CS252 HW2: Small-Step Operational Semantics for WHILE

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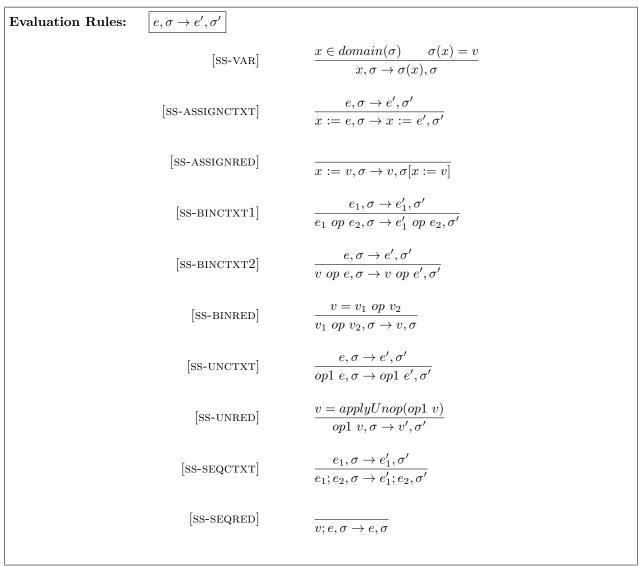


Figure 1: Small-step semantics for WHILE

[SS-IFCTXT]	$e,\sigma o e',\sigma'$ $if\ e_1\ ext{then}\ e_2\ ext{else}\ e_3,\sigma o ext{if}\ e_1'\ ext{then}\ e_2\ ext{else}\ e_3,\sigma'$
[SS-IFTRUE]	$\overline{ ext{if true then }e_1 ext{ else }e_2,\sigma o e_1,\sigma}$
[SS-IFFALSE]	$\overline{ ext{if false then }e_1 ext{ else }e_2,\sigma o e_2,\sigma}$
[SS-WHILE]	$\overline{ ext{while }(e_1)\;e_2,\sigma o ext{if }e_1 ext{ then }e_2; ext{while }(e_1)\;e_2 ext{ else false},\sigma}$