

```
In [1]: # this allows you to use "cd" in cells to change directories instead of requiring "%cd"
%automagic on
# override IPython's default %%bash to not buffer all output
from IPython.core.magic import register_cell_magic
@register_cell_magic
def bash(line, cell): get_ipython().system(cell)

# We are going to install kuibit, a Python package to post-process Cactus simulations.
# We will install kuibit inside the Cactus directory. The main reason for this is to
# have a make easier to uninstall kuibit (you can just remove the Cactus folder).
import os, sys
os.environ["PYTHONUSERBASE"] = os.environ['HOME'] + "/Cactus/python"
sys.path.insert(1, f"{os.environ['PYTHONUSERBASE']}/lib/python{sys.version_info[0]}.{sys.version_info[1]}")
os.environ["OMPI_MCA_bt1"]="^vader"
```

Automagic is ON, % prefix IS NOT needed for line magics.

```
In [2]: %%bash
[ -r ~etuser/Cactus.tar.gz ] && ! [ -d ~/Cactus ] && tar -xzf ~etuser/Cactus.tar.gz -C ~/
```

```
In [3]: cd ~/

/home/anisha
```

```
In [4]: %%bash
curl -kLO https://raw.githubusercontent.com/gridaphobe/CRL/ET_2024_11/GetComponents
chmod a+x GetComponents
```

% Total	% Received	% Xferd	Average Speed	Time	Time	Time	Current				
			Dload	Upload	Total	Spent	Left	Speed			
100	98k	100	98k	0	0	10757	0	0:00:09	0:00:09	--:--:--	25483

```
In [5]: %%bash
/GetComponents https://bitbucket.org/einsteintoolkit/manifest/raw/ET_2024_11/einsteintoolkit.th
```

```
In [6]: cd ~/Cactus

/home/anisha/Cactus
```

```
In [7]: %%bash
        ./simfactory/bin/sim setup-silent
```

Here we will define some necessary Simulation Factory defaults.

Determining local machine name: ANISHA.

-----SUMMARY-----:

```
[default]
user      = anisha
email     = anisha
allocation = NO_ALLOCATION
```

-----END SUMMARY-----:

Contents successfully written to /home/anisha/Cactus/repos/simfactory2/etc/defs.local.ini

```
In [8]: %%bash
./simfactory/bin/sim build -j8 --thornlist thornlists/einsteintoolkit.th
```

```

Using configuration: sim
Updated thorn list for configuration sim
Building sim
Cactus - version: 4.17.0
Building configuration sim
Reconfiguring thorns
Reading ThornList...
Parsing configuration files...
  ADIOS2
    Provides:      ADIOS2
    Requires:      ADIOS2
    Optional:      MPI CUDA CMake
  ADMAnalysis
    Requires:      CartGrid3D
  ADMBase
    Requires:      CartGrid3D
  ADMBaseX
    Requires:      Loop
  ADMCoupling
  ADMDerivatives
    Requires thorns: SummationByParts
  ADMMacros
    Provides:      ADMMacros
  ADMMass
  AEILocalInterp
  AHFinder
    Requires:      CartGrid3D
  AHFinderDirect
    Requires:      SpaceMask
    Optional:      HDF5
  AMReX
    Provides:      AMReX
    Requires:      AMReX MPI
    Optional:      CMake
  Arith
    Provides:      Arith
    Optional:      NSIMD yaml_cpp
  BLAS
    Provides:      BLAS
  Baikal
  BaikalVacuum
  Boundary
    Provides:      Boundary
  BoxInBox
    Requires:      Loop
  CT_Analytic
    Requires:      GenericFD
    Optional:      LoopControl
  CT_MultiLevel
    Requires:      Carpet MPI
  Cactus
    Optional:      MPI
  Calck
    Requires:      CartGrid3D Fortran
  Carpet
    Provides:      Carpet
    Requires:      CarpetLib IOUtil MPI Timers
    Optional:      LoopControl
  CarpetEvolutionMask
    Requires:      Carpet
  CarpetIOASCII
    Requires:      Carpet CarpetLib IOUtil
    Optional:      SDF
  CarpetIOBasic
    Requires:      Carpet CarpetLib IOUtil
  CarpetIOHDF5
    Provides:      CarpetIOHDF5
    Requires:      Carpet CarpetLib IOUtil HDF5
    Optional:      MPI rnpletal SDF
  CarpetIOScalar
    Requires:      Carpet CarpetLib IOUtil
  CarpetIntegrateTest

```

Requires:	Carpet
CarpetInterp	
Requires:	Carpet CarpetLib MPI
CarpetInterp2	
Provides:	CarpetInterp2
Requires:	Carpet CarpetLib
CarpetLib	
Provides:	CarpetLib
Requires:	MPI Vectors
Optional:	Boost CycleClock LoopControl HRSCCore
CarpetMask	
Optional:	LoopControl
CarpetProlongateTest	
Requires:	Fortran
CarpetReduce	
Requires:	Carpet CarpetLib MPI
Optional:	LoopControl
CarpetRegrid	
Requires:	Carpet CarpetLib
CarpetRegrid2	
Requires:	Carpet CarpetLib
CarpetRegridTest	
CarpetSlab	
Requires:	Carpet CarpetLib
CarpetTracker	
CarpetX	
Provides:	CarpetX
Requires:	AMReX IOUtil MPI yaml_cpp zlib Arith CarpetXRegrid Loop
Optional:	ADIOS2 CUDA openPMD_api Silo
CarpetXRegrid	
Provides:	CarpetXRegrid
Requires:	AMReX Arith Loop
CartGrid3D	
Provides:	CartGrid3D
Requires:	CoordBase
Cartoon2D	
Requires:	SpaceMask
Constants	
Convert_to_HydroBase	
CoordBase	
Provides:	CoordBase
CoordGauge	
Provides:	CoordGauge
Coordinates	
Requires:	Carpet TensorTypes TGRtensor
CoordinatesSymmetry	
CoordinatesX	
Requires:	Loop
CycleClock	
Provides:	CycleClock
DNSdata	
Requires:	MPI
DemoInterp	
Derivs	
Provides:	Derivs
Requires:	Arith Loop
Dissipation	
DistortedBHIVP	
EHFinder	
Requires:	CartGrid3D
EOS_Base	
Provides:	EOS_Base
EOS_Hybrid	
Requires:	EOS_Base EOS_Polytrope
EOS_IdealFluid	
EOS_Omni	
Provides:	EOS_Omni
Requires:	HDF5
Optional:	MPI
EOS_Polytrope	
Provides:	EOS_Polytrope
Requires:	EOS_Base
EinsteinExact_Test	

EllBase	Provides:	EllBase
EllSOR	Requires:	Boundary CartGrid3D
ErrorEstimator	Requires:	Loop
Exact	Requires:	CoordGauge
Extract		
FFTW3	Provides:	FFTW3
	Requires:	FFTW3
FLRWSolver	Requires:	FFTW3 SpaceMask
FishboneMoncriefID		
FleshInfo		
FluxWaveToyX	Requires:	Loop
Formaline	Optional:	MPI PTHREADS
Fortran	Provides:	Fortran
	Requires:	Fortran
GRHayLHD	Requires:	HDF5
GRHayLHDX	Requires:	HDF5 Loop
GRHayLID	Requires:	HDF5
GRHayLIDX	Requires:	HDF5 Loop
GRHayLib	Provides:	GRHayL
	Requires:	HDF5
GRHydro	Requires:	EOS_Omni Boundary CartGrid3D SpaceMask
	Optional:	EOS_Polytrope
	Optional-iffactive:	Carpet
GRHydro_InitData	Requires:	EOS_Omni Fortran
GSL	Provides:	GSL
	Requires:	GSL
GaugeWave	Requires:	GenericFD
	Optional:	LoopControl
GenericFD	Provides:	GenericFD
GiRaFFE	Provides:	GiRaFFE
	Requires:	Boundary CartGrid3D SpaceMask
GiRaFFE_to_HydroBase		
GiRaFFEFood	Provides:	GiRaFFEFood
	Requires:	Boundary CartGrid3D SpaceMask ShiftedKerrSchild GSL
GlobalDerivative	Requires:	SummationByParts
HDF5	Provides:	HDF5
	Requires:	HDF5 zlib
	Optional:	MPI
HTTPD	Provides:	HTTPD
	Requires:	SOCKET
	Optional:	MPI PTHREADS
HTTPDExtra	Requires:	HTTPD IOUTIL
	Optional:	MPI
HelloWorld		
HighOrderWaveTest		
HydroBase		
HydroBaseX	Requires:	Loop

