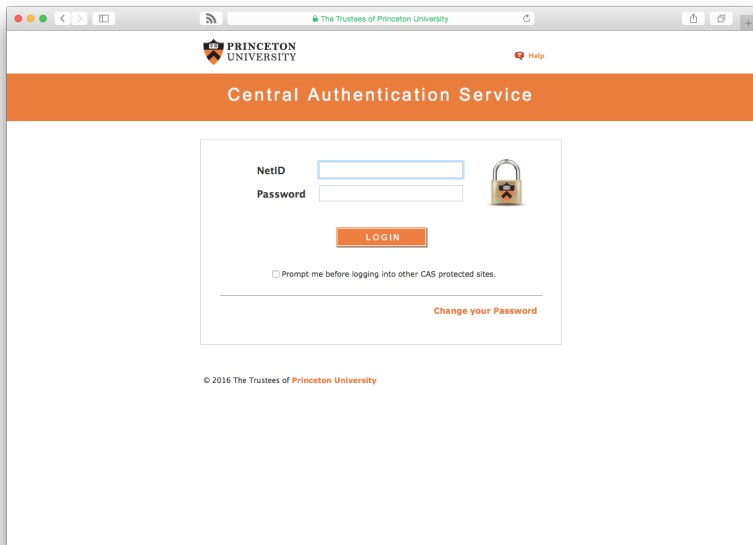


Central Authentication Service



The screenshot shows a web browser window with the address bar displaying "The Trustees of Princeton University". The page header includes the Princeton University logo and a "Help" link. A prominent orange banner across the top of the page reads "Central Authentication Service".

The main login area is a white box containing the following elements:

- Labels "NetID" and "Password" positioned to the left of their respective input fields.
- A blue-outlined text input field for the NetID.
- A white text input field for the Password.
- A padlock icon to the right of the password field, indicating a secure connection.
- An orange "LOGIN" button centered below the input fields.
- A checkbox labeled "Prompt me before logging into other CAS protected sites." below the login button.
- A horizontal line separating the login section from a link that reads "Change your Password" in orange text.

At the bottom of the page, below the login box, is the copyright notice: "© 2016 The Trustees of Princeton University".

Geo Folder

The screenshot shows the Jenkins web interface in a browser window. The address bar displays 'jenkins.princeton.edu'. The Jenkins logo and 'Jenkins' text are at the top left. A search bar and user links 'geoadmin' and 'log out' are at the top right. Below the header, there are links for 'People', 'Build History', and 'My Views'. The main content area is titled 'All' and shows a table of jobs. The table has columns: 'S' (Status), 'W' (Workspace), 'Name', 'Last Success', 'Last Failure', and 'Last Duration'. A single job 'geo2' is listed with a status of 'N/A' for both 'Last Success' and 'Last Failure'. Below the table, there are links for 'icon: S M L' and a 'Legend' section with three items: 'RSS for all', 'RSS for failures', and 'RSS for just latest builds'. On the left sidebar, there are sections for 'Build Queue' (showing 'No builds in the queue.') and 'Build Executor Status' (listing various executors like 'master', 'clover_geoadmin', 'clover_luet', 'metacortex_jenkinspln', 'tiger1_geoadmin', 'tiger_buildbot', and 'tiger_jmd2', each with a count of '1 Idle'). At the bottom, there is a footer with a link 'Help us localize this page' and a page generation timestamp: 'Page generated: Mar 4, 2016 2:29:49 PM EST'. It also includes links for 'REST API' and 'Jenkins ver. 1.651', and a SCM Sync status: 'SCM Sync status : Last operation @ Fri Mar 04 14:29:38 EST 2016'.

Jenkins

geoadmin | log out

ENABLE AUTO REFRESH

People

Build History

My Views

Build Queue

No builds in the queue.

