H2 molecule :

Delley partition-tab
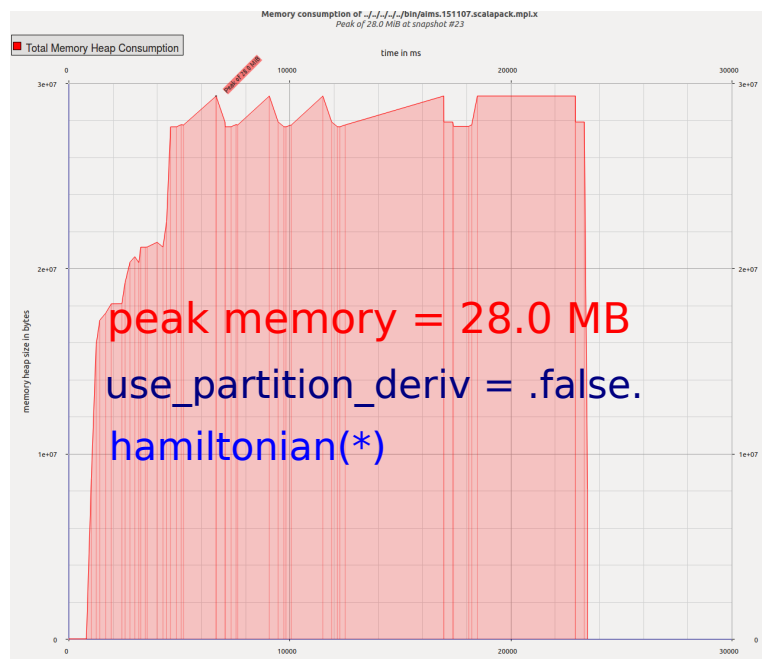
Basis set: minimal
Grid: tight setting
 XC : LDA
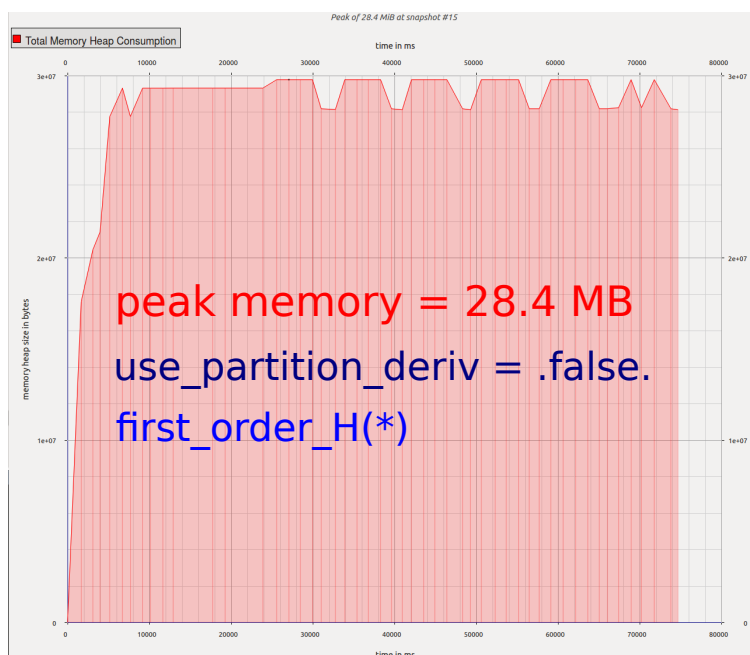
(1) DFT
(Time = 22 000 ms)
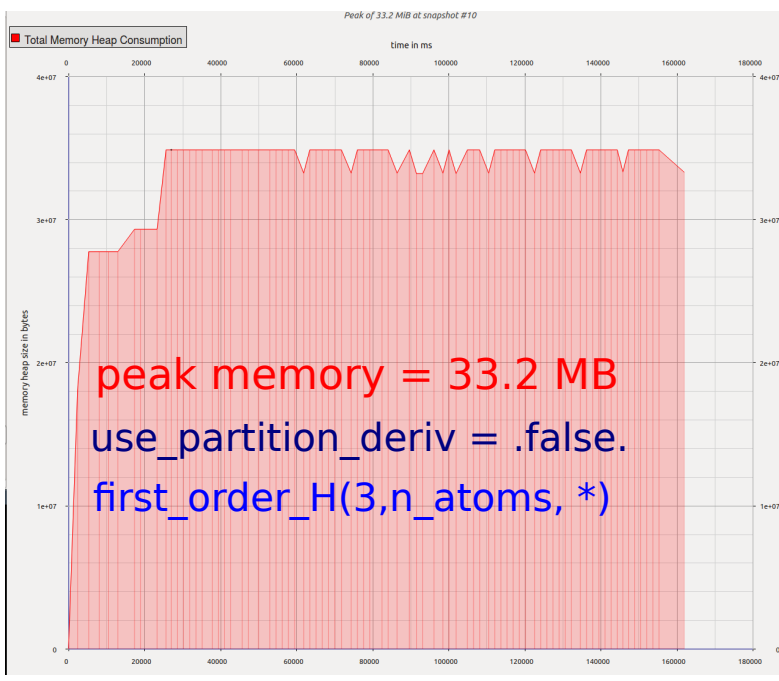

peak memory = 28.0 MB
use_partition_deriv = .false.
hamiltonian(*)

(2) DFPT vibration_reduce_memory
(Time = 73 000 ms)

peak memory = 28.4 MB
use_partition_deriv = .false.
first_order_H(*)

(3) DFPT vibration
(Time = 161 000 ms)

peak memory = 33.2 MB
use_partition_deriv = .false.
first_order_H(3,n_atoms, *)

(4) DFPT vibration_with_moving_grid_effect
 (Time = 169 000 ms)

peak memory = 34.6 MB
use_partition_deriv = .true.
first_order_H(3,n_atoms, *)