



NanoHive-1 (NH1) is a modular simulator created by Brian Helfrich which is used for modeling the physical world at a nanometer scale. The intended purpose of the simulator is to act as a tool for the study, experimentation, and development of nanotech entities. NanoHive-1 is a GPL/LGPL licensed [open-source](#) development - you can download and use it for free. NanoHive-1 can be run stand-alone, or easily integrated to support other applications such as CAD tools.



NanoHive@Home (NHAH) is a distributed computing system also created by Brian Helfrich based on the BOINC platform that was used for large-scale nanotech systems simulation and analysis; drawing its computing power from otherwise idle computers sitting in people's homes. The goal of NanoHive@Home was to perform large-scale nanosystems simulation and analysis that was otherwise too intensive to be calculated via normal means, and thereby enable further scientific study in the field of nanotechnology.

The Tooltip Failure Mode Search Project, conducted by Brian Helfrich and Dr. Damian Allis ran on NHAH from February 2007 through May 2007. It utilized computing cycles donated from over 6,000 computers worldwide and reached a peak performance of nearly 3 teraFLOPS. Here are links to the explanations and results of the project:

1. [Explanation](#)
2. [Results](#)

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**Please note:**

*I'm no longer maintaining NanoHive-1 nor NanoHive@Home. If you would like to take over either or both of the projects please contact me and I can help you (or at minimum hand over the keys.) --[Brian](#).*

**Questions/Answers**

RealSanta, founder of Team SETI.Germany-NH writes:

> As I read at the nh-homepage the project is "dead"?  
*Yes, sad to say the project is effectively dead. I no longer work at Nanorex, and they have no interest in keeping NHAH alive. I'm open to another team taking over the platform though.*

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