

$\wedge \text{sincoming} = \langle \rangle$
 $\wedge \text{crec} = [\text{c1} \mapsto 0, \text{c2} \mapsto 0, \text{c3} \mapsto 0]$
 $\wedge \text{sbuf} = [\text{c1} \mapsto \langle \rangle, \text{c2} \mapsto \langle \rangle, \text{c3} \mapsto \langle \rangle]$
 $\wedge \text{cstate} = [\text{c1} \mapsto \langle \langle \text{"a"}, \text{"b"}, \text{"c"} \rangle \rangle, \text{c2} \mapsto \langle \langle \text{"a"}, \text{"b"}, \text{"c"} \rangle \rangle, \text{c3} \mapsto \langle \langle \text{"a"}, \text{"b"}, \text{"c"} \rangle \rangle]$
 $\wedge \text{cop} = [\text{c1} \mapsto \langle \langle [\text{pos} \mapsto 1, \text{ch} \mapsto \text{"a"}, \text{pr} \mapsto 1, \text{type} \mapsto \text{"Ins"}] \rangle \rangle,$
 $\quad \text{c2} \mapsto \langle \rangle,$
 $\quad \text{c3} \mapsto \langle \rangle]$
 $\wedge \text{cincoming} = [\text{c1} \mapsto \langle \rangle, \text{c2} \mapsto \langle \rangle, \text{c3} \mapsto \langle \rangle]$
 $\wedge \text{srec} = [\text{c1} \mapsto 0, \text{c2} \mapsto 0, \text{c3} \mapsto 0]$
 $\wedge \text{sstate} = [\text{c1} \mapsto \langle \langle \text{"a"}, \text{"b"}, \text{"c"} \rangle \rangle, \text{c2} \mapsto \langle \langle \text{"a"}, \text{"b"}, \text{"c"} \rangle \rangle, \text{c3} \mapsto \langle \langle \text{"a"}, \text{"b"}, \text{"c"} \rangle \rangle]$
 $\wedge \text{cbuf} = [\text{c1} \mapsto \langle \rangle, \text{c2} \mapsto \langle \rangle, \text{c3} \mapsto \langle \rangle]$



$\wedge \text{sincoming} = \langle \langle [\text{c} \mapsto \text{"c1"},$
 $\text{op} \mapsto [\text{pos} \mapsto 1, \text{ch} \mapsto \text{"a"}, \text{pr} \mapsto 1, \text{type} \mapsto \text{"Ins"}],$
 $\quad \text{ack} \mapsto 0] \rangle \rangle$
 $\wedge \text{crec} = [\text{c1} \mapsto 0, \text{c2} \mapsto 0, \text{c3} \mapsto 0]$
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 $\wedge \text{cbuf} = [\text{c1} \mapsto \langle \langle [\text{pos} \mapsto 1, \text{ch} \mapsto \text{"a"}, \text{pr} \mapsto 1, \text{type} \mapsto \text{"Ins"}] \rangle \rangle,$
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