

Virtual Institute – High Productivity Supercomputing

Partnership to develop advanced programming tools for complex simulation codes

Goals

Improve code quality
Speed up development

Activities

Development & integration of HPC programming tools

- ✕ Scalable
- ✕ Easy to use

Service

- ✕ Support email lists
- ✕ Application engagement

Bring-your-own-code tuning workshops

- ✕ 3-5 days
- ✕ Overview of tool suite
- ✕ Functionality of individual tools
- ✕ Hands-on experience & expert assistance using the tools

Academic workshops especially for young scientists

ESPT/ProTools workshop series in conjunction with Supercomputing (SC) conference

More information
www.vi-hps.org

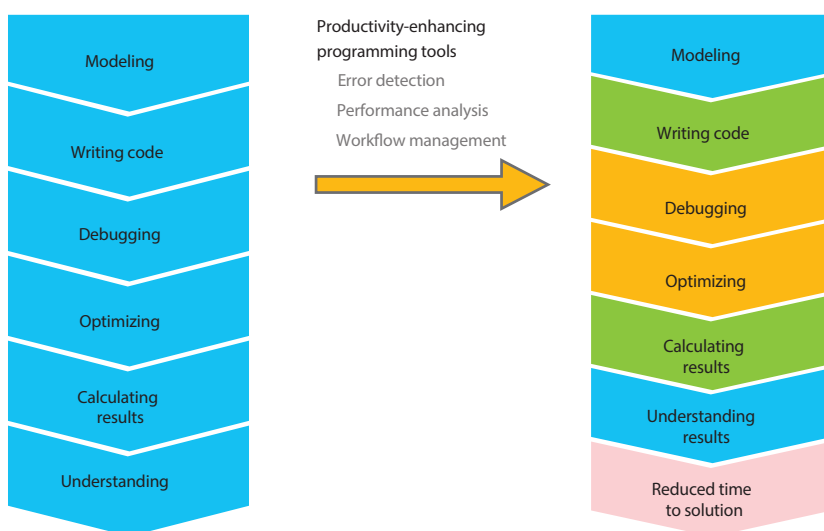
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Sponsored by

HELMHOLTZ

RESEARCH FOR GRAND CHALLENGES

Supercomputing productivity



Integrated tool suite

Single Node Performance	Parallel Performance		Debugging & Correctness	
Callgrind	Dimemas	OpenSpeedShop	Archer	End-user
LIKWID	Extra-P	Paraver	Linaro DDT	
MAQAO	Linaro MAP	Scalasca	Memchecker	
DiscoPoP	Linaro Performance Reports	TAU	MUST	
	mpiP	Vampir	STAT	
Instrumentation	Measurement	Integration	Visualization	Infrastructure
OPARI2	Caliper	Component-based Tool Framework	Cube	
	Extrac	LaunchMON		
	PAPI	pMPI		
	Score-P	JUBE		