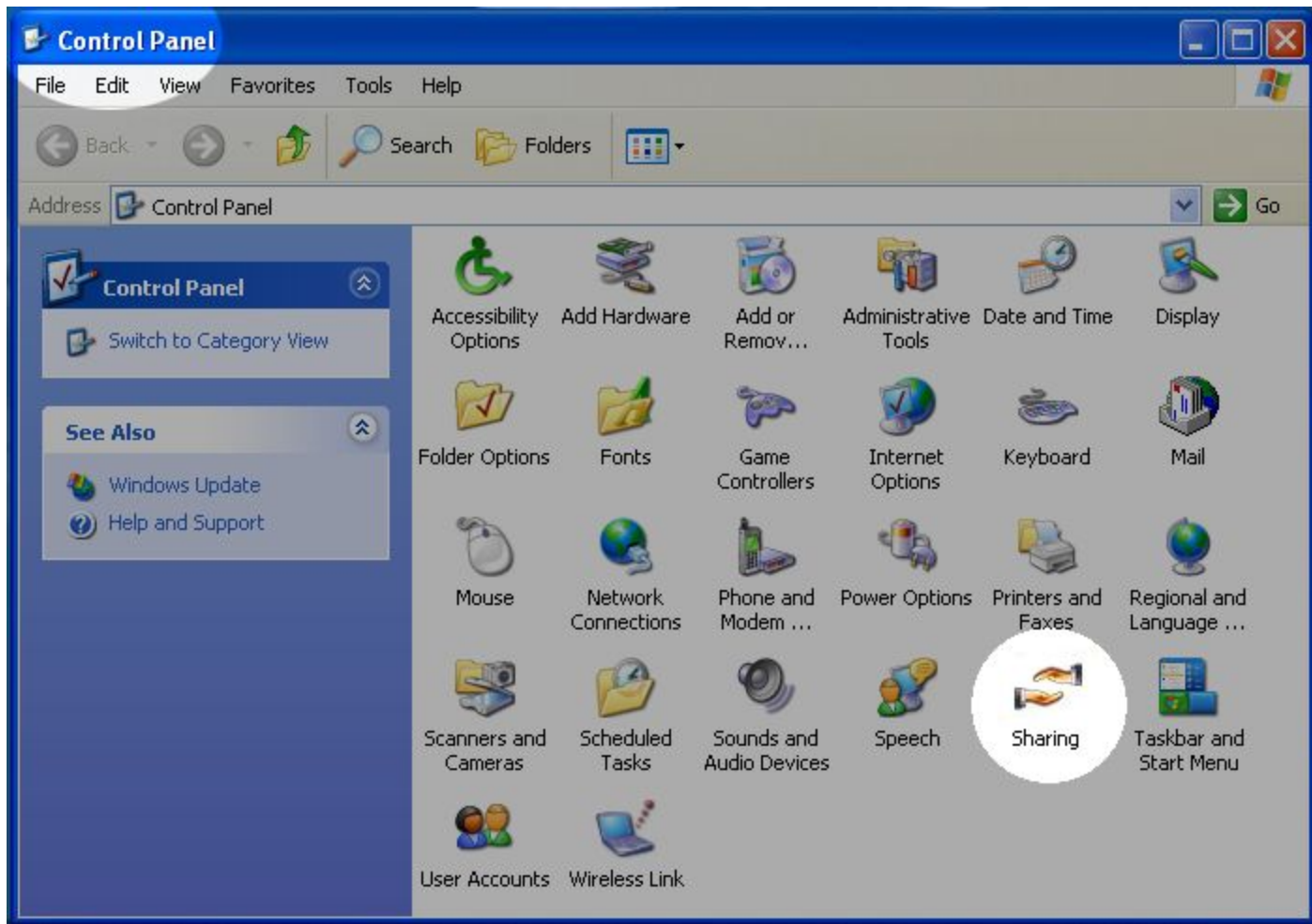




gridrepublic network computing





Sharing Properties

Settings Search Projects Current Project Statistics

Search and select from a list of categories and projects of your interest. Monitor your contribution to the project and of others.
Current project selected: *None*

Project History
[Medicine](#) > [Cancer Research](#) > [Lymphoma](#)

Available Projects
Total: 124

Project	Sponsor				
Non-Hutchkins	Cornell U.	34%	1,345,975	N	
Hutchkins	Pfiser	23%	453,456	Y	
Non-Hutchkins	Cornell U.	34%	1,345,975	N	

Project Description
Details: Research blah, blah, blah.
Web: www.university.edu
Start Date: 12/7/02
End Date: N/A

Select Project

OK Cancel Apply

CE Overvi x My Drive x Home - G x CE Overvi x GridRepu x +

https://www.gridpublic.org/ind... A ☆

Gmail JIRA GR/CE BOINC Find Picador iXbio AI Research > Other Favorites

gridpublic volunteer computing

HOME ABOUT PROJECTS GIVING GEAR STATS COMMUNITY HELP

SHARE YOUR COMPUTER TO ADVANCE SCIENCE AND MEDICINE

NEWS

New Hope for Brain Cancer Patients

Processing power volunteered through [Rosetta@home](#) made possible design of a promising new brain cancer medicine, "Toca 511", now in clinical trials. [Read more.](#)

Try our Facebook App

Developed in partnership with Intel, [Progress Thin Processors](#) makes volunteering your computer even easier. (*Winner of a 2012 Facebook Studio Award.

