Gforth 1.0

Header & Recognizers & IDE & SWIG & MINΩΣ2

Bernd Paysan

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IDE

Locate & Help & Where & Backtraces

Locate	Browse the source code
Help:	Browse the manual
Where	Show where words are used: nw/bw+cursors
Backtrace	Investigate a crash: bt/nt+cursors

New Headers 1

The Big Header Unification nt = xt = body

Name	-c-4	Name comes first
flags+counts	-4	Flags: up to 8 bits, count rest of the cell
Link Field	-3	To next header
Code Field	-2	Moved here
Name–HM	-1	Header method table, see next page
Body	0	This is where the xt points to

SWIG

Generate C bindings automatically

%.i file:	Helps SWIG find & understand C files
%-fsi.c file:	Intermediate file, compiled with C
%.fsx file:	Generates Forth bindings
%.fs file:	Forth bindings, generate binding library
Outlook	Create complete binding libraries with reflections

New Header 2

Header Method Table

Link	Pointer to previous VTable
compile,	method to compile the word
to	method to apply IS or TO
defer@	method for DEFER@
extra	method for DOES> (or other extras)
name>int	convert name token to interpretation semantics
name>comp	convert name token to compilation semantics
name>string	convert name token to string (if any)
name>link	follow link field (if any)

MINΩΣ2

Lightweight GUI library

Classes:	actors, widgets, boxes, viewports & animations
Widgets:	glue, tile, frame, icon, image, text, edit, part-text canvas, (video)
Boxes:	hbox, vbox, zbox, slider, parbox, (grid)

Recognizer

Minimalistic Core & Sequences & Unification

forth-recognize	Default–Recognizer as deferred Word
recognizer-sequence:	Sequence of recognizers
wordlists	are executable and recognizers
search order	is a rec-sequence:
translators	are executable, take (data -- ...)

Literatur & Links

Gforth Team   *Gforth Homepage*
🔗 https://gforth.org/