Build Executor Status

master

1 Idle

2 Idle

clover_geoadmin

1 Idle

clover_luet

1 Idle

metacortex_jenkinspln

1 Idle

tiger1_geoadmin

1 Idle

tiger_buildbot

1 Idle

tiger_jmd2

1 Idle

All

S	W	Name	Last Success	Last Failure	Last Duration
		geo2	N/A	N/A	N/A

icon: S M L

Legend

RSS for all

RSS for failures

RSS for just latest builds

Help us localize this page

Page generated: Mar 4, 2016 2:29:49 PM EST

REST API

Jenkins ver. 1.651

SCM Sync status : Last operation @ Fri Mar 04 14:29:38 EST 2016

Geo Projects

The screenshot shows the Jenkins web interface in a browser window. The address bar displays 'jenkins.princeton.edu'. The Jenkins logo and name are at the top left. A search bar and user links ('geoadmin', 'log out') are at the top right. The left sidebar contains navigation links: Up, Status, Configure, New Item, Delete Folder, People, Build History, Credentials, and Move. Below these are sections for 'Build Queue' (showing 'No builds in the queue.') and 'Build Executor Status' (listing various executors like master, clover_geoadmin, etc.). The main content area shows a folder view for 'geo'. A table lists the contents of the 'geo' folder, including 'hello_geo', 'new_geo_folder', 'specfem3d_globe', and 'test_credentials'. Each row shows the last success and failure times and durations. At the bottom of the table, there is a 'Legend' section with links for RSS feeds.

Jenkins

jenkins.princeton.edu

geoadmin | log out

geo

Up

Status

Configure

New Item

Delete Folder

People

Build History

Credentials

Move

Build Queue

No builds in the queue.

Build Executor Status

master

1 Idle

2 Idle

clover_geoadmin

1 Idle

clover_luet

1 Idle

metacortex_jenkinspni

1 Idle

tiger1_geoadmin

1 Idle

tiger_buildbot

1 Idle

geo

All

S	W	Name ↓	Last Success	Last Failure	Last Duration
		hello_geo	9 days 19 hr - #98	9 days 19 hr - #97	1.6 sec
		new_geo_folder	N/A	N/A	N/A
		specfem3d_globe	10 days - #8	10 days - #5	1.2 sec
		test_credentials	N/A	N/A	N/A

Icon: [S](#) [M](#) [L](#)

Legend [RSS for all](#) [RSS for failures](#) [RSS for just latest builds](#)

Project hello_geo

The screenshot shows the Jenkins web interface in a browser window. The address bar shows 'jenkins.princeton.edu'. The page title is 'Project hello_geo'. The left sidebar contains a list of navigation links: Up, Status, Changes, Workspace, Build Now, Delete Project, Configure, Manage Ownership, Email Template Testing, Move, and GitHub. The main content area displays the project name 'Project hello_geo' and the full project name 'geohello_geo'. Below this, there is a 'Job Ownership' section showing the owner 'geoadmin' and co-owners 'luet'. There are links to 'E-mail to Job owners' and 'E-mail to Service owners'. A 'Disable Project' button is visible on the right. Below the ownership section, there are links for 'Workspace' and 'Recent Changes'. The 'Build History' section shows a list of builds with their status (success, failure, or unstable) and timestamps. The 'Permalinks' section provides links to specific build details.

Jenkins

Project hello_geo

Full project name: geohello_geo

[add description](#)

Job Ownership

Owner: [geoadmin <luet@princeton.edu>](#)

Co-owners: [luet <luet@princeton.edu>](#)

[E-mail to Job owners](#) [E-mail to Service owners](#)

[Disable Project](#)

[Workspace](#)

[Recent Changes](#)

Build History

[trend](#)

find

- [#88](#) Feb 23, 2016 7:03 PM
PR #304
Update hello.c
- [#87](#) Feb 23, 2016 7:01 PM
PR #304
Update hello.c
- [#86](#) Feb 23, 2016 6:59 PM
- [#85](#) Feb 23, 2016 6:58 PM
- [#84](#) Feb 23, 2016 6:38 PM
PR #302
Update hello.c
- [#83](#) Feb 23, 2016 12:59 PM
PR #302
Update hello.c

