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A Novel Control System Simulation Modelling Method Considering the Real Hardware Platform and the Software Structure

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Highlights

- Both the effect of the hardware and software is considered in the novel simulation model.
- The interrupt structure in the DSP platform is imitated in the control system simulation model.
- All functions are organized and realized based on the code of the DSP.
- Unify of the parameters is conducted to make the system more efficiently.
- The simulation runtime decreases with the tolerable accuracy, which suits for the high speed motor driver system simulation.

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