## Root

#### **Table of Contents**

```
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file: example_5.ecl
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file: example_3.ecl Documentation Testing Multiline Title
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file: example_2.ecl Basic Inheritance documentation: mod_3 inherits both mod_1 and mod_2
file: example.ecl Basic Example with:
dir: Inintest
dir: intest
```

# example\_4

#### **IMPORTS**

 $\bullet \ Inintest. Example\_3.mod\_1 \\$ 

## **DESCRIPTIONS**

```
MODULE: example_4
```

Up

Example : Inheritance across files mod\_1 in Example\_4 inherits mod\_1 in Example\_3

1. mod\_1

 $MODULE : mod_1$ 

 $\operatorname{Up}$ 

- $1. \ v2\_m1\_ex3$
- 2. v2\_m1\_ex4

 $ATTRIBUTE : v2\_m1\_ex3$ 

Up

**INHERITED** : True

 $ATTRIBUTE: v2\_m1\_ex4$ 

# $example\_5$

IMPORTS
DESCRIPTIONS

# test

## $\underline{\mathbf{IMPORTS}}$

## **DESCRIPTIONS**

MODULE: test

Up

test module

# $example\_10$

## $\underline{\mathbf{IMPORTS}}$

 $\bullet$  intest

## **DESCRIPTIONS**

 ${\bf MODULE: example\_10}$ 

Up

1. mod\_1

 $MODULE : mod_1$ 

Up

 ${f INHERITED}: {\it True}$ 

## example\_3

#### **IMPORTS**

#### **DESCRIPTIONS**

MODULE: Example\_3

#### Up

Documentation Testing Multiline Title. link@myspace.com Sentence 1 blablalbla bbblaaaa

Sentence 2

blablalbla bbbblaaaaa

bblaaaaaaaaa

Parameter: first ||| okay\_1 Parameter: second ||| okay\_2 Parameter: third ||| okay\_3

Field : f1 ||| oka\_f1 Field : f2 ||| oka\_f2 Return : rec\_1

 $\mathbf{See}: example\_1.mod\_1$ 

1. mod\_1

#### $MODULE : mod_1$

- 1. v1\_m1
- 2. v2\_m1\_ex3

#### 3. long\_name

#### ATTRIBUTE: v1\_m1

#### Up

Doc test 2. Title end by period not newline

ABCD |||| CDEF ||||

#### $ATTRIBUTE: v2\_m1\_ex3$

Up

DOC Test 3 No Period title

#### FUNCTION: long\_name

(DATASET({REAL8 u}) X, DATASET({REAL8 u}) Int<br/>W, DATASET({REAL8 u}) Intb, REAL8 BETA=0.1, REAL8 sparsity<br/>Param=0.1 , REAL8 LAMBDA=0.001, REAL8 ALPHA=0.1, UNSIGNED2 MaxIter=100)<br/>Up

## Math

## **IMPORTS**

#### **DESCRIPTIONS**

MODULE: Math

Up

- 1. Infinity
- 2. NaN
- 3. isInfinite
- 4. isNaN
- 5. isFinite
- 6. FMod
- 7. FMatch

#### ${\bf ATTRIBUTE: Infinity}$

REAL8

Up

Return a real "infinity" value.

**ATTRIBUTE: NaN** 

REAL8

Up

Return a non-signalling NaN (Not a Number) value.

#### **FUNCTION**: isInfinite

BOOLEAN (REAL8 val)

Up

Return whether a real value is infinite (positive or negative).

**Parameter**: val ||| The value to test.

#### **FUNCTION: isNaN**

BOOLEAN (REAL8 val)

Up

Return whether a real value is a NaN (not a number) value.

**Parameter**: val ||| The value to test.

#### **FUNCTION**: isFinite

BOOLEAN (REAL8 val)

Up

Return whether a real value is a valid value (neither infinite not NaN).

**Parameter**: val ||| The value to test.

#### FUNCTION: FMod

REAL8 (REAL8 numer, REAL8 denom) Up

Returns the floating-point remainder of numer/denom (rounded towards zero). If denom is zero, the result depends on the -fdivideByZero flag: 'zero' or unset: return zero. 'nan': return a non-signalling NaN value 'fail': throw an exception

Parameter: numer ||| The numerator. Parameter: denom ||| The numerator.

#### **FUNCTION: FMatch**

BOOLEAN (REAL8 a, REAL8 b, REAL8 epsilon=0.0)

Up

Returns whether two floating point values are the same, within margin of error epsilon.

Parameter : a ||| The first value.
Parameter : b ||| The second value.

 ${\bf Parameter}:$  epsilon || | The allowable margin of error.