[more news](#)

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Developed in Collaboration with BOINC

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PROJECTS


CURRENT PROJECTS

Show All Projects

- SETI@home
- Rosetta@home
- PrimeGrid
- Milkyway@home
- Africa@home
- BBC Climate Change
- Yoyo@home
- World Community Grid
- Cosmology@home
- SIMAP
- Enigma@home/M4
- Predictor@home
- Spinhenge

DETAILS

SETI@home



enlarge

SETI (Search for Extraterrestrial Intelligence) is a scientific area whose goal is to detect intelligent life outside Earth. One approach, known as radio SETI, uses radio telescopes to listen for narrow-bandwidth radio signals from space. Such signals are not known to occur naturally, so a detection would provide evidence of extraterrestrial technology.

Radio telescope signals consist primarily of noise (from celestial sources and the receiver's electronics) and man-made signals such as TV stations, radar, and satellites. Modern radio SETI projects analyze the data digitally. More computing power enables searches to cover greater frequency ranges with more sensitivity. Radio SETI, therefore, has an insatiable appetite for computing power.

Sponsor: University of California, Sun Microsystems, Planetary Society, and others

Start Date: May 1999

Users: 1,808,938

Project URL: <http://setiathome.berkeley.edu/>

Results: for publication

Previous *Note: This project is currently suspended.* Next

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Progress Thru Processors

www.facebook.com/progressthruprocessors/app_1988718150007app


Progress Thru Processors

You are posting, commenting, and liking as **Matthew Blumberg** — Change to Progress Thru Processors

Progress Thru Processors My Progress Liked

WELCOME CAUSES HOW TO JOIN ABOUT & FAQ


intel PROGRESS THRU PROCESSORS BACK TO DASHBOARD in association with gridrepublic

Your Computer Has a 

INVITE FRIENDS Your power - combined with others - makes possible cutting edge research in Cancer, AIDS, Climate Change, Malaria and other causes.

8.1k Total Users Progress Thru Processors	469k Donated Computer Time G-years	4 Minutes It Takes to join
---	--	----------------------------------

Matthew Blumberg, Mo Vilar and 180,422 others like this.



McAfee SECURE TESTED 12-MAR

click to learn more about intel | gridrepublic

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Application © GridRepublic.
Built with BOINC.

About Create Ad Create Page Developers Careers Privacy Cookies Terms Help

Chat (14)

2009

GET STARTED IN 3 EASY STEPS

[? Help](#)

1

FAMILIARITY WITH VOLUNTEER COMPUTING

Do you already have a BOINC, GR or WCG Account?

Yes No

2

DOWNLOAD

Please click below to download a copy of our desktop software. *PTP won't work without this.*

Download

3

RUN THE INSTALLER

When the download is finished, run to install our desktop software. [! Trouble downloading? Try again](#)

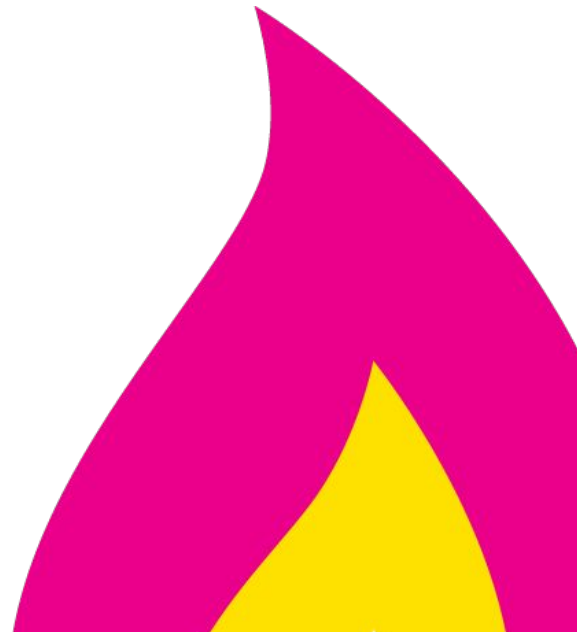
 Kay Wormington, Kristine M. Yapp and 160,632 others like this.



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Welcome to the Crowdsourced Cloud

A global grid of 500,000+ home PCs plus partner datacenters.

Easily run and manage software containers at scale via Web UI, API, CLI, and Smart Contract.

Ultra-low cost, ultra-low carbon, uses only surplus capacity of participating devices. ([lend yours](#))

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Contact Us

Learn More



The Crowdsourced Cloud

- Harness volunteered computing capacity for commercial use, to generate revenue for charities
- A portion of capacity committed to scientific research



Millions of compute-hours donated to science and medicine

The Crowdsourced Cloud

Recent Activity (core hours)

