mpc\_ eqcond\_e / eqcond\_e

## **SOLUTION**:

Let's analyze these signals for the specific case of a beq instruction (br\_eq = 1 and cnd eq en=1).

- If the equality compare result, computed at m14k\_edp as explained above, is 1 (edp\_cndeq\_e=1), then eqcond\_e and mpc\_eqcond\_e are set to 1, given that cnd\_eq\_en=1 for a beq instruction (omitting other signals also involved such as mpr\_run\_ie, mpc\_irval\_e, etc.).
- If the equality compare result is 0 (edp\_cndeq\_e=0), then eqcond\_e and mpc\_eqcond\_e are set to 0.

```
assign eqcond_e = edp_cndeq_e ? ((cnd_eq_en | eq_cond_noce) & mpc_run_ie) :

((cnd_neq_en | eq_cond_noce) & mpc_run_ie);

(cnd_neq_en | eq_cond_e = (eqcond_e | edp_dsp_pos_ge32_e & dec_redirect_bposge32_e & mpc_irval_e & mpc_run_ie)

*-mpc_int_pref_phase1;
```