Hydro_Analysis	
Requires:	LoopControl
Optional:	Fortran
Hydro_InitExcision	
Hydro_RNSID	
Requires:	EOS_Base Boundary CartGrid3D SpaceMask HDF5
Optional:	MPI
IDAnalyticBH	
IDAxiBrillBH	
Requires:	Fortran
IDAxiOddBrillBH	
IDBrillData	
Requires:	CartGrid3D
IDConstraintViolate	
IDFileADM	
IDLinearWaves	
IDScalarWave	
IDScalarWaveC	
IDScalarWaveCXX	
IDScalarWaveElliptic	
IDWaveMoL	
ID_converter_GiRaFFE	
ID_converter_ILGRMHD	
IOASCII	
Requires:	IOUtil
IOBasic	
Requires:	IOUtil
IOHDF5	
Requires:	IOHDF5Util HDF5 IOUtil PUGH
Optional:	FlexIO SDF MPI
IOHDF5Util	
Provides:	IOHDF5Util
Requires:	PUGH IOUtil HDF5
Optional:	MPI
IOJpeg	
Requires:	libjpeg
IOUtil	
Provides:	IOUTIL
IllinoisGRMHD	
Requires:	HDF5 GRHayL
InitBase	
InterpToArray	
Interpolate2	
Requires:	Carpet TGRtensor LAPACK LoopControl
Requires thorns:	CarpetInterp2
KerrSchild	
Requires:	GenericFD
Optional:	LoopControl
LAPACK	
Provides:	LAPACK
Requires:	BLAS
LORENE	
Provides:	LORENE
Requires:	BLAS LAPACK GSL LORENE
LeanBSSNMol	
LlamaWaveToy	
Requires:	Fortran TGRtensor LAPACK
LocalInterp	
LocalInterp2	
LocalReduce	
Loop	
Provides:	Loop
Requires:	AMReX Arith Loop
LoopControl	
Provides:	LoopControl
Optional:	CycleClock hwloc Vectors
ML_ADMConstraints	
Requires:	GenericFD
Optional:	LoopControl
ML_ADMQuantities	
Requires:	GenericFD
Optional:	LoopControl
ML_BSSN	

	Requires:	GenericFD LoopControl Vectors
ML_BSSN_Helper		
	Requires:	CartGrid3D CoordGauge
ML_BSSN_Test		
ML_CCZ4		
	Requires:	GenericFD LoopControl Vectors
ML_CCZ4_Helper		
	Requires:	CartGrid3D CoordGauge
ML_CCZ4_Test		
ML_WaveToy		
	Requires:	GenericFD LoopControl Vectors
ML_WaveToy_Test		
MPI		
	Provides:	MPI
	Requires:	MPI
	Optional:	hwloc
MemSpeed		
	Requires:	Vectors
	Optional:	MPI
Meudon_Bin_BH		
	Requires:	LORENE
Meudon_Bin_NS		
	Requires:	LORENE
Meudon_Mag_NS		
	Requires:	LORENE
Minkowski		
	Requires:	GenericFD
	Optional:	LoopControl
MoL		
ModifiedSchwarzschildBL		
	Requires:	GenericFD
	Optional:	LoopControl
Multipole		
	Optional:	HDF5
NPScalars		
NPScalars_Proca		
NRPyEllipticET		
	Provides:	NRPyEllipticET
NSIMD		
	Provides:	NSIMD
	Requires:	NSIMD
	Optional:	CMake
NaN Catcher		
NaNChecker		
	Provides:	NaNChecker
NewRad		
	Requires:	GenericFD
NewRadX		
	Provides:	NewRadX
	Requires:	Loop
Nice		
NoExcision		
	Optional-ifactive:	Carpet
NoMPI		
	Optional:	MPI
Noise		
Norms		
NullConstr		
	Provides:	NullConstr
	Requires:	Fortran NullInterp NullGrid NullEvolve
NullDecomp		
	Provides:	NullDecomp
NullEvolve		
	Provides:	NullEvolve
	Requires:	NullGrid NullInterp Fortran NullDecomp
NullExact		
	Requires:	Fortran NullEvolve NullGrid NullInterp
NullGrid		
	Provides:	NullGrid
	Requires:	Fortran
NullInterp		
	Provides:	NullInterp
	Requires:	Fortran NullGrid

NullNews	Provides:	NullNews
	Requires:	MPI NullInterp NullGrid NullDecomp
NullPsiInt	Requires:	Fortran NullNews NullGrid
NullSHRExtract	Provides:	NullSHRExtraction
	Requires:	Fortran NullEvolve NullInterp NullGrid NullDecomp
NullVars	Provides:	NullVars
ODESolvers	Requires:	AMReX CarpetX
OpenSSL	Provides:	OpenSSL
Outflow		
PUGH	Provides:	PUGH
	Optional:	MPI Vectors
PUGHInterp	Requires:	PUGH
	Optional:	MPI
PUGHReduce	Requires:	PUGH
	Optional:	MPI
PUGHSlab	Requires:	PUGH
	Optional:	MPI
Periodic	Requires:	Slab
PeriodicCarpet	Requires:	Carpet CarpetLib
Poisson	Requires:	Boundary Carpet CartGrid3D TATelliptic
ProcaBase		
ProcaEvolve		
Proca_simpleID		
PunctureTracker		
QuasiLocalMeasures	Requires:	Boundary Fortran LAPACK TGRtensor
	Optional:	MPI
ReadInterpolate	Requires:	HDF5 Carpet IOUtil
ReductionTest		
ReductionTest2		
ReductionTest3		
ReflectionSymmetry		
RegridSyncTest		
RotatingDBHIVP		
RotatingSymmetry180	Requires:	Slab
RotatingSymmetry90	Requires:	Slab
SGRID	Provides:	SGRID
	Requires:	SGRID
SIMDWaveToyX	Requires:	Loop
SampleBoundary		

SampleIO	
Requires:	IOUtil
ScalarBase	
ScalarEvolve	
ScalarInit	
Seed_Magnetic_Fields	
SetMask_SphericalSurface	
Requires:	LoopControl
ShiftedGaugeWave	
Requires:	GenericFD
Optional:	LoopControl
ShiftedKerrSchild	
Provides:	ShiftedKerrSchild
Requires:	Boundary CartGrid3D
Silo	
Provides:	Silo
Requires:	Silo HDF5
Optional:	MPI
Slab	
Provides:	Slab
Optional:	LoopControl MPI
SlabTest	
Socket	
Provides:	SOCKET
SpaceMask	
Provides:	SpaceMask
Requires:	CartGrid3D
SpacetimeWaveToyX	
Requires:	Loop
SphericalHarmonicDecomp	
Requires:	HDF5 GSL
SphericalHarmonicRecon	
Requires:	HDF5 FFTW3 MPI
SphericalHarmonicReconGen	
Requires:	HDF5
SphericalSurface	
StaggeredWaveToyX	
Requires:	Loop
StaticConformal	
SummationByParts	
Provides:	SummationByParts
SymBase	
SystemStatistics	
SystemTopology	
Requires:	hwloc MPI
TATelliptic	
Provides:	TATelliptic
TGRtensor	
Provides:	TGRtensor
Requires:	LAPACK
TOVSolver	
Requires:	Boundary CartGrid3D SpaceMask
TOVola	
Requires:	HDF5 GSL
TensorTypes	
Provides:	TensorTypes
TerminationTrigger	
TestArrayGroup	
Provides:	TestArrayGroup
Requires:	Loop
TestArrays	
TestBoundaries	
Optional:	MPI
TestBoxInBox	
Requires:	Loop
TestCarpetGridInfo	
Requires:	Carpet
TestComplex	
TestCoordinates	
TestDerivs	
Requires:	Loop Derivs
TestFortranCrayPointers	

Requires:	Fortran
TestFortranDependencies1	
Requires:	TestFortranDependencies
TestFortranDependencies2	
Provides:	TestFortranDependencies
TestFpointerNULL	
TestFreeF90	
TestGlobalReduce	
TestInclude1	
TestInclude2	
TestInterpolate	
TestLocalInterp2	
TestLocalReduce	
TestLoop	
TestLoopControl	
Requires:	LoopControl
TestMath	
TestMoL	
TestNorms	
Requires:	Loop
TestODESolvers	
TestODESolvers2	
Requires:	Loop
TestOutput	
Requires:	Loop
TestPar	
TestProlongate	
Requires:	CarpetX
TestReadWrite	
TestReduce	
TestSchedule	
TestStrings	
TestSymmetries	
Requires:	Arith CarpetX Loop
TestTable	
TestTimers	
TestTypes	
Time	
TimerInfo	
TimerReport	
Optional:	MPI
Timers	
Provides:	Timers
Requires:	CarpetLib
TmunuBase	
TmunuBaseX	
Requires:	Loop
Trigger	
TwoPunctures	
Requires:	GSL
TwoPunctures_BBHSF	
Requires:	GSL
TwoPunctures_KerrProca	
Requires:	GSL
Vaidya2	
Requires:	GenericFD
Optional:	LoopControl
Vectors	
Provides:	Vectors
Requires:	Vectors
VolumeIntegrals_GRMHD	
VolumeIntegrals_vacuum	
WatchDog	
Requires:	PTHREADS
WaveBinarySource	
WaveExtractL	
Requires:	Carpet
Requires thorns:	ADMDerivatives NaNChecker
WaveMoL	
Requires:	CartGrid3D
WaveToy1DF77	
Requires:	Boundary
WaveToy2DF77	

```

        Requires:          Boundary
WaveToyC
        Requires:          CartGrid3D
WaveToyCXX
        Requires:          CartGrid3D
WaveToyExtra
WaveToyF77
        Requires:          CartGrid3D
WaveToyF90
        Requires:          CartGrid3D
WaveToyFreeF90
        Requires:          CartGrid3D
WaveToyX
        Requires:          Loop
WeylScal4
        Requires:          GenericFD LoopControl Vectors
hwloc
        Provides:          hwloc
        Requires:          zlib hwloc
        Optional:          pciutils
libjpeg
        Provides:          libjpeg
openPMD
        Provides:          openPMD_api
        Requires:          openPMD_api
        Optional:          CMake HDF5 ADIOS2 MPI
particle_tracerET
pthreads
        Provides:          PTHREADS
        Requires:          PTHREADS
smallbPoynET
yaml_cpp
        Provides:          yaml_cpp
        Requires:          yaml_cpp
        Optional:          CMake
zlib
        Provides:          zlib
Parsing interface files...
ADIOS2
        Implements: ADIOS2
        0 Public, 0 Protected, 0 Private variable groups
ADMAAnalysis
        Implements: ADMAAnalysis
        Inherits:  ADMBase StaticConformal Grid ADMMacros
        7 Public, 0 Protected, 0 Private variable groups
ADMBase
        Implements: ADMBase
        Inherits:  grid
        10 Public, 0 Protected, 0 Private variable groups
ADMBaseX
        Implements: ADMBaseX
        10 Public, 0 Protected, 0 Private variable groups
ADMCoupling
        Implements: ADCoupling
        0 Public, 0 Protected, 0 Private variable groups
ADMDerivatives
        Implements: ADMDerivatives
        Inherits:  Coordinates ADMBase
        6 Public, 0 Protected, 0 Private variable groups
ADMMacros
        Implements: ADMMacros
        2 Public, 0 Protected, 0 Private variable groups
ADMMass
        Implements: ADMMass
        Inherits:  ADMBase ADMMacros StaticConformal SpaceMask
        0 Public, 0 Protected, 7 Private variable groups
AEILocalInterp
        Implements: AEILocalInterp
        0 Public, 0 Protected, 0 Private variable groups
AHFinder
        Implements: AHFinder
        Inherits:  ADMBase StaticConformal SpaceMask Grid IO ADMMacros
        7 Public, 0 Protected, 11 Private variable groups

