

iAircraft 2.0.2.0 Update Summary

1 Fixes / Minor Enhancements

These items are:

- The Euler Integration block (with reset) used in the EcsSystemScoped example Simulink model referenced a library unavailable to iAircraft users. The integrator library block has been replaced with source.
- The ECS volume subsystem was updated to include the mass derivative term. This update affects some of the air cycle machine blocks and the volume block contained in the Environmental Control System library.

2 Major Enhancements

Several control modules were added to the Environmental Control System library:

- cabin pressurization control block represents the controller providing valve commands for regulating the pressure of a cabin zone
- avionics cooling control block represents the controller providing valve commands for the cooling flow into the aircraft avionics
- bleed air control block represents the controller providing valve commands for regulating the bleed air
- air condition control block represents the controller providing valve commands for the temperature control of the cabin