

We only need to turn off the automatic inlining feature by using the related pragma.

```
bool or_gate(bool a, bool b) {  
    #pragma HLS INLINE off 1  
    return (a | b);  
}  
  
bool not_gate(bool a) {  
    #pragma HLS INLINE off 2  
    return !a;  
}  
  
void automatic_inlining(bool a, bool b, bool *c ) {  
    #pragma HLS INTERFACE ap_ctrl_none port=return  
    #pragma HLS INTERFACE ap_none port=a  
    #pragma HLS INTERFACE ap_none port=b  
    #pragma HLS INTERFACE ap_none port=c  
  
    *c = or_gate(not_gate(a), not_gate(b));  
}
```