

Forth-79	Forth-83	dpANS	FIG	eForth	RETRO
!	!	!	0	!	DUP
#	#	#	1	!IO	DROP
#>	#>	#>	2	0<	SWAP
#S	#S	#S	3	>R	CALL
'	#TIB	'	!	?BRANCH	EQ?
(	'	(	!CSP	?RX	-EQ?
*	(	*	#	@	LT?
*/	*	*/	#>	AND	GT?
*/MOD	*/	*/MOD	#S	BRANCH	FETCH
+	*/MOD	+	'	BYE	STORE
+!	+	+!	(	C!	+
+LOOP	+!	+LOOP	(+LOOP)	C@	-
+LOOP	+LOOP	,	(. ")	doLIST	*
,	,	-	(;CODE)	doLIT	/MOD
-	-	.	(ABORT)	DROP	AND
-TRAILING	-TRAILING	."	(DO)	DUP	OR
.	.	/	(FIND)	EXECUTE	XOR
."	."	/MOD	(LINE)	EXIT	SHIFT
/	.(	0<	(LOOP)	NEXT	FETCH-NEXT
/MOD	/	0=	(NUMBER)	OR	STORE-NEXT
0<	/MOD	1+	*	OVER	PUSH
0=	0<	1-	*/	R>	POP
0>	0=	2!	*/MOD	R@	0;
1+	0>	2*	+	RP!	S:TO-NUMBER
1-	1+	2/	+!	RP@	S:EQ?
2+	1-	2@	+-	SP!	S:LENGTH
2-	2+	2DROP	+BUF	SP@	CHOOSE
79-STANDARD	2-	2DUP	+LOOP	SWAP	IF
:	2/	2OVER	+ORIGIN	TX!	-IF
:	:	2SWAP	,	UM+	COMPILER
;	;	:	-	XOR	HEAP
;	<	;	-->		,
<	<#	<	-DUP		S,
<#	>	<#	-FIND		;
>	>BODY	>	-LINE		[
>IN	>IN	>BODY	-TRAILING]
>R	>R	>IN	.		DICTIONARY
?	?DUP	>NUMBER	."		D:LINK
?DUP	@	>R	.R		D:XT
@	[	?DUP	/		D:CLASS
[	[']	@	/MOD		D:NAME
[COMPILE]	[COMPILE]	[	0<		CLASS:WORD
]	MOD	[']	0=		CLASS:PRIMITIVE
ABORT	ABORT	[CHAR]	0BRANCH		CLASS:MACRO
ABS	ABORT"	]	1+		CLASS:DATA
ALLOT	ABS	ABORT	2+		D:ADD-HEADER
AND	ALLOT	ABORT"	;		PREFIX:#
BASE	BASE	ABS	;CODE		PREFIX:.
BEGIN	BEGIN	ACCEPT	;S		PREFIX:&
BEGIN	BLK	ALIGN	<		PREFIX:\$
BLK	BLOCK	ALIGNED	<#		REPEAT
BLOCK	BUFFER	ALLOT	<BUILDS		AGAIN
BUFFER	C!	AND	>		INTERPRET
C!	C@	BASE	>R		D:LOOKUP
C@	CMOVE	BEGIN	?		ERR:NOTFOUND
CMOVE	CMOVE>	BL	?COMP		
COLON	COMPILE	C!	?CSP		
COMPILE	CONSTANT	C,	?EXEC		
CONSTANT	CONVERT	C@	?LOADING		
CONSTANT	COUNT	CELL+	?PAIRS		
CONTEXT	CR	CELLS	?STACK		
CONVERT	CREATE	CHAR	?TERMINAL		
COUNT	D+	CHAR+	@		
CR	D<	CHARS	[
CREATE	DECIMAL	CONSTANT	[COMPILE]		
CREATE	DEFINITIONS	COUNT]		
CURRENT	DEPTH	CR	ABORT		
D+	DNEGATE	CREATE	ABS		

