$\hat{A} = D d \hat{I} = 1$

Mcrimen Ten



```
9 CHIP Add16 {
( Multibit odder)
                                                      IN a[16], b[16];
                                                      OUT out[16];
                                               12
                Sum [0]
                                               13
                                                      PARTS:
                                               14
                                                      HalfAdder(a= a[0], b= b[0], sum= out[0], carry= carry0);
AE01
                 Carry[0]
                                               15
                                                      FullAdder(a= a[1], b= b[1], c= carry0, sum= out[1], carry= carry1);
BEOJ
                                               16
                                                      FullAdder(a= a[2], b= b[2], c= carry1, sum= out[2], carry= carry2);
                                               17
                                                      FullAdder(a= a[3], b= b[3], c= carry2, sum= out[3], carry= carry3);
                                               18
                                                      FullAdder(a= a[4], b= b[4], c= carry3, sum= out[4], carry= carry4);
                                               19
                                                      FullAdder(a= a[5], b= b[5], c= carry4, sum= out[5], carry= carry5);
   LIJA
                                                      FullAdder(a= a[6], b= b[6], c= carry5, sum= out[6], carry= carry6);
                                               20
                                                      FullAdder(a= a[7], b= b[7], c= carry6, sum= out[7], carry= carry7);
                                                      FullAdder(a= a[8], b= b[8], c= carry7, sum= out[8], carry= carry8);
Corry [ 0]
                                               23
                                                      FullAdder(a= a[9], b= b[9], c= carry8, sum= out[9], carry= carry9);
                                               24
                                                      FullAdder(a= a[10], b= b[10], c= carry9, sum= out[10], carry= carry10);
                                                      FullAdder(a= a[11], b= b[11], c= carry10, sum= out[11], carry= carry11);
                                               26
                                                      FullAdder(a= a[12], b= b[12], c= carry11, sum= out[12], carry= carry12);
                                               27
       A[n]
                                                      FullAdder(a= a[13], b= b[13], c= carry12, sum= out[13], carry= carry13);
                                               28
                                                      FullAdder(a= a[14], b= b[14], c= carry13, sum= out[14], carry= carry14);
       B[n]
                                               29
                                                      FullAdder(a= a[15], b= b[15], c= carry14, sum= out[15], carry= carry15);
      Corry En-1]
                 ( ) Overflow is neither detected nor handled"
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Megal matrie chin dedicated

