

### FOR INCREASED EFFICIENCY

SMASH 6.6 delivers ergonomic enhancements to constantly improve the overall user experience and productivity.

SMASH 6.6 also provides many features for improving the interoperability of SMASH with other analog and logic simulators.

Dolphin Solutions are ideal for small to medium size companies who target using affordable state-of-the-art design solutions with no compromises on performances or innovation.

### HIGHLIGHT ON THE SIMULATOR

#### Logic Simulator: Extended features

- Extended .LIB directive with the "incdir" option to define additional search directories for Verilog **include** files
- Extended .LIB directive with the "define" option to define Verilog macros from the simulator control file (in replacement of explicit Verilog **define** directives)
- Extended support of file I/O system function **\$fread** which allows reading a binary file into a Verilog memory.
- Extended support of **IOPATH RETAIN** delays in SDF constructs
- Extended support of data declaration in Verilog generate constructs (signal, variables ...)

#### Analog solver: Robustness & Interoperability

- Speed up the evaluation of parameters: 20 % gain in performances for advanced nodes (40 nm, 28 nm)
- Enhanced support of foundry model parameter sets

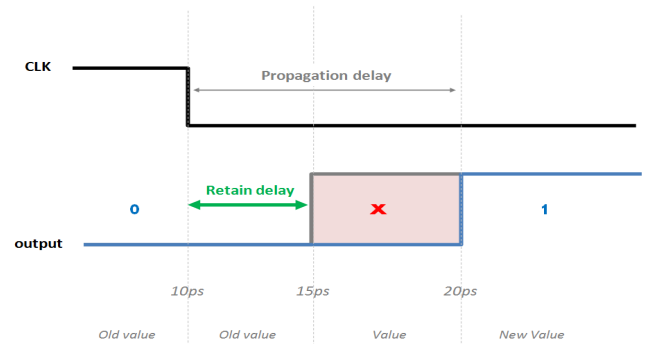
### ON THE ROAD TOWARDS 64 BITS

The 64-bit version of SMASH for Windows and Linux will provide performance gains for users with 64-bit systems. To partake in the SMASH 64-bit beta test, do not hesitate to contact us.



### FOCUS ON IOPATH RETAIN

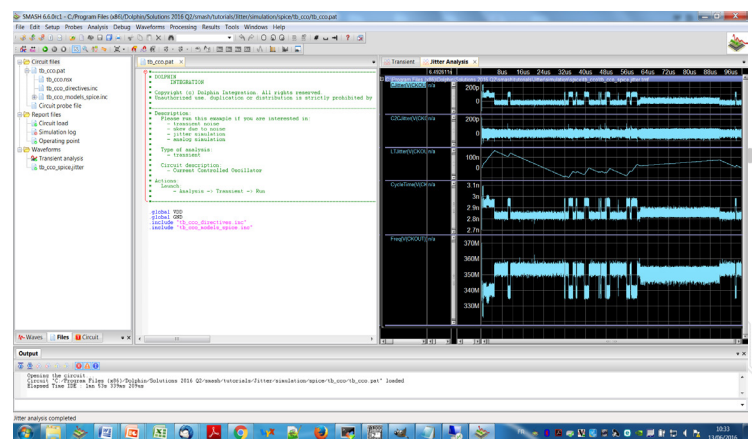
With standard SDF annotations, transitions on delayed outputs are represented as a single transition from the old value to the new value at a point in the simulation time. With IOPATH RETAIN support, designers can define the time up to which the previous value of an output remains valid, as distinct from the time at which the new value becomes valid.



IOPATH RETAIN illustration

### NEW IDE ERGONOMIC ENHANCEMENTS

- Higher stability of the graphic user interface for enhanced ease of use (simulator control file update, FFT and Jitter processing, big file generation...)
- Improved ergonomics of the display condition in the Add Traces Panel.



SMASH IDE

#### YOUR FEEDBACK MATTERS

SMASH is known as one of the best high speed mixed-signal simulators. To contribute suggestions and requests, please provide feedback on your user experience to [support@dolphin-integration.com](mailto:support@dolphin-integration.com).