## example\_11

#### **IMPORTS**

- $\bullet$  Inintest
- Example\_3
- $\bullet$  intest.Example\_3
- $\bullet$  intest.inintest.Example\_3
- Inintest.Example\_3

#### **DESCRIPTIONS**

 $MODULE: example\_11$ 

Up

1. Example\_3

 ${\bf MODULE: Example\_3}$ 

Up

 $\mathbf{OVERRIDE}: \mathbf{True}$ 

1. mod\_1

 $MODULE : mod_1$ 

Up

1. v2\_m1\_ex3

 $ATTRIBUTE: v2\_m1\_ex3$ 

# $example\_9$

## $\underline{\mathbf{IMPORTS}}$

- $\bullet$  example\_8
- $\bullet \ example\_8.mod\_1$

## **DESCRIPTIONS**

# example\_7

## $\underline{\mathbf{IMPORTS}}$

## **DESCRIPTIONS**

 $MODULE: example\_7$ 

Up

Basic Type Example Source Code copied from ECL Documentation

1. R

RECORD : R

## example\_2

## **IMPORTS**

#### **DESCRIPTIONS**

 $MODULE : example\_2$ 

#### Up

Basic Inheritance documentation :  $mod_3$  inherits both  $mod_1$  and  $mod_2$  . Inherits  $v2_m1$ ,  $v2_m2$ , Overrides  $v1_m1$ , new locals  $v2_m3$  . Interface Inheritance :  $mod_4$  inherits interface iface\_1, overrides  $v1_i$ 

- 1. rec\_1
- 2. rec 2
- 3. rec\_3
- 4. mod\_1
- 5. mod\_2
- 6. mod\_3
- 7. iface\_1
- 8. mod\_4

 $RECORD : rec_1$ 

Up

RECORD: rec 2

```
{\tt RECORD:rec\_3}
Up
MODULE : mod_1
Up
 1. v1_m1
 2. v2_m1
ATTRIBUTE: v1_m1
real8
Up
ATTRIBUTE : v2\_m1
Up
MODULE : mod_2
Up
 1. v1_m1
 2. v2_m2
{\bf ATTRIBUTE: v1\_m1}
Up
ATTRIBUTE : v2\_m2
Up
```

$MODULE: mod\_3$
Up
1. v2_m1 2. v2_m2 3. v1_m1 4. v2_m3
ATTRIBUTE : v2_m1
Up INHERITED : True
${ m ATTRIBUTE: v2\_m2}$
Up INHERITED : True
ATTRIBUTE : v1_m1
Up  OVERRIDE : True
ATTRIBUTE : v2_m3
Up
INTERFACE : iface_1
Up
1. v1_i1

# $\begin{array}{c} \mathbf{ATTRIBUTE: v1\_i1} \\ \mathbf{real8} \\ \mathbf{Up} \end{array}$

 $MODULE : mod\_4$ 

Up

- 1. v1\_i1
- 2. v2\_m4

ATTRIBUTE: v1\_i1

Up

**OVERRIDE** : True

 $ATTRIBUTE: v2\_m4$ 

 ${\rm STRING}20$ 

## example

## **IMPORTS**

#### **DESCRIPTIONS**

MODULE: example

Up

Basic Example with: records, interface, function, modules, transform, embed, macros and functionmacro

```
1. rec_1
2. rec_2
3. interface_ex
4. func_1
5. func_2
6. mod_1
7. mod_2
8. cpp_1
9. funcmacro_1
10. macro_1
11. macro_2
```

 $RECORD : rec_1$ 

Up

 $RECORD : rec_2$ 

```
INTERFACE: interface ex
Up
  1. iface_v3
ATTRIBUTE: iface_v3
STRING25
Up
FUNCTION: func_1
(REAL8 x, STRING25 y)
Up
FUNCTION: func_2
{\tt DATASET(rec\_2)~(DATASET(rec\_1)~d)}
Up
MODULE: mod\_1
(REAL8 a)
Up
  1. pi_w
\mathbf{ATTRIBUTE}:\mathbf{pi}\mathbf{\underline{\hspace{1em}}w}
Up
MODULE : mod_2
Up
  1. pi_wo
ATTRIBUTE: pi_wo
```

```
EMBED: cpp_1
DATA (REAL8 varcpp)
Up

MACRO: funcmacro_1
(num)
Up

MACRO: macro_1
(num_1, num_2)
Up
```

