Monthly Report (October)

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Projects: -

Throughout this period (1st Oct – 31st Oct), I have been assigned with multiple projects to work on which are: -

1) Options not dumped in output-sdc file while writing the constraints.
2) "set_clock_latency" command is not handled properly.
3) "group_path" SDC reading slow.

Description: -

Project 1:

There are few commands which has few user specified options which are not dumped into output sdc-file. The task is to dump all the options into output sdc-file whether they are ignored or supported as a pass-through option.

Added pass-through options on all commands and create multiples unit cases to validate the changes. After testing it with whole oasys testcases, checked-in the changes.

Progress : Completed.

Project 2:

- Explored the flow of report timing like how Timer is calculating Arrival Time/Required Time values and how the exceptions are getting applied.
- Debugged various APIs to get the clear idea of AT calculation.
- Validates the changes with multiple scenarios.
- Tested with unitcases and checked-in the changes.

Progress : Completed.

Project 3:

- Started investigating about the issue.
- Instead of using read_sdc for reading sdc, if we source original SDC with group_paths then it is taking about 1hr to load SDC. Using this experiment it was clear that there is some issue while reading sdc using read_sdc.
- Investigating the function and added multiple "print" statement to figure out which part of code is taking maximum amount of time.

Progress : In Progress.