عنوان مقاله:

An Innovative Fault Injection Method in Embedded Systems via Background Debug Mode

محل انتشار:

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خلاصه مقاله:

The embedded systems usage in different applications is prevalent in recent years. These systems include a wide range of equipments from cell phones to medical instruments, which consist of hardware and software. In many examples of embedded systems, fault occurrence can lead to serious dangers in system behavior (for example in satellites). Therefore, we try to increase the fault tolerance feature in these systems. Therefore, we need some mechanisms that increase the robustness and reliability of such systems. These objects cause the on-line test to be a great concern. It is not important that these mechanisms work in which level (Hardware level, Software level or Firmware). The major concern is that how well these systems can provide debugging, test and verification features for the user regardless of their implementation levels. Background Debug Module is a real time tool for these features. In this paper we apply an innovative way to use the BDM tool for fault injection in an embedded system.

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

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