```

AHFinderDirect
 Implements: AHFinderDirect
 Inherits: Grid ADMBase StaticConformal SpaceMask SphericalSurface IO
 0 Public, 0 Protected, 6 Private variable groups

AMReX
 Implements: AMReX
 0 Public, 0 Protected, 0 Private variable groups

Arith
 Implements: Arith
 0 Public, 0 Protected, 0 Private variable groups

BLAS
 Implements: BLAS
 0 Public, 0 Protected, 0 Private variable groups

Baikal
 Implements: Baikal
 Inherits: ADMBase Boundary Grid TmunuBase
 5 Public, 0 Protected, 0 Private variable groups

BaikalVacuum
 Implements: BaikalVacuum
 Inherits: ADMBase Boundary Grid
 5 Public, 0 Protected, 0 Private variable groups

Boundary
 Implements: boundary
 0 Public, 0 Protected, 0 Private variable groups

BoxInBox
 Implements: BoxInBox
 Inherits: CarpetXRegrid
 6 Public, 0 Protected, 0 Private variable groups

CT_Analytic
 Implements: CT_Analytic
 Inherits: Boundary GenericFD Grid
 41 Public, 0 Protected, 0 Private variable groups

CT_MultiLevel
 Implements: CT_MultiLevel
 Inherits: Boundary Grid
 0 Public, 0 Protected, 10 Private variable groups

Cactus
 Implements: Cactus
 0 Public, 0 Protected, 0 Private variable groups

CalcK
 Implements: CalcK
 Inherits: ADMBase StaticConformal
 0 Public, 0 Protected, 4 Private variable groups

Carpet
 Implements: Driver
 0 Public, 0 Protected, 7 Private variable groups

CarpetEvolutionMask
 Implements: CarpetEvolutionMask
 3 Public, 0 Protected, 0 Private variable groups

CarpetIOASCII
 Implements: IOASCII
 0 Public, 0 Protected, 4 Private variable groups

CarpetIOBasic
 Implements: IOBasic
 Inherits: IO
 0 Public, 0 Protected, 4 Private variable groups

CarpetIOHDF5
 Implements: IOHDF5
 0 Public, 0 Protected, 7 Private variable groups

CarpetIOScalar
 Implements: IOScalar
 0 Public, 0 Protected, 4 Private variable groups

CarpetIntegrateTest
 Implements: CarpetIntegrateTest
 Inherits: Reduce Grid Driver
 0 Public, 0 Protected, 2 Private variable groups

CarpetInterp
 Implements: interp
 0 Public, 0 Protected, 0 Private variable groups

CarpetInterp2
 Implements: interp2
 0 Public, 0 Protected, 0 Private variable groups

CarpetLib

Implements: CarpetLib
 0 Public, 0 Protected, 0 Private variable groups
 CarpetMask
 Implements: CarpetMask
 Inherits: grid SphericalSurface
 0 Public, 0 Protected, 0 Private variable groups
 CarpetProlongateTest
 Implements: CarpetProlongateTest
 Inherits: grid
 0 Public, 0 Protected, 7 Private variable groups
 CarpetReduce
 Implements: reduce
 0 Public, 0 Protected, 5 Private variable groups
 CarpetRegrid
 Implements: CarpetRegrid
 0 Public, 0 Protected, 0 Private variable groups
 CarpetRegrid2
 Implements: CarpetRegrid2
 7 Public, 0 Protected, 7 Private variable groups
 CarpetRegridTest
 Implements: CarpetRegridTest
 Inherits: grid
 0 Public, 0 Protected, 2 Private variable groups
 CarpetSlab
 Implements: Hyperslab
 0 Public, 0 Protected, 0 Private variable groups
 CarpetTracker
 Implements: CarpetTracker
 Inherits: SphericalSurface CarpetRegrid2
 0 Public, 0 Protected, 0 Private variable groups
 CarpetX
 Implements: Driver
 0 Public, 0 Protected, 0 Private variable groups
 CarpetXRegrid
 Implements: CarpetXRegrid
 2 Public, 0 Protected, 0 Private variable groups
 CartGrid3D
 Implements: grid
 Inherits: coordbase
 3 Public, 0 Protected, 0 Private variable groups
 Cartoon2D
 Implements: cartoon2d
 0 Public, 0 Protected, 2 Private variable groups
 Constants
 Implements: Constants
 0 Public, 0 Protected, 0 Private variable groups
 Convert_to_HydroBase
 Implements: Convert_to_HydroBase
 0 Public, 0 Protected, 0 Private variable groups
 CoordBase
 Implements: CoordBase
 0 Public, 0 Protected, 0 Private variable groups
 CoordGauge
 Implements: CoordGauge
 2 Public, 0 Protected, 0 Private variable groups
 Coordinates
 Implements: Coordinates
 Inherits: grid
 11 Public, 0 Protected, 0 Private variable groups
 CoordinatesSymmetry
 Implements: CoordinatesSymmetry
 0 Public, 0 Protected, 0 Private variable groups
 CoordinatesX
 Implements: CoordinatesX
 4 Public, 0 Protected, 0 Private variable groups
 CycleClock
 Implements: CycleClock
 0 Public, 0 Protected, 0 Private variable groups
 DNSdata
 Implements: DNSdata
 Inherits: grid SummationByParts ADMBase HydroBase
 0 Public, 0 Protected, 0 Private variable groups
 DemoInterp

```
    Implements: DemoInterp
    0 Public, 0 Protected, 10 Private variable groups
Derivs
    Implements: Derivs
    0 Public, 0 Protected, 0 Private variable groups
Dissipation
    Implements: Dissipation
    Inherits: grid SphericalSurface SpaceMask
    0 Public, 0 Protected, 2 Private variable groups
DistortedBHIVP
    Implements: distortedbhivp
    Inherits: ADMBase grid StaticConformal
    0 Public, 0 Protected, 3 Private variable groups
EHFinder
```

```

    Implements: ehfinder
    Inherits: grid admbase coordgauge staticconformal spacemask boundary
    0 Public, 0 Protected, 55 Private variable groups
EOS_Base
    Implements: EOS_Base
    0 Public, 0 Protected, 0 Private variable groups
EOS_Hybrid
    Implements: EOS_Hybrid
    Inherits: HydroBase EOS_2d_Polytrope
    0 Public, 0 Protected, 2 Private variable groups
EOS_IdealFluid
    Implements: EOS_Ideal_Fluid
    Inherits: EOS_Base
    0 Public, 0 Protected, 0 Private variable groups
EOS_Omni
    Implements: EOS_Omni
    0 Public, 0 Protected, 0 Private variable groups
EOS_Polytrope
    Implements: EOS_2d_Polytrope
    Inherits: EOS_Base
    0 Public, 0 Protected, 0 Private variable groups
EinsteinExact_Test
    Implements: EinsteinExact_Test
    0 Public, 0 Protected, 0 Private variable groups
EllBase
    Implements: ellbase
    0 Public, 0 Protected, 0 Private variable groups
ELLSOR
    Implements: ellsor
    Inherits: ellbase boundary
    0 Public, 0 Protected, 0 Private variable groups
ErrorEstimator
    Implements: ErrorEstimator
    Inherits: CarpetXRegrid
    0 Public, 0 Protected, 0 Private variable groups
Exact
    Implements: exact
    Inherits: admbase grid coordgauge staticconformal
    0 Public, 3 Protected, 4 Private variable groups
Extract
    Implements: extract
    Inherits: grid ADMBase staticconformal io
    0 Public, 0 Protected, 2 Private variable groups
FFTW3
    Implements: FFTW3
    0 Public, 0 Protected, 0 Private variable groups
FLRWSolver
    Implements: FLRWSolver
    Inherits: HydroBase EOS_Omni ADMBase Constants StaticConformal CoordBase
    0 Public, 0 Protected, 0 Private variable groups
FishboneMoncriefID
    Implements: FishboneMoncriefID
    Inherits: admbase grid hydrobase
    0 Public, 0 Protected, 0 Private variable groups
FleshInfo
    Implements: FleshInfo
    0 Public, 0 Protected, 0 Private variable groups
FluxWaveToyX
    Implements: FluxWaveToyX
    0 Public, 0 Protected, 9 Private variable groups
Formaline
    Implements: Formaline
    0 Public, 0 Protected, 0 Private variable groups
Fortran
    Implements: Fortran
    0 Public, 0 Protected, 0 Private variable groups
GRHayLHD
    Implements: GRHayLHD
    Inherits: ADMBase Tmunubase HydroBase GRHayLib
    0 Public, 0 Protected, 13 Private variable groups
GRHayLHDX
    Implements: GRHayLHDX

