
PyFranca Documentation

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Contents:

pyfranca.franca_processor module

class `pyfranca.franca_processor.Processor`

Bases: `object`

Franca IDL processor.

static `basename(namespace)`

Extract the type or namespace name from a Franca FQN.

import_file (*fspec, references=None, package_path=None*)

Parse an FIDL file and import it into the processor as package.

Parameters

- **fspec** – File specification.
- **references** – A list of package references.
- **package_path** – Additional model path to search for imports.

Returns The parsed `ast.Package`.

import_package (*fspec, package, references=None*)

Import an `ast.Package` into the processor.

Parameters

- **fspec** – File specification of the package.
- **package** – `ast.Package` object.
- **references** – A list of package references.

import_string (*fspec, fidl, references=None*)

Parse an FIDL string and import it into the processor as package.

Parameters

- **fspec** – File specification of the package.
- **fidl** – FIDL string.
- **references** – A list of package references.

Returns The parsed ast.Package.

static is_fqn (*string*)

Defines whether a Franca name is an ID or an FQN.

static package_name (*namespace*)

Extract the package name from a Franca FQN.

static resolve (*namespace, fqn*)

Resolve type references.

Parameters

- **namespace** – context ast.Namespace object.
- **fqn** – FQN or ID string.

Returns Dereferenced ast.Type object.

static resolve_namespace (*package, fqn*)

Resolve namespace references.

Parameters

- **package** – context ast.Package object.
- **fqn** – FQN or ID string.

Returns Dereferenced ast.Namespace object.

static split_fqn (*fqn*)

Split a Franca FQN into a tuple - package, namespace, and name.

exception `pyfranca.franca_processor.ProcessorException` (*message*)

Bases: `exceptions.Exception`

pyfranca.ast module

Franca abstract syntax tree representation.

exception `pyfranca.ast.ASTException` (*message*)

Bases: `exceptions.Exception`

class `pyfranca.ast.Argument` (*name, arg_type, comments=None*)

Bases: `object`

class `pyfranca.ast.Array` (*name, element_type, comments=None*)

Bases: `pyfranca.ast.ComplexType`

class `pyfranca.ast.Attribute` (*name, attr_type, flags=None, comments=None*)

Bases: `pyfranca.ast.Type`

class `pyfranca.ast.Boolean`

Bases: `pyfranca.ast.PrimitiveType`

class `pyfranca.ast.BooleanValue` (*value*)

Bases: `pyfranca.ast.Value`

```
class pyfranca.ast.Broadcast (name, flags=None, out_args=None, comments=None)
    Bases: pyfranca.ast.Type

class pyfranca.ast.ByteBuffer
    Bases: pyfranca.ast.PrimitiveType

class pyfranca.ast.ComplexType (comments=None)
    Bases: pyfranca.ast.Type

class pyfranca.ast.Constant (name, element_type, element_value, comments=None)
    Bases: pyfranca.ast.ComplexType

class pyfranca.ast.Double
    Bases: pyfranca.ast.PrimitiveType

class pyfranca.ast.DoubleValue (value)
    Bases: pyfranca.ast.Value

class pyfranca.ast.Enumeration (name, enumerators=None, extends=None, flags=None, comments=None)
    Bases: pyfranca.ast.ComplexType

class pyfranca.ast.Enumerator (name, value=None, comments=None)
    Bases: object

class pyfranca.ast.Float
    Bases: pyfranca.ast.PrimitiveType

class pyfranca.ast.FloatValue (value)
    Bases: pyfranca.ast.Value

class pyfranca.ast.Import (file_name, namespace=None)
    Bases: object

class pyfranca.ast.Int16
    Bases: pyfranca.ast.PrimitiveType

class pyfranca.ast.Int32
    Bases: pyfranca.ast.PrimitiveType

class pyfranca.ast.Int64
    Bases: pyfranca.ast.PrimitiveType

class pyfranca.ast.Int8
    Bases: pyfranca.ast.PrimitiveType

class pyfranca.ast.IntegerValue (value, base=10)
    Bases: pyfranca.ast.Value

    BINARY = 2
    DECIMAL = 10
    HEXADECIMAL = 16

class pyfranca.ast.Interface (name, flags=None, members=None, extends=None, comments=None)
    Bases: pyfranca.ast.Namespace

class pyfranca.ast.Map (name, key_type, value_type, comments=None)
    Bases: pyfranca.ast.ComplexType

class pyfranca.ast.Method (name, flags=None, in_args=None, out_args=None, errors=None, comments=None)
    Bases: pyfranca.ast.Type
```

```
class pyfranca.ast.Namespace (name, flags=None, members=None, comments=None)
    Bases: object

class pyfranca.ast.Package (name, file_name=None, imports=None, interfaces=None, typecollections=None, comments=None)
    Bases: object
    AST representation of a Franca package.

class pyfranca.ast.PrimitiveType
    Bases: pyfranca.ast.Type

class pyfranca.ast.Reference (name)
    Bases: pyfranca.ast.Type

class pyfranca.ast.String
    Bases: pyfranca.ast.PrimitiveType

class pyfranca.ast.StringValue (value)
    Bases: pyfranca.ast.Value

class pyfranca.ast.Struct (name, fields=None, extends=None, flags=None, comments=None)
    Bases: pyfranca.ast.ComplexType

class pyfranca.ast.StructField (name, field_type, comments=None)
    Bases: object

class pyfranca.ast.Type (name=None, comments=None)
    Bases: object

class pyfranca.ast.TypeCollection (name, flags=None, members=None, comments=None)
    Bases: pyfranca.ast.Namespace

class pyfranca.ast.Typedef (name, base_type, comments=None)
    Bases: pyfranca.ast.Type

class pyfranca.ast.UInt16
    Bases: pyfranca.ast.PrimitiveType

class pyfranca.ast.UInt32
    Bases: pyfranca.ast.PrimitiveType

class pyfranca.ast.UInt64
    Bases: pyfranca.ast.PrimitiveType

class pyfranca.ast.UInt8
    Bases: pyfranca.ast.PrimitiveType

class pyfranca.ast.Value (value, value_type=None)
    Bases: pyfranca.ast.Type

class pyfranca.ast.Version (major, minor)
    Bases: object
```

