasking	n	n START taskname	Finds taskname in current dictionary and adds to the task control table as task n
TASK#	FORTH	yes	Multitasking	n	-	returns the current task's number (to itself)
TIC	FORTH	yes	Multitasking	tics	-	pauses current task for tics intervals (actual time depends on system tic timer interrupt value)
(.")	FORTH	no	Run-time		see .'"	The run-time procedure, compiled by ." which transmits the following in-line text to the selected output device.
						The run-time procedure, compiled by ;CODE, that rewrites the code field of the most recently
(;CODE)	FORTH	no	Run-time		see ;CODE	defined word to point to the following machine code sequence.
						The run-time procedure compiled by +LOOP, which increments the loop index by n and tests for
(+LOOP)	FORTH	no	Run-time		see +LOOP	loop completion.
						Executes after an error when WARNING is -1. This word normally executes ABORT, but may be
(ABORT)	FORTH	no	Run-time		-	altered (with care) to a user's alternative procedure.
(5.5)						The run-time procedure compiled by DO which moves the loop control parameters to the return
(DO)	FORTH	no	Run-time		see DO	stack.
						Searches the dictionary starting at the name field address addr2, matching to the text at addr1.
(FIND)	FORTH	no	Run-time	addr1 addr2 pfa b tf (ok)	-	Returns parameter field address, length byte of name field and boolean true for a good match. If
. ,				addr1 addr2 ff (bad)		no match is found, only a boolean false is left.
						Convert the line number n1 and the screen n2 to the disc buffer address containing the data. A
(LINE)	FORTH	no	Run-time	n1 n2 addr count	-	count of 64 indicates the full line text length.
						The run-time procedure compiled by LOOP which increments the loop index and tests for loop
(LOOP)	FORTH	no	Run-time		-	completion
@	FORTH	no	Stack	addr n	-	Leave the 16 bit contents of address
						Remove a number from the computation stack and place as the most accessible on the return
>R	FORTH	no	Stack	n	-	stack. Use should be balanced with R> in the same definition.
2DUP	FORTH	yes	Stack	n1 n2 n1 n2 n1 n2	-	duplicates top two number on the stack
DROP	FORTH	no	Stack	n	-	Drop the number from the stack
DUP	FORTH	no	Stack	n n n	-	Duplicate the value on the stack
אטע	LOKIU	110	SIDUK	11 11 11	-	Duplicate the value of the stack

Word	Vocab	New Word	Туре	Stack Diagram	Usage	Description
-DUP	FORTH	no	Stack	n1 n1 (if zero) n1 n1 n1 (non-zero)	-	Reproduce n1 only if it is non-zero. This is usually used to copy a value just before IF, to eliminate the need for an ELSE part to drop it.
NIP	FORTH	ves	Stack	n1 n2 n2	-	Removes the number second from the top of stack.
OVER	FORTH	no	Stack	n1 n2 n1 n2 n1	_	copy the second stack value, placing it as the new top
PICK	FORTH	yes	Stack	index n	_	Places the value of stack element index onto the top of stack
R	FORTH	no	Stack	n	_	Copy the top of the return stack to the computation stack.
R>	FORTH	no	Stack	n	See >R and R.	Remove the top value from the return stack and leave it on the computation stack. See >R and R.
R0	FORTH	no	Stack	addr	See >R and R	A user variable containing the initial location of the return stack. Pronounced R-zero.
ROT	FORTH	no	Stack	n1 n2 n3 n2 n3 n1	-	Rotate the top three values on the stack, bringing the third to the top.
-ROT	FORTH	yes	Stack	n1 n2 n3 n3 n1 n2	-	Counter rotate the top three values on the stack, bringing the second to the top
RP!	FORTH	no	Stack		-	Initialize the return stack pointer from user variable R0.
S0	FORTH	no	Stack	addr	See SP!	A user variable that contains the initial value for the stack pointer.
SP!	FORTH	no	Stack		-	initialize the stack pointer from SO.
SP@	FORTH	no	Stack	addr	-	Return the address of the stack position to the top of the stack, as it was before SP@ was executed
SWAP	FORTH	no	Stack	n1 n2 n2 n1		Exchange the top two values On the stack.
TUCK	FORTH	yes	Stack	n1 n2 n2 n1 n 2	<del>-</del>	copies top of stack and inserts as third item on stack
!CSP	FORTH	no	System		<del>-</del>	Save the stack position in CSP. Used as part of the compiler security.
LATEST	FORTH	no	Vocabulary	addr	<del>-</del>	Leave the name field address of the topmost word in the CURRENT vocabulary
ORIGIN	FORTH		vocabulary	addr	-	Constant value that returns the base address of USER variables
#LAG		no	Editor			
	EDITOR	Yes	Editor			editor internal use
#LEAD	EDITOR	Yes	Editor			editor internal use
#LOCATE	EDITOR	Yes	Editor			editor internal use
1LINE	EDITOR	Yes	Editor			editor internal use
В .	EDITOR	Yes	Editor			back up over text found by F
b	EDITOR	Yes	Editor			editor internal use
С	EDITOR	Yes	Editor		C text	spead and copy in text at cursor
CLEAR	EDITOR	Yes	Editor	n		clear screen n to blanks
СОРҮ	EDITOR	Yes	Editor	n1 n2		copy screen n1 to n2
D	EDITOR	Yes	Editor	n		delete line n to PAD (i.e. cut)
DELETE	EDITOR	Yes	Editor	n		deleted n characters before the current cursor position
E	EDITOR	Yes	Editor	n		erase line n with blanks
F	EDITOR	Yes	Editor		F text	move text to PAD and search forward
f	EDITOR	Yes	Editor			editor internal use
find	EDITOR	Yes	Editor			editor internal use
Н	EDITOR	Yes	Editor	n		hold line N at PAD ( i.e. copy)
I	EDITOR	Yes	Editor	n		insert text from PAD at line n
L	EDITOR	Yes	Editor			lists the current screen
LINE	EDITOR	Yes	Editor			editor internal use
М	EDITOR	Yes	Editor	n		moves the cursos by the signed about n
MATCH	EDITOR	Yes	Editor			editor internal use
-MOVE	EDITOR	Yes	Editor			editor internal use
N	EDITOR	Yes	Editor			find next occurance of text moved to PAD by F
Р	EDITOR	Yes	Editor	n	P text	overwrite line n with text
R	EDITOR	Yes	Editor			editor internal use
S	EDITOR	Yes	Editor	n		spread at line n, moving subsequent lines down
T	EDITOR	Yes	Editor	n		type line n and save in PAD
TEXT	EDITOR	Yes	Editor			editor internal use