```



```

    Inherits:  ADMBaseX TmunubaseX HydroBaseX GRHayLib
              0 Public, 0 Protected, 22 Private variable groups
GRHayLID
    Implements: GRHayLID
    Inherits:  GRHayLib Grid HydroBase
              0 Public, 0 Protected, 0 Private variable groups
GRHayLIDX
    Implements: GRHayLIDX
    Inherits:  GRHayLib HydroBaseX
              0 Public, 0 Protected, 0 Private variable groups
GRHayLib
    Implements: GRHayLib
              0 Public, 0 Protected, 0 Private variable groups
GRHydro
    Implements: GRHydro
    Inherits:  ADMBase Boundary SpaceMask Tmunubase HydroBase
              53 Public, 0 Protected, 39 Private variable groups
GRHydro_InitData
    Implements: GRHydro_init_data
    Inherits:  GRHydro grid EOS_Omni
              0 Public, 4 Protected, 2 Private variable groups
GSL
    Implements: GSL
              0 Public, 0 Protected, 0 Private variable groups
GaugeWave
    Implements: GaugeWave
    Inherits:  admbase Boundary GenericFD Grid
              7 Public, 0 Protected, 0 Private variable groups
GenericFD
    Implements: GenericFD
              0 Public, 0 Protected, 3 Private variable groups
GiRaFFE
    Implements: GiRaFFE
    Inherits:  ADMBase Boundary SpaceMask Tmunubase HydroBase grid
              9 Public, 0 Protected, 11 Private variable groups
GiRaFFE_to_HydroBase
    Implements: GiRaFFE_to_HydroBase
    Inherits:  grid HydroBase ADMBase GiRaFFE
              0 Public, 0 Protected, 0 Private variable groups
GiRaFFEfood
    Implements: GiRaFFEFood
    Inherits:  HydroBase ADMBase Boundary SpaceMask grid GiRaFFE ShiftedKerrSchild
              0 Public, 7 Protected, 0 Private variable groups
GlobalDerivative
    Implements: GlobalDerivative
    Inherits:  grid SummationByParts Coordinates
              0 Public, 0 Protected, 0 Private variable groups
HDF5
    Implements: HDF5
              0 Public, 0 Protected, 0 Private variable groups
HTTPD
    Implements: HTTPD
    Inherits:  Socket
              0 Public, 0 Protected, 0 Private variable groups
HTTPDExtra
    Implements: http_utils
              0 Public, 0 Protected, 0 Private variable groups
HelloWorld
    Implements: helloworld
              0 Public, 0 Protected, 0 Private variable groups
HighOrderWaveTest
    Implements: HighOrderWaveTest
              0 Public, 0 Protected, 0 Private variable groups
HydroBase
    Implements: HydroBase
    Inherits:  InitBase
              14 Public, 0 Protected, 0 Private variable groups
HydroBaseX
    Implements: HydroBaseX
              12 Public, 0 Protected, 0 Private variable groups
Hydro_Analysis
    Implements: Hydro_Analysis
    Inherits:  Grid HydroBase ADMBase

```

10 Public, 0 Protected, 6 Private variable groups
 Hydro_InitExcision
 Implements: Hydro_InitExcision
 Inherits: HydroBase Grid SpaceMask
 0 Public, 0 Protected, 0 Private variable groups
 Hydro_RNSID
 Implements: hydro_rnsid
 Inherits: ADMBase HydroBase
 0 Public, 0 Protected, 0 Private variable groups
 IDAnalyticBH
 Implements: idanalyticbh
 Inherits: ADMBase StaticConformal Grid
 0 Public, 0 Protected, 0 Private variable groups
 IDAxiBrillBH
 Implements: idaxibrillbh
 Inherits: ADMBase grid StaticConformal
 0 Public, 0 Protected, 0 Private variable groups
 IDAxiOddBrillBH
 Implements: axiodd
 Inherits: ADMBase grid StaticConformal
 0 Public, 0 Protected, 3 Private variable groups
 IDBrillData
 Implements: IDBrillData
 Inherits: grid ADMBase StaticConformal ellbase
 0 Public, 0 Protected, 3 Private variable groups
 IDConstraintViolate
 Implements: idconstraintviolate
 Inherits: admbase grid
 0 Public, 0 Protected, 0 Private variable groups
 IDFileADM
 Implements: IDFileADM
 Inherits: ADMBase StaticConformal IO
 0 Public, 0 Protected, 0 Private variable groups
 IDLinearWaves
 Implements: idlinearwaves
 Inherits: ADMBase StaticConformal Grid
 0 Public, 0 Protected, 0 Private variable groups
 IDScalarWave
 Implements: idscalarwave
 Inherits: wavetoy grid
 0 Public, 0 Protected, 0 Private variable groups
 IDScalarWaveC
 Implements: idscalarwave
 Inherits: wavetoy grid
 0 Public, 0 Protected, 0 Private variable groups
 IDScalarWaveCXX
 Implements: idscalarwave
 Inherits: wavetoy grid
 0 Public, 0 Protected, 0 Private variable groups
 IDScalarWaveElliptic
 Implements: IDScalarWaveElliptic
 Inherits: Grid WaveToy EllBase IDScalarWave
 0 Public, 0 Protected, 3 Private variable groups
 IDWaveMoL
 Implements: idwavemol
 Inherits: wavemol grid
 0 Public, 0 Protected, 0 Private variable groups
 ID_converter_GiRaFFE
 Implements: ID_converter_GiRaFFE
 Inherits: ADMBase Boundary SpaceMask Tmunubase HydroBase grid GiRaFFE
 0 Public, 0 Protected, 0 Private variable groups
 ID_converter_ILGRMHD
 Implements: ID_converter_ILGRMHD
 0 Public, 0 Protected, 0 Private variable groups
 IOASCII
 Implements: IOASCII
 0 Public, 0 Protected, 0 Private variable groups
 IOBasic
 Implements: IOBasic
 Inherits: IO
 0 Public, 0 Protected, 3 Private variable groups
 IOHDF5
 Implements: IOHDF5

0 Public, 0 Protected, 0 Private variable groups
IOHDF5Util
Implements: IOHDF5Util
Inherits: IO
0 Public, 0 Protected, 0 Private variable groups
IOJpeg
Implements: IOJpeg
Inherits: IO
0 Public, 0 Protected, 0 Private variable groups
IOUtil
Implements: IO
0 Public, 0 Protected, 0 Private variable groups
IllinoisGRMHD
Implements: IllinoisGRMHD
Inherits: ADMBase Tmunubase HydroBase GRHayLib
0 Public, 0 Protected, 25 Private variable groups
InitBase
Implements: InitBase
0 Public, 0 Protected, 0 Private variable groups
InterpToArray
Implements: InterpToArray
8 Public, 0 Protected, 0 Private variable groups
Interpolate2

```

        Implements: Interpolate
        Inherits: Coordinates grid
        2 Public, 0 Protected, 2 Private variable groups
KerrSchild
        Implements: KerrSchild
        Inherits: admbase Boundary GenericFD Grid
        7 Public, 0 Protected, 0 Private variable groups
LAPACK
        Implements: LAPACK
        0 Public, 0 Protected, 0 Private variable groups
LORENE
        Implements: LORENE
        0 Public, 0 Protected, 0 Private variable groups
LeanBSSNMol
        Implements: LeanBSSNMol
        Inherits: ADMBase TmunuBase Boundary CoordGauge
        15 Public, 0 Protected, 0 Private variable groups
LlamaWaveToy
        Implements: LlamaWaveToy
        Inherits: grid Coordinates GlobalDerivative SummationByParts Interpolate
        0 Public, 0 Protected, 23 Private variable groups
LocalInterp
        Implements: LocalInterp
        0 Public, 0 Protected, 0 Private variable groups
LocalInterp2
        Implements: LocalInterp
        0 Public, 0 Protected, 0 Private variable groups
LocalReduce
        Implements: LocalReduce
        0 Public, 0 Protected, 0 Private variable groups
Loop
        Implements: Loop
        0 Public, 0 Protected, 0 Private variable groups
LoopControl
        Implements: LoopControl
        Inherits: CycleClock
        0 Public, 0 Protected, 0 Private variable groups
ML_ADMConstraints
        Implements: ML_ADMConstraints
        Inherits: ADMBase Boundary GenericFD Grid TmunuBase
        3 Public, 0 Protected, 0 Private variable groups
ML_ADMQuantities
        Implements: ML_ADMQuantities
        Inherits: ADMBase Boundary GenericFD Grid ML_BSSN TmunuBase
        3 Public, 0 Protected, 0 Private variable groups
ML_BSSN
        Implements: ML_BSSN
        Inherits: ADMBase Boundary GenericFD Grid TmunuBase
        24 Public, 0 Protected, 0 Private variable groups
ML_BSSN_Helper
        Implements: ML_BSSN_Helper
        Inherits: ADMBase CoordGauge ML_BSSN
        0 Public, 0 Protected, 0 Private variable groups
ML_BSSN_Test
        Implements: ML_BSSN_Test
        0 Public, 0 Protected, 0 Private variable groups
ML_CCZ4
        Implements: ML_CCZ4
        Inherits: ADMBase Boundary GenericFD Grid TmunuBase
        26 Public, 0 Protected, 0 Private variable groups
ML_CCZ4_Helper
        Implements: ML_CCZ4_Helper
        Inherits: ADMBase CoordGauge ML_CCZ4
        0 Public, 0 Protected, 0 Private variable groups
ML_CCZ4_Test
        Implements: ML_BSSN_Test
        0 Public, 0 Protected, 0 Private variable groups
ML_WaveToy
        Implements: ML_WaveToy
        Inherits: Boundary GenericFD Grid
        6 Public, 0 Protected, 0 Private variable groups
ML_WaveToy_Test