Last Day

659,199

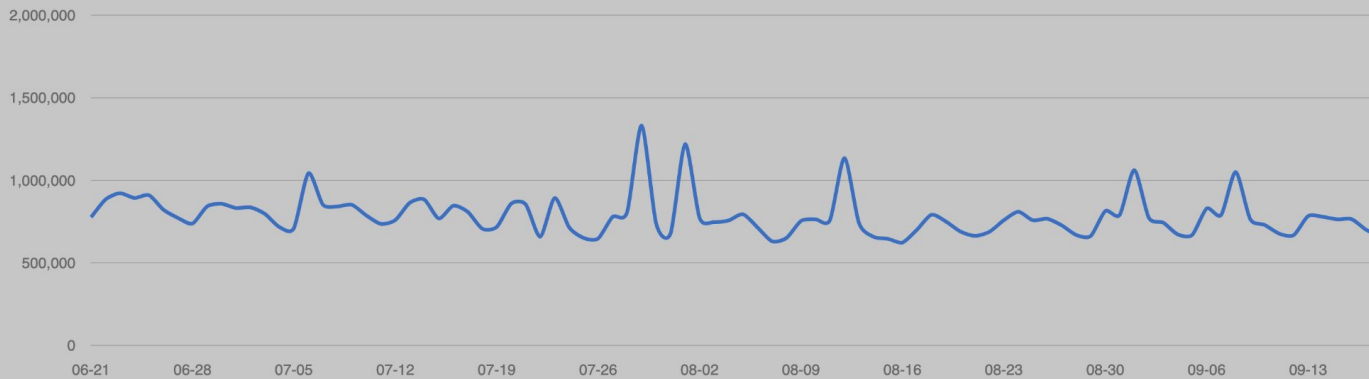
Last Month

22,022,244

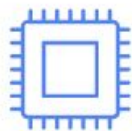
All Time

1,315,979,204

Recent Computing Usage



Grant Program:
*Over 1 Billion hours
donated to public
interest research*



1,000,000+
CPU cores



100,000+
GPUs



> 2 Petabyte
of Storage

Resource Standards

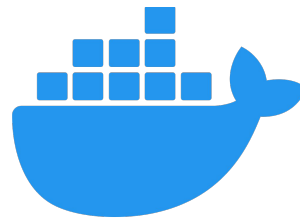
Resources are provisioned in "cloud-standard" instances:

Instance	vCPU	RAM	2-Core Benchmark
AWS c5.large	2	4	1,100
C.2x4	2	4	> 1,000
C.2x2	2	2	> 500

Software Standards

Run any Docker container
or WASM file

(*subject to specs of available instance types)



docker®



WEBASSEMBLY

App Store

Secure support for
proprietary software

ex. Wolfram Engine / Mathematica
(*First publishing partner)



WOLFRAM

Interface Standards

- API + CLI

```
C:\WINDOWS\system32\cmd.exe
H:\Dropbox\webpages\charityengine\remotejobs-cli>node remotejobs-cli.js
remotejobs-cli.js [args]

Options:
  --version          Show version number [boolean]
  --app              Application name (e.g. "charityengine:wolframengine"),
                    Docker image from Docker Hub (e.g. "docker:node:8-slim") or
                    a custom Docker image URL (e.g. "docker:image-name
                    https://example.com/file") [string] [required]
  --auth            Authorization key [string] [required]
  --batch           Arbitrary data that will be linked to a job and returned
                    with results. Used to categorize jobs into batches, limited
                    to 200 bytes [string] [default: null]
  --cache-inputs   Configures input file persistence. If enabled, input files
                    may be cached on the compute node side for repeat
                    computations. Should be disabled for dynamically changing
                    data. Accepts strings "all" and "none", or a zero-indexed
                    list of input files to cache (e.g. 0 2 would cache input
                    files zero and two). [array] [default: "all"]
  --checkpoint     Save state of running jobs and resume them upon restart of
                    the CLI. Prevents jobs with exactly identical parameters
                    from running more than once, even after restarts of the CLI
                    [boolean] [default: false]
  --checkpointfile Location and filename of the checkpoint file [string]
  --commandline    Command line to execute. If using Docker images, command
                    line should not include the command to execute Docker. It
                    should be the command that will run inside the Docker
                    container [string] [required]
  --copies         Number of identical copies to execute [number] [default: 1]
  --debug          Enables debug messages [boolean] [default: false]
  --env            List of additional environment variables as key-value pairs
                    to be passed to the job [array]
  --eula           If running proprietary applications, marks whether end-user
                    licence agreement of the application is accepted. Must be
                    set to a string "accepted" for the jobs to be accepted into
                    the system [string]
  --exitafterstart Exits the CLI after starting a job. Useful to run multiple
                    jobs in parallel without spiking up memory usage
                    [boolean] [default: false]
  --filechunksize File part size to use when staging input files, in bytes
```


Interface Standards

- API + CLI
- Web UI beta

The screenshot displays the charityengine web interface. The top navigation bar includes a search bar, links for Enterprise, Pricing, Documentation, Network Status, News, and a Logout button. The left sidebar features a user profile with initials 'NL' and a list of menu items: Computing, Proxy, Billing, Documentation, and Account. The main content area is titled 'Computing' and contains a 'Create Reservation' form and a summary table.

Computing Features in active development. **BETA**

Dashboard | **Create Reservation** | Results | Settings

Create New Reservation

Instance Type 📘
CE.2x2

Offer OFFER (USD/hr) 📘 NUMBER AVAILABLE
0.001 200

Number of Nodes 📘
42

Hours per Node 📘
4

Redundancy 📘
1

Software 📘 🔗 OFFER (USD/hr)
docker:wolframengine 0.001
 Accept license

Command Line 📘
python "2+2"

Input Files 📘 🔗 🔗
http://www.example.com/files
http://www.example.com/files

Submit

Estimated Execution Cost

Computing Runtime	\$3.67
Software Runtime	\$7.34
Total Cost	\$11.01

Interface Standards

- API + CLI
- Web UI ^{beta}

charityengine

Search Enterprise Pricing Documentation Network Status News Logout

NL
Name Lastname

Computing
Proxy
Billing
Documentation
Account

Computing

Features in active development. **BETA**

Dashboard Create Reservation Results Settings

Dashboard

Active Reservations
Currently in progress
8,138,112

Completed Reservations
Last 14 days
8,157,883

Exceptions Reservations
Last 14 days
N/A

Recent Computing Usage

2020-09-24
Runtime: \$5,307
Tasks: 135,188
Downloads: 0

Help Links

Interfaces
[WebUI](#)
[CLI](#)
[API](#)
[GnuParallel](#)

