

VYPE - Topic 30: Garbage Collection Algorithms I

Jaroslav Kopáček
xkopac01@stud.fit.vutbr.cz

Abstract

Memory management in programming languages can be automatic or manual. Many of programming languages use automatically managed memory (GC - garbage collecting).

For implementation of garbage collector exist many different techniques and algorithms. The goal of this presentation is to describe one of algorithms for tracing garbage collectors - Copying collection.

In the first part, we will briefly focus on memory management in programming languages and types of garbage collectors. Second part will focus on copying collection algorithm, how it works, and comparison with Mark&Sweep algorithm, next algorithm for tracing GSs.