Abstract

Embedded systems are very complex and integrate heterogeneous components on a single chip. Testing methodologies differ in hardware and software domains. Hardware testing concerns with the functional verification whereas the software testing is concerned with the series of processes of dynamically executing a program with the given inputs to make sure that code does that what it was designed for. A multilevel testing method is concerned with both the hardware and software domain. In comparison to conventional approach it involves all levels of testing. This paper explores the multilevel test method for testing microcontroller based ECG System.

References

- Neelesh Jain et all, "Testing embedded system in Microcontroller based ECG recording system", at International Conference WECON 2011 held at Chitkara University Chandigarh.
- Stephan Schulz et all, "Multilevel Testing for Design Verification of Embedded
Multilevel Test Method for testing Microcontroller based ECG system

  - Description from http://www. opel. com
  - Blood pressure , web site http://www. blood pressure. com
  - Prof. K. Padmanbhan, "Microcontroller based heart rate meter"; Electronics for You, pp 58, may 2008.

Index Terms

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Keywords

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