```

Implements: ML_WaveToy_Test
 0 Public, 0 Protected, 0 Private variable groups

MPI
 Implements: MPI
 0 Public, 0 Protected, 0 Private variable groups

MemSpeed
 Implements: MemSpeed
 0 Public, 0 Protected, 0 Private variable groups

Meudon_Bin_BH
 Implements: ID_Bin_BH
 Inherits: grid SummationByParts ADMBase
 0 Public, 0 Protected, 0 Private variable groups

Meudon_Bin_NS
 Implements: Meudon_Bin_NS
 Inherits: grid SummationByParts ADMBase HydroBase
 2 Public, 0 Protected, 0 Private variable groups

Meudon_Mag_NS
 Implements: ID_Mag_NS
 Inherits: grid ADMBase HydroBase
 0 Public, 0 Protected, 0 Private variable groups

Minkowski
 Implements: Minkowski
 Inherits: admbase Boundary GenericFD Grid
 7 Public, 0 Protected, 0 Private variable groups

MoL
 Implements: MethodOfLines
 0 Public, 0 Protected, 10 Private variable groups

ModifiedSchwarzschildBL
 Implements: ModifiedSchwarzschildBL
 Inherits: admbase Boundary GenericFD Grid
 7 Public, 0 Protected, 0 Private variable groups

Multipole
 Implements: multipole
 Inherits: Grid
 6 Public, 0 Protected, 0 Private variable groups

NPScalars
 Implements: NPScalars
 Inherits: ADMBase
 0 Public, 0 Protected, 3 Private variable groups

NPScalars_Proca
 Implements: NPScalars_Proca
 Inherits: ADMBase ProcaBase
 0 Public, 0 Protected, 9 Private variable groups

NRPyEllipticET
 Implements: NRPyEllipticET
 Inherits: ADMBase Grid
 0 Public, 0 Protected, 2 Private variable groups

NSIMD
 Implements: NSIMD
 0 Public, 0 Protected, 0 Private variable groups

NaN Catcher
 Implements: NaN Catcher
 0 Public, 0 Protected, 0 Private variable groups

NaN Checker
 Implements: NaN Checker
 Inherits: Reduce
 0 Public, 0 Protected, 4 Private variable groups

NewRad
 Implements: NewRad
 0 Public, 0 Protected, 0 Private variable groups

NewRadX
 Implements: NewRadX
 0 Public, 0 Protected, 0 Private variable groups

Nice
 Implements: nice
 0 Public, 0 Protected, 0 Private variable groups

NoExcision
 Implements: NoExcision
 Inherits: ADMBase StaticConformal grid SphericalSurface Boundary
 0 Public, 0 Protected, 17 Private variable groups

NoMPI
 Implements: NoMPI
 0 Public, 0 Protected, 0 Private variable groups

Noise
 Implements: Noise
 Inherits: grid
 0 Public, 0 Protected, 0 Private variable groups

Norms
 Implements: Norms
 0 Public, 0 Protected, 7 Private variable groups

NullConstr
 Implements: NullConstr
 Inherits: NullGrid NullVars NullInterp
 10 Public, 0 Protected, 0 Private variable groups

NullDecomp
 Implements: NullDecomp
 Inherits: NullGrid
 0 Public, 0 Protected, 3 Private variable groups

NullEvolve
 Implements: NullEvolve
 Inherits: NullInterp NullGrid NullVars Time
 Friend of: NullSHRExtract
 0 Public, 0 Protected, 8 Private variable groups

NullExact
 Implements: NullExact
 Inherits: NullVars NullGrid NullNews NullConstr NullInterp NullEvolve
 Friend of: NullSHRExtract
 0 Public, 0 Protected, 38 Private variable groups

NullGrid
 Implements: NullGrid
 11 Public, 0 Protected, 0 Private variable groups

NullInterp
 Implements: NullInterp
 Inherits: NullGrid
 5 Public, 0 Protected, 2 Private variable groups

NullNews
 Implements: NullNews
 Inherits: NullGrid NullVars NullInterp
 19 Public, 0 Protected, 8 Private variable groups

NullPsiInt
 Implements: NullPsiInt
 Inherits: NullVars NullGrid NullNews NullInterp NullEvolve
 4 Public, 0 Protected, 5 Private variable groups

NullSHRExtract
 Implements: NullSHRExtract
 Inherits: NullInterp NullGrid NullVars
 9 Public, 21 Protected, 28 Private variable groups

NullVars
 Implements: NullVars
 5 Public, 0 Protected, 0 Private variable groups

ODESolvers
 Implements: ODEsolvers
 0 Public, 0 Protected, 0 Private variable groups

OpenSSL
 Implements: OpenSSL
 0 Public, 0 Protected, 0 Private variable groups

Outflow
 Implements: outflow
 Inherits: ADMBase HydroBase SphericalSurface
 0 Public, 0 Protected, 6 Private variable groups

PUGH
 Implements: Driver
 0 Public, 0 Protected, 0 Private variable groups

PUGHInterp
 Implements: Interp
 0 Public, 0 Protected, 0 Private variable groups

PUGHReduce
 Implements: Reduce
 0 Public, 0 Protected, 0 Private variable groups

PUGHSlab
 Implements: Hyperslab
 0 Public, 0 Protected, 0 Private variable groups

Periodic
 Implements: Periodic
 0 Public, 0 Protected, 0 Private variable groups

PeriodicCarpet

Implements: PeriodicCarpet
 Inherits: grid
 0 Public, 0 Protected, 0 Private variable groups

Poisson
 Implements: Poisson
 Inherits: boundary grid
 0 Public, 0 Protected, 3 Private variable groups

ProcaBase
 Implements: ProcaBase
 5 Public, 0 Protected, 0 Private variable groups

ProcaEvolve
 Implements: ProcaEvolve
 Inherits: ADMBase Tmunubase ProcaBase Boundary
 0 Public, 0 Protected, 8 Private variable groups

Proca_simpleID
 Implements: Proca_simpleID
 Inherits: ADMBase grid ProcaBase
 0 Public, 0 Protected, 0 Private variable groups

PunctureTracker
 Implements: PunctureTracker
 Inherits: ADMBase CarpetRegrid2 SphericalSurface
 0 Public, 0 Protected, 4 Private variable groups

QuasiLocalMeasures
 Implements: QuasiLocalMeasures
 Inherits: ADMBase SphericalSurface TmunuBase
 0 Public, 0 Protected, 24 Private variable groups

ReadInterpolate
 Implements: ReadInterpolate
 Inherits: grid
 0 Public, 0 Protected, 6 Private variable groups

ReductionTest
 Implements: ReductionTest
 Inherits: GRHydro grid
 0 Public, 0 Protected, 3 Private variable groups

ReductionTest2
 Implements: ReductionTest2
 0 Public, 0 Protected, 2 Private variable groups

ReductionTest3
 Implements: ReductionTest3
 Inherits: grid
 0 Public, 0 Protected, 4 Private variable groups

ReflectionSymmetry
 Implements: ReflectionSymmetry
 0 Public, 0 Protected, 0 Private variable groups

RegridSyncTest
 Implements: RegridSyncTest
 0 Public, 0 Protected, 2 Private variable groups

RotatingDBHIVP
 Implements: rotatingdbhivp
 Inherits: ADMBase grid StaticConformal
 0 Public, 0 Protected, 3 Private variable groups

RotatingSymmetry180
 Implements: RotatingSymmetry180
 0 Public, 0 Protected, 0 Private variable groups

RotatingSymmetry90
 Implements: RotatingSymmetry90
 0 Public, 0 Protected, 0 Private variable groups

SGRID
 Implements: SGRID
 0 Public, 0 Protected, 0 Private variable groups

SIMDWaveToyX
 Implements: SIMDWaveToyX
 0 Public, 0 Protected, 5 Private variable groups

SampleBoundary
 Implements: LinExtrapBnd
 0 Public, 0 Protected, 0 Private variable groups

SampleIO
 Implements: SampleIO
 Inherits: IO
 0 Public, 0 Protected, 0 Private variable groups

