

A Separation Logic for Heap Space under Garbage Collection

Jean-Marie Madiot François Pottier



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Without Garbage Collection

$\{ \diamond \text{size}(b) \} \quad x := \text{alloc}(b) \quad \{ x \mapsto b \}$

$\{ x \mapsto b \} \quad \text{free}(x) \quad \{ \diamond \text{size}(b) \}$