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Date : Thursday, 19 November 2020

Write a short note on Register Allocation

Instructions involving only register operands are faster than those involving memory operands. On the modern machines, the processor speeds are often in an order of magnitude or more faster than memory speeds. Thus for the efficient utilisation of registers is important in generating good codes.One approach to register allocation and assignment is to assign specific values in the target program to certain registers.This approach has the advantage that it simplifies the design of a code generator.