

Systems Workshop: Programming MareNostrum 4 @ BSC

Wednesday 26 February 2020 - Thursday 27 February 2020

Barcelona BSC Campus Nord

Agenda

DAY 1 (Feb. 26) 09:00 - 17:00

Session 1 / 09:00 – 13:00 (2:45 h lectures, 0:45h practical)

9:00 - 9:30 Introduction to BSC, PRACE PATC and this training (David Vicente)
9:30 - 10:30 MareNostrum 4 – the view from System administration group (Javier Bartolomé)
10:30 - 11:00 COFFEE BREAK

11:00 - 11:45 How to use MN4 – Basics: Batch system, file systems, compilers, modules, DT, BSC commands (Félix Ramos, Francisco González, Ricard Zarco, Helena Gómez)
11:45 - 12:30 Hands-on I (Félix Ramos, Francisco González, Ricard Zarco, Helena Gómez)
12:30 - 13:00 Deep Learning and Big data tools on MN4 (Carlos Tripliana)
13:00 - 14:15 LUNCH (not hosted)

Session 2 / 14:15 – 17:00 (2:15h)

14:15 - 15:15 How to use MN4 – Parallel programming: OpenMP, Hands-on II (Jorge Rodríguez, Maicon Saul Faria)
15:15 - 16:00 How to use MN4 – Parallel programming: MPI (Pablo Ródenas, Gaurav Saxena)
16:00 - 16:30 COFFEE BREAK

16:30 - 17:00 How to use MN4 – Parallel programming: MPI Hands-on III (Pablo Ródenas, Gaurav Saxena)

DAY 2 (Feb. 27) 09:00 - 13:00

Session 3 / 09:00 – 13:00 (2:00h lectures, 1:30 h practical)

9:00 - 9:30 How can I get resources from you? - RES (David Vicente)
9:30 - 10:00 How can I get Resources from you? – PRACE (Cristian Morales)
10:00 - 10:30 HPC Architectures (David Vicente)
10:30 - 11:00 COFFEE BREAK

11:00 - 12:00 Containers on HPC (Óscar Hernández)
12:00 - 13:00 Debugging on MareNostrum, from GDB to DDT (Óscar Hernández, Cristian Morales)

END of COURSE