

StrongForth 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.

'location (control-flow -- address -> address)

address -> address is the address of a cell containing the origin or destination code address of control-flow.

'next-origin (control-flow -- address -> origin)

address -> origin is the address of a cell containing an additional origin related to control-flow, or null if there is no additional origin. These origins constitute a linked list.

?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`.

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 code-definition

#inline (code-definition -- caddress -> unsigned)

`caddress -> unsigned` is the address of a character-size memory location containing the number of bytes to compile `code-definition` as inline code. A value of zero indicates that the definition does not compile as inline code.

'token (code-definition -- address -> token)

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

token! (code-definition --)

Assign the current value of the code space pointer to the 'token member of code-definition.

class created-definition

'body (created-definition -- address -> address)

address -> address is the address of a cell containing a pointer to the data field of 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 complex-definition

```
'value ( complex-definition -- address -> complex )
```

address -> complex is the address of a cell containing the complex floating-point number complex-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 member-definition

```
'offset ( member-definition -- address -> unsigned )
```

address -> unsigned is the address of a cell containing the memory offset in bytes of the class member specified by member-definition within an object of the class it belongs to.

class bmember-definition

'length (bmember-definition -- caddress -> unsigned)

`caddress -> unsigned` is the address of a character-size item containing the length in bits of the class member specified by `bmember-definition`. An ambiguous condition exists if the length is zero or greater than the size of a cell in bits.

'position (bmember-definition -- caddress -> unsigned)

`caddress -> unsigned` is the address of a character-size item containing the position of the least significant bit of the class member specified by `bmember-definition` within a cell. An ambiguous condition exists if the position is greater than or equal to the size of a cell in bits.

class virtual-definition

'index (virtual-definition -- caddress -> unsigned)

`caddress -> unsigned` is the address of a character-size item containing the memory offset in cells of the virtual method specified by `virtual-definition` within the virtual method table of the class it belongs to.

class deferred-definition

#pop-params (deferred-definition -- caddress -> unsigned)

`caddress -> unsigned` is the address of a character-size item containing the number of cell-size parameters that have to be popped from the stack after calling the runtime code of `deferred-definition`.

'deferred (deferred-definition -- address -> address -> token)

`address -> address -> token` is the address of a cell containing a pointer to the token that is to be compiled by `deferred-definition`.

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 )
```

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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 )
```

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