MACRO: macro\_2

# Inintest

## **Table of Contents**

 ${\it file: Example\_3.ecl}$ 

# $In intest. Example \_3$

```
IMPORTS

DESCRIPTIONS

MODULE: Example_3

Up

1. mod_1

MODULE: mod_1

Up

1. v2_m1_ex3

ATTRIBUTE: v2_m1_ex3

Up
```

## intest

#### **Table of Contents**

```
file: example_4.ecl Example: Inheritance across files
file: example_5.ecl
file: example_11.ecl
file: example_9.ecl
file: example_7.ecl Basic Type Example
file: example_2.ecl Basic Inheritance documentation: mod_3 inherits both mod_1 and mod_2
file: example_3.ecl Example: Inheritance across files
dir: in1intest
dir: inintest
```

#### **IMPORTS**

 $\bullet$  Example\_3.mod\_1

## **DESCRIPTIONS**

MODULE: example\_4

Up

Example : Inheritance across files mod\_1 in Example\_4 inherits mod\_1 in Example\_3

1. mod\_1

#### $MODULE : mod_1$

Up

- 1. v2\_m1\_ex4
- 2. v1\_m1
- 3. v2\_m1\_ex3
- 4. long\_name

 $ATTRIBUTE: v2\_m1\_ex4$ 

Up

 $ATTRIBUTE: v1\_m1$ 

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ABCD |||| CDEF ||||

INHERITED: True

 $ATTRIBUTE: v2\_m1\_ex3$ 

Up

DOC Test 3 No Period title

INHERITED: True

#### ${\bf FUNCTION: long\_name}$

(DATASET({REAL8 u}) X, DATASET({REAL8 u}) IntW, DATASET({REAL8 u}) Intb, REAL8 BETA=0.1, REAL8 sparsityParam=0.1 , REAL8 LAMBDA=0.001, REAL8 ALPHA=0.1, UNSIGNED2 MaxIter=100) Up

INHERITED: True

IMPORTS
DESCRIPTIONS

## **IMPORTS**

- $\bullet$  std
- $\bullet$  intest
- $\bullet$  Example\_3
- $\bullet$  intest.Example\_3
- intest.inintest
- $\bullet \ intest.inintest.Example\_3 \\$
- test
- Inintest
- $\bullet$  Inintest.Example\_3

## **DESCRIPTIONS**

 ${\bf MODULE: example\_11}$ 

## $\underline{\mathbf{IMPORTS}}$

- $\bullet$  example\_8
- $\bullet \ example\_8.mod\_1$

## **DESCRIPTIONS**

## **IMPORTS**

## **DESCRIPTIONS**

 ${\bf MODULE: example\_7}$ 

Up

Basic Type Example Source Code copied from ECL Documentation

1. R

RECORD : R

#### **IMPORTS**

#### **DESCRIPTIONS**

MODULE : example\_2

#### Up

Basic Inheritance documentation :  $mod_3$  inherits both  $mod_1$  and  $mod_2$  . Inherits  $v2_m1$ ,  $v2_m2$ , Overrides  $v1_m1$ , new locals  $v2_m3$  . Interface Inheritance :  $mod_4$  inherits interface iface\_1, overrides  $v1_i$ 

- 1. rec\_1
- 2. rec 2
- 3. rec\_3
- 4. mod 1
- 5. mod\_2
- 6. mod\_3
- 7. iface\_1
- 8. mod\_4

 $RECORD : rec_1$ 

Up

 $RECORD : rec_2$ 

```
RECORD: rec\_3
Up
MODULE : mod_1
Up
 1. v1_m1
 2. v2_m1
ATTRIBUTE: v1_m1
real8
Up
ATTRIBUTE : v2\_m1
Up
MODULE : mod_2
Up
 1. v1_m1
 2. v2_m2
{\bf ATTRIBUTE: v1\_m1}
Up
ATTRIBUTE : v2\_m2
Up
```

MODULE: mod 3 Up 1. v2\_m1 2. v2\_m2 3. v1\_m1 4. v2\_m3 ATTRIBUTE: v2\_m1 Up **INHERITED** : True  ${\bf ATTRIBUTE: v2\_m2}$ Up **INHERITED** : True  $ATTRIBUTE : v1\_m1$ Up **OVERRIDE**: True  $ATTRIBUTE : v2\_m3$ Up  ${\bf INTERFACE: if ace\_1}$ Up 1. v1\_i1

# ATTRIBUTE : v1\_i1 real8

real Up

 $MODULE : mod\_4$ 

Up

- 1. v1\_i1
- 2. v2\_m4

ATTRIBUTE: v1\_i1

Up

**OVERRIDE** : True

 $ATTRIBUTE: v2\_m4$ 

 ${\rm STRING}20$ 

Up

# **IMPORTS DESCRIPTIONS** MODULE: Example\_3 Up Example: Inheritance across files mod\_1 in Example\_4 inherits mod\_1 in Example\_3 1. mod\_1 $MODULE : mod_1$ Up 1. v1\_m1 2. v2\_m1\_ex3 ATTRIBUTE: v1 m1 Up $ATTRIBUTE: v2\_m1\_ex3$

