

FAQ Errors

C. Hourdin - Juillet 2022

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Problème compilation croco

IRENE-AMD / Error compilation partit.F - problème ordre module load

C. Hourdin - Juillet 2022

```
cpp -traditional -Dlinux -Difort -P -I/ccc/products2/python3-3.6.4/Atos_7_x86_64/intel--17.0.4.196__openmpi--2.0.2/default/include -ICROCOFILES/AGRIF_INC partit.F > partit._f
mpif90 -c -O3 -fno-alias -i4 -r8 -fp-model precise partit._f -o partit.o
partit._f(522): error #6404: This name does not have a type, and must
  have an explicit type.    [NF_OPEN]
          ierr=nf_open (src_name(1:lsrc), nf_nowrite, ncsrc)
          -----^
...
          -----^
partit._f(1345): catastrophic error: Too many errors, exiting
compilation aborted for partit._f (code 1)
make: *** [partit] Error 1
```

```
nf-config --includedir
/ccc/products2/python3-3.6.4/Atos_7__x86_64/intel--17.0.4.196__openmpi
--2.0.2/default/include
```

au lieu de :

```
/ccc/products/ccc_users_env/compil/Atos_7__x86_64/netcdf-fortran-4.4.4
/intel--19.0.5.281__openmpi--4.0.1/hdf5__parallel/include
```

Il y a un conflit entre python & intel

```
1201 module purge >/dev/null 2>&1
1202 # From Seb 02/08/2021 see $HOME/loadintel.sh & $HOME/loadgcc
1203 module load python3/3.6.4
1204 module load intel/19.0.5.281
1205 module load mpi/openmpi/4.0.2
```

donne le conflit suivant:

```
[SOLAB@irene152:/ccc/scratch/cont005/gen1140/hourdinc/croco_dev_2022_PISCES/OCEAN] module load python3/3.6.4
load module feature/mkl/single_node (MKL without mpi interface)
load module flavor/buildcompiler/intel/20 (Compiler build flavor)
load module flavor/buildmpi/openmpi/4.0 (MPI build flavor)
load module feature/openmpi/mpi_compiler/intel (MPI Compiler feature)
load module flavor/openmpi/standard (Open MPI flavor)
load module feature/openmpi/io/standard (MPI-IO feature)
load module feature/openmpi/net/auto (MPI Network backend feature)
load module licsrv/intel (License service)
load module c/intel/20.0.0 (Intel C Compiler)
load module c++/intel/20.0.0 (Intel C++ Compiler)
load module fortran/intel/20.0.0 (Intel Fortran compiler)
load module flavor/libgcc_user/hwloc2 (libgcc_user flavor)
load module hwloc/2.2.0 (Hwloc)
load module pmix/3.1.5 (Process Management Interface (PMI) for eXascale)
load module flavor/ucx/standard (ucx flavor)
load module ucx/1.9.0 (Mellanox backend)
load module feature/mkl/lp64 (MKL feature)
load module feature/mkl/sequential (MKL feature)
load module feature/mkl/vector/avx2 (MKL vectorization feature)
load module mkl/20.0.0 (Intel MKL LP64 Sequential without mpi interfaces)
load module intel/20.0.0 (Intel Compiler Suite)
load module flavor/hcoll/standard (hcoll flavor)
load module feature/hcoll/multicast/enable (Hcoll features)
load module sharp/2.1 (Mellanox backend)
load module hcoll/4.5.3043 (Mellanox hcoll)
load module mpi/openmpi/4.0.5 (Open MPI)
load module python3/3.6.4 (Python 3)
[SOLAB@irene152:/ccc/scratch/cont005/gen1140/hourdinc/croco_dev_2022_PISCES/OCEAN] module load intel/19.0.5.281
Loading intel/19.0.5.281
ERROR: intel/19.0.5.281 cannot be loaded due to a conflict.
HINT: Might try "module unload intel" first.
[SOLAB@irene152:/ccc/scratch/cont005/gen1140/hourdinc/croco_dev_2022_PISCES/OCEAN] module load mpi/openmpi/4.0.2
Loading mpi/openmpi/4.0.2
ERROR: mpi/openmpi/4.0.2 cannot be loaded due to a conflict.
HINT: Might try "module unload mpi/openmpi" first.
```

