// ==============================================================

// File generated by Vivado(TM) HLS - High-Level Synthesis from C, C++ and SystemC

// Version: 2017.2

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// ==============================================================

#ifndef \_\_matrixmul\_mac\_mulcud\_\_HH\_\_

#define \_\_matrixmul\_mac\_mulcud\_\_HH\_\_

#include "simcore\_mac\_0.h"

#include <systemc>

template<

int ID,

int NUM\_STAGE,

int din0\_WIDTH,

int din1\_WIDTH,

int din2\_WIDTH,

int dout\_WIDTH>

SC\_MODULE(matrixmul\_mac\_mulcud) {

sc\_core::sc\_in< sc\_dt::sc\_lv<din0\_WIDTH> > din0;

sc\_core::sc\_in< sc\_dt::sc\_lv<din1\_WIDTH> > din1;

sc\_core::sc\_in< sc\_dt::sc\_lv<din2\_WIDTH> > din2;

sc\_core::sc\_out< sc\_dt::sc\_lv<dout\_WIDTH> > dout;

simcore\_mac\_0<ID, 1, din0\_WIDTH, din1\_WIDTH, din2\_WIDTH, dout\_WIDTH> simcore\_mac\_0\_U;

SC\_CTOR(matrixmul\_mac\_mulcud): simcore\_mac\_0\_U ("simcore\_mac\_0\_U") {

simcore\_mac\_0\_U.din0(din0);

simcore\_mac\_0\_U.din1(din1);

simcore\_mac\_0\_U.din2(din2);

simcore\_mac\_0\_U.dout(dout);

}

};

#endif //