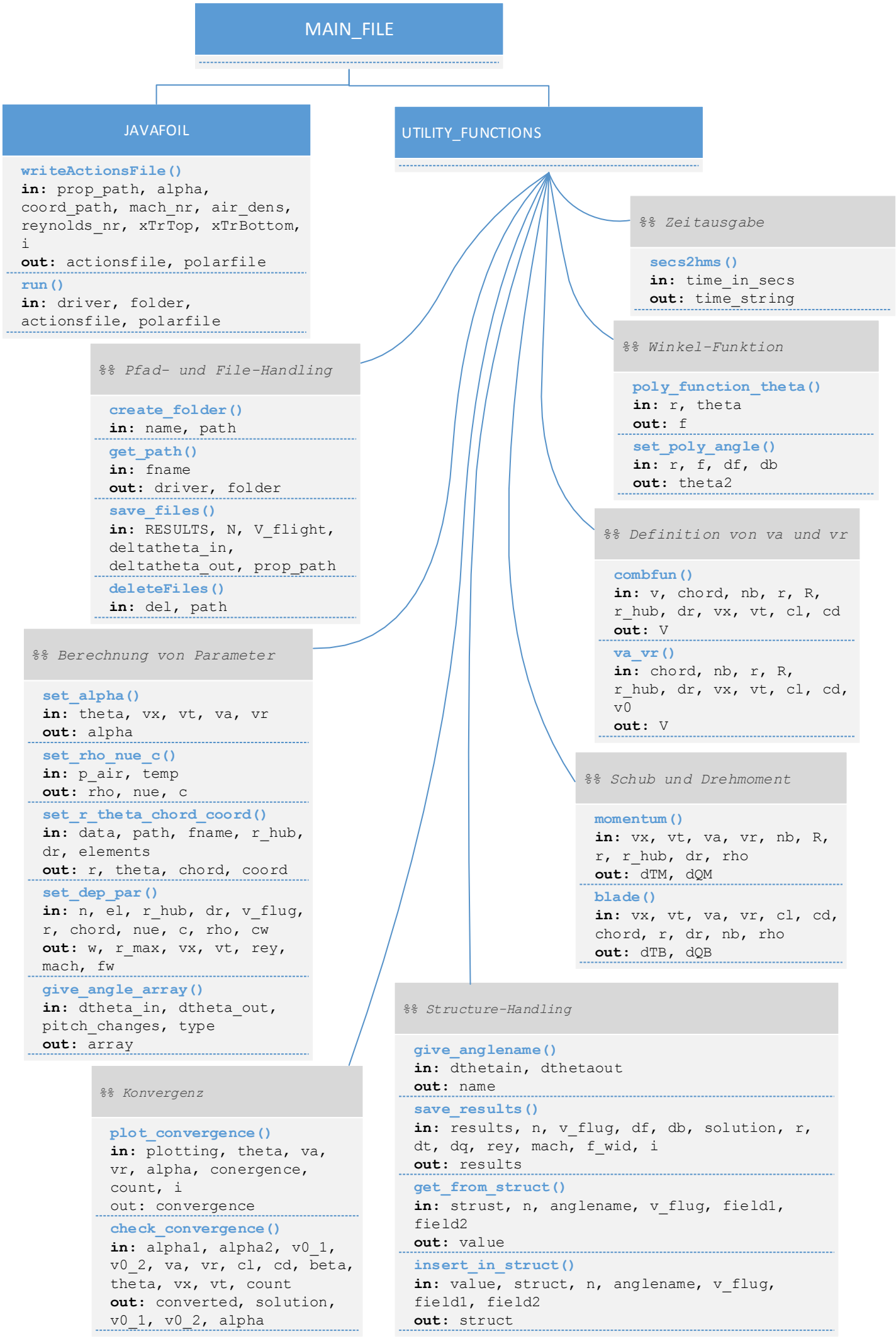
MAIN_FILE
JAVAFOIL
writeActionsFile()
in: prop_path, alpha, coord_path, mach_nr, air_dens, reynolds_nr, xTrTop, xTrBottom, i
out: actionsfile, polarfile
run()
in: driver, folder, actionsfile, polarfile
UTILITY_FUNCTIONS
%% Pfad- und File-Handling
create_folder()
in: name, path
get_path()
in: fname
out: driver, folder
save_files()
in: RESULTS, N, V_flight, deltatheta_in, deltatheta_out, prop_path
deleteFiles()
in: del, path
%% Berechnung von Parameter
set_alpha()
in: theta, vx, vt, va, vr
out: alpha
set_rho_nue_c()
in: p_air, temp
out: rho, nue, c
set_r_theta_chord_coord()
in: data, path, fname, r_hub, dr, elements
out: r, theta, chord, coord
set_dep_par()
in: n, el, r_hub, dr, v_flug, r, chord, nue, c, rho, cw
out: w, r_max, vx, vt, rey, mach, fw
give_angle_array()
in: dtheta_in, dtheta_out, pitch_changes, type
out: array
%% Konvergenz
plot_convergence()
in: plotting, theta, va, vr, alpha, conergence, count, i
out: convergence
check_convergence()
in: alpha1, alpha2, v0_1, v0_2, va, vr, cl, cd, beta, theta, vx, vt, count
out: converted, solution, v0_1, v0_2, alpha
%% Zeitausgabe
secs2hms()
in: time_in_secs
out: time_string
%% Winkel-Funktion
poly_function_theta()
in: r, theta
out: f
set_poly_angle()
in: r, f, df, db
out: theta2
%% Definition von va und vr
combfun()
in: v, chord, nb, r, R, r_hub, dr, vx, vt, cl, cd
out: V
va_vr()
in: chord, nb, r, R, r_hub, dr, vx, vt, cl, cd, v0
out: V
%% Schub und Drehmoment
momentum()
in: vx, vt, va, vr, nb, R, r, r_hub, dr, rho
out: dTM, dQM
blade()
in: vx, vt, va, vr, cl, cd, chord, r, dr, nb, rho
out: dTB, dQB
%% Structure-Handling
give_anglename()
in: dthetain, dthetaout
out: name
save_results()
in: results, n, v_flug, df, db, solution, r, dt, dq, rey, mach, f_wid, i
out: results
get_from_struct()
in: strust, n, anglename, v_flug, field1, field2
out: value
insert_in_struct()
in: value, struct, n, anglename, v_flug, field1, field2
out: struct