

A Description of the RCImmux Algorithm

Reference Counting with better heap allocation

Nathan Jarvis

Department of Computer Science
McMaster University, Hamilton
jervisnd@mcmaster.ca

November 9, 2013

Overview

- Introduction to automatic memory management
- Problems with existing reference counting
- The RCImmux algorithm

Memory Management

Listing 1: First C example

```
int main()  
{  
    printf(" Hello World!" );  
    return 0;  
}
```

A displayed formula:

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

An itemized list:

- itemized item 1
- itemized item 2
- itemized item 3

Theorem

In a right triangle, the square of hypotenuse equals the sum of