

WELCOME TO 48TH VI-HPS TUNING WORKSHOP

Hybrid - BSC
9th February – 13th February

Monday 1 PM – 5 PM (CET)
Tuesday – Thursday 9AM – 5 PM (CET)
Friday 9 AM – 1 PM (CET)

Lunch Break: 1-2 PM (CET)

Organization and support:
Vlasta Petrovic (BSC, CASTIEL-2)
Brian J. N. Wylie (JSC, POP3, VI-HPS)

Time	Location	Topic	Trainer	Onsite / Online
13:00	1-2-1	Welcome	Marta Garcia (BSC)	Onsite
13:15	1-2-1	Introduction to VI-HPS & overview of tools	Cédric Valensi (UVSQ)	Onsite
13:45	1-2-1	Introduction to POP CoE and its services	Marta Garcia (BSC)	Onsite
14:00	1-2-1	POP methodology & efficiency/scaling metrics	Marta Garcia (BSC)	Onsite
14:30	1-2-1	JSC tools and example assessments BSC tools and example assessments	Brian Wylie (JSC) Valentin Seitz (BSC)	Online
15:30	Terrasse	(coffee break)		
16:00	1-2-1	Hands-on preparing participants' own codes & test-cases; MareNostrum5 hardware & software environment	All	Onsite
17:00		(adjourn)		

Time	Location	Topic	Trainer	Onsite Online
9:00	1-2-1	MAQAO performance analysis framework; MAQAO hands-on exercises	Cédric Valensi, Emmanuel Oseret (UVSQ)	Onsite
10:30	Terrace	(coffee break)		
11:00	1-2-1	TALP	Marta Garcia, Valentin Seitz (BSC)	Onsite
12:00	1-2-1	OTF-CPT	Tobias Dollenbacher, Joachim Jenke (RWTH)	Onsite
13:30	Foyer	(lunch)		
14:30	1-2-1	Hands-on coaching on using POP tools to analyze participants' own code(s)	All	
17:00		(adjourn)		

Time	Location	Topic	Trainer	Onsite Online
9:00	1-2-1	Getting started with BSC Tools for MPI+OpenMP; Extrae trace collection; Paraver interactive trace analysis	German Llort Sandra Mendez (BSC)	Onsite
10:30	Terrace	(coffee break)		
11:00	1-2-1	Getting started with JSC Tools for MPI+OpenMP; Score-P instrumentation & measurement; CUBE profile explorer	Marc Schlütter, Brian Wylie (JSC)	Onsite & online
12:30	Foyer	(lunch)		
13:30	1-2-1	Hands-on coaching on using POP tools to analyze participants' own code(s)	All	
17:00		(adjourn)		

Time	Location	Topic	Trainer	Onsite Online
9:00	1-2-1	Advanced use of BSC Tools, including for CPU+GPU; Basic analysis & Burst clustering; nsys2prv	Germán Llort & Lau Mercadal, BSC	Onsite
10:30	Terrace	(coffee break)		
11:00	1-2-1	Nsys2prv	Marc Clascà, BSC	Onsite
11:30	1-2-1	Advanced use of JSC Tools, including for CPU+GPU; Vampir interactive trace visualisation; Scalasca automated trace analysis; GPU/custom measurement & analysis	Marc Schlütter & Brian Wylie, JSC	Onsite & online
13:30	Foyer	(lunch)		
13:30	1-2-1	Hands-on coaching on using POP tools to analyze participants' own code(s)	All	
17:00		(adjourn)		

Time	Location	Topic	Trainer	Onsite Online
9:00	1-2-1	ARCHER OpenMP runtime error detection	Tobias Dollenbacher, RWTH	Onsite
9:30	1-2-1	MUST MPI runtime error detection	Tobias Dollenbacher, RWTH	Onsite
10:00	1-2-1	CARM roofline assessment	Aleksandr Ilic, INESC-ID	Online
10:30	Terrace	(coffee break)		
11:00	1-2-1	MERIC/RADAR energy assessment	Ondřej Vysocký, IT4I	Online
11:30	1-2-1	Hands-on coaching on using POP tools to analyze participants' own code(s)	All	
13:00		(adjourn)		

LOGISTICS:

- Badges
 - Leave it everyday before leaving
 - We will distribute them every morning when you arrive
- Coffee breaks at the terrasse: end of the corridor
- Lunches at the Foyer: in front of the chapel
 - Remember to take your badge with you
 - You must go with somebody from BSC
- Toilets: in the same corridor before reaching the terrasse



LOGIN TO MARENOSTRUM5

username: nct01**XXX**
password: 6U1X6p.**XXX**

Luca Cirrottola	luca.cirrottola@inria.fr	268
Olivier Aumage	olivier.aumage@inria.fr	269
Sonam Sonam	sonam.sonam@bsc.es	270
Ferran Cuevas Ferrando	ferran.cuevas@bsc.es	271
Yacine Rouis	yacine.ouldrouis@bsc.es	272
Carlos Arnedo	carlos.arnedo@bsc.es	273
Beatriz Eguzkitza	beatriz.eguzkitza@bsc.es	274
Marcel Cases Freixenet	marcel.cases@bsc.es	275
Simone Vacondio	simone.vacondio@bsc.es	276
Roc Salvador Andreazini	roc.salvador@bsc.es	277
Edgars Liepa	edgars.liepa@rtu.lv	278
Sophie Brass		279

<https://bsc.es/supportkc/docs/MareNostrum5/intro>

```
$> ssh {username}@glogin1.bsc.es
```

```
$> ssh {username}@alogin1.bsc.es
```

Unixgroup/Account: nct_362

Queues (QoS)

- **GPP:** gp_debug, gp_interactive, gp_training
- **Acc:** acc_debug, acc_interactive, acc_training

Example:

```
sbatch -A nct_362 -q gp_training myjob.sh
```

