# My Project

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# Chapter 1

# Data Structure Index

## 1.1 Data Structures

Here are the data structures with brief descriptions:

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# Chapter 2

# File Index

## 2.1 File List

Here is a list of all files with brief descriptions:

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# Chapter 3

# Data Structure Documentation

## 3.1 myStructType Struct Reference

### Data Fields

- variable v1

### 3.1.1 Field Documentation

#### 3.1.1.1 v1

```
variable myStructType::v1
```

The documentation for this struct was generated from the following file:

- test-input-function-params.ipf

## 3.2 struct1 Struct Reference

My structure definition.

### Data Fields

- string str
- variable var

### 3.2.1 Detailed Description

My structure definition.

### 3.2.2 Field Documentation

#### 3.2.2.1 str

```
string struct1::str
```

#### 3.2.2.2 var

```
variable struct1::var
```

The documentation for this struct was generated from the following file:

- test-input.ipf

## 3.3 struct2 Struct Reference

### Data Fields

- string str
- variable var

### 3.3.1 Field Documentation

#### 3.3.1.1 str

```
string struct2::str
```

#### 3.3.1.2 var

```
variable struct2::var
```

The documentation for this struct was generated from the following file:

- test-input.ipf

# Chapter 4

# File Documentation

## 4.1 test-input-function-params.ipf File Reference

### Data Structures

- struct myStructType

### Functions

- variable myFuncParam1 (variable var1)
- variable myFuncParam2 (variable var1, string str1)
- variable myFuncParam3 (WaveText w1, string str1, myStructType *myStruct1, myStructType *myStruct2, myStructType *myStruct3)
- variable myFuncParam4 (myStructType *param)
- variable myFuncParam5 (myStructType *param, string *str1=defaultValue)

### 4.1.1 Function Documentation

#### 4.1.1.1 myFuncParam1()

```
variable myFuncParam1 (
            variable var1 )
```

#### 4.1.1.2 myFuncParam2()

```
variable myFuncParam2 (
            variable var1,
            string str1 )
```

#### 4.1.1.3 myFuncParam3()

```
variable myFuncParam3 (
            WaveText w1,
            string str1,
            myStructType * myStruct1,
            myStructType * myStruct2,
            myStructType * myStruct3 )
```

This function has structure parameters, which are always call-by-reference

**Parameters**

| | |
|---|---|
| *w1* | input wave |
| *str1* | fancy version string |
| *myStruct1* | first working struct |
| *myStruct2* | second working struct |
| *myStruct3* | third working struct |

#### 4.1.1.4 myFuncParam4()

```
variable myFuncParam4 (
             myStructType * param )
```

#### 4.1.1.5 myFuncParam5()

```
variable myFuncParam5 (
             myStructType * param,
             string * str1 = defaultValue )
```

## 4.2 test-input.ipf File Reference

### Data Structures

- struct struct1

  *My structure definition.*
- struct struct2

### Functions

- static variable FooBarStatic ()
- static variable FooBarStaticThreadsafe ()
- variable FooBarThread ()
- static dfr FooBarStaticDFR ()

#### Functions with different return types

- variable FooBar ()
- variable FooBarSubType ()
- variable FooBarVar ()
- dfr FooBarDFR ()
- complex FooBarComp ()
- string FooBarStr ()
- wave FooBarWave ()

## Variables

- const variable myConst =123

  *This is a really special number.*
- const string myStrConst ="abcd"

  *The first alphabet letters.*

### 4.2.1 Function Documentation

#### 4.2.1.1 FooBar()

```
variable FooBar ( )
```

#### 4.2.1.2 FooBarComp()

```
complex FooBarComp ( )
```

#### 4.2.1.3 FooBarDFR()

```
dfr FooBarDFR ( )
```

#### 4.2.1.4 FooBarStatic()

```
static variable FooBarStatic ( )  [static]
```

#### 4.2.1.5 FooBarStaticDFR()

```
static dfr FooBarStaticDFR ( )  [static]
```

#### 4.2.1.6 FooBarStaticThreadsafe()

```
static variable FooBarStaticThreadsafe ( )  [static]
```

#### 4.2.1.7 FooBarStr()

```
string FooBarStr ( )
```

#### 4.2.1.8 FooBarSubType()

```
variable FooBarSubType ( )
```

Function with subtype

The subtype is currently ignored

#### 4.2.1.9 FooBarThread()

```
variable FooBarThread ( )
```

#### 4.2.1.10 FooBarVar()

```
variable FooBarVar ( )
```

#### 4.2.1.11 FooBarWave()

```
wave FooBarWave ( )
```

### 4.2.2 Variable Documentation

#### 4.2.2.1 myConst

```
const variable myConst =123
```

This is a really special number.

#### 4.2.2.2 myStrConst

```
const string myStrConst ="abcd"
```

The first alphabet letters.

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