

# Presentation of TC-9

Assistants 2009

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- 1 Overview of the tarball
- 2 Register allocation

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- New directory:
  - 'src/regalloc': Where you will work. Color the interference graph, remove useless moves once the register allocation performed, and allocate the registers for fragments.

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- Color the interference graph.
- It is an Np problem.
- Use work lists for efficiency.

1. The graph contains a set of  $k$ -degree interconnected nodes.

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# Register allocation

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- Use work lists for efficiency.
  - The simplify work list: list of low-degree non-move-related nodes.
  - The spill work list: list of low-degree move-related nodes.
  - The spill work list: list of high-degree nodes.
  - The spill work list: set of nodes selected for spilling (coalescing).



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