IST 597A HW3 Yufei Jiang

Problem 1.

1) add a halt statement to the Mini C syntax.

Statements S:= x = e | Sisse | if e then Si else Se | while e do

2 evaluation rules

(A, (halt; S)) > (A) Eval Stm Halt

3 Safety proof:

The Halt statement itself is a termination signal. It does not imply any reduction rules that affect type safety. It does not have effect on existing reduction rules. Given original syntax is type safety, after adding the "halt" statement, Mini C' is still type safety.