Word	Vocab	New Word	Туре	Stack Diagram	Usage	Description
TILL	EDITOR	Yes	Editor		TILL text	deleted text from cursos to text
TOP	EDITOR	Yes	Editor			positions the cursor at the top of the current screen
Х	EDITOR	Yes	Editor		X text	find and delete text
LIST	EDITOR	No	Forth	n		lists screen n on the console
?FAULT	ASSEMBLER	yes	1802 Assembler	addr1 addr2		used by compiler to detect off page short branches
AGAIN,	ASSEMBLER	yes	1802 Assembler		BEGIN, code AGAIN,	inserts a BR instruction back to where the IF, statement was
DF	ASSEMBLER	yes	1802 Assembler			inserts a BNF instruction
EF1	ASSEMBLER	yes	1802 Assembler			inserts a BN1 instruction
EF2	ASSEMBLER	yes	1802 Assembler			inserts a BN2 instruction
EF3	ASSEMBLER	yes	1802 Assembler			inserts a BN3 instruction
EF4	ASSEMBLER	yes	1802 Assembler			inserts a BN4 instruction
ELSE,	ASSEMBLER	yes	1802 Assembler			modifies the previous IF, instructions false code target address to current location
ENDIF,	ASSEMBLER	yes	1802 Assembler			modifies the previous IF, instructions true code target address to current location
IF,	ASSEMBLER	yes	1802 Assembler		test IF, code ELSE, code ENDIF,	1802 op code
NEXT	ASSEMBLER	yes	1802 Assembler			1802 op code
NOT	ASSEMBLER	yes	1802 Assembler			converts previous branch if false instruction to branch if true
Q	ASSEMBLER	yes	1802 Assembler			inserts a BNQ instruction
UNTIL,	ASSEMBLER	yes	1802 Assembler		BEGIN code test UNTIL,	inserts a branch address back to BEGIN, for previous conditional instruction
WHILE,	ASSEMBLER	yes	1802 Assembler		BEGIN test WHILE, code REPEAT,	inserts a branch address for following UNTIL,
Z	ASSEMBLER	yes	1802 Assembler			1802 op code
ADC,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
ADCI,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
ADD,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
ADI,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
AND,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
ANI,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
BEGIN,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
BR,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
DEC,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
DIS,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
GHI,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
GLO,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
IDL,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
INC,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
INP,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
IRX,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
LBR,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
LDA,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
LDI,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
LDN,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
LDX,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
LDXA,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
MARK,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
NOP,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
OR,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
ORI,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
OUT,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
PHI,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
PLO,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
		,	1			r

Word	Vocab	New Word	Туре	Stack Diagram	Usage	Description
REQ,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
RET,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SAV,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SD,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SDB,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SDBI,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SDI,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SEP,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SEQ,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SEX,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SHL,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SHLC,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SHR,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SHRC,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SM,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SMB,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SMBI,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
SMI,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
STR,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
STXD,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
XOR,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
XRI,	ASSEMBLER	yes	1802 Assembler Mnemonic			1802 op code
CODE	ASSEMBLER	no	Compiler			1802 op code
REPEAT,	ASSEMBLER	yes	Execution control			inserts a BR instruction back to where the BEGIN, statement was

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