

# Just-in-Time Compiler Optimization

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## Abstract

Start of the presentation will be talk about basics on a subject of „Just-in-Time Compiler“. At the beginning we will introduce the approach to translation of source code into target (machine) code. Further discussed will be pros and cons of these approaches, which also emphasis ahead of time compilation and the interpretation of source code. One of the most known programming languages using Just-in-Time Compilation is Java, therefore examples and the entire presentation will be oriented on Java programming language and also on the keystone of Just-in-Time Compilation in Java – Java virtual machine.

In the second part of this presentation we will talk about practical examples of how the compiler works, especially in Java source code. This part of the presentation will also present a deeper dive into „how does it work“ and „what is the practical benefit of it“. We will also introduce different applications of this type of compilers.