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# Whenever this version string changes, the application is configured
# and rebuilt from scratch

# Gabriele Bozzola (gabrielebozzola@email.arizona.edu) tested this
# configuration. He also tested compiling with the Intel stack, which yields a
# marginally slower executable (~ 4%), at the price of a significantly longer
# build time (and more complex configuration). No tests with aocc were
# performed.

VERSION = expanse-2021-08-11

CPP      = cpp
FPP      = cpp
CC       = gcc
CXX      = g++
F77      = gfortran
F90      = gfortran

CPPFLAGS =
FPPFLAGS = -traditional -march=znver2 -
I/home/mmutz/Cactus/arrangements/MRNS/Cocalthorn/src/Cocal_MRNS/Include_file/
CFLAGS   = -m128bit-long-double -std=gnull -march=znver2 -fomit-frame-pointer -
I/home/mmutz/Cactus/arrangements/MRNS/Cocalthorn/src/Cocal_MRNS/Include_file/
CXXFLAGS = -m128bit-long-double -std=gnu++14 -march=znver2 -fomit-frame-pointer -
I/home/mmutz/Cactus/arrangements/MRNS/Cocalthorn/src/Cocal_MRNS/Include_file/
F90FLAGS = -m128bit-long-double -fcray-pointer -ffixed-line-length-none -fno-range-check -
march=znver2 -fomit-frame-pointer -lgfortran -
I/home/mmutz/Cactus/arrangements/MRNS/Cocalthorn/src/Cocal_MRNS/Include_file/
F77FLAGS = -m128bit-long-double -fcray-pointer -ffixed-line-length-none -fno-range-check -
march=znver2 -fomit-frame-pointer -lgfortran -
I/home/mmutz/Cactus/arrangements/MRNS/Cocalthorn/src/Cocal_MRNS/Include_file/

# We need to include numa explicitly for hwloc
LDFLAGS = -L/cm/shared/apps/spack/cpu/opt/spack/linux-centos8-zen2/gcc-10.2.0/numactl-2.0.12-
brsvuiqgwwnn2otgnu3pyemvvp6dal2n/lib/ -lm -lgfortran -
L/home/mmutz/Cactus/arrangements/MRNS/Cocalthorn/src/Cocal_MRNS/Main_utility/ -lcocalmrns

C_LINE_DIRECTIVES = yes
F_LINE_DIRECTIVES = yes

VECTORISE           = yes
VECTORISE_ALIGNED_ARRAYS = no
VECTORISE_INLINE   = yes

DEBUG = no
CPP_DEBUG_FLAGS = -g -DCARPET_DEBUG
FPP_DEBUG_FLAGS = -g -DCARPET_DEBUG
C_DEBUG_FLAGS   = -g -ftrapv -fstack-protector-all -fbounds-check
CXX_DEBUG_FLAGS = -g -ftrapv -fstack-protector-all -fbounds-check
CUCC_DEBUG_FLAGS =
F77_DEBUG_FLAGS = -g -ftrapv -fstack-protector-all -fcheck=bounds,do,mem,pointer,recursion -
finit-character=65 -finit-integer=42424242 -finit-real=nan
F90_DEBUG_FLAGS = -g -ftrapv -fstack-protector-all -fcheck=bounds,do,mem,pointer,recursion -
finit-character=65 -finit-integer=42424242 -finit-real=nan

OPTIMISE = yes
CPP_OPTIMISE_FLAGS = # -DCARPET_OPTIMISE -DNDEBUG
FPP_OPTIMISE_FLAGS = # -DCARPET_OPTIMISE -DNDEBUG
C_OPTIMISE_FLAGS   = -O2 -mavx2 -mfma
CUCC_OPTIMISE_FLAGS =
CXX_OPTIMISE_FLAGS = -O2 -mavx2 -mfma

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F90_OPTIMISE_FLAGS = -O2 -mavx2 -mfma
F77_OPTIMISE_FLAGS = -O2 -mavx2 -mfma
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PROFILE = no
CPP_PROFILE_FLAGS =
FPP_PROFILE_FLAGS =
C_PROFILE_FLAGS = -pg
CXX_PROFILE_FLAGS = -pg
F77_PROFILE_FLAGS = -pg
F90_PROFILE_FLAGS = -pg
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OPENMP = yes
CPP_OPENMP_FLAGS = -fopenmp
FPP_OPENMP_FLAGS = -fopenmp
C_OPENMP_FLAGS = -fopenmp
CXX_OPENMP_FLAGS = -fopenmp
F77_OPENMP_FLAGS = -fopenmp
F90_OPENMP_FLAGS = -fopenmp
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WARN = no
CPP_WARN_FLAGS = -Wall
FPP_WARN_FLAGS = -Wall
C_WARN_FLAGS = -Wall
CXX_WARN_FLAGS = -Wall
CUCC_WARN_FLAGS = -Xcompiler -Wall
F90_WARN_FLAGS = -Wall
F77_WARN_FLAGS = -Wall
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HDF5_DIR = /cm/shared/apps/spack/cpu/opt/spack/linux-centos8-zen2/gcc-10.2.0/hdf5-1.10.7-urefddymoouyxn45uh5u6ivf3ooczscq/
LIBSZ_DIR = /cm/shared/apps/spack/cpu/opt/spack/linux-centos8-zen2/gcc-10.2.0/libszip-2.1.1-fxcnk144v1cmp6ugasj3fttoiwb7y5oo/lib
HWLOC_DIR = /cm/shared/apps/spack/cpu/opt/spack/linux-centos8-zen2/gcc-10.2.0/hwloc-1.11.11-kwmqdgzyk36skm33xwsxa43mikyfiomh/
LIBJPEG_DIR = /cm/shared/apps/spack/cpu/opt/spack/linux-centos8-zen2/gcc-10.2.0/libjpeg-turbo-2.0.4-lzreprdckc3qvpahz5xbyh7e67pnuuhr/
ZLIB_DIR = /cm/shared/apps/spack/cpu/opt/spack/linux-centos8-zen2/gcc-10.2.0/zlib-1.2.11-rchx61a4w4coybgwftagexqeqwmsqlgo/
OPENBLAS_DIR = /cm/shared/apps/spack/cpu/opt/spack/linux-centos8-zen2/gcc-10.2.0/openblas-0.3.10-3lzjcwjsyu3qmott7k3k52mtzljioax3/
COCALMRNS_DIR = /home/mmutz/Cactus/arrangements/MRNS/Cocalthorn/src/Cocal_MRNS/Main_utility/
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