pyfranca.franca_parser module

Franca parser.

```
class pyfranca.franca_parser.ArgumentGroup (arguments=None)
    Bases: object
```

```

class pyfranca.franca_parser.ErrorArgumentGroup (arguments=None)
    Bases: pyfranca.franca_parser.ArgumentGroup

class pyfranca.franca_parser.InArgumentGroup (arguments=None)
    Bases: pyfranca.franca_parser.ArgumentGroup

class pyfranca.franca_parser.OutArgumentGroup (arguments=None)
    Bases: pyfranca.franca_parser.ArgumentGroup

class pyfranca.franca_parser.Parser (the_lexer=None, **kwargs)
    Bases: object

    Franca IDL PLY parser.

    static p_arg_def (p)
        arg_def : structured_comment type ID

    static p_arg_defs_1 (p)
        arg_defs : arg_defs arg_def

    static p_arg_defs_2 (p)
        arg_defs : arg_def

    static p_arg_group_def_1 (p)
        arg_group_def : IN '{ arg_defs '}'

    static p_arg_group_def_2 (p)
        arg_group_def : OUT '{ arg_defs '}'

    static p_arg_group_def_3 (p)
        arg_group_def : ERROR '{ enumerators '}'

    static p_arg_group_def_4 (p)
        arg_group_def : ERROR type

    static p_arg_group_defs_1 (p)
        arg_group_defs : arg_group_defs arg_group_def

    static p_arg_group_defs_2 (p)
        arg_group_defs : arg_group_def

    static p_arg_group_defs_3 (p)
        arg_group_defs : empty

    static p_array_def (p)
        array_def : structured_comment ARRAY ID OF type

    static p_attribute_def (p)
        attribute_def : structured_comment ATTRIBUTE type ID flag_defs

    static p_boolean_val (p)
        boolean_val : BOOLEAN_VAL

    static p_broadcast_def (p)
        broadcast_def : structured_comment BROADCAST ID flag_defs '{ arg_group_defs '}'

    static p_constant_def_1 (p)
        constant_def [structured_comment CONST INT8 ID '=' integer_val]
            structured_comment CONST INT16 ID '=' integer_val
            structured_comment CONST INT32 ID '=' integer_val
            structured_comment CONST INT64 ID '=' integer_val
            structured_comment CONST UINT8 ID '=' integer_val

```

```
structured_comment CONST UINT16 ID '=' integer_val
structured_comment CONST UINT32 ID '=' integer_val
structured_comment CONST UINT64 ID '=' integer_val
```

static p_constant_def_2 (*p*)

constant_def [structured_comment CONST INT8 ID '=' boolean_val]

```
structured_comment CONST INT16 ID '=' boolean_val
structured_comment CONST INT32 ID '=' boolean_val
structured_comment CONST INT64 ID '=' boolean_val
structured_comment CONST UINT8 ID '=' boolean_val
structured_comment CONST UINT16 ID '=' boolean_val
structured_comment CONST UINT32 ID '=' boolean_val
structured_comment CONST UINT64 ID '=' boolean_val
structured_comment CONST INT8 ID '=' real_val
structured_comment CONST INT16 ID '=' real_val
structured_comment CONST INT32 ID '=' real_val
structured_comment CONST INT64 ID '=' real_val
structured_comment CONST UINT8 ID '=' real_val
structured_comment CONST UINT16 ID '=' real_val
structured_comment CONST UINT32 ID '=' real_val
structured_comment CONST UINT64 ID '=' real_val
```

