



MODEL CONFIGURATION
Grid: 512x512
Backend: CUDA (GPU)
Equation: $\nabla^2 P = 0$ (Laplace)
Boundary Conditions:

- $P = 1.0$ (arteries)
- $P = 0.0$ (veins)
- $\nabla P \cdot n = 0$ (Neumann)

Obstacles:

- Two internal random ellipses (no vessel growth)

Growth Prob.:
 $p_i \propto |\nabla P|^{1.5}$ Type rule (original):

- New vessel copies type of neighbor with max P

Statistics:
Iterations: 97816
Vessels: 97818
Fraction: 37.31%
Time: 2884.96s
Speed: 34 iter/s
References:

- Niemeyer et al. (1984)
- Fleury & Schwartz (1999)