0 分，共 0 分

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Question 3 - 3 (1.7.c)   6 分，共 6 分

Section 1.6

Compilers can have a profound impact on the performance of an application. Assume that for a program, compiler A results in a dynamic instruction count of 1.0E+9 and has an execution time of 1.4 s, while compiler B results in a dynamic instruction count of 1.2E+9 and an execution time of 1.44 s.

✓ A new compiler is developed that uses only 6.0E+8 instructions and has an average CPI of 1.1. What is the speedup of using this new compiler versus using compiler A on the original processor? The original processor has a clock cycle time of 1 ns.(Round off to the 2nd decimal place) *   3/3

2.12   ✓

✓ A new compiler is developed that uses only 6.0E+8 instructions and has an average CPI of 1.1. What is the speedup of using this new compiler versus using compiler B on the original processor? The original processor has a clock cycle time of 1 ns.(Round off to the 2nd decimal place) *   3/3

2.18   ✓

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