CS4047 In-Course Assessment

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***Abstract*— This report illustrates the difference in performance between a simple lexer of the ac language written in C and another created with Lex, based on their execution time with the same stress example ac program.**

I. INTRODUCTION 150 WORDS

Lorem ipsum

II. PROPOSED TECHNOLOGIES

A. Artificial Immune System aim at 150 words

To make the scanning of characters more optimal than with if and else, a switch-case statement is used to identify the terminals. Previously the comments were just ignored but a modification was added for it to print ”COMMENT” in those cases to have the same process as the Lex one.

1) Strengths aim at 150 words: Lorem ipsum
2) Weaknesses aim at 150 words: Lorem ipsum
3) Applications aim at 150 words: Lorem ipsum

B. Artificial Neural Networks 150 words

With Lex one just has to define the regular expression rules for the tokens and how they are to be processed, Lex later generates a complete scanner coded in C, transforming the regular expression definitions into an equivalent finite automatomaton.

1) Strengths aim at 150 words: Lorem ipsum
2) Weaknesses aim at 150 words: Lorem ipsum
3) Applications aim at 150 words: Lorem ipsum

III. COMBINATIONS - AIM AT 150 WORDS

Lorem ipsum

IV. CONCLUSIONS - AIM AT 200 WORDS

Lorem ipsum

REFERENCES

[1] C. N. Fischer, R. K. Cytron & R. J. LeBlanc. ÒCrafting a CompilerÓ, 2nd ed.,Boston: Pearson Education, 2010.