File Modules Components Parents Instances InstancdOf Ins Outs Links Options

Selected Entity:

ControlMissionFlight

File:

rsl/examples/asct.rsl

Objects:

ActualFlightPath
Aircraft
AircraftAttitudes
AircraftState
AircraftStructure
AutoBrakeCommand
AutoConfigCommand
AutoFlightMode
AutoFlightPathCommand
AutoLongitudinalTrimCommand
AutoRollRateCommand

Operations:

ControlAerodynamicBraking
ControlBrakingOnGround
ControlHeadingOnGround
ControlLiftConfig
ControlMissionFlight
ControlPitch
ControlRoll
ControlThrust
ControlYaw
ConvertForceToDisplacement
ConvertForcesToDisplacement

Text:

```
module ControlMissionFlight;

  from FlyMission import ActualFlightPath, TargetFlightPath,
       ExternalForcesOnActuator, AircraftAttitudes;
  from Mission import MissionState;
  from Aircraft import AircraftState, EnginesThrust;
  from ControlYaw import ExternalFroesOnYawActuator,
       DisplayedDirectionalTrimPos;
  from ControlAerodynamicBraking import DisplayedInflightBrakePos;
  from ControlPitch import Displayed/LongitudinalTrimPosition,
       ExternalForcesOnPitchActuator, StallAngleOfAttackWarning;
  from ControlLiftConfiguration import DisplayedConfigAndFailureStatus;

  operation ControlMissionFlight is
    components: ControlThrust, ControlPitch, ControlRoll, ControlYaw,
      ControlHeadinfgOnGround, ControlAerodynamicBraking,
      ControlBrakingOnGground, ControlLiftConfig, UpdateAircraftState;
    inputs: TargetFlightPath, ExternalForcesOnActuator,
      ExternalForcesOnYawActuator, ExternalForcesOnPitchActuator,
      EnginesThrust;
    outputs: DisplayedLongitudinalTrimPosition, StallAngleOfAttackWarning,
      DisplayedRollTrimPosition, DisplayedDirectinalTrimPosition,
      AircraftAttitudes, ActualFlightPath, DisplayedInflightBrakePosition,
```