Instance Types
[Computing Overview](#)
[Pricing](#)

Partners
Care
Orphan
UNICEF

Proud participant of
IDGF
Internet
CONCORDIA

Legal
Volunteer Terms & Conditions
Marketplace Terms & Conditions
Privacy & Cookies
Prize Draw Rules

News
The Mystery of 42 is Solved
- Numberphile

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Interface Standards

- API + CLI
- Web UI beta
- Lab Notebook



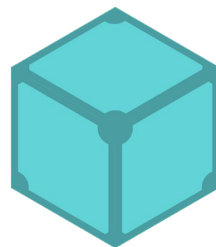
Interface Standards



- API + CLI
 - Web UI beta
 - Lab Notebook
 - Wolfram Language
- Access Charity Engine resources directly from within Wolfram Engine and Mathematica

Interface Standards

- API + CLI
- Web UI beta
- Lab Notebook
- Wolfram Language
- IPFS



IPFS

- Read/write to IPFS

Interface Standards



- API + CLI
 - Web UI beta
 - Lab Notebook
 - Wolfram Language
 - IPFS
 - Crypto / Smart Contract alpha
- Provision and use compute and storage via Smart Contract (*Initially Ethereum + Filecoin*)
 - *Build compute-powered "Smart Oracles", and more*



Use Cases

The Sum of Three Cubes (2019)

$$x^3 + y^3 + z^3 = k$$

The question, posed in 1954: can any number be represented as the sum of three cubes?

As of 2019 (65 years later), all values below 100 had been solved, *except 42*

The Sum of Three Cubes (2019)

$$x^3 + y^3 + z^3 = \mathbf{42}$$

Solved with >35M CPU core-hours
(*delivered in ~2 months)

X: -80538738812075974

Y: 80435758145817515

Z: 12602123297335631

Also Solved:

3 (*3rd known solution), 165, 579, 906

Andrew Booker, *Bristol University*

Andrew Sutherland, *MIT*

www.scientificamerican.com/article/for-math-fans-42

Math News - Biggest Math Breakth... For Math Fans: A Hitchhiker's Guid... Mathematicians Solve '42' Problem... The answer to life, the universe, an...


SCIENTIFIC AMERICAN. [Subscribe](#)

THE SCIENCES

For Math Fans: A Hitchhiker's Guide to the Number 42

Here is how a perfectly ordinary number captured the interest of sci-fi enthusiasts, geeks and mathematicians

By Jean-Paul Delahaye on September 21, 2020



Credit: Christina Hemsley Getty Images

Everyone loves unsolved mysteries. Examples include Amelia Earhart's disappearance over the Pacific in 1937 and the daring escape of inmates Frank Morris and John and Clarence Anglin from Alcatraz Island in California in 1962. Moreover our interest holds even if the mystery is based on a joke. Take author Douglas Adams's popular 1979 science-fiction novel *The Hitchhiker's Guide to the Galaxy*, the first in a series of five. Toward the end of the book, the supercomputer Deep Thought reveals that the answer to the "Great Question" of "Life, the Universe and Everything" is "forty-two."

[Support science journalism.](#) [See My Options](#)

news.mit.edu/2019/answer-life-universe-and-e

Math News - Biggest Math Breakth... For Math Fans: A Hitchhiker's Guid... The answer to life, the universe, an... Mathematicians Solve '42' Problem...

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The answer to life, the universe, and everything

Mathematics researcher Drew Sutherland helps solve decades-old sum-of-three-cubes puzzle, with help from "The Hitchhiker's Guide to the Galaxy."

Sandi Miller | Department of Mathematics September 10, 2019 [PRESS INQUIRIES](#)



MIT mathematician Andrew "Drew" Sutherland solved a 65-year-old problem about 42.

Image: Department of Mathematics

Welcome to the Planetary Supercomputer

Charity Engine, the crowdsourced cloud platform, is proud to support Stephen Wolfram's groundbreaking research into fundamental physics and mathematics.

Lend your PC to this exciting research and raise money for great causes.

[Join](#)


Welcome to Charity Engine

The ingenious Charity Engine app harnesses the "idle time" of millions of home PCs to raise money for charities such as CARE and Oxfam. It also donates millions of compute-hours to cutting-edge research in biology, physics, math, climate change, and many other subjects.

The app is fully automatic, working quietly in the background if the PC is idle, and shutting down instantly if not. The user never has to lift a finger.

Over 5 million downloads.

As seen in:

BBC News · Scientific American · Techcrunch · MIT News Phys.org · PNAS · New Scientist · HPC Wire Fast Company · Popular Mechanics · The Register Daily Mail · Live Science · ExtremerTech · The Next Web Guardian · Science Alert · Interesting Engineering How Stuff Works · Boing Boing

[Lend your PC](#)
[Compute on CE](#)

Charity Engine + Wolfram

Charity Engine's global grid is now fully integrated with Wolfram Engine / Mathematica, so users can access cheap, green, planetary scale computing directly from within Wolfram Language - just as Stephen himself is doing with his latest math and physics research.

Charity Engine is delighted to be an official partner of both Wolfram Research and Wolfram Blockchain Labs, and to have Stephen Wolfram as an advisor.

