SSJ100 LGSCU DESIGN AND TEST APPROACH

Hardware-in-the-Loop Simulation (HILS) for Design, Test, Integration and Rapid Control Prototyping

- The tight development schedules associated with most new aerospace and defense programs do not allow embedded system testing to wait for a prototype to be available
- Aircraft development programs are using desktop and HIL simulation to perform design, test, and integration in parallel
- A flight test is extremely costly and therefore the goal is to minimize any development occurring with flight test
- Using HIL simulation, the flight controls may be developed well before a real aircraft is available
- Using HIL simulation instead of flight test for the development of critical components such as flight controls has the potential to reduce any safety risks associated with testing



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