**Problem Statement/Introduction**

**Introduction:**
- Regression
  - Setup and management is a huge part of ensuring the quality of Design Verification
  - Must be run often on daily/weekly basis
  - Enables early bug catching and improves coverage

**Problem Statement:**
- Database management - making sure that regression picks up the latest tag
- Manual effort in running regression on daily/weekly basis
- Scripting effort to create the automation
- Regression status report broadcasting

**Proposed Methodology/Advantages**

**Proposed Methodology:**
- vManager is a tool that provides a robust and interactive GUI by launching regressions using a distributed resource manager and get coverage metrics.
- Jenkins with vManager executes remotely, extract runs information and generate/send status, summary and coverage report.

**Advantages of using Jenkins:**
- Allows data base management by using GIT or CVS, so whenever there is changed code or new commits it will pick the tag and run the tests.
- Launch the regressions in weekly and daily, based on the time settings enabled in the configuration.
- Send the email report about the build success and build fails status
- Re-usability of different settings can be used among different projects, and it can launch regression for all subsystems within the project in same job

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**Jenkins Setup Details /Flow Chart**

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**Results Table**

**Conclusion**
- Jenkins along with GIT and Manager enabled automated regression flow without spending human hours on running regression and collecting the results.
- There are features and plugins in Jenkins to make reports from the MDV regressions available to developers, where detailed analysis is required.
- We could leverage usage of few Jenkins plug-ins as per our project requirement, there are more to explore and exploit from this app

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**REFERENCES**

- https://support.cadence.com/apex/ArticleAttachmentPortal?id=a1O0V000009EMQZQA4&pageTitle=ArticleContent
- https://plugins.jenkins.io/vmanager-plugin/

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