

Department	Information Science	Name	YAMASHITA Yoshiyuki
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#### Introduction or Outline of the research

To make programs faster is one of the most important tasks of compilers and is absolutely required as a basic technique for supercomputing. Following the progress of the processor architecture technology, the code optimization techniques on compilers also continue to progress.

Recently very high-level, complicated techniques of optimizing RISC codes are eagerly required far beyond hand-written quality. In this research we focus on the optimization techniques for loops, particularly the technique called software pipelining.