ALGORITHM 2: MinOverlayScheduling(G, P)1: Initialize $min_overlay \leftarrow +\infty$ 2: Initialize $PASS \leftarrow MinBufferScheduling(G)$ 3: Calculate current buffer usage, buf_mem, of PASS 4: $code_mem \leftarrow C_n - buf_mem$ 5: repeat $\langle V,R \rangle \leftarrow RegionAssignment(G,PASS,code_mem) / *Actor to region assignment*/$ 6: if $\sum_{r \in P} C_r < code_mem$ then $\langle V.S \rangle \leftarrow Segmentation(G, PASS, \langle V,R \rangle) / *Actor to segment assignment* /$ 8: $cur_overlay \leftarrow calCodeOverlay(G, PASS, \langle V,R \rangle, \langle V,S \rangle) /*Overlay overhead*/$ 9: **if** *cur_overlay < min_overlay* **then** 10: $min_overlay \leftarrow overlay$ 11: $solution \leftarrow clone(G. PASS. < V.R > . < V.S >)$ 12: 13: end if end if 14: 15: **until** collapseTwoExecs(PASS) = false /*Evolve from Min. Buf to Min. Switch*/16: **return** solution