

SPECFEM3D

● Updated results (if any)

- **New performance portability campaigns** (in the presence of new hardware and/or new mini-apps or existing mini-apps with different flavors)
- **Improvements** (in the presence of new enhancements identified in Task T2.3 that are still pending)
 - Visco-elastic : reduced memory usage, memory variable stress → displacement.

Mini-app benchmark:

N_{GLL}	5		8			
Method	old	new	old	new	old-4mpi	new-4mpi
Total VRAM (MiB)	15452	7072	Out of memory	31694	16248	8286
Simulation time (s)	39.423	23.472	DNF	122.256	44.567	30.224

- **Porting activities** (full code) : new attenuation scheme ported in specfem-waves
- **Use (integration with code/workflow) of TALP in performance monitoring activities**
- **AOB**

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- **Mandatory section**

- **please, specify if you still have additional effort in WP2 for your code**
- **if not, please, specify if you plan to request effort from CINECA (or someone else in the project) from now on**

- **Planned updates (if any)**

- **New performance portability campaigns** (in the presence of new hardware and/or new mini-apps or existing mini-apps with different flavors)
- **Improvements** (in the presence of new enhancements identified in Task T2.3 that are still pending)
 - Data compression in GPU memory (mesh, model) to reduce memory throughput. (the current code is memory band)
- **Porting activities** (full code)
- **Use (integration with code/workflow) of TALP in performance monitoring activities**
- **AOB**