ScalarBase
 Implements: ScalarBase
 Inherits: Grid

4 Public, 0 Protected, 0 Private variable groups
 ScalarEvolve
 Implements: ScalarEvolve
 Inherits: ADMBase Tmunubase ScalarBase Boundary SphericalSurface
 0 Public, 0 Protected, 7 Private variable groups
 ScalarInit
 Implements: ScalarInit
 Inherits: ScalarBase grid
 0 Public, 0 Protected, 0 Private variable groups
 Seed_Magnetic_Fields
 Implements: seed_magnetic_fields
 Inherits: grid ADMBase HydroBase
 0 Public, 0 Protected, 0 Private variable groups
 SetMask_SphericalSurface
 Implements: SetMask_SphericalSurface
 Inherits: HydroBase SphericalSurface
 0 Public, 0 Protected, 0 Private variable groups
 ShiftedGaugeWave
 Implements: ShiftedGaugeWave
 Inherits: admbase Boundary GenericFD Grid
 7 Public, 0 Protected, 0 Private variable groups
 ShiftedKerrSchild
 Implements: ShiftedKerrSchild
 Inherits: ADMBase Boundary grid
 2 Public, 0 Protected, 0 Private variable groups
 Silo
 Implements: Silo
 0 Public, 0 Protected, 0 Private variable groups
 Slab
 Implements: Slab
 0 Public, 0 Protected, 0 Private variable groups
 SlabTest
 Implements: SlabTest
 Inherits: Slab
 0 Public, 0 Protected, 7 Private variable groups
 Socket
 Implements: Socket
 0 Public, 0 Protected, 0 Private variable groups
 SpaceMask
 Implements: SpaceMask
 Inherits: grid
 3 Public, 0 Protected, 0 Private variable groups
 SpacetimeWaveToyX
 Implements: SpacetimeWaveToyX
 0 Public, 0 Protected, 15 Private variable groups
 SphericalHarmonicDecomp
 Implements: SphericalHarmonicDecomp
 0 Public, 0 Protected, 0 Private variable groups
 SphericalHarmonicRecon
 Implements: SphericalHarmonicRecon
 0 Public, 0 Protected, 0 Private variable groups
 SphericalHarmonicReconGen

Implements: SphericalHarmonicReconGen
 0 Public, 0 Protected, 0 Private variable groups
 SphericalSurface
 Implements: SphericalSurface
 Inherits: grid
 10 Public, 0 Protected, 2 Private variable groups
 StaggeredWaveToyX
 Implements: StaggeredWaveToyX
 0 Public, 0 Protected, 17 Private variable groups
 StaticConformal
 Implements: StaticConformal
 Inherits: grid
 5 Public, 0 Protected, 0 Private variable groups
 SummationByParts
 Implements: SummationByParts
 3 Public, 0 Protected, 0 Private variable groups
 SymBase
 Implements: SymBase
 0 Public, 0 Protected, 0 Private variable groups
 SystemStatistics
 Implements: SystemStatistics
 0 Public, 0 Protected, 4 Private variable groups
 SystemTopology
 Implements: SystemTopology
 0 Public, 0 Protected, 0 Private variable groups
 TATelliptic
 Implements: TATelliptic
 0 Public, 0 Protected, 0 Private variable groups
 TGRtensor
 Implements: TGRtensor
 0 Public, 0 Protected, 0 Private variable groups
 TOVSolver
 Implements: TOVSolver
 Inherits: ADMBase HydroBase Constants StaticConformal
 0 Public, 0 Protected, 0 Private variable groups
 TOVola
 Implements: TOVola
 Inherits: GRHayLib ADMBase HydroBase Grid
 0 Public, 0 Protected, 0 Private variable groups
 TensorTypes
 Implements: TensorTypes
 0 Public, 0 Protected, 0 Private variable groups
 TerminationTrigger
 Implements: TerminationTrigger
 0 Public, 0 Protected, 3 Private variable groups
 TestArrayGroup
 Implements: TestArrayGroup
 0 Public, 0 Protected, 4 Private variable groups
 TestArrays
 Implements: Arrays
 0 Public, 0 Protected, 36 Private variable groups
 TestBoundaries
 Implements: TestBoundaries
 0 Public, 0 Protected, 0 Private variable groups
 TestBoxInBox
 Implements: TestBoxInBox
 Inherits: BoxInBox
 0 Public, 0 Protected, 0 Private variable groups
 TestCarpetGridInfo
 Implements: TestCarpetGridInfo
 0 Public, 0 Protected, 0 Private variable groups
 TestComplex
 Implements: testcomplex
 0 Public, 0 Protected, 7 Private variable groups
 TestCoordinates
 Implements: testgrid
 0 Public, 0 Protected, 3 Private variable groups
 TestDerivs
 Implements: TestDerivs
 Inherits: CarpetXRegrid
 0 Public, 0 Protected, 4 Private variable groups
 TestFortranCrayPointers

Implements: TestFortranCrayPointers
0 Public, 0 Protected, 4 Private variable groups

TestFortranDependencies1
Implements: TestFortranDependencies1
0 Public, 0 Protected, 0 Private variable groups

TestFortranDependencies2
Implements: TestFortranDependencies2
0 Public, 0 Protected, 0 Private variable groups

TestFpointerNULL
Implements: TestFpointerNULL
0 Public, 0 Protected, 3 Private variable groups

TestFreeF90
Implements: TestFreeF90
0 Public, 0 Protected, 0 Private variable groups

TestGlobalReduce
Implements: testglobalreduce
Inherits: grid
11 Public, 0 Protected, 0 Private variable groups

TestInclude1
Implements: include1
0 Public, 0 Protected, 0 Private variable groups

TestInclude2
Implements: include2
0 Public, 0 Protected, 0 Private variable groups

TestInterpolate
Implements: TestInterpolate
Inherits: CoordinatesX
0 Public, 0 Protected, 4 Private variable groups

TestLocalInterp2
Implements: TestLocalInterp2
Inherits: Grid
0 Public, 0 Protected, 4 Private variable groups

TestLocalReduce
Implements: TestLocalReduce
3 Public, 0 Protected, 0 Private variable groups

TestLoop
Implements: TestLoop
Inherits: grid
0 Public, 0 Protected, 4 Private variable groups

TestLoopControl
Implements: TestLoopControl
Inherits: grid
0 Public, 0 Protected, 4 Private variable groups

TestMath
Implements: TestMath
0 Public, 0 Protected, 0 Private variable groups

TestMoL
Implements: TestMoL
Inherits: MethodOfLines
0 Public, 0 Protected, 17 Private variable groups

TestNorms
Implements: TestNorms
Inherits: Driver CarpetXRegrid
0 Public, 0 Protected, 9 Private variable groups

TestODESolvers
Implements: TestODESolvers
0 Public, 0 Protected, 8 Private variable groups

TestODESolvers2
Implements: TestODESolvers2
0 Public, 0 Protected, 5 Private variable groups

TestOutput
Implements: TestOutput
0 Public, 0 Protected, 6 Private variable groups

TestPar
Implements: TestPar
0 Public, 0 Protected, 0 Private variable groups

TestProlongate
Implements: TestProlongate
Inherits: CarpetXRegrid
0 Public, 0 Protected, 41 Private variable groups

TestReadWrite
Implements: TestReadWriteImp
Inherits: grid

5 Public, 6 Protected, 3 Private variable groups
 TestReduce
 Implements: testreduce
 0 Public, 0 Protected, 9 Private variable groups
 TestSchedule
 Implements: TestSchedule
 0 Public, 0 Protected, 0 Private variable groups
 TestStrings
 Implements: teststrings
 0 Public, 0 Protected, 0 Private variable groups
 TestSymmetries
 Implements: TestSymmetries
 0 Public, 0 Protected, 17 Private variable groups
 TestTable
 Implements: TestTable
 0 Public, 0 Protected, 0 Private variable groups
 TestTimers
 Implements: testtimers
 0 Public, 0 Protected, 0 Private variable groups
 TestTypes
 Implements: TestTypes
 0 Public, 0 Protected, 12 Private variable groups
 Time
 Implements: time
 2 Public, 0 Protected, 2 Private variable groups
 TimerInfo
 Implements: timerinfo
 0 Public, 0 Protected, 0 Private variable groups
 TimerReport
 Implements: timerreport
 0 Public, 0 Protected, 0 Private variable groups
 Timers
 Implements: Timers
 0 Public, 0 Protected, 0 Private variable groups
 TmunuBase
 Implements: TmunuBase
 Inherits: ADMBase StaticConformal
 5 Public, 0 Protected, 0 Private variable groups
 TmunuBaseX
 Implements: TmunuBaseX
 4 Public, 0 Protected, 0 Private variable groups
 Trigger
 Implements: trigger
 Inherits: IO
 0 Public, 0 Protected, 2 Private variable groups
 TwoPunctures
 Implements: TwoPunctures
 Inherits: ADMBase StaticConformal grid
 3 Public, 0 Protected, 4 Private variable groups
 TwoPunctures_BBHSF
 Implements: TwoPunctures_BBHSF
 Inherits: ADMBase StaticConformal grid ScalarBase
 3 Public, 0 Protected, 4 Private variable groups
 TwoPunctures_KerrProca
 Implements: TwoPunctures_KerrProca
 Inherits: ADMBase StaticConformal grid ProcaBase
 3 Public, 0 Protected, 4 Private variable groups
 Vaidya2
 Implements: Vaidya2
 Inherits: admbase Boundary GenericFD Grid
 7 Public, 0 Protected, 0 Private variable groups
 Vectors
 Implements: Vectors
 0 Public, 0 Protected, 2 Private variable groups
 VolumeIntegrals_GRMHD
 Implements: VolumeIntegrals_GRMHD
 Inherits: grid ADMBase CarpetRegrid2 HydroBase ADMBase
 0 Public, 0 Protected, 6 Private variable groups
 VolumeIntegrals_vacuum
 Implements: VolumeIntegrals_vacuum
 Inherits: grid ADMBase CarpetRegrid2
 3 Public, 0 Protected, 4 Private variable groups
 WatchDog

```

        Implements: WatchDog
        0 Public, 0 Protected, 0 Private variable groups
WaveBinarySource
    Implements: binarysource
    Inherits: wavetoy grid
    0 Public, 0 Protected, 0 Private variable groups
WaveExtractL
    Implements: WaveExtractL
    Inherits: grid admbase staticconformal io sphericalsurface
    0 Public, 0 Protected, 17 Private variable groups
WaveMoL
    Implements: wavemol
    6 Public, 0 Protected, 0 Private variable groups
WaveToy1DF77
    Implements: wavetoy1d
    Inherits: boundary
    0 Public, 0 Protected, 5 Private variable groups
WaveToy2DF77
    Implements: wavetoy2d
    Inherits: boundary
    0 Public, 0 Protected, 5 Private variable groups
WaveToyC
    Implements: wavetoy
    Inherits: grid
    2 Public, 0 Protected, 0 Private variable groups
WaveToyCXX
    Implements: wavetoy
    Inherits: grid
    2 Public, 0 Protected, 0 Private variable groups
WaveToyExtra
    Implements: wavetoyextra
    Inherits: wavetoy
    0 Public, 0 Protected, 0 Private variable groups
WaveToyF77
    Implements: wavetoy
    Inherits: grid
    2 Public, 0 Protected, 0 Private variable groups
WaveToyF90
    Implements: wavetoy
    Inherits: grid
    2 Public, 0 Protected, 0 Private variable groups
WaveToyFreeF90
    Implements: wavetoy
    Inherits: grid
    2 Public, 0 Protected, 0 Private variable groups
WaveToyX
    Implements: WaveToyX
    0 Public, 0 Protected, 5 Private variable groups
WeylScal4
    Implements: WeylScal4
    Inherits: admbase Boundary GenericFD Grid methodoflines
    19 Public, 0 Protected, 0 Private variable groups
hwloc
    Implements: hwloc
    0 Public, 0 Protected, 0 Private variable groups
libjpeg
    Implements: libjpeg
    0 Public, 0 Protected, 0 Private variable groups
openPMD
    Implements: openPMD
    0 Public, 0 Protected, 0 Private variable groups
particle_tracerET
    Implements: particle_tracerET
    Inherits: grid HydroBase ADMBase
    0 Public, 0 Protected, 12 Private variable groups
pthreads
    Implements: PTHREADS
    0 Public, 0 Protected, 0 Private variable groups
smallbPoynET
    Implements: smallbPoynET
    Inherits: grid HydroBase ADMBase
    0 Public, 0 Protected, 2 Private variable groups
yaml_cpp

