

# Re: Graph Theory: Cutting a Graph into Two in an Artificial Chemistry

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*Source:* <http://sci.tech-archive.net/Archive/sci.math/2008-08/msg00071.html>

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  - *Date:* Fri, 01 Aug 2008 12:26:00 EDT
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I don't have time to do this "properly", but the general question for general graphs has the feel of NP-Complete. However, your situation will have many many more constraints on the graph. For example, you won't have 6000 vertices, all mutually connected.

It feels to me like the graphs you are interested in will have only limited sorts of minimal cycles, and each "atom" will have small degree. In that case there are going to be clever branch-and-bound searches that should work.

I don't, however, know of anything "off the shelf".

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