Thus spoke CÉCI Users

> 2019 CÉCI user satisfaction survey

anonymous survey

Target: account holdersSpan: September 3rd to 30th3 emails to the mailing list

questions

How did you learn about us ? Was it easy to create an account, to connect ?

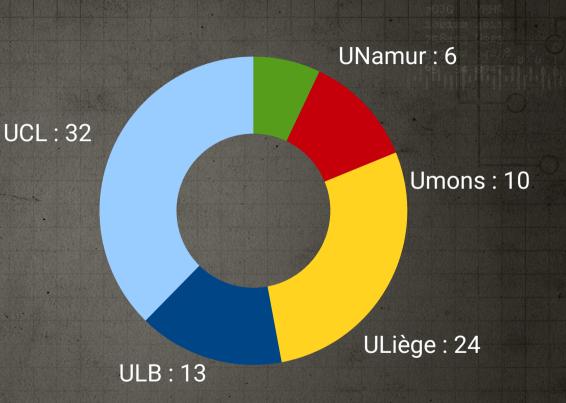
In how many publications have you acknowledged the CÉCI? What do you need ? (hardware/software/policy) What is your typical job? What would your dream job be?

feedback

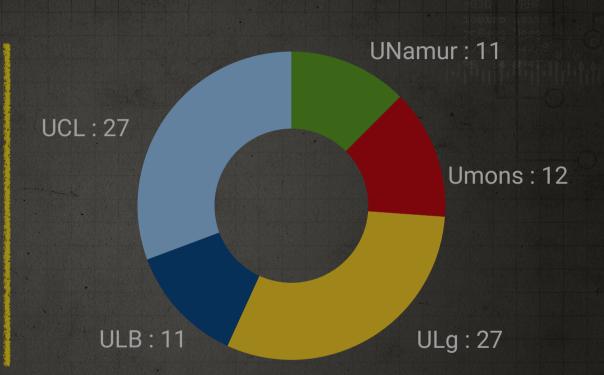
Out of approx. **422 active users** from August 2018 to July 2019 1/2 had already answered a previous CÉCI survey

ASTYEAR

Out of approx. **467 active users** from August 2017 to July 2018 1/2 had already answered a previous CÉCI survey



ASTYEAR



Operating system

Windows : 34

Linux:37

Mac OSX :

14

Research fields

nuclear physics software engineering statistics

particle physics chemistry sociology OCEANOGIADOU optimization chemical engineering Solid state physics geophysics network science bioinformatics

astrophysics machine learning biophysics materials science fluid mechanics computational chemistry

Summary of findings for the 2019 edition of the CÉCI user satisfaction survey. | Sep. 2019 Ariel Lozano & Damien François

combinatorial optimization dynamical systems astrophysics high energy particle physics machine learning bioinformatics data science computational chemistry nuclear physics atomic physics materials science biophysics graph theory operations research climatology system admin geomatics oceanography fluid mechanics image processing statistics dynamical systems environmental science computer science solid state physics graph theory numeric solvers manufacturing processes social network analysis

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questions

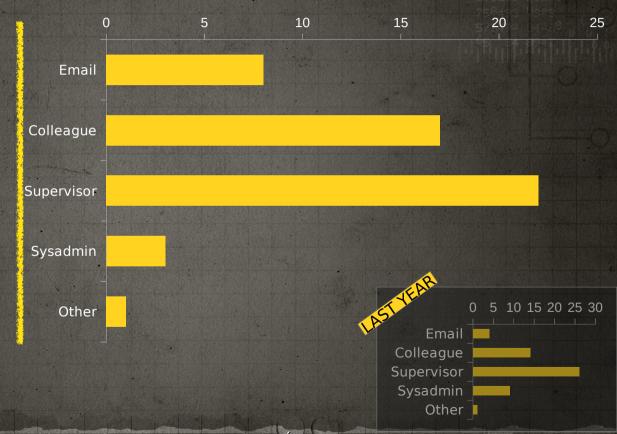
Was it easy to create an account, to connect ?

How did you learn about us ?

In how many publications have you acknowledged the CÉCI? What do you need ? (hardware/software/policy) What is your typical job? What would your dream job be?

How did you

find out about the CÉCI?



questions

Was it easy to create an account, to connect ?

How did you learn about us?

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Was it easy to create an account ?

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S

es

Was it easy to create an account ?