[Run your Wolfram Engine Jobs on CE](#)

Stephen's Research

In the summer of 1920, a young mathematician named Emil Post felt he was on the verge of systematically "solving" all of mathematics - that is, of developing a method for reasoning generally about wide ranges of math problems. The key, he thought, was a class of string transformation systems he dubbed "tag" systems - but one particular such system, defined by the replacement rules $(0 \rightarrow 00, 1 \rightarrow 100)$, resisted all his attempts to characterize its behavior.

A century later, modern computers can evaluate tag systems hundreds of trillions of times faster than Post could by hand, and distributed computing environments like Charity Engine allow tens of thousands of simultaneous cores to be utilized for such a task. The Wolfram Post Project aims to pick up where Emil Post left off, searching for patterns and answers in the computational universe of tag systems. [Read More](#)

[Lend your PC](#)

Superpermutations

Greg Egan

50,441,815 hrs

Conway's Game of Life

Darren Li / Catagolue

27,585,302 hrs

Fungal Data Index (2019)

```
- CCTCAGAA-AACTGATTTAT C-CTTGGGA-A--GG-G--TC-A--- GTTTCT---- TCAT-TAGGACAA TGAAAC
ACAGTGCAG-AGACCTTTTCAGAGCCAA GGAGATAACCCA-GCACCCAGAGAGCAGACG-AAATCCACGGG--C
AAAAATCCAAGCTGTCC-CITC-CA-AG--- GGGAGGTA--TCATG-A-GCAG-TATCA-AGGTAA-GCAAGGGAC
T-CTGTGGGAGTGAGGGAGGCCTTCCC@CTTTTCACATCCAGGTCCACCTGAGCCCC@ATCCCCCATGAGTCTGTCT
TSGT-TTGGAACTCCTGTTGAC--ACC@GCTTTCACTTTAAG-----A----AG-----T--CGCAAGAGACTGCC
AGGA=AGTAAATGGCA=AAABCCTAAGTAGATACCCCCAGAGGAGGAGAAATCTG--AATTCTGTT-TATAK
AAGABAGGAA--GCCACAGA-C-C-AGGTTG-GA--CCCTGAG--CCTGGAG--TACTGCCITTTCTCCTTCT-TTC
CTGCT--CCTATTITG-TTITCTA-A--CCTCAGA-A--A-A-CT-----GA----TT--T-A-TC-CITG--G-C
CTGCTAAACT-CCTTGCTGTCAAGATTCAGCAGAGATGACACCTTCTCTGGGAAGGCTTCTGAGTCTCCTGCACTK
-----AGGGTC-----AG----TT----TCTTCAT-TAGGA-CAATGAGAAA-----A-ATC--CAGCT@CCTTCCAA
```

Goal: Search massively large library of biological sequence data for 10,400 fungal species, *to create an index* of fungi in the dataset

Sequence search is messy - and compute-intensive

Fungal Data Index (2019)

```
- CCTCAGAA-AACTGATTTAT C-CTTGGGA-A--GG-G--TC-A--- GTTTCT----- TCAT-TAGGACAA TGAAAC
ACAGTGCAG-AGACCTTTTCACAGAGCCAA GGAGATAACCCA-GCACCCAGAGAGCAGACG-AAATCCACGGG--C
AAAAATCCAGCTGTCC-CITTC-CA-AG--- GGGAGGTA--TCATG-A-GCAG-TATCA-AGGTAA-GCAAGGGAAAC
T-CTGTGGGAGTGAGGGAGGCGCTTCCC@CTTTTCACATCCAGGTGCACCTGAGCCCC@ATCCCCCATGAGTCTGTCT
TSGT-TTGGAACTCCTGTTGAC--ACCGGCTTTCACTTTAAG-----A-----AG-----T--CGCAAGAGACTGCC
AGGA=AGTAAATGGCA=AAABCCTAAGTAGATACCCCCAGAGGAGGAGAGAACTCTG--AATTCTGTT-TATAK
AAGABAGGAAA--GCCACAGA-C-C-AGGTTG-GA--CCCTGAG--CCTGGAG--TACTGCCITTTCTCCTTCT-TTC
CTGCT--CCTATTITG-TTTTCTA-A--CCTCAGA-A--A-A-CT-----GA-----TT--T-A-TC-CITTG--G-C
CTGCTAAACT-CCTTGCTTGTCAAGATTCAGCAGAGATGACACCTTCTCTGGGAGGCTTCTGATCTCCTCGCATK
-----AGGGTC-----AG----TT----TCTTCAT-TAGGA-CAATGAGAGAAA-----A-ATC--CAGCTGTCCCTTCCAA
```

