Graphical user interface, application

Description automatically generated

Pragma directive added in C++ source code

Solution 1 – default synthesis( this solution has high latency )

Solution 2 – added directive in 3rd layer for -loop in c++(this solution can’t satisfy timing constraint)

Solution 3 - added directive in first layer for- loop in c++(this solution satisfy constraint )

Solution4 – added directive in matrix variables of c++(this solution is similar to solution3 )

Solution 5 – added directive outside of for-loop in c++ (this solution costs much more because using 3479 FF and 3008 LUT)