

chemical CPU

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AI Overview

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A chemical computer, also known as a reaction-diffusion computer, is a **computer that uses chemical reactions to store and process data**. Chemical computers are experimental and use chemical systems instead of hardware.

How it works

- A chemical computer uses a semi-solid chemical mixture, called a "soup".
- The concentration of chemicals in the mixture represents data.
- The chemical reaction in the mixture performs computations.
- The reaction is controlled by mechanical stirrers that adjust the speed of the reaction in each cell.
- The reaction produces flashes of red or blue light in each cell.
- The color flashes represent 1s and 0s, similar to electronic computers.
- A video camera records the flashes and uses the information to adjust the stirrers and continue the computation.

Benefits

- Chemical computers may be easier to produce and more durable than traditional computers.
- They may be able to operate without electricity.
- They may be able to perform basic image processing.

Chemical computer - Wikipedia

This article is about computation using molecular and chemical systems. For computation using single molecules as active elements,

Wikipedia

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
Generative AI is experimental.

A chemical computer, also called a reaction-diffusion computer, Belousov–Zhabotinsky (BZ) computer, or gooware computer, is an

unconventional computer based on a semi-solid chemical "soup"
where data are represented by varying concentrations of chemicals.

 Wikipedia
https://en.wikipedia.org/wiki/Chemical_computer

Chemical computer - Wikipedia

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by JM Parrilla-Gutierrez · 2020 · Cited by 75 — We present a **programmable chemical processor** comprising of a 5 by 5 array of cells filled with a switchable oscillating chemical (Belousov–...

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 Wikipedia
https://en.wikipedia.org/wiki/Molecular_processor

Molecular processor

A molecular processor is a **processor that is based on a molecular platform** rather than on an inorganic semiconductor in integrated circuit format.

 ZipRecruiter
<https://www.ziprecruiter.com/career/What-Is-How-t...>

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Basic Structural Representation: Shows the overall structure of the ligand. Detailed Structural Representation: Highlights individual atoms within the ligand.

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Silicon (or whatever else) is doped to create N type and P type materials. One being more positively charged, the other more negatively charged.

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