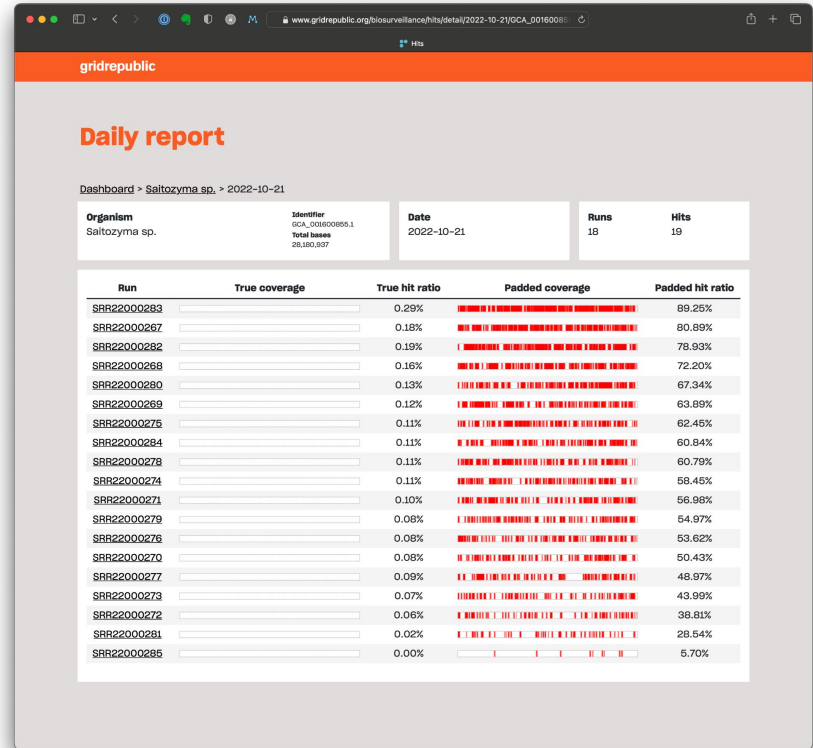
Sequence search is messy - and compute-intensive

- 40 TB of sequence data at 3x redundancy
- Distributed across ~375,000 devices
- High *Compute-to-Storage* ratio (1 CPU per 110 MB)
- (*at one point, 0.1% of all internet traffic in Lithuania)

Biosurveillance ⁽²⁰²³⁾

Goal: Search sequence data from environmental samples worldwide for pathogens of concern to CDC – *daily*

Service live *as of 2023-04-01*



PLOS ONE

RESEARCH ARTICLE

Finding *Candida auris* in public metagenomic repositories

Jorge E. Mario-Vasquez¹, Ujwal R. Bagal², Elijah Lowe³, Aleksandr Morgulis⁴, John Phan⁵, D. Joseph Sexton⁶, Sergey Shiryayev⁷, Pytis Slatkavicius⁸, Rory Walsh⁹, Anastasia P. Livshits¹⁰, Matthew Blumberg¹¹, Ricta Agarwal¹², Nancy A. Chow¹³

1 Mycotic Diseases Branch, Centers for Disease Control and Prevention, Atlanta, Georgia, United States of America, **2** AGRI Inc., Atlanta, Georgia, United States of America, **3** General Dynamics Information Technology Inc., Atlanta, Georgia, United States of America, **4** National Center for Biotechnology Information, Bethesda, Maryland, United States of America, **5** GridRepublic, Cambridge, Massachusetts, United States of America

^{*} jhm3@cdc.gov

Abstract

Candida auris is a newly emerged multidrug-resistant fungus capable of causing invasive infections with high mortality. Despite intense efforts to understand how this pathogen rapidly emerged and spread worldwide, its environmental reservoirs are poorly understood. Here, we present a collaborative effort between the U.S. Centers for Disease Control and Prevention, the National Center for Biotechnology Information, and GridRepublic (a volunteer computing platform) to identify *C. auris* sequences in publicly available metagenomic datasets. We developed the MetaNIH pipeline that uses SRPHISM to align sequences to a set of reference genomes and computes a score for each reference genome. We used MetaNIH to scan ~300,000 SRA metagenomic runs from 2010 onwards and identified five

OPEN ACCESS

Citation: Mario-Vasquez JE, Bagal UR, Lowe E,

Morgulis A, Phan J, Sexton DJ, et al. (2023)

Finding *Candida auris* in public metagenomic

repositories. PLOS ONE 18(1): e0291406. <https://doi.org/10.1371/journal.pone.0291406>

Editor: Nanda Garcia, Universidade Nova,

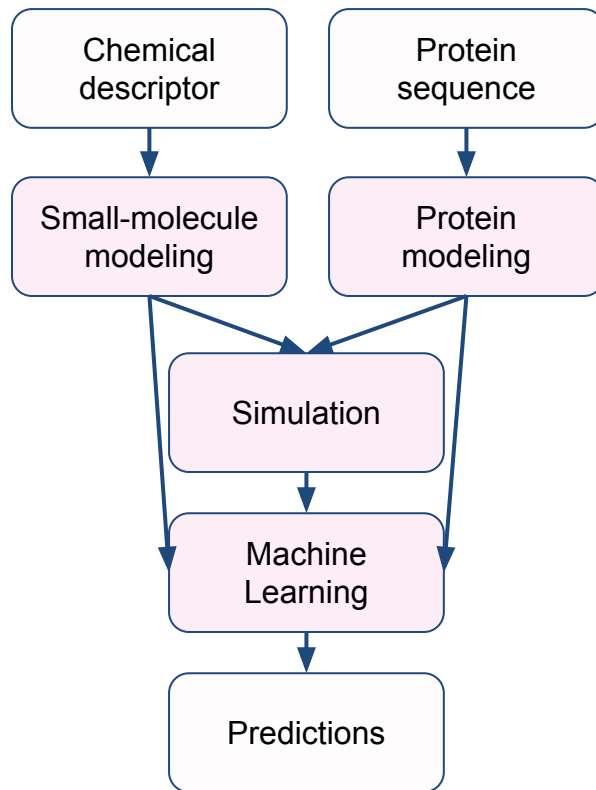
里斯本新大学, PORTUGAL

RECEIVED: 2022-10-21

Find.Bio

Goal: Map the "interactome" of a cell or organism, ie identify which molecules interact with which proteins
– *a powerful tool for drug discovery*

