

WrightSim

Kyle Sunden

Goals

Theory

NISE

Algorithmic
Improvements

Parallel
Implementations

Scaling Analysis

Limitations



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Kyle Sunden

University of Wisconsin–Madison

January 2, 2018

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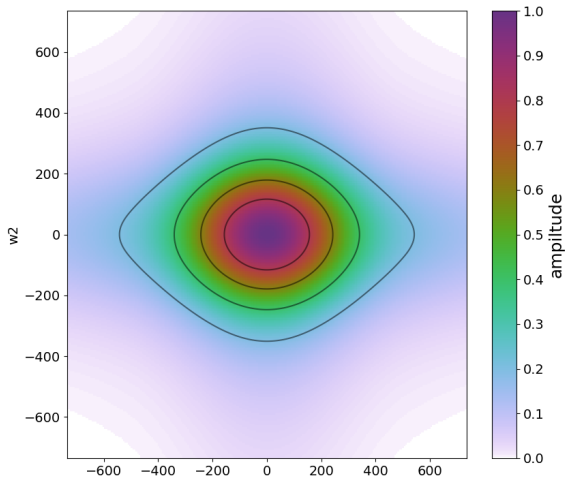
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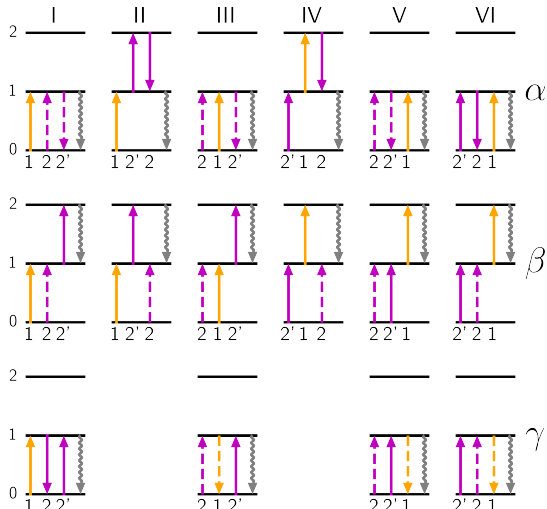
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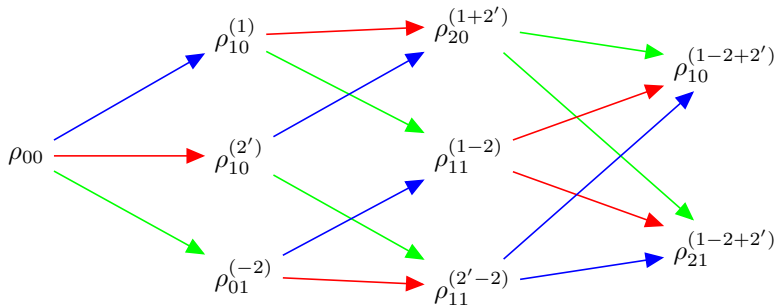
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$$\bar{\rho} \equiv \begin{bmatrix} \tilde{\rho}_{00} \\ \tilde{\rho}_{01}^{-2} \\ \tilde{\rho}_{10}^{2'} \\ \tilde{\rho}_{10}^1 \\ \tilde{\rho}_{10}^{1+2'} \\ \tilde{\rho}_{20}^{1-2} \\ \tilde{\rho}_{11}^{2'-2} \\ \tilde{\rho}_{11}^{1-2+2'} \\ \tilde{\rho}_{10}^{1-2+2'} \\ \tilde{\rho}_{21}^{1-2+2'} \end{bmatrix}$$



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$$\overline{\overline{Q}} \equiv \begin{bmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ -A_2 & -\Gamma_{10} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\ A_{2'} & 0 & -\Gamma_{10} & 0 & 0 & 0 & 0 & 0 & 0 \\ A_1 & 0 & 0 & -\Gamma_{10} & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & B_1 & B_{2'} & -\Gamma_{20} & 0 & 0 & 0 & 0 \\ 0 & A_1 & 0 & -A_2 & 0 & -\Gamma_{11} & 0 & 0 & 0 \\ 0 & A_{2'} & -A_2 & 0 & 0 & 0 & -\Gamma_{11} & 0 & 0 \\ 0 & 0 & 0 & 0 & B_2 & -2A_{2'} & -2A_1 & -\Gamma_{10} & 0 \\ 0 & 0 & 0 & 0 & -A_2 & B_{2'} & B_1 & 0 & -\Gamma_{21} \end{bmatrix}$$