```

Implements: yaml_cpp
0 Public, 0 Protected, 0 Private variable groups

zlib

Implements: zlib
0 Public, 0 Protected, 0 Private variable groups

Parsing parameter files...

ADIOS2
0 Global, 0 Restricted, 0 Private parameters

ADMAAnalysis
Shares: ADMBASE
0 Global, 0 Restricted, 4 Private parameters

ADMBase
0 Global, 18 Restricted, 0 Private parameters

ADMBaseX
0 Global, 5 Restricted, 3 Private parameters

ADMCoupling
0 Global, 0 Restricted, 0 Private parameters

ADMDerivatives
0 Global, 0 Restricted, 6 Private parameters

ADMMacros
0 Global, 1 Restricted, 0 Private parameters

ADMMass
0 Global, 0 Restricted, 17 Private parameters

AEILocalInterp
0 Global, 0 Restricted, 1 Private parameters

AHFinder
Shares: ADMBASE ADMMACROS GRID IO SPACEMASK
0 Global, 2 Restricted, 87 Private parameters

AHFinderDirect
Shares: ADMBASE GRID IO SPACEMASK SPHERICALSURFACE
0 Global, 0 Restricted, 154 Private parameters

AMReX
0 Global, 0 Restricted, 0 Private parameters

Arith
0 Global, 0 Restricted, 0 Private parameters

BLAS
0 Global, 0 Restricted, 0 Private parameters

Baikal
Shares: ADMBASE
0 Global, 5 Restricted, 0 Private parameters

BaikalVacuum
Shares: ADMBASE
0 Global, 4 Restricted, 0 Private parameters

Boundary
Shares: CACTUS
0 Global, 8 Restricted, 0 Private parameters

BoxInBox
0 Global, 0 Restricted, 31 Private parameters

CT_Analytic
Shares: GENERICFD METHODOFLINES
0 Global, 67 Restricted, 1 Private parameters

CT_MultiLevel
Shares: ADMBASE
0 Global, 0 Restricted, 66 Private parameters

Cactus
0 Global, 7 Restricted, 13 Private parameters

Calck
Shares: ADMBASE
0 Global, 0 Restricted, 6 Private parameters

Carpet
Shares: CACTUS CARPETLIB INITBASE IO
0 Global, 4 Restricted, 100 Private parameters

CarpetEvolutionMask
0 Global, 0 Restricted, 6 Private parameters

CarpetIOASCII
Shares: CACTUS IO
0 Global, 0 Restricted, 63 Private parameters

CarpetIOBasic
Shares: CACTUS IO
0 Global, 0 Restricted, 15 Private parameters

CarpetIOHDF5
Shares: CACTUS IO
0 Global, 0 Restricted, 77 Private parameters

CarpetIOScalar
Shares: CACTUS IO
0 Global, 0 Restricted, 9 Private parameters

CarpetIntegrateTest

0 Global, 0 Restricted, 2 Private parameters
 CarpetInterp
 0 Global, 0 Restricted, 5 Private parameters
 CarpetInterp2
 0 Global, 0 Restricted, 3 Private parameters
 CarpetLib
 Shares: IO
 0 Global, 5 Restricted, 31 Private parameters
 CarpetMask
 Shares: SPHERICALSURFACE
 0 Global, 0 Restricted, 8 Private parameters
 CarpetProlongateTest
 0 Global, 0 Restricted, 16 Private parameters
 CarpetReduce
 0 Global, 0 Restricted, 3 Private parameters
 CarpetRegrid
 0 Global, 5 Restricted, 65 Private parameters
 CarpetRegrid2
 0 Global, 0 Restricted, 135 Private parameters
 CarpetRegridTest
 0 Global, 0 Restricted, 3 Private parameters
 CarpetSlab
 0 Global, 0 Restricted, 0 Private parameters
 CarpetTracker
 Shares: SPHERICALSURFACE
 0 Global, 0 Restricted, 3 Private parameters
 CarpetX
 Shares: CACTUS IO
 0 Global, 4 Restricted, 103 Private parameters
 CarpetXRegrid
 0 Global, 0 Restricted, 0 Private parameters
 CartGrid3D
 Shares: DRIVER
 0 Global, 23 Restricted, 10 Private parameters
 Cartoon2D
 0 Global, 0 Restricted, 12 Private parameters
 Constants
 0 Global, 0 Restricted, 0 Private parameters
 Convert_to_HydroBase
 0 Global, 0 Restricted, 1 Private parameters
 CoordBase
 0 Global, 0 Restricted, 44 Private parameters
 CoordGauge
 Shares: ADMBASE
 0 Global, 2 Restricted, 1 Private parameters
 Coordinates
 0 Global, 1 Restricted, 71 Private parameters
 CoordinatesSymmetry
 0 Global, 0 Restricted, 5 Private parameters
 CoordinatesX
 0 Global, 0 Restricted, 0 Private parameters
 CycleClock
 0 Global, 0 Restricted, 1 Private parameters
 DNSdata
 Shares: ADMBASE HYDROBASE IO
 0 Global, 0 Restricted, 9 Private parameters
 DemoInterp
 0 Global, 0 Restricted, 3 Private parameters
 Derivs
 0 Global, 0 Restricted, 0 Private parameters
 Dissipation
 Shares: SPACEMASK
 0 Global, 18 Restricted, 0 Private parameters
 DistortedBHIVP
 Shares: ADMBASE STATICCONFORMAL
 0 Global, 0 Restricted, 11 Private parameters
 EHFinder
 Shares: ADMBASE GRID METHODOFLINES SPACEMASK
 0 Global, 3 Restricted, 56 Private parameters
 EOS_Base
 0 Global, 0 Restricted, 0 Private parameters
 EOS_Hybrid
 Shares: EOS_2D_POLYTROPE

0 Global, 3 Restricted, 0 Private parameters
 EOS_IdealFluid
 0 Global, 1 Restricted, 0 Private parameters
 EOS_Omni
 Shares: IO
 0 Global, 28 Restricted, 0 Private parameters
 EOS_Polytrope
 0 Global, 4 Restricted, 0 Private parameters
 EinsteinExact_Test
 0 Global, 0 Restricted, 0 Private parameters
 EllBase
 0 Global, 1 Restricted, 0 Private parameters
 ELLSOR
 Shares: ELLBASE
 0 Global, 0 Restricted, 0 Private parameters
 ErrorEstimator
 0 Global, 0 Restricted, 3 Private parameters
 Exact
 Shares: ADMBASE STATICCONFORMAL
 0 Global, 93 Restricted, 19 Private parameters
 Extract
 Shares: ADMBASE GRID IO
 0 Global, 0 Restricted, 30 Private parameters
 FFTW3
 0 Global, 0 Restricted, 0 Private parameters
 FLRWSolver
 Shares: ADMBASE HYDROBASE
 0 Global, 17 Restricted, 0 Private parameters
 FishboneMoncriefID
 Shares: ADMBASE GRID HYDROBASE
 0 Global, 7 Restricted, 2 Private parameters
 FleshInfo
 0 Global, 0 Restricted, 0 Private parameters
 FluxWaveToyX
 0 Global, 0 Restricted, 7 Private parameters
 Formaline
 Shares: IO
 0 Global, 0 Restricted, 28 Private parameters
 Fortran
 0 Global, 0 Restricted, 1 Private parameters
 GRHayLHD
 Shares: GRHAYLIB
 0 Global, 0 Restricted, 9 Private parameters
 GRHayLHDX
 Shares: GRHAYLIB
 0 Global, 0 Restricted, 8 Private parameters
 GRHayLID
 Shares: GRHAYLIB HYDROBASE
 0 Global, 21 Restricted, 0 Private parameters
 GRHayLIDX
 Shares: GRHAYLIB HYDROBASEX
 0 Global, 18 Restricted, 0 Private parameters
 GRHayLib
 0 Global, 35 Restricted, 0 Private parameters
 GRHydro
 Shares: ADMBASE EOS_OMNI HYDROBASE METHODOFLINES SPACEMASK
 0 Global, 125 Restricted, 3 Private parameters
 GRHydro_InitData
 Shares: ADMBASE EOS_OMNI GRHYDRO HYDROBASE
 0 Global, 0 Restricted, 85 Private parameters
 GSL
 0 Global, 0 Restricted, 0 Private parameters
 GaugeWave
 Shares: ADMBASE GENERICFD METHODOFLINES
 0 Global, 29 Restricted, 1 Private parameters
 GenericFD
 0 Global, 13 Restricted, 0 Private parameters
 GiRaFFE
 Shares: ADMBASE
 0 Global, 7 Restricted, 1 Private parameters
 GiRaFFE_to_HydroBase
 Shares: ADMBASE HYDROBASE
 0 Global, 0 Restricted, 1 Private parameters