Percentage positive responses

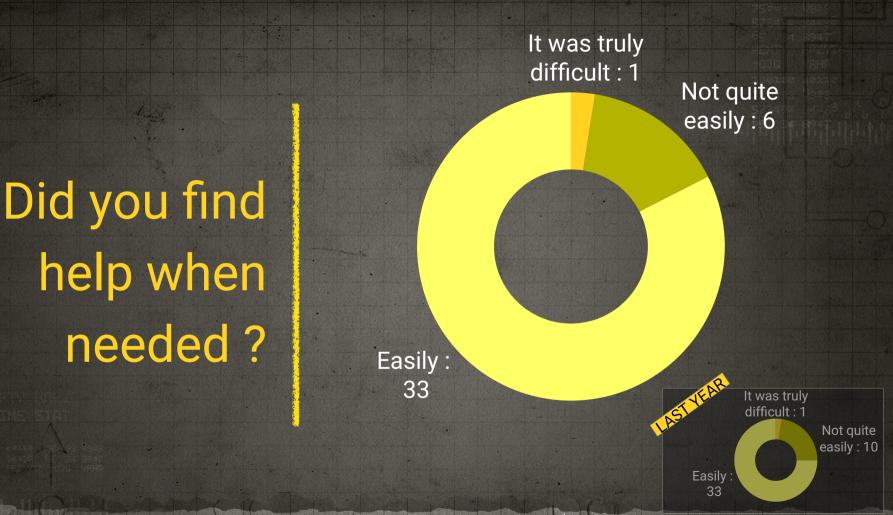
Was it easy connecting with SSH ?

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es

Was it easy connecting with SSH ?

Percentage positive responses



Percentage who Easily found help

Did you find help when needed ?

questions

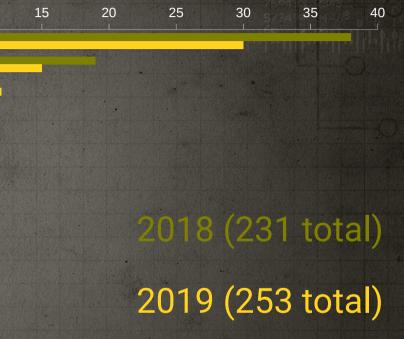
How did you learn about us ? Was it easy to create an account, to connect ?

In how many publications have you acknowledged the CÉCI ?

What do you need ? (hardware/software/policy) What is your typical job ? What would your dream job be ?

Acknowledgments to CECI in

publications



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questions

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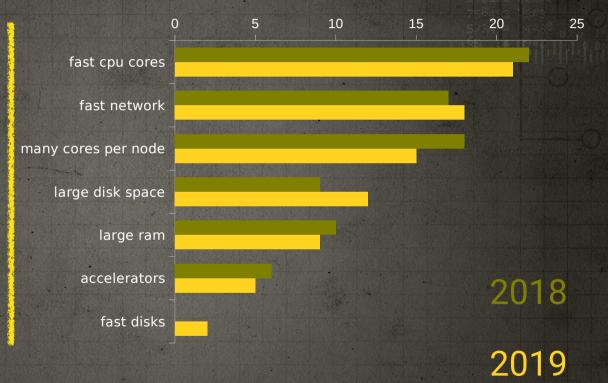
What do you need ? (hardware/software/policy)

What is your typical job ? What would your dream job be ?

What is the most

important piece of

hardware you need?



Software used

freesurfer namd **gaussian** gdal gatk quantum espresso intel compilers mkl beagle3 peri stringtie boost vasp perl . ITONT fftw3 su2 nix tensorflow paraview openmpi netcdf orca valgrind matlab gromacs vtunes abini dalton gurob abaqus fluent java lapack dalton lammps petsc gfortran cmake mumps hdf5 samtools octave openblas

genome annotation pipelines

questions

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What do you need ? (hardware/software/policy)

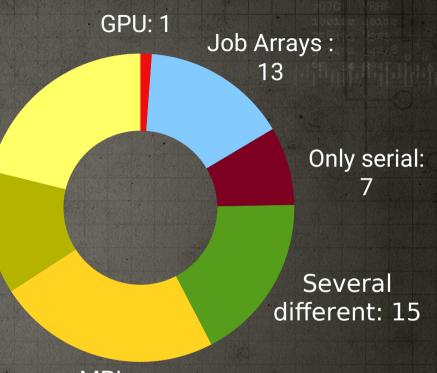
What is your typical job ?

What would your dream job be?

Type of parallel job?

