

BOINC Volunteer Community in Mainland China

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分布式计算论坛

Distributed Computing Forum in Chinese

China, its potential

- Ranked 12 in BOINC total credit world position, with low BOINC adoption rate
- Boosting economics \Rightarrow potential in computational power
- Emerging research projects in BOINC
- Mature volunteer community (Team China, <http://www.equn.com/>)

Statistics from BOINCstats, retrieved on 10 Aug 2013

Team China

- **Largest BOINC volunteer community in Mainland China**
Ranked 8 in all teams
- **Good communication**
Ranked 6 in BOINC Pentathlon 2013
- **Established infrastructure**
A forum, a wiki, several IM groups, several social network accounts
- **Active contributors**
 - An active community (~ 100 posts per day on forum)
 - Regular and spontaneous knowledge sharing (wiki, translations, tutorials, hardware technology, popular science writings, etc.)
 - Regular competitions (the Herculean group)

Statistics from BOINCstats, retrieved on 10 Aug 2013

Our wiki

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中国分布式计算总站

Distributed Computing Information in Chinese

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新手指南

- ▶ 概述
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 - ▶ 如何参加分布式计算
 - ▶ 分布式计算常见问题
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- ▶ 2013/7/26
- CAS@home: 暂停发布新任务；由于网络故障问题，TreeThreader的作业提交系统不断出现失败，为了诊断故障，我们决定暂时中止TreeThreader的作业提交服务，因此这段时间内CAS@home上将没有可领取的作业。我们会在解决问题后，及时通知！带来不便，敬请谅解！[详情](#)
- ▶ 2013/7/19



Community composition

- Young members (high school students, undergraduates)
knowledge sharing
- Academics (PhD candidates, researchers, developers)
thinking tank
- Core members (IT professionals, hardware maniacs, middle class)
main contributors, experience sharing

All play important roles in different aspects.

Of course categories overlap...

China, its obstacles

- **Language barrier**
- Ignorance and disrespect towards science
- Shortsighted self-centered pragmatism
- Xenophobia
- Anti-governmental thinking

The flesh is willing but the mind is weak.

But we are working on it.

Translations

Translations break language barrier.

- BOINC software translation (client, server side)
- News translation
- Contribution to our wiki
- Document translation (popular science, technical details, etc.)
- Technical tutorials

A subforum is dedicated to the organization of translations.

Popularizing BOINC

There are **human beings** behind crunching machines.
An audience, a strategy.

■ General public

BOINC for public welfare: finding drugs, basic research, Chinese research

[Mass media coverage, social media](#)

■ Hardware maniacs

BOINC as a benchmark: torture test, CPU and GPU performance

[Hardware sites, cooperation with hardware e-commerce](#)

■ Science lovers

BOINC for research: participate in real science

[Popular science writing](#)

Mostly sporadic. We are still rather unexperienced.

Grassroot projects

Not only we **help** volunteer computing projects, we also **hold** them.

- **PISegment** (2006 - 2007)

Held by Jianan Hao, aimed at computing the two thousand trillion-th (2×10^{15}) binary digit of π

- **Graceful Tree Verification** (2008 - 2010)

Held by Wenjie Fang, aimed at verifying a long-standing conjecture in combinatorics

- **RamseyX** (2013 - now)

Held by Zizheng Tai, Peiqi Yang *et al.*, aiming at improving lower bounds of Ramsey numbers

Our community support them not only in computational power, but also technically, financially and morally.

More peripheral effort

We do much more than crunching.

- Technical support in native language
- Moral support for Chinese projects
- Community bonding
- Hardware sharing

And we are trying to do even more.

- Inter-team communication (via competitions and news diffusion)
- Communicating volunteers' needs on BOINC software

Help is needed

We can do better if projects and developers can support us.

- Better optimization and open source
- Better translation framework for BOINC server side
- More scientific information, preferably on multiple levels
- Frequent status update, more transparency
- More detailed document for BOINC server side
- etc...

Thank you for your attention!



中国分布式计算总站

Distributed Computing Information in Chinese

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English section in our forum:

<http://www.equn.com/forum/forum-46-1.html>