

StrongForth.f 3.1 Glossary: protected

class control-flow

#frozen (control-flow -- address -> unsigned)

address -> unsigned is the address of a cell containing the number of basic data types that have been frozen in control-flow.

'frozen (control-flow -- address -> address -> data-type)

address -> address -> data-type is the address of a cell containing a pointer to the data types that have been frozen in control-flow.

?congruent (control-flow --)

Compare the contents of the compilation data type heap with the data types frozen in control-flow. An exception is thrown if the data types do not exactly match. An ambiguous condition exists if ?congruent executes in interpretation state.

save (control-flow --)

Save a copy of the compiler data type heap in control-flow. The frozen copy can later be used to resolve a control-flow. An ambiguous condition exists if ?congruent executes in interpretation state.

class definition

#input-params (definition -- caddress -> unsigned)

caddress -> unsigned is the address of a character-size memory location containing the number of basic data types that constitute the input parameters of definition.

#name (definition -- caddress -> unsigned)

caddress -> unsigned is the address of a character-size memory location containing the length in characters of the name of definition. The length of the name is zero if definition has no name.

#params (definition -- caddress -> unsigned)

caddress -> unsigned is the address of a character-size memory location containing the number of basic data types that constitute the input and output parameters of definition.

'attributes (definition -- address -> logical)

address -> logical is the address of a cell containing the attributes of definition.

'link (definition -- address -> definition)

`address -> definition` is the address of a cell containing a link to the definition preceding `definition` in the vocabulary. The link is null if `definition` is the first definition of the vocabulary.

'name (definition -- address -> caddress -> character)

`address -> caddress -> character` is the address of a cell containing a pointer to the name of `definition`. The pointer is null if `definition` has no name.

'params (definition -- address -> address -> data-type)

`address -> address -> data-type` is the address of a cell containing a pointer to the list of input and output parameters of `definition`.

'token (definition -- address -> token)

`address -> token` is the address of a cell containing the execution token of `definition`. The execution token is actually the address of the first machine code instruction of `definition`.

link! (definition --)

Store `definition` in `latest`. Establish a link between `definition` and the most recent definition in the current vocabulary.

name! (caddress -> character unsigned definition --)

Allocate unsigned characters of dynamic memory. Copy unsigned characters starting at `caddress -> character` to the allocated memory. Make this character string the name of `definition`. The allocated memory is freed when `definition` is deleted.

class created-definition

'runtime (created-definition -- address -> code-definition)

`address -> code-definition` is the address of a cell containing a pointer to the runtime code of `created-definition`.

class single-definition

'value (single-definition -- address -> single)

`address -> single` is the address of a cell containing the single-cell literal value `single-definition` compiles.

class double-definition

'value (double-definition -- address -> double)

address -> double is the address of a cell containing the double-cell literal value
double-definition compiles.

class float-definition

'value (float-definition -- address -> float)

address -> float is the address of a cell containing the floating-point number
float-definition compiles.

class input-stream

#buffer (input-stream -- address -> unsigned)

address -> unsigned is the address of a cell containing the number of characters currently
in the input buffer used by input-stream.

'buffer (input-stream -- address -> caddress -> character)

address -> caddress -> character is the address of a cell containing a pointer to the
input buffer used by input-stream.

/buffer (input-stream -- address -> unsigned)

address -> unsigned is the address of a cell containing the size in characters of input buffer
used by input-stream.

class file-input-stream

'file (file-input-stream -- address -> file)

address -> file is the address of a cell containing the file handle of the input file associated
with file-input-stream.

>line (file-input-stream -- address -> unsigned)

address -> unsigned is the address of a cell containing the file position of the current line
of the input file associated file-input-stream.

class string-output-stream

'buffer (string-output-stream -- address -> caddress -> character) strongforth.sf

address -> caddress -> character is the address of a cell containing a pointer to the output buffer of string-output-stream.

/buffer (string-output-stream -- address -> unsigned) strongforth.sf

address -> unsigned is the address of a cell containing the size of the output buffer of string-output-stream in characters.

>out (string-output-stream -- address -> unsigned) strongforth.sf

address -> unsigned is the address of a cell containing the actual number of characters in the output buffer of string-output-stream.

class file-output-stream

'file (file-output-stream -- address -> file) strongforth.sf

address -> file is the address of a cell containing the output file of file-output-stream.