



Training on POP performance analysis, methodology and tools for and by women and other underrepresented groups in HPC

Online, 19th-21st April 2021

EU H2020 Centre of Excellence (CoE)



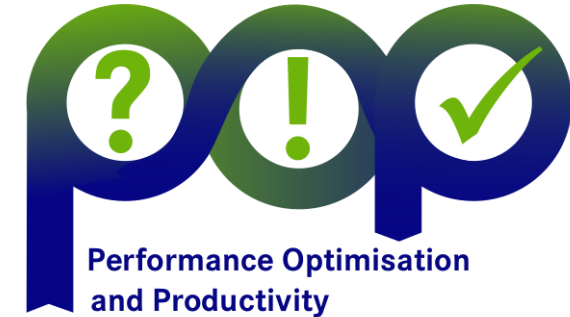
Grant Agreement No 824080

1 December 2018 – 30 November 2021

The team (In order of appearance)



- Marta Garcia-Gasulla (Barcelona Supercomputing Center)
 - BSC tools
- Fouzhan Hosseini (Numerical Algorithms Group)
 - BSC tools
- Radita Liem (RWTH Aachen University)
 - BSC and JSC tools
- Judit Gimenez (Barcelona Supercomputing Center)
 - BSC tools
- Sandra Mendez (Barcelona Supercomputing Center)
 - BSC tools
- Anara Kozhokanova (RWTH Aachen University)
 - PAPI counters
- Anke Visser (Jülich Supercomputing Centre)
 - JSC tools
- Christina Muehlbach (TU Dresden)
 - VAMPIR



The agenda - Monday



- 10:00 Welcome
 - Introduction to Marenostrom4
 - Introduction to POP
 - Introduction to VI-HPS
- 10:55 (break)
- 11:00 BSC performance tools
 - BSC tools hands-on exercises
- 13:00 (lunch)
- 14:00 Hands-on
 - Coaching to apply BSC Tools to analyze participants' own code(s)
- 17:00 (adjourn)



The agenda - Tuesday



- 10:00 POP Methodology
- 10:55 (break)
- 11:00 Score-P instrumentation & measurement toolset
 - PAPI hardware performance counters
 - Score-P & Cube introduction
 - Vampir interactive trace analysis
- 13:00 (lunch)
- 14:00 Score-P instrumentation & measurement toolset (continued)
 - Automated trace analysis with Scalasca
 - Score-P advanced usage & special case
- 15:00 Hands-on
 - Coaching to apply PAPI/Score-P/CUBE/Scalasca/Vampir to analyze participants' own code(s)
- 17:00 (adjourn)



The agenda - Wednesday



- 10:00 Show case of performance analysis with BSC tools
- 10:50 (break)
- 11:00 Show case of performance analysis with JSC tools
- 11:50 (break)
- 12:00 Hands-on coaching to apply the POP methodology
 - Apply POP methodology on participants' own code(s)
 - Continue analysis of participants' own code(s) with presented performance tools
- 13:00 (lunch)
- 14:00 Hands-on coaching to apply the POP methodology (continued)
- 17:00 (adjourn)



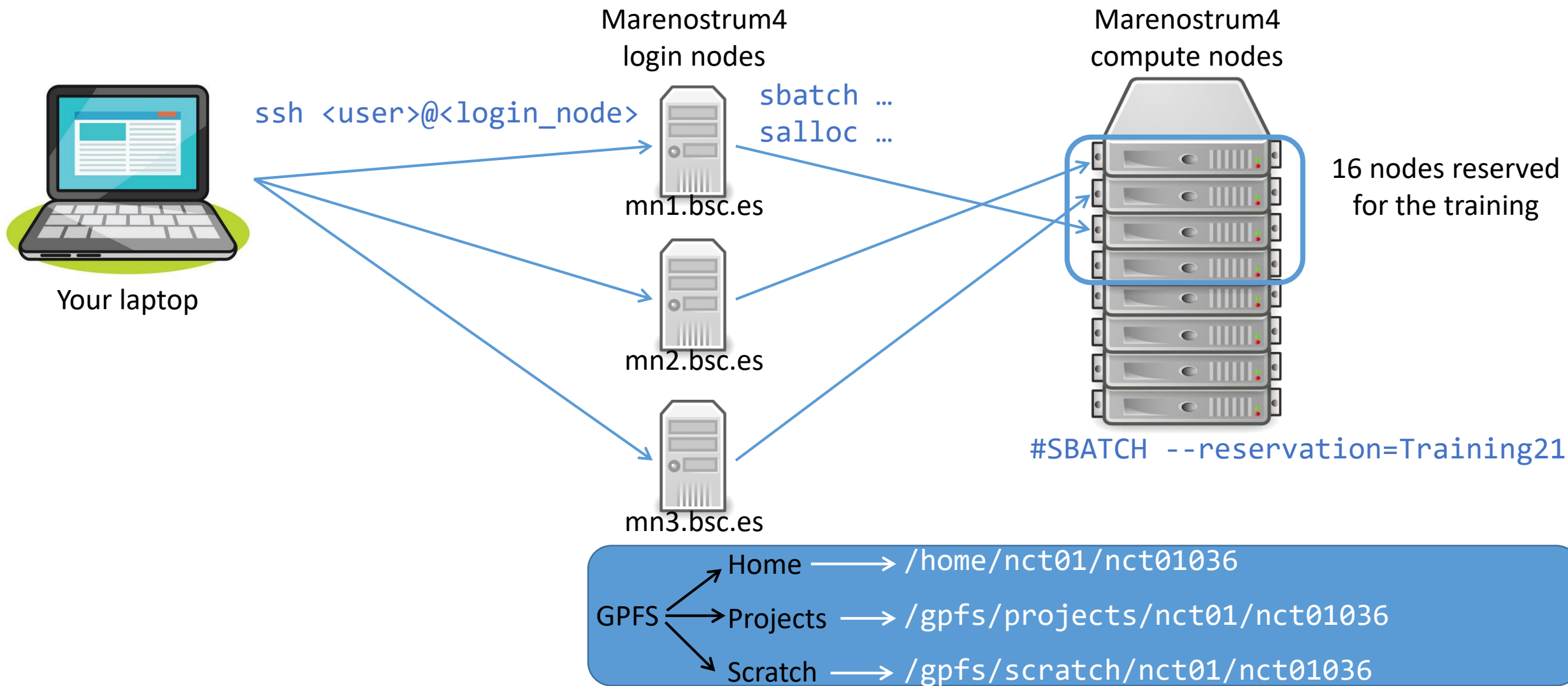
Some logistics



- Join Slack channel for communicating with trainers and other participants
- 2 more emails to come:
 - Pre-training
 - Post-training
- Afternoon break-out rooms
- Marenostrom4 accounts
 - Don't have one yet? → Fill the form!
 - Problems accessing it?
 - There is a Slack channel where we can give support with that
- Any other issue?
 - Slack channel or email organizers



Maresnotrum4 for training





Performance Optimisation and Productivity

A Centre of Excellence in HPC

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