```
ENTITY na2_x1 IS
GENERIC (
       CONSTANT area: NATURAL := 1000;CONSTANT cin_i0: NATURAL := 11;CONSTANT cin_i1: NATURAL := 11;CONSTANT cin_i1: NATURAL := 11;
         CONSTANT rdown_i0_nq : NATURAL := 2850;
         CONSTANT rdown_i1_nq : NATURAL := 2850;
       CONSTANT rup_i0_nq

CONSTANT rup_i1_nq

CONSTANT rup_i1_nq

CONSTANT tphl_i0_nq

CONSTANT tphl_i1_nq

CONSTANT tplh_i1_nq

CONSTANT tplh_i0_nq

CONSTANT tpl
     CONSTANT transistors : NATURAL := 4
);
PORT (
       i0
                                     : IN BIT;
         i1
                                       : IN BIT;
                                      : OUT BIT;
       nq
                                  : IN BIT;
       vdd
                                  : IN BIT
       VSS
);
END na2_x1;
ARCHITECTURE vbe OF na2_x1 IS
BEGIN
       ASSERT ((vdd and not (vss)) = '1')
       REPORT "power supply is missing on na2_x1"
      SEVERITY WARNING;
     nq <= NOT ((i0 AND i1)) AFTER 900 ps;
END;
```