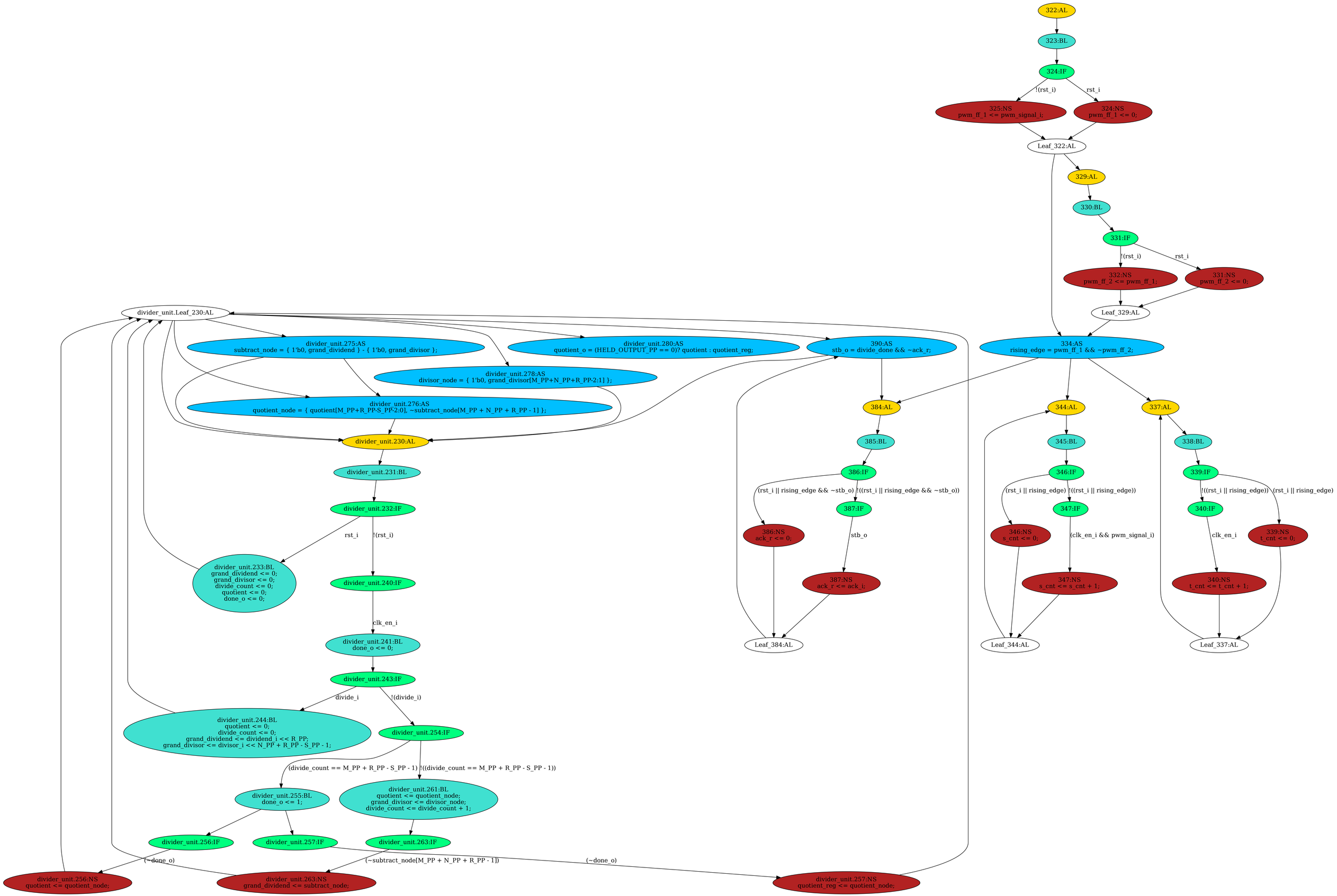
322:AL
323:BL
324:IF
!(rst_i)
rst_i
325:NS
pwm_ff_1 <= pwm_signal_i;
324:NS
pwm_ff_1 <= 0;
Leaf_322:AL
329:AL
330:BL
331:IF
!(rst_i)
rst_i
332:NS
pwm_ff_2 <= pwm_ff_1;
331:NS
pwm_ff_2 <= 0;
Leaf_329:AL
divider_unit.Leaf_230:AL
divider_unit.275:AS
subtract_node = { 1'b0, grand_dividend } - { 1'b0, grand_divisor };
divider_unit.280:AS
quotient_o = (HELD_OUTPUT_PP == 0)? quotient : quotient_reg;
390:AS
stb_o = divide_done && ~ack_r;
334:AS
rising_edge = pwm_ff_1 && ~pwm_ff_2;
divider_unit.278:AS
divisor_node = { 1'b0, grand_divisor[M_PP+N_PP+R_PP-2:1] };
divider_unit.276:AS
quotient_node = { quotient[M_PP+R_PP-S_PP-2:0], ~subtract_node[M_PP + N_PP + R_PP - 1] };
384:AL
344:AL
337:AL
divider_unit.230:AL
385:BL
345:BL
338:BL
divider_unit.231:BL
386:IF
346:IF
339:IF
divider_unit.232:IF
(rst_i || rising_edge && ~stb_o)
!((rst_i || rising_edge && ~stb_o))
387:IF
(rst_i || rising_edge)
!((rst_i || rising_edge))
347:IF
!((rst_i || rising_edge))
(rst_i || rising_edge)
340:IF
rst_i
!(rst_i)
386:NS
ack_r <= 0;
stb_o
346:NS
s_cnt <= 0;
(clk_en_i && pwm_signal_i)
clk_en_i
339:NS
t_cnt <= 0;
divider_unit.233:BL
grand_dividend <= 0;
grand_divisor <= 0;
divide_count <= 0;
quotient <= 0;
done_o <= 0;
divider_unit.240:IF
387:NS
ack_r <= ack_i;
347:NS
s_cnt <= s_cnt + 1;
340:NS
t_cnt <= t_cnt + 1;
clk_en_i
divider_unit.241:BL
done_o <= 0;
Leaf_384:AL
Leaf_344:AL
Leaf_337:AL
divider_unit.243:IF
divide_i
!(divide_i)
divider_unit.244:BL
quotient <= 0;
divide_count <= 0;
grand_dividend <= dividend_i << R_PP;
grand_divisor <= divisor_i << N_PP + R_PP - S_PP - 1;
divider_unit.254:IF
(divide_count == M_PP + R_PP - S_PP - 1)
!((divide_count == M_PP + R_PP - S_PP - 1))
divider_unit.255:BL
done_o <= 1;
divider_unit.261:BL
quotient <= quotient_node;
grand_divisor <= divisor_node;
divide_count <= divide_count + 1;
divider_unit.256:IF
divider_unit.257:IF
divider_unit.263:IF
(~done_o)
(~subtract_node[M_PP + N_PP + R_PP - 1])
(~done_o)
divider_unit.256:NS
quotient <= quotient_node;
divider_unit.263:NS
grand_dividend <= subtract_node;
divider_unit.257:NS
quotient_reg <= quotient_node;