Permalinks

- [Last build \(#88\), 9 days 19 hr ago](#)
- [Last stable build \(#88\), 9 days 19 hr ago](#)
- [Last successful build \(#88\), 9 days 19 hr ago](#)
- [Last failed build \(#87\), 9 days 19 hr ago](#)
- [Last unsuccessful build \(#87\), 9 days 19 hr ago](#)
- [Last completed build \(#88\), 9 days 19 hr ago](#)

Configuration: Slave Node Definition

The screenshot shows the Jenkins web interface for configuring a slave node. The browser address bar shows 'jenkins.princeton.edu'. The page title is 'Jenkins'. The breadcrumb navigation is 'Jenkins > geo > hello_geo > configuration'. The left sidebar contains navigation links: Up, Status, Changes, Workspace, Build Now, Delete Project, Configure, Manage Ownership, Email Template Testing, Move, and GitHub. The main content area is titled 'configuration' and contains the following fields and options:

- Project name:** hello_geo
- Description:** [Empty text area]
- Project url:** https://github.com/PrincetonUniversity/HelloWorld/
- Discard Old Builds:** ☐
- GitHub project:** ☒
- Restrict build execution causes:** ☐
- This build is parameterized:** ☐
- Disable Build (No new builds will be executed until the project is re-enabled.):** ☐
- Execute concurrent builds if necessary:** ☐
- Restrict where this project can be run:** ☒
- Label Expression:** tiger1_geoadmin
- Advanced Project Options:** [Advanced... button]
- Source Code Management:** ☐ None, ☐ CVS, ☐ CVS Projectset, ☒ Git
- Buttons:** Save, Apply

The 'Build History' section on the left shows a list of builds with their status, number, and time:

Build Number	Time	Status
#89	Mar 4, 2016 2:45 PM	Success
#88	Feb 23, 2016 7:03 PM	Success
#87	Feb 23, 2016 7:01 PM	Failure
#86	Feb 23, 2016 6:59 PM	Failure
#85	Feb 23, 2016 6:58 PM	Failure
#84	Feb 23, 2016 6:38 PM	Success

Configuration: Source Code Management

The screenshot shows the Jenkins web interface in a browser window. The address bar displays 'jenkins.princeton.edu'. The breadcrumb navigation at the top indicates the path: 'Jenkins > geo > hello_geo > configuration'.

Left Panel (Build History): A list of recent builds for the 'hello_geo' job. Each entry includes a build number (e.g., #87, #86, #85, #84, #83, #82, #81, #80, #79, #78, #77, #76, #75), a timestamp (all from Feb 23, 2016), and a truncated description of the build log, such as 'PR #304: Update hello.c'.

Right Panel (Source Code Management Configuration):

- Source Code Management:** A section with radio buttons for 'None', 'CVS', 'CVS Projectset', and 'Git'. 'Git' is selected.
- Repositories:** A section containing:
 - Repository URL:** A text field with the value 'git@github.com:PrincetonUniversity/HelloWorld.git'.
 - Credentials:** A dropdown menu showing 'luet (luet-geoadmin@github)' with an 'Add' button.
 - Buttons:** 'Add Repository' and 'Delete Repository' buttons.
 - Advanced...** A link to expand more options.
- Branches to build:** A section with:
 - Branch Specifier (blank for 'any'):** A text field containing '\$(sha1)'.
 - Buttons:** 'Add Branch' and 'Delete Branch' buttons.
- Repository browser:** A dropdown menu set to 'githubweb'.
- URL:** An empty text field.
- Additional Behaviours:** A section with an 'Add' button.
- Build Triggers:** A section with checkboxes for:
 - Trigger builds remotely (e.g., from scripts)
 - Build after other projects are built
 - Build periodically
 - Build when a change is pushed to GitHub
 - GitHub Pull Request Builder (checked)
- Buttons:** 'Save' and 'Apply' buttons at the bottom.

