Abstract

Use of embedded systems is increasing day by day in our daily life, mostly embedded systems are critical in nature. Most of them are critical in the sense of precious human lives and financial investment.The development and deployment of systems is also costly . If the error occurs after deployment it may cause heavy loss of precious human lives and money. To avoid such errors we propose Model Testing of Embedded System's software using Petri nets. This Research contains Complete construction process of Testing Framework of Embedded System software. It ensures safety, reachability, liveness properties of the proposed system according to provided coverage standards. And specify these properties using Linear Temporal Logic. At the end instance verification is performed on the proposed system.