



The UK's National Supercomputing Service

Simulation of a healthy heart

The image shows the main structures of the heart of a healthy person. To study cardiac physiology (in health and disease) we run electromechanics simulations on ARCHER2. In these simulations the heart is discretized, meaning that it is represented as a set of vertices and triangles, as shown in the image. The smaller the triangles, the more accurate the simulation will be but also a higher number of differential equations will need to be solved, therefore at a much higher computational cost.

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www.archer2.ac.uk

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