Configuration: Build Triggers

The screenshot shows the Jenkins configuration page for a job named 'hello_geo'. The left sidebar displays a list of recent builds, including their numbers, timestamps, and status (e.g., #176, Feb 23, 2016 12:20 PM, Success). The main panel is titled 'configuration' and contains several sections for configuring the build process.

Build Triggers

- ☐ Trigger builds remotely (e.g., from scripts)
- ☐ Build after other projects are built
- ☐ Build periodically
- ☐ Build when a change is pushed to GitHub
- ☒ GitHub Pull Request Builder

GitHub API credentials: `https://api.github.com : buildbot-princeton@github-token`

Admin list: `luet`

Use github hooks for build triggering ☒

Build Environment

- ☐ Poll SCM
- ☐ Inject ownership variables into environment
- ☐ SSH Agent
- ☐ Set GitHub commit status with custom context and message (Must configure upstream job using GHPRB trigger)

Execute shell

Command: `module load intel/16.0
module load intel-mpi/intel
icc -o hello hello.c`

See [the list of available environment variables](#)

Buttons: **Save**, **Apply**, **Delete**

Configuration: Build Steps

The screenshot shows the Jenkins web interface for configuring a build job. The browser address bar shows 'jenkins.princeton.edu'. The page title is 'Jenkins > geo > hello_geo > configuration'. On the left, a list of build history entries is shown, including build numbers #70 through #60, with their respective timestamps and titles. The main content area is titled 'Build' and contains three 'Execute shell' build steps. Each step has a 'Command' field and a 'Delete' button. The first step's command is:

```
module load intel/16.0
module load intel-mpi/intel
icc -o hello hello.c
```

 The second step's command is:

```
#!/bin/bash
./hello > tmp
cat << EOF > good.txt
Hello world!!
EOF
diff tmp good.txt
```

 The third step's command is:

```
#!/bin/bash
cd /home/luet/hello
salloc -N1 -nl --time=1 ./test.sh
```

 Below the build steps is an 'Add build step' dropdown menu. At the bottom, there are 'Save' and 'Apply' buttons. The page also includes links for 'RSS for all' and 'RSS for failures'.

Jenkins > geo > hello_geo > configuration

Build history:

- #70 Feb 22, 2016 2:54 PM
- #69 Feb 22, 2016 2:52 PM
- #68 Feb 22, 2016 2:51 PM
- #67 Feb 22, 2016 2:50 PM
- #66 Feb 18, 2016 1:40 PM
- #65 Feb 18, 2016 1:39 PM
- #64 Feb 18, 2016 1:10 PM
- #63 Feb 18, 2016 1:05 PM
- #62 Feb 18, 2016 1:03 PM
- #61 Feb 18, 2016 12:58 PM
- #60 Feb 18, 2016 12:55 PM

RSS for all RSS for failures

Build

Execute shell

Command

```
module load intel/16.0
module load intel-mpi/intel
icc -o hello hello.c
```

See the list of available environment variables

Delete

Execute shell

Command

```
#!/bin/bash
./hello > tmp
cat << EOF > good.txt
Hello world!!
EOF
diff tmp good.txt
```

See the list of available environment variables

Delete

Execute shell

Command

```
#!/bin/bash
cd /home/luet/hello
salloc -N1 -nl --time=1 ./test.sh
```

See the list of available environment variables

Delete

Add build step

Post-build Actions

Save Apply

Configuration: Post-build Actions (Notifications)

Jenkins » geo » hello_geo » configuration

Post-build Actions

Editable Email Notification

Disable Extended Email Publisher ☐

Allows the user to disable the publisher, while maintaining the settings

Project Recipient List

luet@princeton.edu,david.luet@gmail.com

Project Reply-To List

\$DEFAULT_REPLYTO

Comma-separated list of email address that should receive notifications for this project.

Content Type

Default Content Type

Default Subject

\$DEFAULT_SUBJECT

Default Content

\$DEFAULT_CONTENT

Attachments

Can use wildcards like "module/dist"/"*.zip". See the [@includes of Ant fileset](#) for the exact format. The base directory is the [workspace](#).

