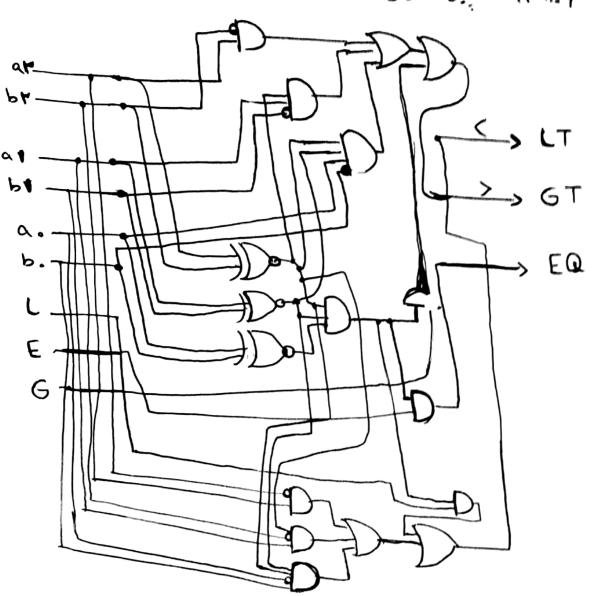
فرهاد امان ۲ - ۹۹۳۰ پیش گزارش کا



A - EQ - B = $(A2 \times B2) \cdot (A1 \times B1) \cdot (A0 \times B0)$ A - GT - B = $A2 \cdot B2 + C2 \cdot A1 \cdot B1 + C2 \cdot C1 \cdot A0 \cdot B0$ A - LT - B = $A2 \cdot B2 + C2 \cdot A1 \cdot B1 + C2 \cdot C1 \cdot A0 \cdot B0$

```
نرهار المال ۲ - ۱۹۹۳
module comparator 3 (
  input [2:0] A,
  input [2:0] B,
  input 1,
  input e,
  input 9
  output lt,
  output et,
  output gt);
 wire aznot, alnot, aonat, bznot, blnot, bonot, cz, cl, co, ct, lc, gc,
       9<sup>t1</sup>, 9<sup>t2</sup>, 9<sup>t3</sup>, 9<sup>t4</sup>, kt1, lt2, lt3, lb4;
  not g1 (aznot, A[2]);
  not 92 (a1not, A[1]);
  not 93 (a0not, A[0]);
  not 94 (b2 not, B[2]);
  not 95 ( 61 not, B[1]);
  not 96 (bond, B[O]);
  xner 97 (c2, A[2], B[2]);
  xxx 98 (c1, A[1], B[7]);
  xnor 99 (co, A[0], B[0]);
  and 910 (ct, c2, c1, c0);
  and g11 (lc, ct, l);
  and 912 (et, ct, e);
  and 913 (gc, ct, 9);
 and 914 (9t1, A[2], bznet);
 and g15 (gt2, A[1], b1 not , , , , , , , ;
 and g16 (gt3, A(0], bond, c2, c1);
```

```
or 917 (gt4, gt1, gt2, gt3);
or 918 (gt, g4, gc);
and 919 (lt1, aznat, B[2]);
and 920 (lt2, alnat, B[1], c2);
and 921 (lt3, aonat, B[0], c2, c1);
or 922 (lt4, lt1, lt2, lt3);
or 923 (lt, lt4, lc);
endradule
```