

# HPC CF

Christian Meesters (+ HPC Certification Forum)

## HPCCF Taking the Exam



2021-06-29

Parallel event to ISC HPC

# Getting Started

**Timelimit (scenario):** 60 minutes

**Timelimit (multiple choice):** 50 minutes

**Score to pass:** 70%

Name

Will be on the certificate

E-mail

Will be used to send you the certificate/your result

Affiliation

Will be used for statistical purposes

☐ I agree to the privacy policy and terms of this service

Please check the correctness of the Name, Email address, and Affiliation.  
**Test submissions cannot be undone, the values above will be used to create your certificate**

Press **Register for this examination** to transfer your request for examination together with the provided **personal information** to the server.

Register for this examination!

■ navigate to the web page

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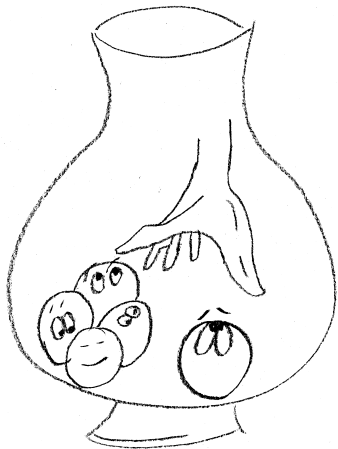
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Register for this examination!

- navigate to the web page
  - select the appropriate skill to be tested for
  - submit Name & Affiliation (which are needed for the certificate) & and email
- ↪ a mail will be send containing links and keys for the actual exam (valid for 24 h)

# Background: Selecting the Questions



Questions are randomly chosen from a pool: the pool may itself be a bundle of

sub-branches of the skill tree



↪ All examinations will be based on different sets of questions.

# On Cheating

- 1 By confronting with random questions no perfect preperation can be accomplished.
- 2 There is a time-limit per question.
- 3 A registration prior to a test session is required.

No online system without ID checks and other measures is safe against cheating!  
Yet, our measures will raise awareness.

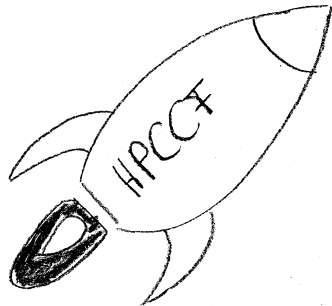




# Boosting Acceptance

Want to hire a scientist?

We intend to provide a (sub)set of question for prospective employers. This way they will have an idea of the background, if a solicitant waves a HPCCF-certificate.



# Multiple Choice Questions

time remaining: 20:00s

## Question 1

Which command is used to close the vi editor?

Mark individual answers as correct or wrong.

correct ▾	q
wrong ▾	exit
wrong ▾	quit
wrong ▾	<esc>ZZ

## Question 2

Which command is used to close the vi editor without saving any changes?

Mark individual answers as correct or wrong.

correct ▾	:q!
wrong ▾	:q & wq
wrong ▾	q
wrong ▾	quit

## Question 3

Assume you try to run the program "ls" with the argument "dir" and if it executes successfully, you want to print a message. How can this be executed in one command line on the bash?

Mark individual answers as correct or wrong.

wrong ▾	echo "" && ls dir && echo "directory exists"
correct ▾	ls dir && echo "directory exists"
unknown ▾	ls dir    echo "directory exists"
unknown ▾	ls dir ; echo "directory exists"

# Scenerio Based Questions

## Here:

In this task, you will need to run the program `terminator` and send a fixed sequence of signals to the program. Note that this program is very sensitive to signals, very bad things may happen on the cluster if it is used incorrect. **Therefore, it is mandatory that you send the correct sequence of signals to the program and no other sequence.**

We want to remind you that you can open multiple terminal sessions by opening the URL with the browser again.

Please send the following sequence of signals:

- 1 INT
- 2 USR1
- 3 2

## Scenerio Based Questions - Continued

```
user@login:~$ terminator &
[2] 88
user@login:~$ kill -s SIGINT 88
user@login:~$ kill -s SIGUSR1 88
user@login:~$ kill -s SIGUSR2 88
user@login:~$ kill -9 88
user@login:~$ ps
  PID TTY          TIME CMD
   42 pts/3        00:00:00 bash
   50 pts/3        00:00:00 bash
   51 pts/3        00:00:00 sleep
   89 pts/3        00:00:00 ps
[2]+  Killed                  terminator
user@login:~$
```

Note: SIGUSR2 != 2. Hence: Not full grade.

Thank You for Your Attention!

