

Input: Function *func* at WyIL level

Output: A *list* of optimised C code

```
1: Variables
2:   CopyA: Copy elimination analyser
3:   list: Copy-Optimised C code
4: end Variables
   // Translate a statement with/without copies
5: procedure COPYOPTIMISEDCODE(code, func)
6:   list = []
7:   if code is Array Assignment then
8:     lhs = left variable of code
9:     rhs = right variable of code
10:    if COPYA.ISCOPYREMOVED(rhs, code, func) then
11:      list.append("lhs = rhs") // Assignment without copy
12:    else
13:      list.append("lhs = COPY(rhs)") // Assignment with copy
14:    end if
15:  end if
16:  return list
17: end procedure
```