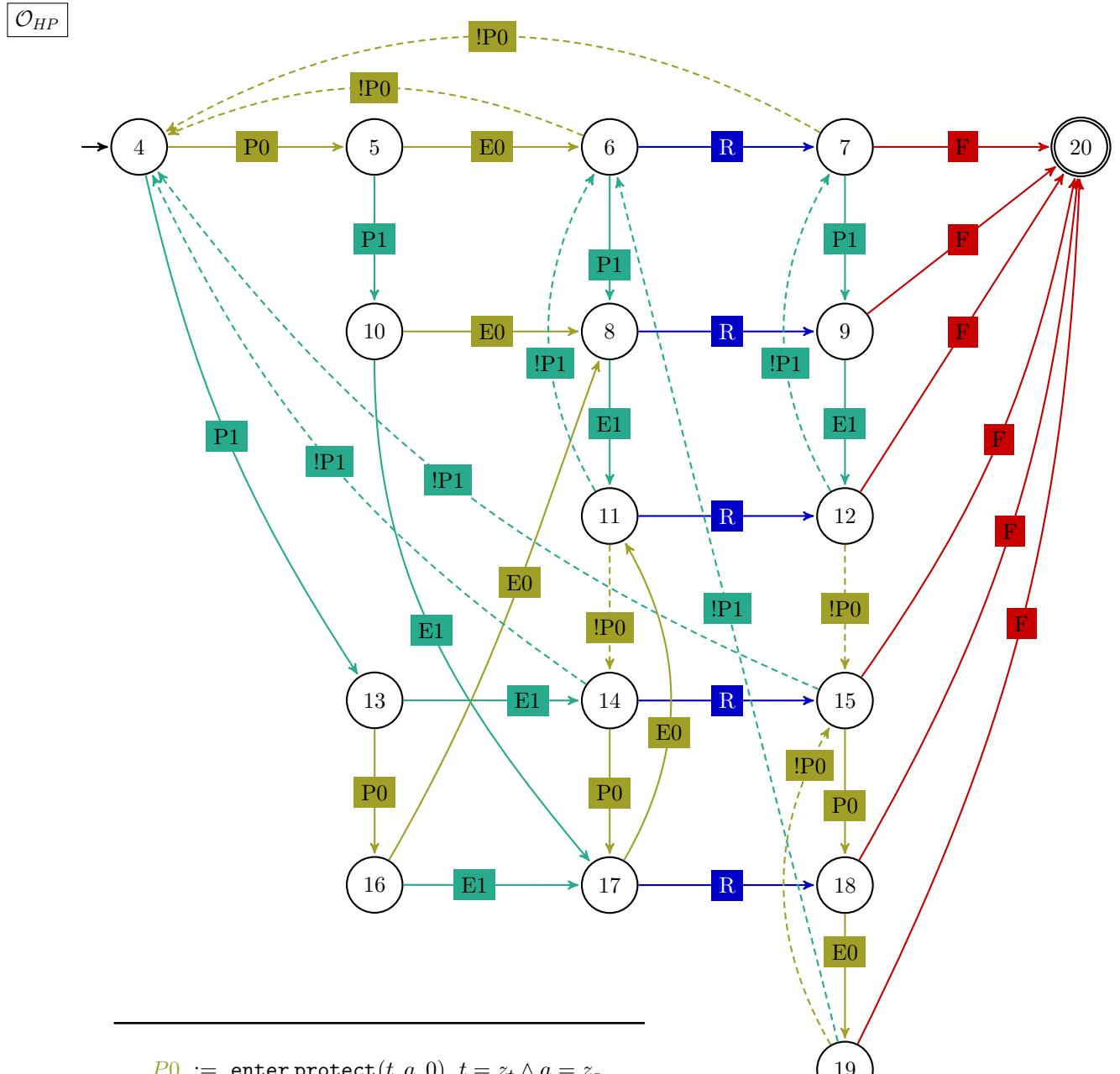
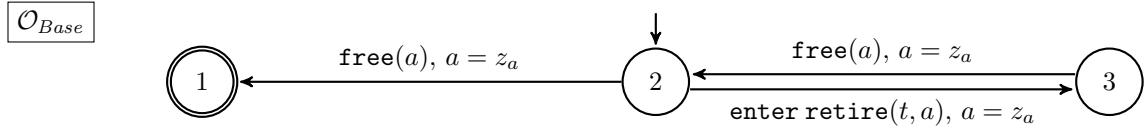


The SMR automaton specifying Hazard Pointers (HP) is defined by  $\mathcal{O}_{Base} \times \mathcal{O}_{HP}$ .




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$P_0 := \text{enter protect}(t, a, 0), t = z_t \wedge a = z_a$

$!P_0 := \text{enter protect}(t, a, 0), t = z_t \wedge a \neq z_a$

$E_0 := \text{exit protect}(t), t = z_t$

$P_1 := \text{enter protect}(t, a, 1), t = z_t \wedge a = z_a$

$!P_1 := \text{enter protect}(t, a, 1), t = z_t \wedge a \neq z_a$

$E_1 := \text{exit protect}(t), t = z_t$

$R := \text{enter retire}(t, a), a = z_a$

$F := \text{free}(a), a = z_a$