Attach Build Log

Content Token Reference

Advanced Settings...

Delete

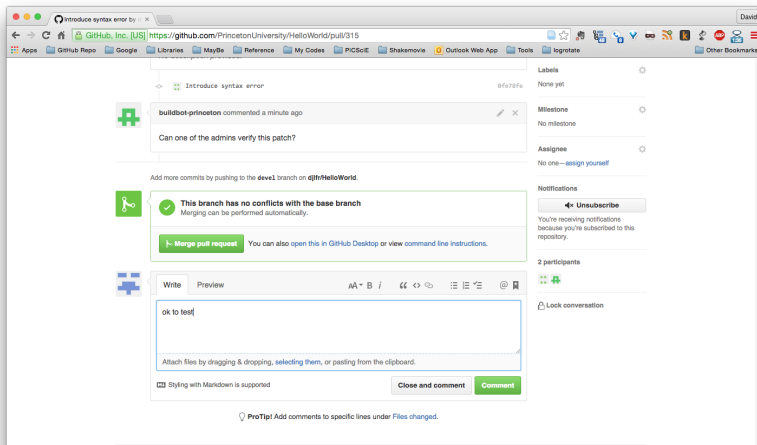
Save Apply

The screenshot shows a GitHub pull request interface. At the top, the browser address bar displays the URL `https://github.com/PrincetonUniversity/HelloWorld/pull/315`. The page header includes the repository name `PrincetonUniversity / HelloWorld` and a `PRIVATE` label. Navigation tabs for `Code`, `Issues`, `Pull requests` (active), `Wiki`, `Pulse`, `Graphs`, and `Settings` are visible. The pull request title is `Introduce syntax error #315`. A green `Open` button is present. The pull request description states: `djfr wants to merge 1 commit into PrincetonUniversity:dev1 from djfr:dev1`. Below this, a list of comments is shown:

- A comment from `djfr` (12 seconds ago) with the text `No description provided.`
- A comment from `buildbot-princeton` (11 seconds ago) with the text `Can one of the admins verify this patch?`

 On the right side, there are sections for `Labels` (None yet), `Milestone` (No milestone), `Assignee` (No one—assign yourself), and `Notifications` (Unsubscribe button). At the bottom, a green checkmark icon indicates `This branch has no conflicts with the base branch`, and a `Merge pull request` button is available. The footer of the page shows `2 participants`.

Maintainer Blesses the Changes



Jenkins Runs Test

The screenshot shows a web browser window displaying a GitHub pull request. The address bar shows the URL `https://github.com/PrincetonUniversity/HelloWorld/pull/315`. The page title is "introduce syntax error by". The pull request is titled "ok to test".

On the right side, there are sections for "Labels" (None yet), "Milestone" (No milestone), "Assignee" (No one—assign yourself), and "Notifications" (Unsubscribe button). Below these, it says "3 participants" and "Lock conversation".

The main content area shows a status bar with "Write" and "Preview" tabs. Below this is a text input field for "Leave a comment" and a button for "Close pull request". A green "Comment" button is also visible.

At the bottom, there is a "ProTip!" section: "Add comments to specific lines under Files changed."

The pull request details include:

- A yellow box stating: "Some checks haven't completed yet 1 pending check". A link "Hide all checks" is present.
- A green checkmark indicating: "This branch has no conflicts with the base branch. Merging can be performed automatically."
- A "Merge pull request" button with the text: "You can also open this in GitHub Desktop or view command line instructions."

Below the pull request details, there is a section for "Add more commits by pushing to the dev1 branch on djth/HelloWorld."

Test Failure

The screenshot shows a web browser window displaying a GitHub pull request. The address bar shows the URL `https://github.com/PrincetonUniversity/HelloWorld/pull/315`. The page title is "introduce syntax error by". The pull request is titled "ok to test".