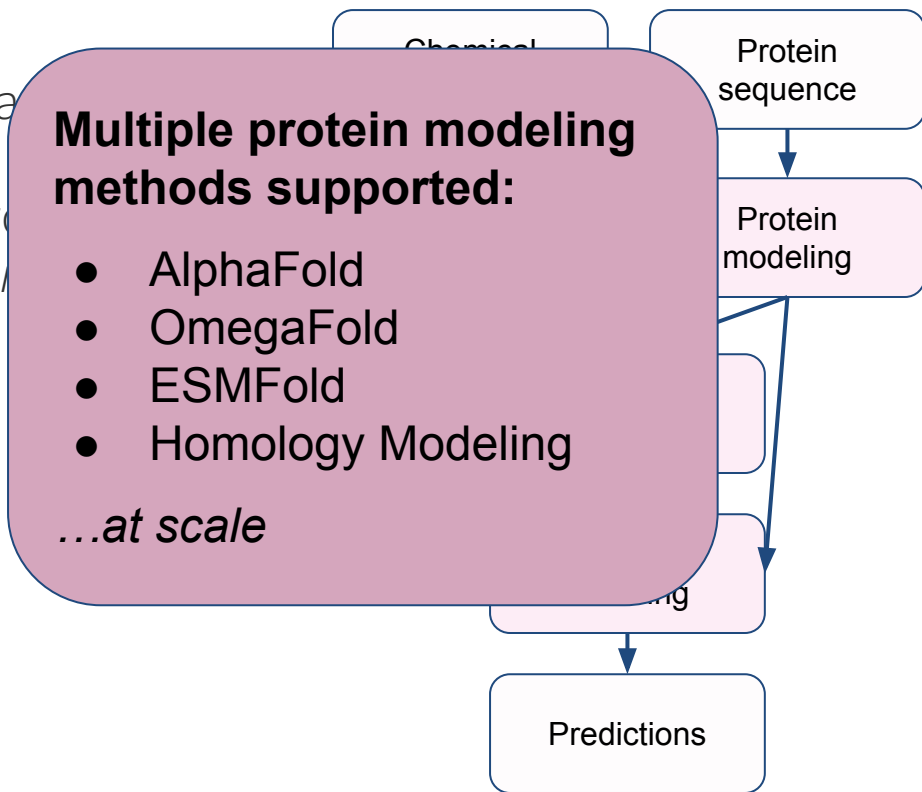
Find.Bio Pipeline



Find.Bio

Goal: Map the "interactome" of a cell or organism, ie identify which molecules interact with which proteins
– *a powerful tool for drug discovery*

Find.Bio Pipeline

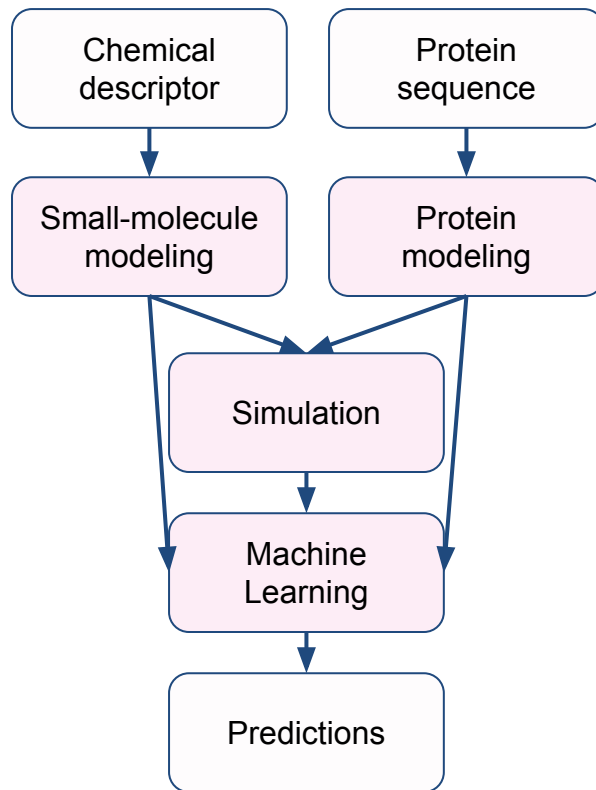


Find.Bio

Scale

- Daily peaks
 - > 1M daily jobs
 - > 160,000 daily core-hours
- **Goal:** near-interactive supercomputing (*on a distributed network)

Find.Bio Pipeline



Energy Management

Scheduling Compute Jobs for Energy Efficiency

1. Context and Objectives

Charity Engine is a computation network that distributes jobs to edge nodes from a central server based on the suitability of each node to complete a given task. Standard job scheduling considers the hardware and software capabilities of nodes and gives jobs to the first available nodes that meet the requirements.