## in1intest

#### **Table of Contents**

```
file: example_4.ecl Example: Inheritance across files
file: example_5.ecl
file: example_9.ecl
file: example_7.ecl Basic Type Example
file: example_2.ecl Basic Inheritance documentation: mod_3 inherits both mod_1 and mod_2
file: example_3.ecl Example: Inheritance across files
```

#### **IMPORTS**

 $\bullet$  Example\_3.mod\_1

#### **DESCRIPTIONS**

```
MODULE: example_4
```

Up

Example : Inheritance across files mod\_1 in Example\_4 inherits mod\_1 in Example\_3

1. mod\_1

#### $MODULE: mod\_1$

Up

- 1. v2\_m1\_ex4
- 2. v1\_m1
- 3. v2\_m1\_ex3
- 4. long\_name

 $ATTRIBUTE: v2\_m1\_ex4$ 

Up

 $ATTRIBUTE: v1\_m1$ 

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ABCD |||| CDEF ||||

INHERITED: True

 $ATTRIBUTE: v2\_m1\_ex3$ 

Up

DOC Test 3 No Period title

INHERITED: True

#### ${\bf FUNCTION: long\_name}$

(DATASET({REAL8 u}) X, DATASET({REAL8 u}) IntW, DATASET({REAL8 u}) Intb, REAL8 BETA=0.1, REAL8 sparsityParam=0.1 , REAL8 LAMBDA=0.001, REAL8 ALPHA=0.1, UNSIGNED2 MaxIter=100) Up

INHERITED: True

**IMPORTS** 

#### $\underline{\mathbf{IMPORTS}}$

- $\bullet$  example\_8
- $\bullet \ example\_8.mod\_1$

#### **IMPORTS**

#### **DESCRIPTIONS**

 ${\bf MODULE: example\_7}$ 

Up

Basic Type Example Source Code copied from ECL Documentation

1. R

RECORD : R

#### **IMPORTS**

#### **DESCRIPTIONS**

 $MODULE : example\_2$ 

#### Up

Basic Inheritance documentation :  $mod_3$  inherits both  $mod_1$  and  $mod_2$  . Inherits  $v2_m1$ ,  $v2_m2$ , Overrides  $v1_m1$ , new locals  $v2_m3$  . Interface Inheritance :  $mod_4$  inherits interface iface\_1, overrides  $v1_i1$ 

- 1. rec\_1
- 2. rec 2
- 3. rec\_3
- 4. mod 1
- 5. mod\_2
- 6. mod 3
- 7. iface\_1
- 8. mod\_4

 $RECORD : rec_1$ 

Up

 $RECORD : rec_2$ 

```
RECORD: rec\_3
Up
MODULE : mod_1
Up
 1. v1_m1
 2. v2_m1
ATTRIBUTE: v1_m1
real8
Up
ATTRIBUTE : v2\_m1
Up
MODULE : mod_2
Up
 1. v1_m1
 2. v2_m2
{\bf ATTRIBUTE: v1\_m1}
Up
ATTRIBUTE : v2\_m2
Up
```

MODULE: mod 3 Up 1. v2\_m1 2. v2\_m2 3. v1\_m1 4. v2\_m3 ATTRIBUTE: v2\_m1 Up **INHERITED** : True  ${\bf ATTRIBUTE: v2\_m2}$ Up **INHERITED** : True  $ATTRIBUTE : v1\_m1$ Up **OVERRIDE**: True  $ATTRIBUTE : v2\_m3$ Up  ${\bf INTERFACE: if ace\_1}$ Up 1. v1\_i1

# ATTRIBUTE : v1\_i1

 $\frac{\mathrm{real8}}{\mathrm{Up}}$ 

 $MODULE : mod\_4$ 

Up

- 1. v1\_i1
- 2. v2\_m4

ATTRIBUTE: v1\_i1

Up

**OVERRIDE** : True

 $ATTRIBUTE: v2\_m4$ 

 ${\rm STRING}20$ 

Up

# **IMPORTS DESCRIPTIONS** ${\bf MODULE: Example\_3}$ Up Example: Inheritance across files mod\_1 in Example\_4 inherits mod\_1 in Example\_3 1. mod\_1 $MODULE : mod_1$ Up 1. v1\_m1 2. v2\_m1\_ex3 ATTRIBUTE: v1 m1 Up $ATTRIBUTE: v2\_m1\_ex3$

