Evolutionary Mechanics

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Abstract

We developed an application that is able to develop mechanical structures using an evolutionary algorithm. This approach can be scaled efficiently across many different nodes.

1 Method

Our project is divided in two sections and corresponding layers of parallelism. The first one is solving the mechanical equations to check if a mechanical structure can withstand a force. Figure 1

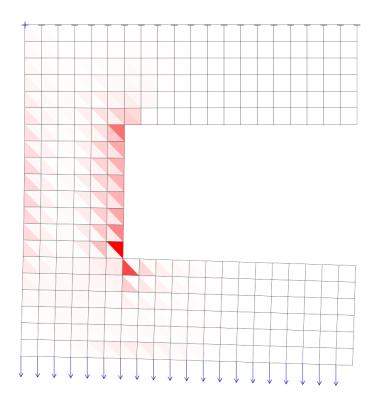


Figure 1: Result of a mechanical simulation