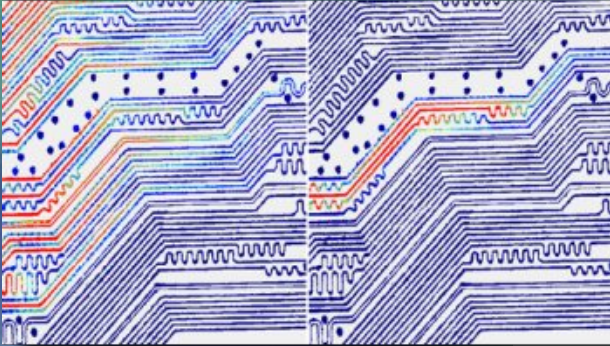


v19 drops this summer.



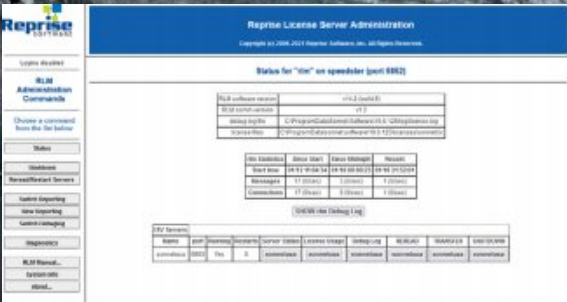
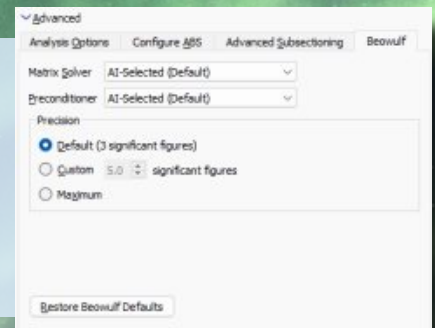
Beowulf Fast Solver

Culminating nearly a decade of development, Beowulf is the world's first commercial solver based on the Unified-FFT Algorithm. It combines FFT-enhanced fill with FFT-enhanced solve for order $N \log N$ scaling fast analysis all while able to compute to full numerical-precision.

Beowulf uses the same projects files and interface as always, simulates with same accuracy Sonnet is known for, while allowing for much larger projects with faster results than ever before.

AI Selector for Solver and Preconditioner

Focus on your design not the solver. While Beowulf benefits from $N \log N$ scaling, our direct full matrix solver is one of the most efficient there is. Users don't have to choose which solver to use unless they want to--our machine-learning based AI navigates a 15-dimension space to automatically select not only the best solver for the job, but the best preconditioner for any iterative solves.

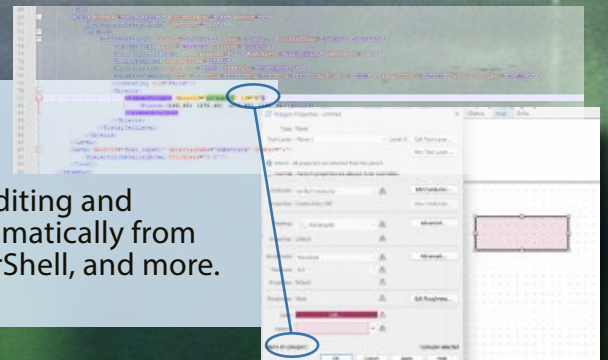


Reprise License Manager

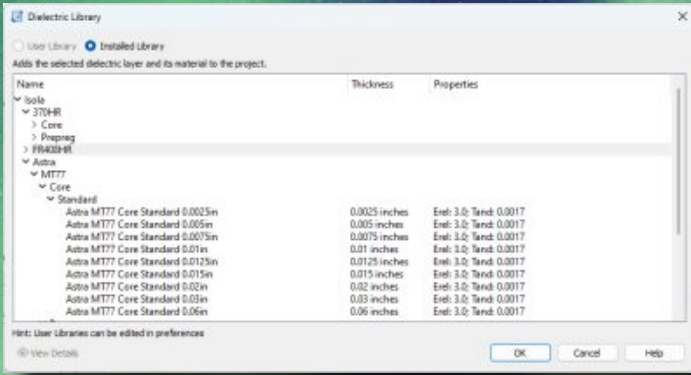
License management is easier than ever with the new license manager powered by Reprise software. Node-locked licenses drop in like always, and a web-based interface makes server configuration a breeze.

Macro Language and XML-Based File Format

With an all new file format based on XML, programatic project editing and optimization is easier than ever. Users can drive Sonnet programmatically from languages including Python, Ruby, MATLAB, C#, JavaScript, PowerShell, and more.



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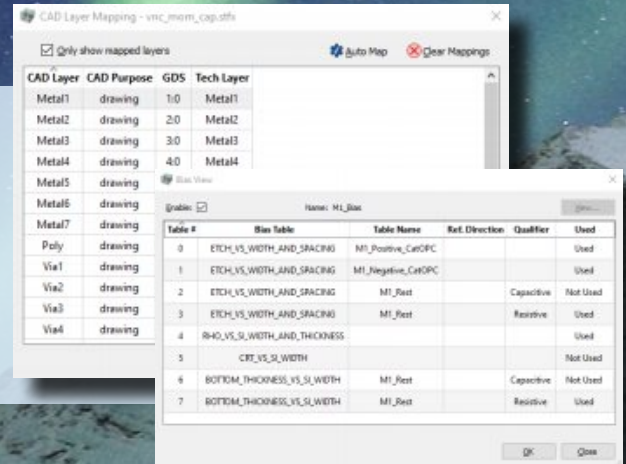


Expanded Material Library

A greatly expanded material library includes direct manufacturer support for material parameters including anisotropy. Lots of new materials and configuration are available to ensure the highest accuracy simulation.

Expanded Technology Files

Handling complex semiconductor processes has never been easier in Sonnet. Now with more accessible metal bias information, automatic CAD Layer mapping, derived-layer support, and encrypted data file format carryover and override, it's easy to make sure your simulation reflects your design.



Streamlined Documentation

Learning the software and new features has never been easier with the fully revamped online help.



Enhanced Performance for All Solvers

All purchased solvers are getting enhanced performance with v19's greatly increased thread limits. Best of all, all v19 High Performance Solver seats are all upgraded with full Beowulf capability free of charge.

Suite Level	v18 Threads	v19 Threads
Level 2 Basic	1	2
Level 2 Silver	1	4
Level 3 Gold	1	8
Pro Desktop	8	16
Pro High Performance	64	64 + Beowulf



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