

Theory of Programming and Types

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1 ABSTRACT

2 INTRODUCTION

3 THE FIRST SEMANTICS : EVAL

3.1 TYPE PRESERVATION IS THE TYPE OF THE INTERPRETER

4 THE SECOND SEMANTICS : COMPILE & EXEC

4.1 TYPING STACKS

4.2 COMPILING AND EXECUTING TYPED INTERMEDIATE CODE

4.3 SPECIFYING INTERMEDIATE CODE

4.4 IMPLEMENTING AN INTERPRETER FOR INTERMEDIATE CODE

4.5 IMPLEMENTING THE COMPILER TO INTERMEDIATE CODE

5 COMPILER CORRECTNESS

6 CONCLUSION

7 RELATED WORK