An Alternative Platform-independent GUI For The BOINC Client

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About Us

• Myself
  • Background Physics & Computer Science
  • CERN staff member since 2004
    • Distributed Computing
      • Worldwide LHC Computing Grid
      • Cloud Computing
      • Volunteer Computing
    • HTC/HPC Team
• Nikolas
  • Technical Student
  • BOINC development
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VM Capacity Gap
The Challenge Web Page
CernVM WebAPI
Framework

- Use the BOINC client
- RPC WebSocket
- HTML and Javascript
- BOINC GUI simple view
The Magic Button
Connecting To The Client
The Web Manager

![BOINC WebManager](https://lh-cathome-dev.cern.ch/lhcathome-dev/netmgr_test.html)

- Theory_16817_1503904802.793463_0
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- Mon Sep 04 2017 11:42:45 [ lh-cathome-dev ] This computer has reached its limit on tasks in progress

- Project Commands
  - Add Project

- Client Status: BOINC v7.6.33
- VBox Status: BOINC v5.1.22/115126
Main Actions
Join Project

- **Image Description:**
  - A screenshot of a BOINC WebManager interface, showing a project attach form.
  - The form includes fields for Email and Password, with an Attach button.
  - Below the form, there are options for Project Commands and adding a project.

- **Context:**
  - The image is related to the BOINC project management system, which is used for volunteer computing projects.
  - The interface is likely part of a tutorial or guide on how to join a project and manage your participation.

- **Relevance:**
  - Joining a project in BOINC typically involves entering your email and password to authenticate.
  - Once authenticated, you can manage your project within the WebManager.
Task Details
VM Web Port Detection
The VM Internal View
Summary

• Prototype client GUI
  • Based on JavaScript and Web Sockets
• Replicated the simple view
  • As a proof-of-concept
• Aiming for “one click to start”
  • With VM applications
• Feedback
  • Is this a direction that is interesting?
  • Is anyone else wanting to contribute?