Alors que si on load le module python en dernier, aucun signalement mais le conflit existe bien et on le retrouve sur "nf-config --includedir"

```

[SOLAB@irene152:/ccc/scratch/cont005/gen1140/hourdinc/croco_dev_2022_PISCES/OCEAN] module purge >/dev/null 2>&1
[SOLAB@irene152:/ccc/scratch/cont005/gen1140/hourdinc/croco_dev_2022_PISCES/OCEAN] module load intel/19.0.5.281

load module flavor/buildcompiler/intel/19 (Compiler build flavor)
load module licensrv/intel (License service)
load module c/intel/19.0.5.281 (Intel C Compiler)
load module c++/intel/19.0.5.281 (Intel C++ Compiler)
load module fortran/intel/19.0.5.281 (Intel Fortran compiler)
load module feature/mkl/lp64 (MKL feature)
load module feature/mkl/sequential (MKL feature)
load module feature/mkl/single_node (MKL without mpi interface)
load module feature/mkl/vector/avx2 (MKL vectorization feature)
load module mkl/19.0.5.281 (Intel MKL LP64 Sequential without mpi interfaces)
load module intel/19.0.5.281 (Intel Compiler Suite)
[SOLAB@irene152:/ccc/scratch/cont005/gen1140/hourdinc/croco_dev_2022_PISCES/OCEAN] module load mpi/openmpi/4.0.2
load module flavor/buildmpi/openmpi/4.0 (MPI build flavor)
load module feature/openmpi/mpi_compiler/intel (MPI Compiler feature)
load module flavor/openmpi/standard (Open MPI flavor)
load module feature/openmpi/io/standard (MPI-IO feature)
load module feature/openmpi/net/auto (MPI Network backend feature)
load module flavor/hcoll/standard (hcoll flavor)
load module feature/hcoll/multicast/enable (Hcoll features)
load module sharp/2.0 (Mellanox backend)
load module hcoll/4.4.2938 (Mellanox hcoll)
load module flavor/libccc_user/hwloc2 (libccc_user flavor)
load module hwloc/2.0.4 (Hwloc)
load module pmix/3.1.3 (Process Management Interface (PMI) for eXascale)
load module flavor/ucx/standard (ucx flavor)
load module ucx/1.7.0 (Mellanox backend)
load module mpi/openmpi/4.0.2 (Open MPI)
[SOLAB@irene152:/ccc/scratch/cont005/gen1140/hourdinc/croco_dev_2022_PISCES/OCEAN] module load python3/3.6.4
load module python3/3.6.4 (Python 3)

```

Problème Execution croco

IRENE/ Error execution XIOS - module gcc

C. Hourdin - Avril 2022

Error si on compile croco avec XIOS sans "module load gcc" ?

```

mpif90 -check bounds -fpe0 -traceback -g -O0 -ftrapuv -72 -fno-alias -
i4 -r8 -fp-model precise -mcmmodel=medium -IAGRIF -I/ccc/work/cont005/g
en1140/hourdinc/wd/ASAP2/exp/datarmor2/compile/xios/XIOS_X64_IRENE_tru
nk_r2219-2021_09_06/inc -o a.out par_pisces.o ocean2pisces.o trc.o sm
s_pisces.o p4zche.o p4zint.o p4zlys.o p4zflx.o p4zlim.o p4zsink.o p4zm
icro.o p4zmeso.o p4zmort.o p4zopt.o p4zprod.o p4zrem.o p4zsrc.o p4zsed
.o trcwri_pisces.o p4zagg.o p4zfechem.o p4zligand.o p4zpoc.o p4zsms.o
p5zlim.o p5zmeso.o p5zmicro.o p5zmort.o p5zprod.o p4zbio.o trcsms_pisc
es.o trcini_pisces.o pisces_ini.o oce_sed.o par_sed.o sedadv.o sedarr.
o sedbtb.o sedchem.o sedco3.o seddiff.o seddsr.o seddta.o sed.o sedini
.o sedinitrc.o sedinorg.o sedmat.o sedmbc.o sedmodel.o sed_oce.o sedor
g.o sedrst.o sedsfc.o sedstp.o sedwri.o setavg_sed.o module_parameter_
oa.o module_oa_time.o module_oa_space.o module_oa_periode.o module_oa_
variables.o module_oa_type.o module_oa_stock.o module_oa_level.o modul
e_oa_interface.o module_oa_upd.o croco_oa.o var_oa.o tooldatosec.o too
lsectodat.o tooldecompdat.o main.o step.o read_inp.o timers_roms.o ini
t_scalars.o init_arrays.o set_weights.o set_scoord.o ana_grid.o setup_
grid1.o setup_grid2.o set_nudgcof.o ana_initial.o analytical.o zonavg.

