

Executable Class Documentation

Source File: 'Component.h'
Namespace: ca
Class Header: class Executable

Overview

The *Executable* abstract class is a template for computer components connected to bus interconnection structures.

Constructors

- `Executable()` (default constructor)
 - **Purpose:** Sets bus to null.
- `Executable(BusCom*)`
 - **Purpose:** Sets bus to null.
- `Executable(const Executable& obj)` (copy constructor) [deleted]

Destructor

- `-Executable()` [virtual]
 - **Purpose:** Remove the bus.

Assignment Operator

- `operator=(const Executable& rhs)` [deleted]

Methods

- `link(BusCom& bus)` [virtual]
 - **Purpose:** Connects bus to the component.
 - **Parameter(s):**
 - *bus*: A *BusCom* pointer object.
- `unlink()` [virtual]
 - **Purpose:** Removes bus from the component.
- `linked(BusCom& bus)` const [protected]
 - **Purpose:** Check if *obj* is the connected to the component
 - **Parameter(s):**
 - *bus*: A *BusCom* pointer object.
 - **Return:** True if *obj* is linked; otherwise, false.
- `lines()`
`lines() const`
 - **Purpose:** Retrieves the bus of the component.
 - **Exception:**
 - *Runtime Error*: Occurs if bus is not set.
 - **Return:** A *BusCom* reference.
- `configured()` const [virtual]
 - **Purpose:** Checks if the component is configured.
 - **Return:** A true if a bus is attached; otherwise, a false.
- `process()` [pure virtual]
 - **Purpose:** Performs an execution cycle if the component is completely configured.
- `manual()` [pure virtual]
 - **Purpose:** Provides a list of control bus codes for the `process()` method.
 - **Return:** A string representation of the list