static p_constant_def_3 (*p*)

constant_def [structured_comment CONST FLOAT ID '=' integer_val]

```
structured_comment CONST FLOAT ID '=' boolean_val
structured_comment CONST FLOAT ID '=' real_val
```

static p_constant_def_4 (*p*)

constant_def [structured_comment CONST DOUBLE ID '=' integer_val]

```
structured_comment CONST DOUBLE ID '=' boolean_val
structured_comment CONST DOUBLE ID '=' real_val
```

static p_constant_def_5 (*p*)

constant_def : structured_comment CONST BOOLEAN ID '=' value

static p_constant_def_6 (*p*)

constant_def : structured_comment CONST STRING ID '=' value

static p_defs_1 (*p*)

defs : defs def

static p_defs_2 (*p*)

defs : def

static p_defs_3 (*p*)

defs : empty

static p_empty (*p*)

empty :

static p_enumeration_def_1 (*p*)

enumeration_def : structured_comment ENUMERATION ID '{' enumerators '}'

```

static p_enumeration_def_2 (p)
    enumeration_def : structured_comment ENUMERATION ID EXTENDS fq_n ‘{‘ enumerators ‘}’

static p_enumerator_1 (p)
    enumerator : structured_comment ID

static p_enumerator_2 (p)
    enumerator : structured_comment ID ‘=’ integer_val

static p_enumerators_1 (p)
    enumerators : enumerators enumerator

static p_enumerators_2 (p)
    enumerators : enumerator

static p_enumerators_3 (p)
    enumerators : empty

static p_error (p)

static p_flag_def (p)
    flag_def [SELECTIVE]
        FIREANDFORGET
        POLYMORPHIC
        NOSUBSCRIPTIONS
        READONLY

static p_flag_defs_1 (p)
    flag_defs : flag_defs flag_def

static p_flag_defs_2 (p)
    flag_defs : flag_def

static p_flag_defs_3 (p)
    flag_defs : empty

static p_fqn_1 (p)
    fq_n : ID ‘.’ fq_n

static p_fqn_2 (p)
    fq_n : ID

static p_fqn_3 (p)
    fq_n : ‘*’

static p_import_def_1 (p)
    def : IMPORT fq_n FROM STRING_VAL

static p_import_def_2 (p)
    def : IMPORT MODEL STRING_VAL

static p_integer_val (p)
    integer_val : INTEGER_VAL

static p_integer_val_2 (p)
    integer_val : HEXADECIMAL_VAL

static p_integer_val_3 (p)
    integer_val : BINARY_VAL

static p_interface_1 (p)
    def : structured_comment INTERFACE ID ‘{‘ interface_members ‘}’