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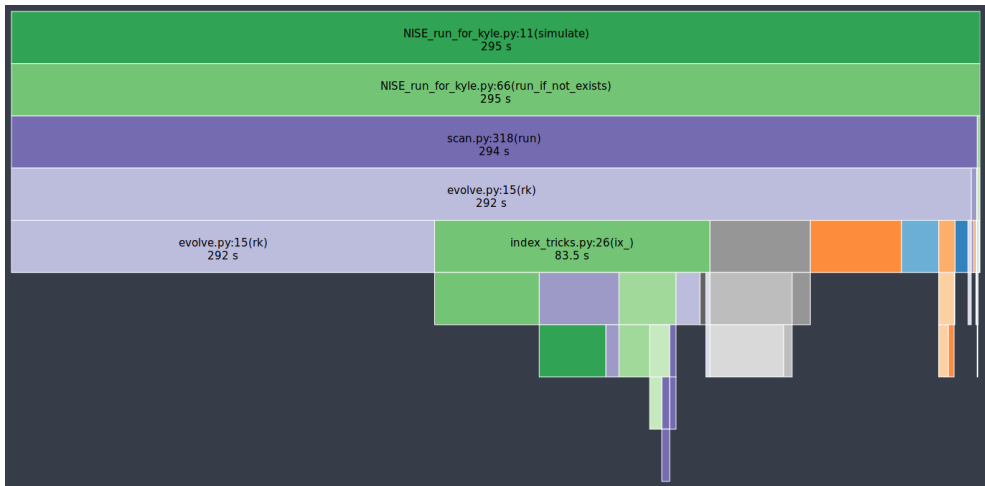
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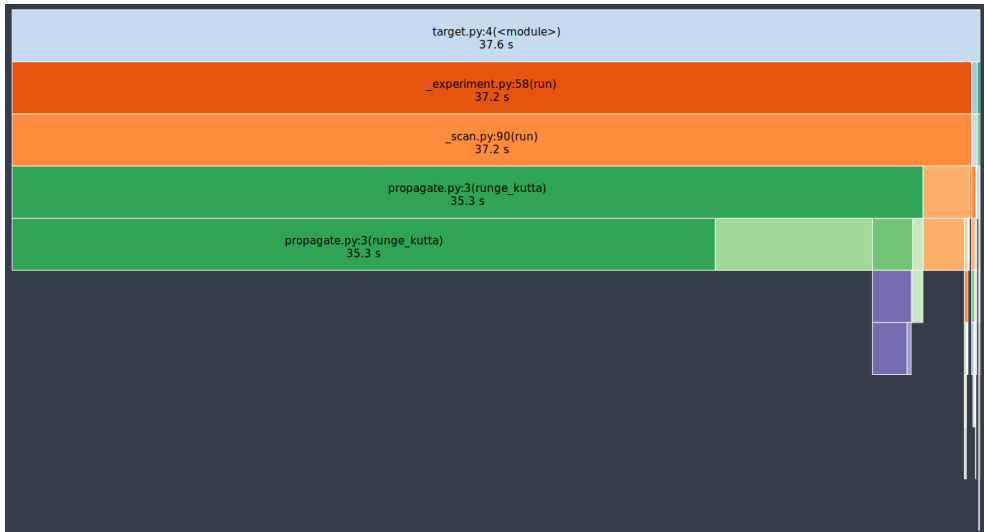
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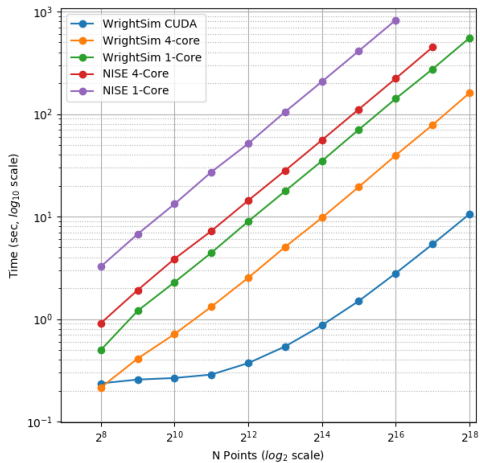
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