

Update on meteo format

From HDF to NetCDF ?

from previous meeting

- **current format:**
 - hdf
 - internal compression
 - saves 25% of disk space
 - useful when we only used workstations with small disks
 - multiple 3D records in a file
 - 8-10 years old ?
- **testing a new format:**
 - NetCDF4
 - = based on HDF5
 - ! bug in HDF5 for IBM AIX machines (ecmwf ...);
therefore tests with 'classic' NetCDF
 - 4D records
 - uncompressed
 - allows parallel i/o

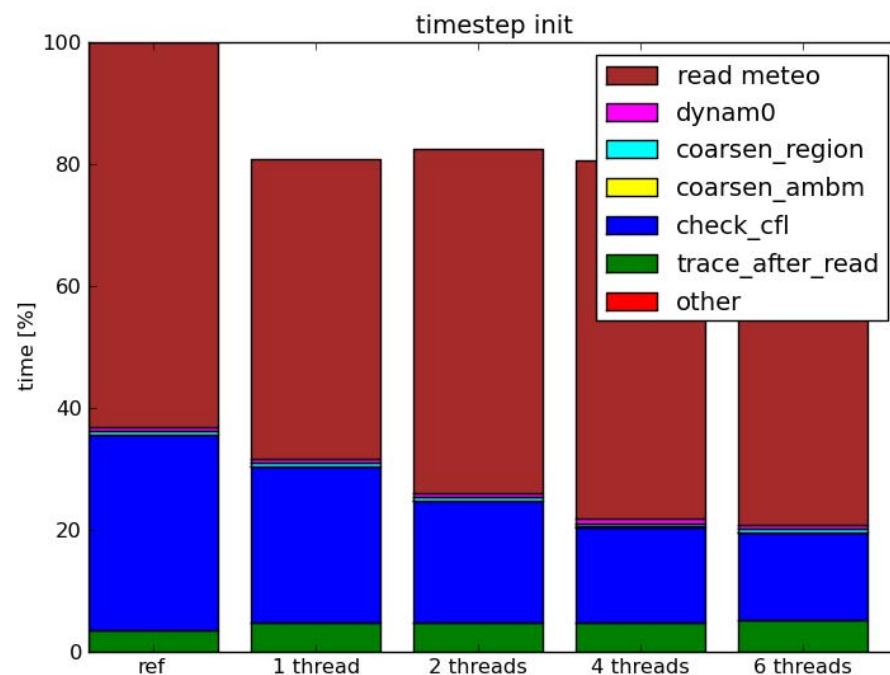
from previous meeting

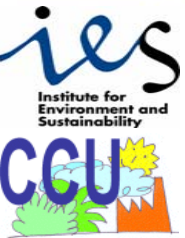
- **current format:**
 - hdf
 - internal compression
 - saves 25% of disk space
 - useful when we only used workstations with small disks
 - multiple 3D records in a file
 - 8-10 years old ?
- **testing a new format:**
 - NetCDF4
 - = based on HDF5
 - ! bug in HDF5 for IBM AIX machines (...wf ...); therefore tests with 'old' NetCDF
 - 4D records
 - uncompressed
 - allows parallel i/o

solved !

- Compared runs with old and new meteo:
 - tiny difference in land/sea mask (% is not a CF unit); round to integer values 0-100 ...
 - run output exactly the same

- run time for reading meteo: -20%
- ... but slightly increasing when using more threads (memory?)
- similar for input from glb3x2 and glb1x1
- ! overall time strongly depended on file system !





- **Proposal: commit branch into trunk:**
 - backwards compatible
 - cleaner
 - ready for use in future (far, far away ...)
- **Proposal: start converting archives:**
 - era-interim
- ... at the same time : clean up ALL archives !