+getMixedVelocities(out v_b: vector, out dq_j: vector, obj, stChi: vector) +getMixedVelocities(out v_b: matrix, out dq_j: matrix, obj, stChi: matrix)

+getBaseVelocities(out v_b: vector, obj, stChi: vector) +getBaseVelocities(out v_b: matrix, obj, stChi: matrix)

+get.robot_config(out robot_config: wbmBaseRobotConfig, obj)
+get.robot_params(out robot_params: wbmBaseRobotParams, obj)

-getJointValues(out jnt_q: vector, out jnt_dq: vector, obj, q_j: vector, dq_j: vector, joint_idx: integer[1..*], len: integer)
-checkInitStateDimensions(out result: logical, obj, stlnit: wbmStateParams)
-rigidBodyDynCJacobiansCS(out M: matrix, out c_qv: vector, out Jc: matrix, out djcdq: vector, obj, clink_conf: struct)

rigidBodyDynCJacobians(out M: matrix, out c_qv: vector, out Jc: matrix, out djcdq: vector, obj, idx_list: vector)

-rigidBodyDyn(out M: matrix, out c_qv: vector, wf_R_b_arr: vector, wf_p_b: vector, q_j: vector, dq_j: vector, v_b: vector)

rigidBodyDynCJacobians(out M: matrix, out c_qv: vector, out Jc: matrix, out djcdq: vector, obj)

-rigidBodyDynCJacobiansCS(out M: matrix, out c_qv: vector, out Jc: matrix, out djcdq: vector, obj, clink_conf: struct, idx_list: vector)

rigidBodyDynCJacobiansCS(out M: matrix, out c_qv: vector, out Jc: matrix, out djcdq: vector, obj, clink_conf: struct, wf_R_b_arr: vector, wf_p_b: vector, q_j: vector, dq_j: vector, v_b: vector)

-rigidBodyDynCJacobians(out M: matrix, out c_qv: vector, out Jc: matrix, out djcdq: vector, obj, wf_R_b_arr: vector, wf_p_b: vector, q_j: vector, dq_j: vector, v_b: vector, idx_list: vector)

-rigidBodyDynCJacobians(out M: matrix, out c_qv: vector, out Jc: matrix, out djcdq: vector, obj, wf_R_b_arr: vector, wf_p_b: vector, q_j: vector, dq_j: vector, v_b: vector)

rigidBodyDynCJacobiansCS(out M: matrix, out c_qv: vector, out Jc: matrix, out djcdq: vector, obj, clink_conf: struct, wf_R_b_arr: vector, wf_p_b: vector, q_j: vector, dq_j: vector, v_b: vector, idx_list: vector)

-initConfig(obj, robot_config: wbmBaseRobotConfig)

-rigidBodyDyn(out M: matrix, out c_gv: vector)

+get.stvLen(out stvLen: integer, obj)
+get.vqT_base(out vqT_b: vector, obj)
+get.init_vqT_base(out vqT_b: vector, obj)
+get.init_stvChi(out stvChi: vector, obj)
+set.init_state(obj, stInit: wbmStateParams)
+get.init_state(out stInit: wbmStateParams, obj)
+get.robot_body(out robot_body: wbmBody, obj)

+dispConfig(obj, prec: integer)