### inintest

#### **Table of Contents**

```
file: example_4.ecl Example: Inheritance across files
file: example_5.ecl
file: example_9.ecl
file: example_7.ecl Basic Type Example
file: example_2.ecl Basic Inheritance documentation: mod_3 inherits both mod_1 and mod_2
file: example_3.ecl Example: Inheritance across files
```

#### **IMPORTS**

 $\bullet$  Example\_3.mod\_1

#### **DESCRIPTIONS**

```
MODULE: example_4
```

Up

Example : Inheritance across files mod\_1 in Example\_4 inherits mod\_1 in Example\_3

1. mod\_1

#### $MODULE : mod_1$

Up

- 1. v2\_m1\_ex4
- 2. v1\_m1
- 3. v2\_m1\_ex3
- 4. long\_name

 $ATTRIBUTE: v2\_m1\_ex4$ 

Up

 $ATTRIBUTE: v1\_m1$ 

Doc test 2. Title end by period not newline

ABCD |||| CDEF ||||

INHERITED: True

 $ATTRIBUTE: v2\_m1\_ex3$ 

Up

DOC Test 3 No Period title

INHERITED: True

#### ${\bf FUNCTION: long\_name}$

(DATASET({REAL8 u}) X, DATASET({REAL8 u}) IntW, DATASET({REAL8 u}) Intb, REAL8 BETA=0.1, REAL8 sparsityParam=0.1 , REAL8 LAMBDA=0.001, REAL8 ALPHA=0.1, UNSIGNED2 MaxIter=100) Up

INHERITED: True

**IMPORTS** 

#### $\underline{\mathbf{IMPORTS}}$

- $\bullet$  example\_8
- $\bullet \ example\_8.mod\_1$

#### **IMPORTS**

#### **DESCRIPTIONS**

 ${\bf MODULE: example\_7}$ 

Up

Basic Type Example Source Code copied from ECL Documentation

1. R

RECORD : R

#### **IMPORTS**

#### **DESCRIPTIONS**

 $MODULE : example\_2$ 

#### Up

Basic Inheritance documentation :  $mod_3$  inherits both  $mod_1$  and  $mod_2$  . Inherits  $v2_m1$ ,  $v2_m2$ , Overrides  $v1_m1$ , new locals  $v2_m3$  . Interface Inheritance :  $mod_4$  inherits interface iface\_1, overrides  $v1_i1$ 

- 1. rec\_1
- 2. rec 2
- 3. rec\_3
- 4. mod 1
- 5. mod\_2
- 6. mod 3
- 7. iface\_1
- 8. mod\_4

 $RECORD : rec_1$ 

Up

RECORD: rec 2

```
RECORD: rec\_3
Up
MODULE : mod_1
Up
 1. v1_m1
 2. v2_m1
ATTRIBUTE: v1_m1
real8
Up
ATTRIBUTE : v2\_m1
Up
MODULE : mod_2
Up
 1. v1_m1
 2. v2_m2
{\bf ATTRIBUTE: v1\_m1}
Up
ATTRIBUTE : v2\_m2
Up
```

MODULE: mod 3 Up 1. v2\_m1 2. v2\_m2 3. v1\_m1 4. v2\_m3 ATTRIBUTE: v2\_m1 Up **INHERITED** : True  ${\bf ATTRIBUTE: v2\_m2}$ Up **INHERITED** : True  $ATTRIBUTE : v1\_m1$ Up **OVERRIDE**: True  $ATTRIBUTE : v2\_m3$ Up  ${\bf INTERFACE: if ace\_1}$ Up 1. v1\_i1

### ${\bf ATTRIBUTE: v1\_i1}$

 $\frac{\mathrm{real8}}{\mathrm{Up}}$ 

 $MODULE : mod\_4$ 

Up

- 1. v1\_i1
- 2. v2\_m4

ATTRIBUTE: v1\_i1

Up

**OVERRIDE** : True

 $ATTRIBUTE: v2\_m4$ 

STRING20

#### **IMPORTS**

 $\bullet$  std.Str

#### **DESCRIPTIONS**

```
MODULE : Example\_3
```

Up

Example: Inheritance across files mod\_1 in Example\_4 inherits mod\_1 in Example\_3

1. mod\_1

 $MODULE : mod_1$ 

Up

- 1. v1\_m1
- 2. v2\_m1\_ex3

ATTRIBUTE: v1\_m1

Up

 $ATTRIBUTE: v2\_m1\_ex3$