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ALADIN NWP System and code maintenance (including HIRLAM system experts)

[alabobo2] gmckpack 6.6.4

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 - **Subject:** [alabobo2] gmckpack 6.6.4
 - **Date:** Fri, 8 Jul 2016 11:06:00 +0200 (CEST)
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Dear all,

Here is an update of gmckpack, needed for cycle 43T1 and later. What is new inside :

- Yet another keyword (PROCEDURE) in Fortran90_stuff.pm
- Additive cpp macros for surfex in configuration file templates (needed since surfex v8) :
 - Din_surfex -DSFX_ARO -DSFX_ASC -DSFX_OL -DSFX_TXT -DSFX_FA
 - DSFX_LFI -DARO -DOL -DASC -DTXT -DFA -DLFI
- remove support for executable "master"
- add support for executable "ctpini"
- add linker option -Wl,--unresolved-symbols=ignore-in-object-files for Cray configuration file template
- Add option -fast-transcendentals to configuration files with Ifort compiler
- Wrapper "svmlfix" for Intel Ifort compiler to work around the issue of the option "-fast-transcendentals"

Remark about the option -fast-transcendentals for the Ifort compiler :

This option is valuable to improve the performance of the code, thanks to more vectorization. However it appears to make non-bitwise-reproducible results (at a change of NPROMA, or the number of threads or tasks) under certain circumstances. The wrapper "svmlfix" is provided as a workaround against this issue.

This new version has been installed on MF supercomputers "beaufix" and "prolix", on the PCs of GMAP and at ECMWF on CCA.
The former version can still be used, as "gmckpack.old"

The tar file can be found on ecfs and hendrix :
ec:/rme/hirald/gmckpack/gmckpack.6.6.4.tar.gz
hendrix:/home/khatib/gmckpack/gmckpack.6.6.4.tgz

Best regards,
Ryad

----- Météo-France -----

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