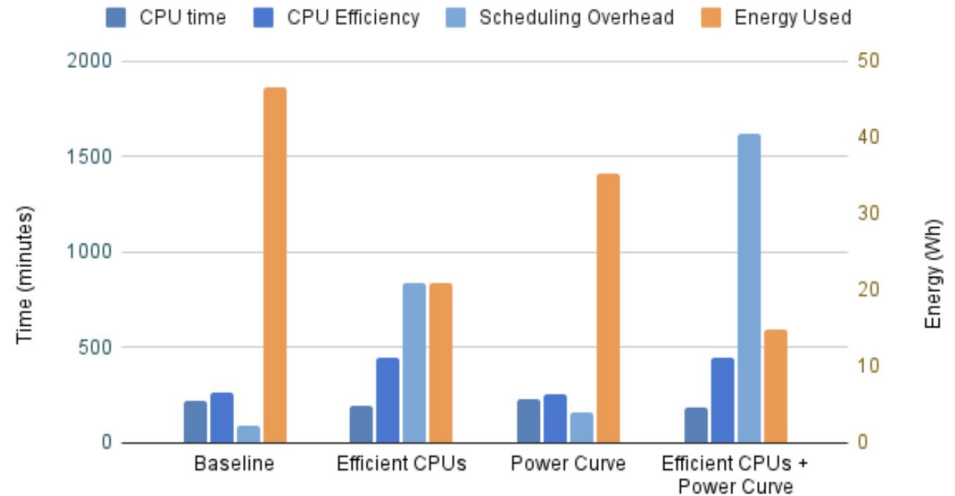
For this project, the Charity Engine network has been modified to additionally consider power, performance, and usage metrics, to enable the scheduler to optimize for energy efficiency. A subset of the network has been updated for use in testing a range of strategies to meet this objective.

1.1. Definition of the Device Pool

A selection of 10 common CPU models was made by analyzing active nodes in the Charity Engine network. These CPU models have known characteristics of power usage and computational performance and are present in sufficient quantity in the network to provide statistical power to the results.

Energy efficiency in computation can be defined as a ratio of speed over power consumption. For these 10 processors, speed is measured by a single-threaded benchmark that calculates the floating point operations per second (FLOPS) that a core can compute. The known power rating is divided by the number of cores

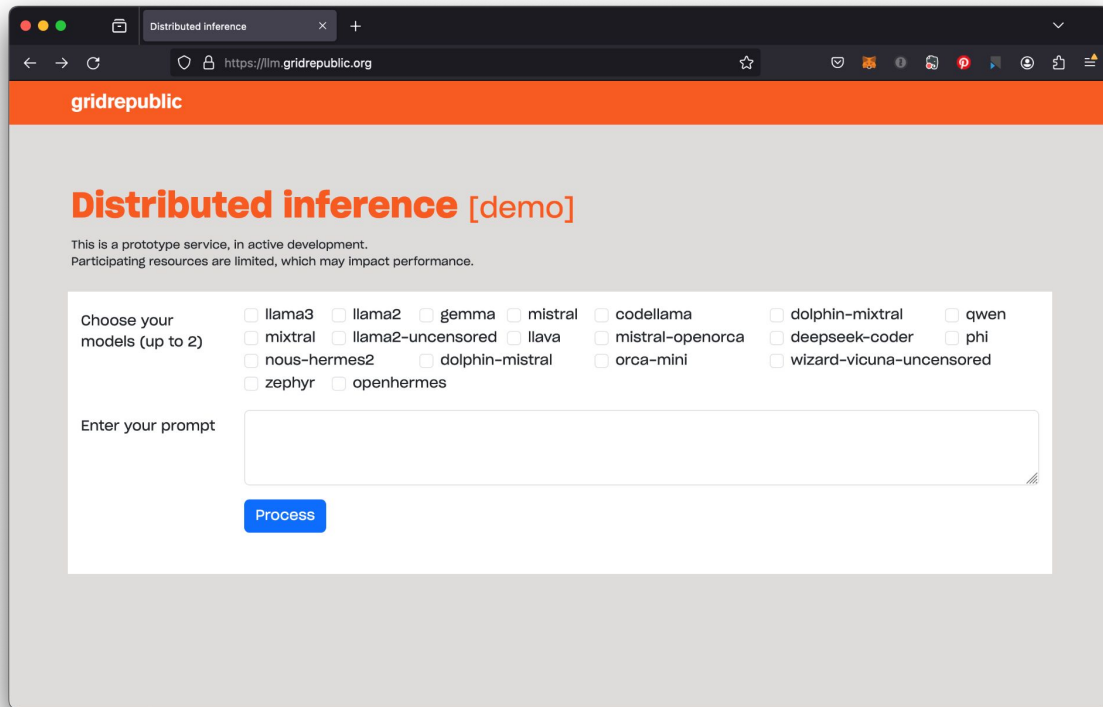
Job Scheduling Methods for Energy Efficiency





gridrepublic network computing

Distributed Inference: GridRepublic LLM



The screenshot shows a web browser window with the URL `https://llm.gridrepublic.org`. The page has an orange header with the `gridrepublic` logo. The main heading is `Distributed inference [demo]`. Below the heading is a disclaimer: "This is a prototype service, in active development. Participating resources are limited, which may impact performance." The interface features a section titled "Choose your models (up to 2)" with a grid of 18 checkboxes for different LLM models: llama3, llama2, gemma, mistral, codellama, dolphin-mixtral, qwen, mixtral, llama2-uncensored, llava, mistral-openorca, deepseek-coder, phi, nous-hermes2, dolphin-mistral, orca-mini, wizard-vicuna-uncensored, zephyr, and openhermes. Below the model selection is a text input field labeled "Enter your prompt" and a blue "Process" button.

`gridrepublic`

Distributed inference [demo]

This is a prototype service, in active development.
Participating resources are limited, which may impact performance.

Choose your models (up to 2)

llama3 llama2 gemma mistral codellama dolphin-mixtral qwen
 mixtral llama2-uncensored llava mistral-openorca deepseek-coder phi
 nous-hermes2 dolphin-mistral orca-mini wizard-vicuna-uncensored
 zephyr openhermes

Enter your prompt

Contact: Matthew Blumberg | mlb@gridrepublic.org | 718-935-0212



gridrepublic network computing

charity**engine**