```

```
o step2d.o u2dbc.o v2dbc.o zetabc.o obc_volcons.o pre_step3d.o step3d_
t.o step3d_uv1.o step3d_uv2.o prsgrd.o rhs3d.o set_depth.o omega.o uv3
dmix.o uv3dmix_spg.o t3dmix.o t3dmix_spg.o hmix_coef.o wetdry.o u3dbc.
o v3dbc.o t3dbc.o step3d_fast.o step3d_w.o rhs3d_w_nh.o initial_nbq.o
grid_nbq.o unbq_bc.o vnbq_bc.o wnbq_bc.o rnbq_bc.o w3dbc.o nbq_bry_sto
re.o rho_eos.o ab_ratio.o alfabeta.o ana_vmix.o bvf_mix.o lmd_vmix.o g
ls_mixing.o lmd_skpp.o lmd_bkpp.o lmd_swfrac.o lmd_wscale.o diag.o wvl
cty.o checkdims.o grid_stiffness.o bio_diag.o setup_kwds.o check_kwds.
o check_srcs.o check_switches1.o check_switches2.o debug.o param.o ncs
crum.o scalars.o output.o put_global_atts.o nf_fread.o nf_fread_x.o nf
_fread_y.o nf_read_bry.o get_date.o lenstr.o closecdf.o insert_node.o
fillvalue.o nf_add_attribute.o set_cycle.o def_grid_2d.o def_grid_3d.o
def_his.o def_rst.o def_diags.o def_diagsM.o def_bio_diags.o wrt_grid.o
/ccc/work/cont005/gen1140/hourdinc/wd/ASAP2/exp/datarmor2/compile/xios
/XIOS_X64_IRENE_trunk_r2219-2021_09_06/lib/libxios.a(icaxis.o): In fun
ction `cxios_axis_handle_create':
icaxis.cpp:(.text+0x74): undefined reference to `std::__cxx11::basic_s
tring<char, std::char_traits<char>, std::allocator<char> >::_M_append(
char const*, unsigned long)'
icaxis.cpp:(.text+0x88): undefined reference to `std::__cxx11::basic_s
tring<char, std::char_traits<char>, std::allocator<char> >::_M_find_first
_not_of(char, unsigned long) const'
icaxis.cpp:(.text+0xa4): undefined reference to `std::__cxx11::basic_s
tring<char, std::char_traits<char>, std::allocator<char> >::_M_find_last
_not_of(char, unsigned long) const'
icaxis.cpp:(.text+0xc8): undefined reference to `std::__throw_out_of_r
ange_fmt(char const*, ...)'
icaxis.cpp:(.text+0x122): undefined reference to `std::__cxx11::basic_
string<char, std::char_traits<char>, std::allocator<char> >::_M_create
(unsigned long&, unsigned long)'
icaxis.cpp:(.text+0x23a): undefined reference to `std::__cxx11::basic_
string<char, std::char_traits<char>, std::allocator<char> >::_M_assign
(std::__cxx11::basic_string<char, std::char_traits<char>, std::allocat
or<char> > const&)'
icaxis.cpp:(.text+0x45d): undefined reference to `std::__cxx11::basic_
string<char, std::char_traits<char>, std::allocator<char> >::_M_replac
e(unsigned long, unsigned long, char const*, unsigned long)'
icaxis.cpp:(.text+0x558): undefined reference to `std::__cxx11::basic_
string<char, std::char_traits<char>, std::allocator<char> >::_M_append
(char const*, unsigned long)'
icaxis.cpp:(.text+0x677): undefined reference to `std::__cxx11::basic_
string<char, std::char_traits<char>, std::allocator<char> >::_M_assign
(std::__cxx11::basic_string<char, std::char_traits<char>, std::allocat
or<char> > const&)'
icaxis.cpp:(.text+0x7ce): undefined reference to `std::basic_ostream<c
har, std::char_traits<char> >& std::operator<< <char, std::char_traits
<char>, std::allocator<char> >(std::basic_ostream<char, std::char_trai
ts<char> >&, std::__cxx11::basic_string<char, std::char_traits<char>,

```

```
std::allocator<char> > const&)'
```