عنوان مقاله:

Computing the dynamic reconfiguration time in component based real-time software

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خلاصه مقاله:

New microcontrollers with enhanced application capabilities for more complex scenarios are developed. However, the settings are volatile and ever-changing environment requires permanent systems that compatible with the new conditions. Dynamic re-configuration has a powerful mechanism for the implementation of the adaptation strategy. Real-time control system is one of the challenges for the implementation of dynamic re-configuration software. In previous works the Adapt.NET is adapted in framework of the implementation of component-based applications. A new web-based test complete re-configuration is proposed here with a limited time. The application dynamically re-configures the client-side component compatibility in case of failure of the component parts. in this article the timing behavior of the implemented dynamic reconfiguration algorithm is analyzed. The manner of the hybrid component-based applications adaptation during environmental condition changes are described as well. In this article ,in order to predict the implementation time the behavior of dynamic reconfiguration algorithm and the manner of real-time planning that can be adapted to environmental changes are assessed, as well as the correlation of reconfiguration during the deadline period.

کلمات کلیدی:

dynamic reconfiguration, blackout, reconfiguration time, adaptation, state

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