hamming.c hamming.v hamming netlist.v

```
module hamming(clk, rst, a, b, h);
#include <ap_int.h>
                                               odule hamming(clk, rst, a, b, h);
void hamming(ap_uint<1> a,
    ap_uint<1> b, ap_uint<16> &h){
                                                input clk, rst, a, b;
                                                                                          input clk, rst, a, b;
                                               output reg [15:0]h;
                                                                                          output [15:0]h;
#pragma HLS INTERFACE ap none port=a,b,h
                                                                                        DFF \c_reg[0] (.D(n3), .CLK(clk),
                                                always@(posedge clk or posedge rst)
 static ap_uint<16> tmp = 0;
ap_uint<1> c = a^b;
                                                 if (rst)
                                                                                         .RST(rst), .Q(h[0]));
                                                                                        XNOR U1 ( .A(a), .B(b), .Z(n2) );
                                                   h \le 0;
 if(c.get_bit(0))
                                                  else
   tmp++;
                                                   h \le h + a^b;
                                                                                        NANDN U3 ( .A(n2), .B(n3), .Z(n3));
 h = tmp;
                                              endmodule
                                                                                        ...
endmodule
```