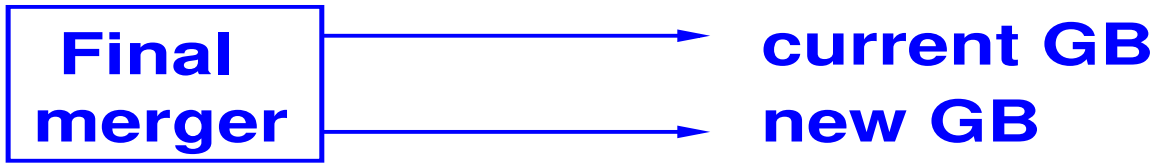
Current GB status;

(1) GB w/ new firmware is in the B0–crate6.
And I checked performance.



(2) Phi correction is seemed to be almost perfect.
(0 errors/20k words between svtsim/new GB)

(3) I.P. correction has tiny bug (trancated/rounded)
I already fixed this –-> check again in this week.

(4) Double buffering (L2buffer) for beam position
was already implimented.
Marco Resgino checked roughly. –-> OK.
May need to check more carefully (offline?)

Discussion for beam valid flag

(After confirming current double buffing works well)

Blue is conclusion of SVT M

(1) Each barrel update flag is needed or not?

(Some barrels is updated faster due to stat.)

→ "AND" of all barrels are more useful.

(2) L2 decision (or L3) needs update flag or not.

(Propagate update flag to track packet or EE?)

→ SVDD will be disappered, so this propagation is needed anyway.

(3) The way to handle beginning of store.

Options (Defalut: No SVT cable propergation, but event record has AND of all barrel valid flag)

(1) No propergation for SVT cable, but propergate each barrel valid flag to the event record.

(2) Mark each track with a bit derivered from the valid flag for its zin, and propergate six individual valid flag to event record

(3) In addition to (2), mark each event with a bit of AND of valid flag of all six barrels.

(4) In addition to (3), instruct L2 to handle events containing the "no valid beam" EE in a special way (but trigger–table–dependent). i.e. "SVT beam problem" trigger (FAIL all normal SVT trriggers but PASS special triggers)