```

```
static p_interface_2 (p)  
    def : structured_comment INTERFACE ID EXTENDS fqn ‘{ ‘ interface_members ‘}’  
  
static p_interface_member (p)  
    interface_member [version_def]  
        attribute_def  
        method_def  
        broadcast_def  
        type_def  
        enumeration_def  
        struct_def  
        array_def  
        map_def  
        constant_def  
  
static p_interface_members_1 (p)  
    interface_members : interface_members interface_member  
  
static p_interface_members_2 (p)  
    interface_members : interface_member  
  
static p_interface_members_3 (p)  
    interface_members : empty  
  
static p_map_def (p)  
    map_def : structured_comment MAP ID ‘{ ‘ type TO type ‘}’  
  
static p_method_def (p)  
    method_def : structured_comment METHOD ID flag_defs ‘{ ‘ arg_group_defs ‘}’  
  
static p_package_def (p)  
    package_def : structured_comment PACKAGE fqn defs  
  
static p_real_val (p)  
    real_val : REAL_VAL  
  
static p_string_val (p)  
    string_val : STRING_VAL  
  
static p_struct_def_1 (p)  
    struct_def : structured_comment STRUCT ID flag_defs ‘{ ‘ struct_fields ‘}’  
  
static p_struct_def_2 (p)  
    struct_def : structured_comment STRUCT ID EXTENDS fqn ‘{ ‘ struct_fields ‘}’  
  
static p_struct_field (p)  
    struct_field : structured_comment type ID  
  
static p_struct_fields_1 (p)  
    struct_fields : struct_fields struct_field  
  
static p_struct_fields_2 (p)  
    struct_fields : struct_field  
  
static p_struct_fields_3 (p)  
    struct_fields : empty  
  
static p_structured_comment_1 (p)  
    structured_comment : STRUCTURED_COMMENT
```

```
static p_structured_comment_2 (p)
    structured_comment : empty

static p_type_1 (p)
    type [INT8]
        INT16
        INT32
        INT64
        UINT8
        UINT16
        UINT32
        UINT64
        BOOLEAN
        FLOAT
        DOUBLE
        STRING
        BYTEBUFFER

static p_type_2 (p)
    type [INT8 '[' ']']
        INT16 '[' ']'
        INT32 '[' ']'
        INT64 '[' ']'
        UINT8 '[' ']'
        UINT16 '[' ']'
        UINT32 '[' ']'
        UINT64 '[' ']'
        BOOLEAN '[' ']'
        FLOAT '[' ']'
        DOUBLE '[' ']'
        STRING '[' ']'
        BYTEBUFFER '[' ']'

static p_type_3 (p)
    type : fqcn

static p_type_4 (p)
    type : fqcn '[' ']'

static p_type_def (p)
    type_def : structured_comment TYPEDEF ID IS type

static p_typecollection (p)
    def : structured_comment TYPECOLLECTION ID '{' 'typecollection_members '}'

static p_typecollection_member (p)
    typecollection_member [version_def]
        type_def
        enumeration_def
        struct_def
        array_def
```

```
        map_def
        constant_def

    static p_typecollection_members_1(p)
        typecollection_members : typecollection_members typecollection_member

    static p_typecollection_members_2(p)
        typecollection_members : typecollection_member

    static p_typecollection_members_3(p)
        typecollection_members : empty

    static p_value(p)
        value [boolean_val
              string_val
              real_val
              integer_val

    static p_version_def(p)
        version_def : VERSION '{ ' MAJOR INTEGER_VAL MINOR INTEGER_VAL '}'

    parse(fidl)
        Parse input text

        Parameters fidl – Input text to parse.

        Returns AST representation of the input.

    parse_file(fspect)
        Parse input file

        Parameters fspect – Specification of a fidl to parse.

        Returns AST representation of the input.

    static parse_structured_comment(comment)
        Parse a structured comment.

        Parameters comment – Structured comment of an Franca-IDL symbol to parse.

        Returns OrderedDict of all comments. Key is Franca-IDL keyword, e.g. @description, value
        conatins the text.

exception pyfranca.franca_parser.ParserException(message)
    Bases: exceptions.Exception
```

pyfranca.franca_lexer module

Franca lexer.

```
class pyfranca.franca_lexer.Lexer(**kwargs)
    Bases: object

    Franca IDL PLY lexer.

    keyword = 'ByteBuffer'

    keywords = ['package', 'import', 'from', 'model', 'typeCollection', 'version', 'major', 'minor', 'typedef', 'is', 'interface']

    literals = ['?', '{', '}', '*', '=', '[', ']']
```

```

static t_BINARY_VAL (t)
    0[bB][01]+

static t_BLOCK_COMMENT (t)
    /*(.ln)*?*/

static t_BOOLEAN_VAL (t)
    (true|false)

static t_HEXADECIMAL_VAL (t)
    0[xX][0-9a-fA-F]+

static t_ID (t)
    [A-Za-z][A-Za-z0-9_]*

static t_INTEGER_VAL (t)
    [+]?d+

static t_LINE_COMMENT (t)
    //[^rn]*

static t_NEWLINE (t)
    n+

static t_REAL_VAL (t)
    [+]?((((([0-9]*.[0-9]+)|([0-9]+.))([eE][+]?[0-9]+)?)|([0-9]+([eE][+]?[0-9]+))))([fFdD])?

static t_STRING_VAL (t)
    "[^"]*"

static t_STRUCTURED_COMMENT (t)
    <*((.ln)*?)*>

static t_error (t)

t_ignore = '\t'

tokenize (data)
    Tokenize input data to stdout for testing purposes.

    Parameters data – Input text to parse.

tokenize_data (data)
    Tokenize input data to stdout for testing purposes.

    Parameters data – Input text to parse.

tokenize_file (fspec)
    Tokenize input file to stdout for testing purposes.

    Parameters fspec – Input file to parse.

tokens = ['PACKAGE', 'IMPORT', 'FROM', 'MODEL', 'TYPECOLLECTION', 'VERSION', 'MAJOR', 'MINOR', 'T

exception pyfranca.franca_lexer.LexerException (message)
    Bases: exceptions.Exception

```


CHAPTER 2

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