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| **Lab 2 Questionnaire** | **Comp 412, Fall 2022** |
| |  |  | | --- | --- | | Name: |  | | Net ID: |  | | Date Submitted: |  | |  |

**Implementation Discussion**

1. How do the algorithms that you implemented differ from the methods discussed in the book and in the videos.

Do not use pseudo code. Do not include descriptions of your scanning or parsing algorithms.

1. Briefly describe your key design decisions. Do not include a detailed description of the data structures, classes, members, fields, and methods that you implemented.
2. When your allocator must spill, how does it choose the value to spill? What optimizations, if any, did you implement?
3. State the asymptotic complexity and expected case complexity of your register allocator.

**Quantitative Results**

*Insert Table 1 and Table 2 (described in the lab handout)*

With reference to Table 2 and your graph:

* 1. How well did your allocator perform. Justify your answer quantitatively.

If your allocator is written in a language with timing results shown in § A-4 of the lab handout, relate your results to those shown in the handout.

* 1. What was your best design decision? What was your most important or surprising insight?
  2. Are the timing results for your allocator consistent with the complexity analysis that you gave earlier? If not, explain why they are different. Justify your answer.