# /KU_TriCopter_vtol_manual_control_01, Async Graph
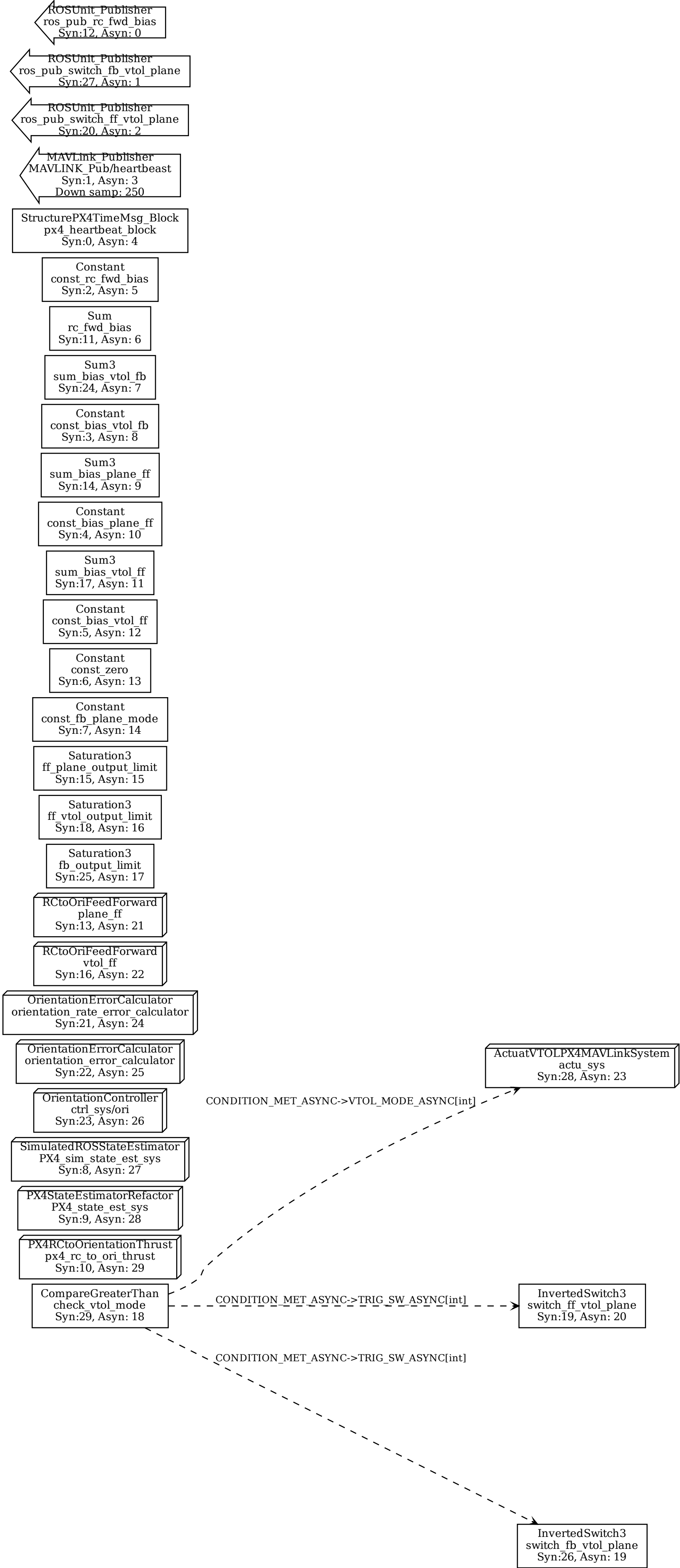
ROSUnit_Publisher
ros_pub_rc_fwd_bias
Syn:12, Asyn: 0

ROSUnit_Publisher
ros_pub_switch_fb_vtol_plane
Syn:27, Asyn: 1

ROSUnit_Publisher
ros_pub_switch_ff_vtol_plane
Syn:20, Asyn: 2

MAVLink_Publisher
MAVLINK_Pub/heartbeast
Syn:1, Asyn: 3
Down samp: 250

StructurePX4TimeMsg_Block
px4_heartbeat_block
Syn:0, Asyn: 4

Constant
const_rc_fwd_bias
Syn:2, Asyn: 5

Sum
rc_fwd_bias
Syn:11, Asyn: 6

Sum3
sum_bias_vtol_fb
Syn:24, Asyn: 7

Constant
const_bias_vtol_fb
Syn:3, Asyn: 8

Sum3
sum_bias_plane_ff
Syn:14, Asyn: 9

Constant
const_bias_plane_ff
Syn:4, Asyn: 10

Sum3
sum_bias_vtol_ff
Syn:17, Asyn: 11

Constant
const_bias_vtol_ff
Syn:5, Asyn: 12

Constant
const_zero
Syn:6, Asyn: 13

Constant
const_fb_plane_mode
Syn:7, Asyn: 14

Saturation3
ff_plane_output_limit
Syn:15, Asyn: 15

Saturation3
ff_vtol_output_limit
Syn:18, Asyn: 16

Saturation3
fb_output_limit
Syn:25, Asyn: 17

RCtoOriFeedForward
plane_ff
Syn:13, Asyn: 21

RCtoOriFeedForward
vtol_ff
Syn:16, Asyn: 22

OrientationErrorCalculator
orientation_rate_error_calculator
Syn:21, Asyn: 24

OrientationErrorCalculator
orientation_error_calculator
Syn:22, Asyn: 25

OrientationController
ctrl_sys/ori
Syn:23, Asyn: 26

SimulatedROSStateEstimator
PX4_sim_state_est_sys
Syn:8, Asyn: 27

PX4StateEstimatorRefactor
PX4_state_est_sys
Syn:9, Asyn: 28

PX4RCtoOrientationThrust
px4_rc_to_ori_thrust
Syn:10, Asyn: 29

CompareGreaterThan
check_vtol_mode
Syn:29, Asyn: 18

ActuatVTOLPX4MAVLinkSystem
actu_sys
Syn:28, Asyn: 23

InvertedSwitch3
switch_ff_vtol_plane
Syn:19, Asyn: 20

InvertedSwitch3
switch_fb_vtol_plane
Syn:26, Asyn: 19

CONDITION_MET_ASYNC->VTOL_MODE_ASYNC[int]

CONDITION_MET_ASYNC->TRIG_SW_ASYNC[int]

CONDITION_MET_ASYNC->TRIG_SW_ASYNC[int]

As Built

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