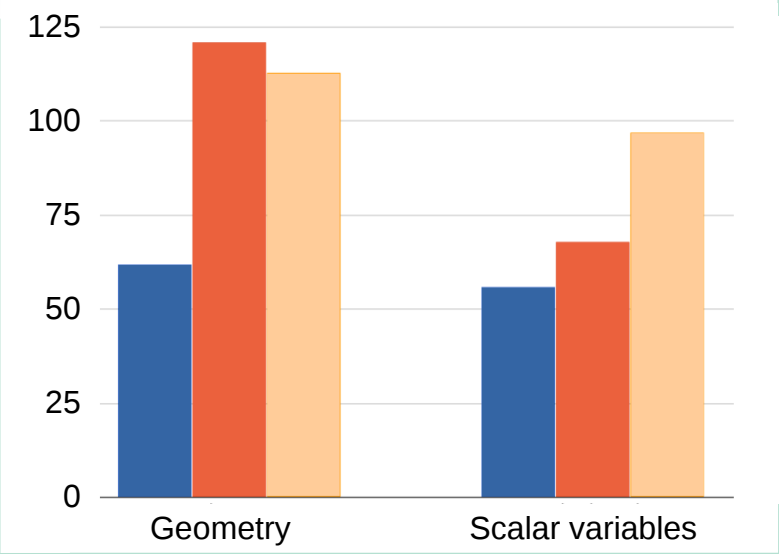
News on FEMZIP-OpenFOAM

Size originally	32.5 GB
Size compressed	2.6 GB
Compression ratio	12.3

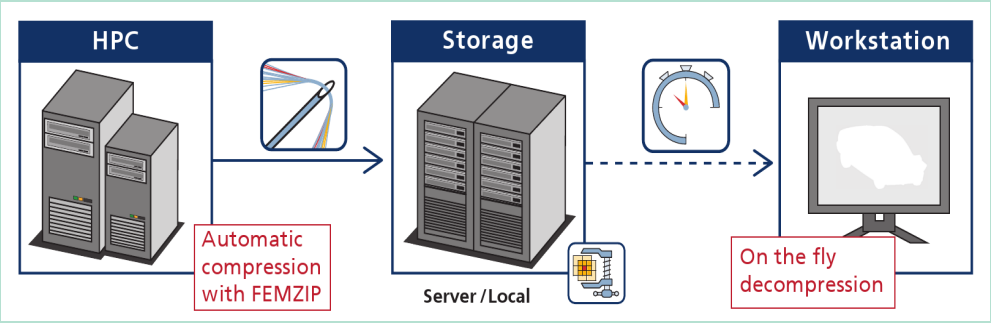
Compression ratio for a transient OpenFOAM case with 55Mio cells, 11 time steps and 4 variables.

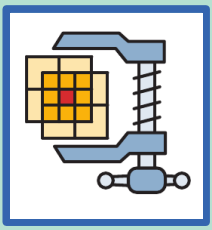
- On-the-fly compression while simulating
- Compression of decomposed models
- Optimized postprocessing of FEMZIP compressed data in **µETA**:
  - ➔ On-the-fly reconstruction of geometry and variable information
  - ➔ High performance multi-threaded reading
  - ➔ Visualization of interim results during simulation



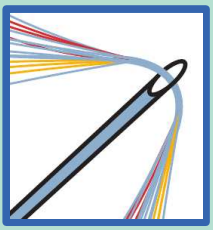
µETA read-in times in seconds for an OpenFOAM case on NFS disk over an 1Gbps network.

FEMZIP-CFD in your workflow





With smaller file sizes, servers and the scratch on clusters can be kept small.



The traffic between clusters, servers, and workstations can be reduced drastically.

Faster visualization compared to the original format. No need for merging and format conversions.

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