```
systemState = EVENT PROCESSING;
                                               systemState = EVENT PROCESSING;
  if (states[S11 ID].actives[0]==S111 ID
                                               if (states[S11 ID].actives[0]==S111 ID
  &&(currentEvent->stateId==S111 ID)){
                                               && (currentEvent->stateId==S111 ID)){
    Exit(states[S11 ID].actives[0]);
                                                 Exit(states[S11 ID].actives[0]);
    states[S11 ID].actives[0]=STATE MAX; 5
                                                 states[S11 ID].actives[0]=STATE MAX;
     Exit(states[S1 ID].actives[0]);
                                                 Exit(states[S1 ID].actives[0]);
     states[S1 ID].actives[0]=STATE MAX;
                                                 states[S1 ID].actives[0]=STATE MAX;
     if (guard1) {
                                                 if (guard1) {
      Exit(S1 ID);
                                                   Exit(S1 ID);
      activeStateID = S3_ID;
                                                   activeStateID = STATE MAX;
       Entry(S3 ID);
                                                 } else {
    } else {
                                                   Exit(S1 ID);
       Exit(S1 ID);
                                                   activeStateID = S2 ID;
      activeStateID = S2 ID;
                                                   Entry(S2 ID);
                                                   unsigned int S2 Region1 dh1;
       Entry(S2 ID);
                                                   if (states[S2 ID].previousStates[0]
       unsigned int loc ActiveId;
      if(states[S2 ID].previousStates[0] 17
                                                            != STATE MAX) {
                                                     S2 Region1 dh1 =
                !=STATE MAX) {
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         loc ActiveId=states[S2 ID]
                                                       states[S2 ID].previousStates[0];
                     .previousStates[0];
                                                     Entry(S2 Region1 dh1);
       } else {
                                                     if (S21 ID==S2 Region1 dh1) {
                                                     unsigned int S21 Region1 dh1 =
         loc ActiveId = S21 ID;
                                                     states[S21 ID].previousStates[0];
                                                       Entry(S21 Region1 dh1);
       states[S2 ID].actives[0]=
                       loc ActiveId;
                                                     -}
       Entry(loc ActiveId);
                                                   } else {
                                                     states[S2 ID].actives[0]=S21 ID;
                                                     Entry(S21 ID);
     systemState = EVENT CONSUMED;
                                                     states[S21 ID].actives[0]=S211 ID;
                                                     Entry(S211 ID);
                                                 systemState = EVENT CONSUMED;
```