Threads/ OpenMP : 11

MPI:18



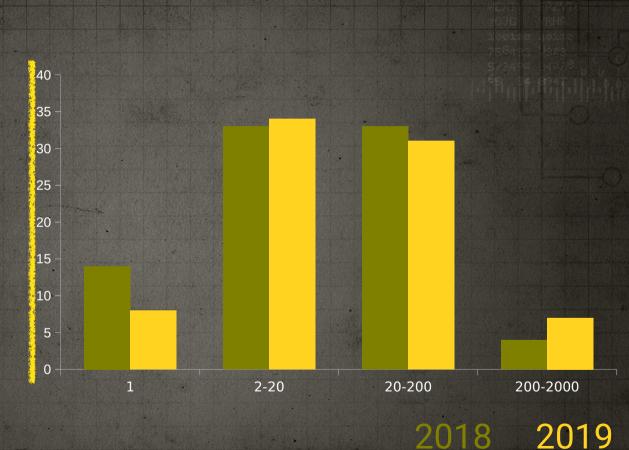
MPI+ OpenMP:20

Parallel job?

LASTYEAR

Job Arrays : 14 MPI:23 No: 5 Other : 10 Threads/ OpenMP:15 MPI+ OpenMP:19

Typical nb of cores

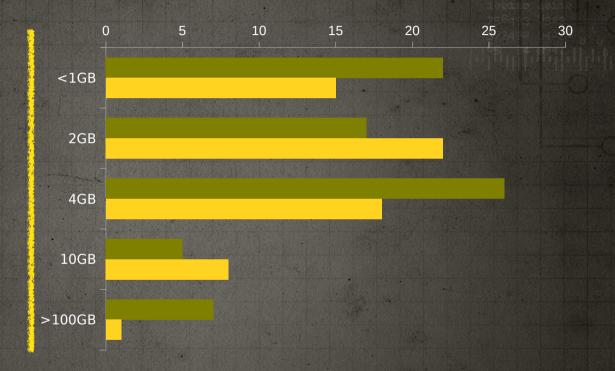


Typical job duration

	0	5	10	15	20	25	30	35	40	45
minutes								il î ⁿ n		
hours					-					
days										
weeks										
months										

2018 2019

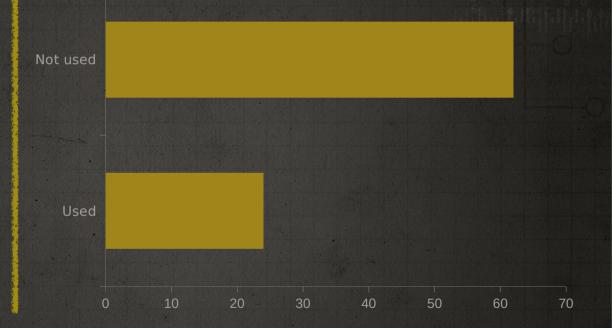
Typical RAM / core

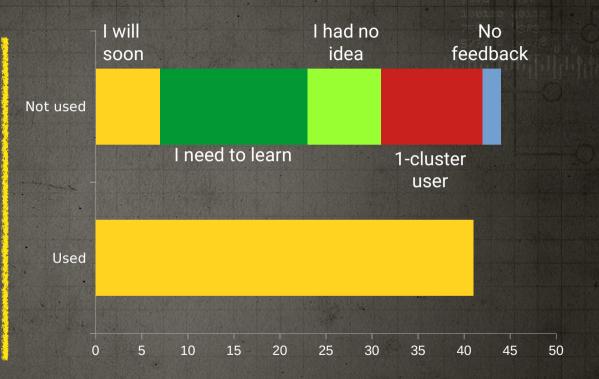


2018 2019

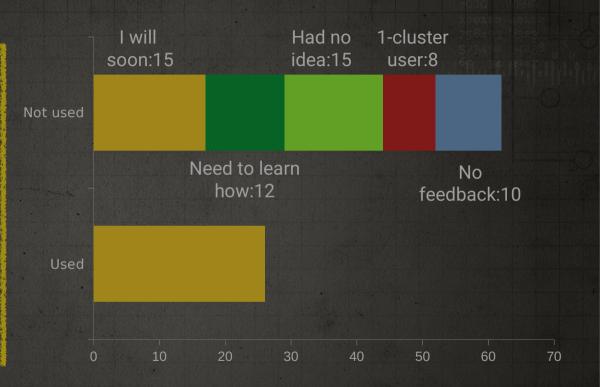


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Dream job

•••••• More CPUs Faster CPUs • More jobs at once •••• Longer runtime ••• More disk space ••••• More memory

••• Less waiting

•••••• Satisfied

Overall sentiment

Enthusiast: 9 expressed positive

feelings

Constructive: 15

for improvement

Negative: 2 complained

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Satisfied: 59 did not complain about anything

Detailed response

http://www.ceci-hpc.be/ survey2019.html