D<
DECIMAL
DEFINITIONS
DEPTH
DNEGATE
DO
DO
DOES>
DOES>
DROP
DUP
ELSE
ELSE
EMIT
EMPTY-BUFFERS
EXECUTE
EXIT
EXPECT
FILL
FIND
FORGET
FORTH
HERE
HOLD
I
IF
IF
IMMEDIATE
J
KEY
LEAVE
LIST
LITERAL
LITERAL
LOAD
LOOP
LOOP
MAX
MIN
MOD
MOVE
NEGATE
NOT
OR
OVER
PAD
PICK
QUERY
QUIT
R>
R@
REPEAT
REPEAT
ROLL
ROT
SAVE-BUFFERS
SCR
SEMICOLON
SIGN
SPACE
SPACES
STATE
SWAP
THEN
TIB
TYPE
U.
U<
UM*
UM/MOD
UNTIL
UPDATE
VARIABLE
VOCABULARY
WHILE
WORD
XOR
=
U/
U/

DO
DOES>
DROP
DUP
ELSE
EMIT
EXECUTE
EXIT
EXPECT
FILL
FIND
FLUSH
FORGET
FORTH
FORTH-83
HERE
HOLD
I
IF
IMMEDIATE
J
KEY
LEAVE
LITERAL
LOAD
LOOP
MAX
MIN
MOD
NEGATE
NOT
OR
OVER
PAD
PICK
QUIT
R>
R@
REPEAT
ROLL
ROT
SAVE-BUFFERS
SIGN
SPACE
SPACES
SPAN
STATE
SWAP
THEN
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TYPE
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UM*
UM/MOD
UNTIL
UPDATE
VARIABLE
VOCABULARY
WHILE
WORD
XOR
=
U/

DECIMAL
DEPTH
DO
DOES>
DROP
DUP
ELSE
EMIT
ENVIRONMENT?
EVALUATE
EXECUTE
EXIT
FILL
FIND
FM/MOD
HERE
HOLD
I
IF
IMMEDIATE
INVERT
J
KEY
LEAVE
LITERAL
LOOP
LSHIFT
M*
MAX
MIN
MOD
MOVE
NEGATE
OR
OVER
POSTPONE
QUIT
R>
R@
RECURSE
REPEAT
ROT
RSHIFT
S"
S>D
SIGN
SM/REM
SOURCE
SPACE
SPACES
STATE
SWAP
THEN
TYPE
U.
U<
UM*
UM/MOD
UNLOOP
UNTIL
VARIABLE
WHILE
WORD
XOR
=
U/

AGAIN
ALLOT
AND
B/BUF
B/SCR
BACK
BASE
BEGIN
BL
BLANKS
BLK
BLOCK
BLOCK-READ
BLOCK-WRITE
BRANCH
BUFFER
C!
C,
C@
CFA
CMOVE
COLD
COMPILE
CONSTANT
CONTEXT
COUNT
CR
CREATE
CSP
D+
D+-
D.
D.R
DABS
DECIMAL
DEFINITIONS
DIGIT
DLIST
DLITERAL
DMINUS
DO
DO
DOES>
DP
DPL
DR0
DR1
DROP
DUMP
DUP
ELSE
EMIT
EMPTY-BUFFERS
ENCLOSE
END
ENDIF
ERASE
ERROR
ERROR
EXECUTE
EXPECT
FENCE
FILL
FIRST
FLD
FORGET
FORTH
HERE
HEX

UNTIL
UNTIL
UPDATE
VARIABLE
VARIABLE
VOCABULARY
WHILE
WHILE
WORD
XOR
=

HLD
HOLD
I
ID.
IF
IMMEDIATE
IN
INDEX
INTERPRET
KEY
LATEST
LEAVE
LFA
LIMIT
LIST
LIT
LITERAL
LOAD
LOOP
M*
M/
M/MOD
MAX
MESSAGE
MIN
MINUS
MOD
MON
MOVE
NEXT
NFA
NUMBER
OFFSET
OR
OUT
OVER
PAD
PFA
POP
POP
PREV
PUSH
QUERY
QUIT
R
R#
R/W
R>
R@
REPEAT
ROT
RP!
S0
SCR
SIGN
SMUDGE
SP!
SP@
SPACE
SPACES
STATE
SWAP
S→D
TASK
THEN
TIB
TOGGLE
TRAVERSE
TRIAD

			TYPE U* U/ UNTIL UPDATE USE USER VARIABLE VLIST VOC-LINK VOCABULARY WARNING WHILE WIDTH WORD X XOR =		
--	--	--	---	--	--