

Part Class Documentation

Source File: 'MemCell.h'
Namespace: ca
Class Header: class Part : public MemCell

Overview

The *Part* concrete *MemCell* class represents a fixed non-extendable subword (*MemCell*) of an existing word.

Constructors

- **Part()** (default constructor)
 - **Purpose:** Creates a null reference.
- **Part(const Part& obj)** (copy constructor)
 - **Purpose:** Performs a deep copy of *obj* if it does not have a reference and *obj* has a reference.
 - **Parameter(s):**
 - *obj*: Constant *Part* reference object.
- **Part(const MemCell& obj)**
 - **Purpose:** Sets *obj* as the reference for the part and designates the full word as the subword.
 - **Parameter(s):**
 - *obj*: Constant *MemCell* reference object.
- **Part(const MemCell& obj, size_t x, size_t y)**
 - **Purpose:** Sets *obj* as the reference for the part and makes the range [min(*x,y*),max(*x,y*)].
 - **Parameter(s):**
 - *obj*: Constant *MemCell* reference object.
 - *x*: An index
 - *y*: An index

Destructor

- **-Part()** [virtual]
 - **Purpose:** It does nothing.

Assignment Operator

- **operator=(const Part& rhs)**
 - **Purpose:** Performs a deep copy of *obj* if it does not have a reference and *obj* has a reference.
 - **Parameter(s):**
 - *rhs*: Constant *Part* reference object.
 - **Return:** *this.

Member Functions

- **begin() const**
 - **Purpose:** Gets the lower endpoint index of the subword.
 - **Return:** An index.
- **end() const**
 - **Purpose:** Gets the upper endpoint index of the subword.
 - **Return:** An index.
- **range(size_t x, size_t y = 0)**
 - **Purpose:** Sets the endpoint indices of th subword if the indices are valid.
 - **Parameter(s):**
 - *x*: An index.
 - *y*: An index.