Intelligent software for a good productivity and a great Methodology

To win the wasted of time in "unproductive" simulations, the bebcom's team created an active tool to control the good progress of the simulations (**Spectre**, SpectreRF, Hspice, HspiceRF, Eldo, ADS) in real time.

Claudia MTFD® :

- **I** s a Software solutions to turn around better analog/RF faster and less risks

- **C** an test in real time the simulations, analyze the data and intervene on the simulator to interrupt or relaunch other simulations.

- **W** ill communicate the informations asked by the user as the results and the progress of simulations, comparisons between the simulations, comparisons between the simulations and a specifications.

Claudia MTFD® is a strong tool which:

G ives more time for the designer   **B** rings more methodology, quality and checks

H elps the project Managers/Designers to control the project and to take the good decisions

5 main tools to solve all the project problems

ClaudiaMTFD
More Time For Design

Aladin

✅ **Virtual verification agent**

✅ **Avoid costly mistakes such as saturation and breakdown voltage**

✅ **Helps you to cover all the specifications thanks**

Sherlock

✅ **Smart real-time-controller**

✅ **Stop & Restart simulations**

✅ **Detect the errors, warnings and special key-words in the Log files to warn the designer**

Lighthouse

✅ **Interactive environment to debug and fine-tune your schematics.**

✅ **Display curves and values**

✅ **Pinpoints the error in the Schematic so you can fine-tune the design**

Scribe

✅ **Personal documentation that reports in an easy-toread**

✅ **Automatic generation of datasheet and design documentation**

✅ **Final documentation (block pinout, variable Specifications, Results simulations history, final datasheet**
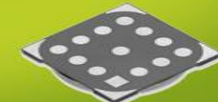
Status Quo

✅ **24/7 assistant that reports the state of the overall project**

✅ **Estimated completion schedule based on the current coverage and simulation still needed**

✅ **Project automatic update with estimation of number/ duration of simulations to be completed**

Radio Frequency | CADD Beb-Box | Mems & Sensors

ClaudiaMTFD
More Time For Design

Aladin

Usefull simulators

- RTDC

- RTTRAN

- RTBDJunction

- RTCorner

- RTLOG

- Monte Carlo

Design Management

Gestion of:

- Multi-Specifications

- Designers Team

- Multi-Netlists

- Multi-Outputs

- Scenarios/Variable sweep

Status Quo

- Team Management

- Table of results

- Tables for specification coverage

- % of completion of the project

Sherlock

- Real - time controler

- Conditions/Equations control

- Convergence controle

- Job/Progress monitoring

- % of success

- Specification Coverage

Results DATA BASE

Scribe

- PDF Documents

- HTML/Excel files

- E-mail

- IG of results

LightHouse

- Efficient highlight

of the schematics

Main types of simulations

RT DC :

- Real Time Control of the DC operating point of transistors
- Real Time Control of the DC node voltage and current
- Controle of designer's equations
- Notifications

RT Tran :

- Real Time Control of the transient voltage or/and current signals
- Controle of designer's equations
- Notifications

RT Corners :

- Run all of sweep simulations (models, design variables, PVT …)
- Generate Automatically the Table of specifications with worst and best case
- Represents the results in several forms: 2D curve, Table, statistical results …
- Notifications

RT BD :

- Real Time Control of the breakdown Junction
- Controle of designer's equations
- Notifications

Claudia Tools Advantage

ClaudiaMTFD
More Time For Design

Advantage of Claudia MTFD tools

Design Time reduction

Reporting Time reduction

With Claudia

Without Claudia

Design and Simulation

Reporting

Design time

Advantage of Claudia MTFD tools

Time of setup simulation reduction

Relative efficacy of results exploitation

Total design time %

Without Claudia   With Claudia   Without Claudia   With Claudia