Library files ¹Available with CAMEL99 Forth

The best way to know what is in the library files is to read them. The comments should explain what is going on and in most cases there is also example code that you can use to try the features of the library yourself.

Fast move 3 rd or 4 th item to top of stack 80COL FI8 card only. Switch to 80 column mode 9902C RS232 driver written in Forth 9902CODE RS232 driver written in Forth with Assembler (faster) 9902D RS232 driver written in Forth with Assembler assistance 88232 driver translated to machine code. No assembler needed ANSFILES ASM9900 RS232 driver translated to machine code. No assembler needed ANSFILES ASM9900 TMS9900 Forth Assembler AUTORAUD AUTOMOTION Automatic sprite motion like Extended BASIC BASICHLP BASICHLP Load file to include files needed for BASIC programmers EFELOCKS Empty block file for use with DSK1.BLOCKS SEMPTY block file for use with DSK1.BLOCKS Create and Open Forth block file. (Like FDForth, TurboForth) ELWF Call subprograms that you write, from Forth BOOLEAN Create and manage arrays of bits. Very compact RREAK A word to emulate BASIC Fort 4 key BUFFER FORTH 2012 word to create a buffer CALLCHAR Interpreting word to convert a string to char pattern CAMEL99 Torth CAMEL99 Forth Kernel. (8K bytes) ANS/ISO Forth case statement CATALOG implements CAT to list the contents of a disk drive CELLS Shows implementation of CODE, ENDCODE. (Now in DSK1.SYSTEM) CHARS CHAR Show implementation of CODE, ENDCODE. (Now in DSK1.SYSTEM) CHARSET Like X-BASIC. Restores default characters. Show GROM access CLOSEALL CLOSEs all open files. Includes DSK1.ANSFILES CODE Shows implementation of BASIC to Forth example COLEMACROS Tools to make fast data access macros and arrays CONDCOMP Implements COMPILIANCE CRU, CRU2 Two flavours of CRU word set. CRU is smaller. DATABYTE Demo program. Translation of BASIC to Forth example Implements DATA and BYTE directives like Assmbly Language Implements DATA and BYTE directives like Assmbly Language Implements "direct" Sprite control. (no automotion) DOTLINES LINES can print the number of lines compiled in a file DOUBLE Double integer wordset for 32bit math	File Name	Description
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ENUM Provides enumatorated CONSTANTs	ELAPSE	ELAPSE times the runtime of code up to 9 minutes
	ENUM	Provides enumatorated CONSTANTs

 $^{1\,1}$ New library files are added to the CAMEL99-V2 GITHUB repository so check the LIB.ITC folder for more tools and language extensions

File Name Description

FASTCASE Vector table creator. (similar to ON GOTO)

FILECOPY COPY command to copy a DV80 file

FLOORED Examples of floored and symetrical division in Forth

GRAFIX VCHAR, HCHAR and other words from TI-BASIC

HELLO 1st program demonstration

HEXNUMBER H# is a directive to force HEX number interpretation
HEXQUOTE Converts a hex string to integers for character defintions

INCLUDE Definition of INCLUDE. Part of DSK1.SYSTEM

INLINE Compiler for inline code from the kernel. Speedup.

INPUT Emulates BASIC INPUT command ISRTEST RS232 Interrupt routine test code.

LDCRSTCR CRU commands from TI-Forth written for CAMEL99
LINEDIT Simple line editor for use with block files.
LINEDIT80 Simple line editor for 80 column display

LINPUT Emulates X-BASIC LINPUT command
LISTS Words to create and manipulate lists

LOADSAVE Words to LOAD and SAVE VDP memory very quickly

MARKER Marks point in dictioary that can be removed

MORE Display a DV80 file

MOTION Words to manage direct sprite motion in your program MSTAR Forth word to multiply 2 integers with 32bit result

MTASK99 Multi-tasking system for CAMEL99 Forth

MTOOLS Tools to examine tasks

NEEDFROM Simple and small conditional compiling control

NEWBLOCKS BLOCK file for use with BLOCKS

PARSNAME Parse 1 piece of text

POLYSOUND Experimental backgorund sound using interrupts for timing PROG Directive to create CODE words with their own workspace

QUASIV2 Sprite demonstration program

RANDOM Random number generator RKEY Repeating key routine

SAMS SAMS 1Mbyte memory card access in machine code

SAMS32 SAMS card using 32bit addressing

SAMS32BIT SAMS card using 32bit addressing variation SAMSFTH SAMS card access written in only Forth SEARCH Forth 2012 SEARCH word implementation

SEE Forth decompiler

SMPLSND Minimal code for sound chip control
SMPTE Demo Colour Bars howing Graphics mode

SNDCOMP Sound compiler builds sound lists from text commands

SOUND Standard CAMEL99 Sound control lexicon

SQUOTE Forth 2012 extendion to S" allows multiple strings per line

START The first file that CAMEL99 reads when it starts

STOD "single to double" converts 16 bit no, to 32bit number (signed)

STRINGS Gives string commands similar to TI-BASIC

STRUC12 Forth 2012 data structure words

SYNONYM Allows creation of different words with same function

SYSTEM Loaded by START to add final Forth CORE words to the system

File Name Description

TARGLOOPS Implements Forth Loops and IF/ELSE/THEN. *TEACHING FILE*

TIRAND TI-FORTH random number generator if you need it

TOOLS Programmers tools DUMP, .S WORDS etc.
TRACE TRACE utility adapted from TI-Forth

TRAILING Strip trailing spaces from a string. Also -LEADING & TRIM

TRIG Trig functions using lookup table
TTY1 Terminal on RS232 code. (no tested)

UDOTR "Un-signed dot R", prints numbers right-justified

VALUES are like constants that can be changed VBYTEQ Implement a circular byte queue in VDP RAM

VDPBGSND Built sound lists in VDP RAM with Multi-tasking player
VDPDOTQ VDP dot quote: builds text strings VDP RAM to save space

VDPEXTRA Machine code routines used by TTY Forth

VDPEXTRAS Same as VDPextra but with Assembly source code

VDPMEM VDP memory manager word

VDPSAVE Generic LOAD and SAVE VDP ram at high speed

VDPSOUND VDP sound list creation with play. NON-Multi-tasking VDPSTRNG VDP memory based string library. Saves CPU RAM use

VDPTYPE Faster type to text on screen displays
VECTORIO Example of Vectoring I/O in Forth (untested)

VECTORIO Example of Vectoring 1/0 in Forth (untested VT100 VT100 terminal control for RS232 TTY Forth