Below the title, there is a message: "Add more commits by pushing to the `dev`1 branch on `djth/HelloWorld`."

The status section shows:

- All checks have failed** (1 failing check). A link "Hide all checks" is visible.
- default** — Build finished. No test results found. A link "Details" is visible.
- This branch has no conflicts with the base branch**. Merging can be performed automatically.

A "Merge pull request" button is present, with a note: "You can also open this in GitHub Desktop or view command line instructions."

On the right side, there are sections for "Labels" (None yet), "Milestone" (No milestone), "Assignee" (No one—assign yourself), "Notifications" (Unsubscribe button), "3 participants", and "Lock conversation".

At the bottom, there is a "Write" section with a "Preview" tab. It contains a text area for "Leave a comment" and a note: "Attach files by dragging & dropping, selecting them, or pasting from the clipboard." Below the text area, it says "Styling with Markdown is supported". There are two buttons: "Close pull request" and "Comment".

At the very bottom, a "ProTip!" message says: "Add comments to specific lines under Files changed."

Test Failure E-mail Notification

geo » hello_geo - Build # 90 - Failure!



Inbox x



luet@princeton.edu

to david.luet ▾

🔗 3:23 PM (45 minutes ago) ☆



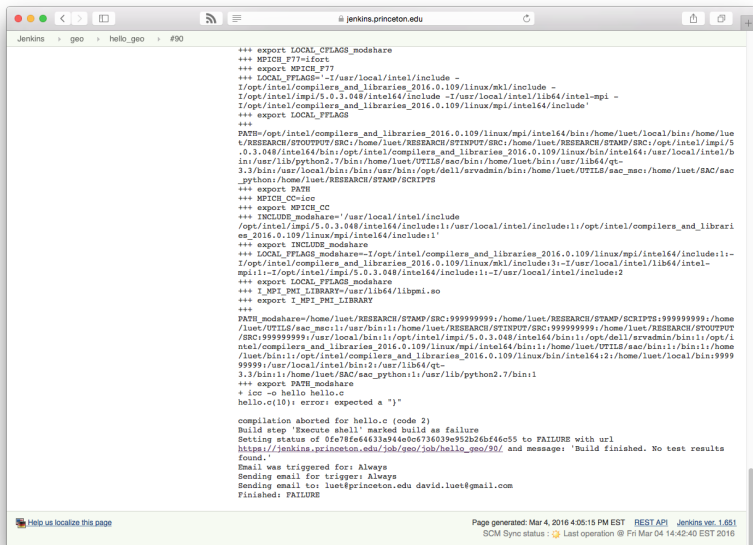
geo » hello_geo - Build # 90 - Failure:

Check console output at https://jenkins.princeton.edu/job/geo/job/hello_geo/90/ to view the results.



build.log

Jenkins Console Error



Developer Fixes Error and Push to GitHub

The screenshot shows a web browser window displaying a GitHub pull request. The address bar shows the URL: <https://github.com/PrincetonUniversity/HelloWorld/pull/315>. The page title is "Introduce syntax error by c9fe7afe".

The pull request details show:

- Introduce syntax error** (X 0fe7afe)
- buildbot-princeton** commented 4 minutes ago: "Can one of the admins verify this patch?"
- luet** commented 3 minutes ago: "ok to test"
- Fixed syntax error** (✓ c959c69)

Below the comments, a message states: "Add more commits by pushing to the `dev1` branch on `djth/HelloWorld`."

The status section shows:

- All checks have passed** (1 successful check) [Show all checks]
- This branch has no conflicts with the base branch** (Merging can be performed automatically.)
- Merge pull request** (You can also open this in GitHub Desktop or view command line instructions.)

On the right side, there are sections for:

- Labels**: None yet
- Milestone**: No milestone
- Assignee**: No one—[assign yourself](#)
- Notifications**: Unsubscribe (You're receiving notifications because you commented.)
- 3 participants**
- Lock conversation**

At the bottom, there is a "Write" section with a "Preview" tab and a text area for "Save a comment".