GiRaFFeFood
Shares: GIRAFFE SHIFTEKERRSCHILD
0 Global, 9 Restricted, 0 Private parameters

GlobalDerivative
Shares: SUMMATIONBYPARTS
0 Global, 5 Restricted, 0 Private parameters

HDF5
0 Global, 0 Restricted, 0 Private parameters

HTTPD
Shares: CACTUS
0 Global, 0 Restricted, 22 Private parameters

HTTPDExtra
0 Global, 0 Restricted, 1 Private parameters

HelloWorld
0 Global, 0 Restricted, 0 Private parameters

HighOrderWaveTest
0 Global, 0 Restricted, 0 Private parameters

HydroBase
Shares: INITBASE IO
0 Global, 17 Restricted, 0 Private parameters

HydroBaseX
0 Global, 1 Restricted, 0 Private parameters

Hydro_Analysis
Shares: HYDROBASE
0 Global, 4 Restricted, 15 Private parameters

Hydro_InitExcision
Shares: GRID
0 Global, 11 Restricted, 0 Private parameters

Hydro_RNSID
Shares: ADMDBASE HYDROBASE
0 Global, 0 Restricted, 17 Private parameters

IDAnalyticBH
Shares: ADMDBASE STATICCONFORMAL
0 Global, 0 Restricted, 23 Private parameters

IDAxBrillBH
Shares: ADMDBASE
0 Global, 0 Restricted, 20 Private parameters

IDAxIOddBrillBH
Shares: ADMDBASE STATICCONFORMAL
0 Global, 0 Restricted, 17 Private parameters

IDBrillData

Shares: ADMBASE STATICCONFORMAL
 0 Global, 0 Restricted, 31 Private parameters
 IDConstraintViolate
 Shares: ADMBASE
 0 Global, 0 Restricted, 3 Private parameters
 IDFileADM
 Shares: ADMBASE IO STATICCONFORMAL
 0 Global, 0 Restricted, 0 Private parameters
 IDLinearWaves
 Shares: ADMBASE STATICCONFORMAL
 0 Global, 0 Restricted, 11 Private parameters
 IDScalarWave
 Shares: GRID
 0 Global, 1 Restricted, 6 Private parameters
 IDScalarWaveC
 Shares: GRID
 0 Global, 1 Restricted, 6 Private parameters
 IDScalarWaveCXX
 Shares: GRID
 0 Global, 1 Restricted, 6 Private parameters
 IDScalarWaveElliptic
 Shares: IDSCALARWAVE
 0 Global, 0 Restricted, 5 Private parameters
 IDWaveMol
 0 Global, 1 Restricted, 17 Private parameters
 ID_converter_GiRaFFE
 Shares: GIRAFFE
 0 Global, 0 Restricted, 2 Private parameters
 ID_converter_ILGRMHD
 0 Global, 0 Restricted, 5 Private parameters
 IOASCII
 Shares: IO
 0 Global, 0 Restricted, 35 Private parameters
 IOBasic
 Shares: IO
 0 Global, 0 Restricted, 13 Private parameters
 IOHDF5
 Shares: IO
 0 Global, 0 Restricted, 5 Private parameters
 IOHDF5Util
 Shares: IO
 0 Global, 0 Restricted, 1 Private parameters
 IOJpeg
 Shares: IO
 0 Global, 0 Restricted, 33 Private parameters
 IOUtil
 0 Global, 59 Restricted, 2 Private parameters
 IllinoisGRMHD
 Shares: GRHAYLIB
 0 Global, 0 Restricted, 22 Private parameters
 InitBase
 0 Global, 1 Restricted, 0 Private parameters
 InterpToArray
 0 Global, 93 Restricted, 0 Private parameters
 Interpolate2
 0 Global, 0 Restricted, 11 Private parameters
 KerrSchild
 Shares: ADMBASE GENERICFD METHODOFLINES
 0 Global, 29 Restricted, 1 Private parameters
 LAPACK
 0 Global, 0 Restricted, 0 Private parameters
 LORENE
 0 Global, 0 Restricted, 0 Private parameters
 LeanBSSNMol
 Shares: ADMBASE METHODOFLINES
 0 Global, 3 Restricted, 30 Private parameters
 LlamaWaveToy
 Shares: COORDINATES METHODOFLINES
 0 Global, 0 Restricted, 35 Private parameters
 LocalInterp
 0 Global, 0 Restricted, 0 Private parameters
 LocalInterp2

0 Global, 0 Restricted, 0 Private parameters
 LocalReduce
 0 Global, 0 Restricted, 0 Private parameters
 Loop
 0 Global, 0 Restricted, 0 Private parameters
 LoopControl
 Shares: IO
 0 Global, 0 Restricted, 20 Private parameters
 ML_ADMConstraints
 Shares: GENERICFD METHODOFLINES
 0 Global, 9 Restricted, 0 Private parameters
 ML_ADMQuantities
 Shares: GENERICFD METHODOFLINES
 0 Global, 10 Restricted, 0 Private parameters
 ML_BSSN
 Shares: ADMDBASE GENERICFD METHODOFLINES
 0 Global, 71 Restricted, 137 Private parameters
 ML_BSSN_Helper
 Shares: ADMDBASE BOUNDARY GENERICFD METHODOFLINES ML_BSSN
 0 Global, 0 Restricted, 1 Private parameters
 ML_BSSN_Test
 0 Global, 0 Restricted, 0 Private parameters
 ML_CCZ4
 Shares: ADMDBASE GENERICFD METHODOFLINES
 0 Global, 74 Restricted, 145 Private parameters
 ML_CCZ4_Helper
 Shares: ADMDBASE BOUNDARY GENERICFD METHODOFLINES ML_CCZ4
 0 Global, 0 Restricted, 1 Private parameters
 ML_CCZ4_Test
 0 Global, 0 Restricted, 0 Private parameters
 ML_WaveToy
 Shares: GENERICFD METHODOFLINES
 0 Global, 21 Restricted, 17 Private parameters
 ML_WaveToy_Test
 0 Global, 0 Restricted, 0 Private parameters
 MPI
 0 Global, 0 Restricted, 0 Private parameters
 MemSpeed
 0 Global, 0 Restricted, 2 Private parameters
 Meudon_Bin_BH
 Shares: ADMDBASE
 0 Global, 0 Restricted, 1 Private parameters
 Meudon_Bin_NS
 Shares: ADMDBASE HYDROBASE
 0 Global, 0 Restricted, 5 Private parameters
 Meudon_Mag_NS
 Shares: ADMDBASE HYDROBASE
 0 Global, 0 Restricted, 1 Private parameters
 Minkowski
 Shares: ADMDBASE GENERICFD METHODOFLINES
 0 Global, 27 Restricted, 1 Private parameters
 MoL
 Shares: CACTUS
 0 Global, 9 Restricted, 26 Private parameters
 ModifiedSchwarzschildBL
 Shares: ADMDBASE GENERICFD METHODOFLINES
 0 Global, 29 Restricted, 1 Private parameters
 Multipole
 Shares: IO
 0 Global, 26 Restricted, 0 Private parameters
 NPScalars
 0 Global, 0 Restricted, 2 Private parameters
 NPScalars_Proca
 Shares: PROCABASE
 0 Global, 0 Restricted, 4 Private parameters
 NRPyEllipticET
 Shares: ADMDBASE GRID
 0 Global, 0 Restricted, 29 Private parameters
 NSIMD
 0 Global, 0 Restricted, 0 Private parameters
 NaNCatcher
 0 Global, 0 Restricted, 0 Private parameters
 NaNChecker

0 Global, 0 Restricted, 11 Private parameters
 NewRad
 0 Global, 0 Restricted, 1 Private parameters
 NewRadX
 0 Global, 0 Restricted, 0 Private parameters
 Nice
 0 Global, 0 Restricted, 1 Private parameters
 NoExcision
 0 Global, 0 Restricted, 27 Private parameters
 NoMPI
 0 Global, 0 Restricted, 0 Private parameters
 Noise
 0 Global, 0 Restricted, 7 Private parameters
 Norms
 0 Global, 0 Restricted, 4 Private parameters
 NullConstr
 Shares: NULLEVOLVE NULLGRID
 0 Global, 1 Restricted, 0 Private parameters
 NullDecomp
 Shares: IO NULLGRID
 0 Global, 1 Restricted, 2 Private parameters
 NullEvolve
 Shares: CACTUS NULLGRID NULLINTERP TIME
 0 Global, 15 Restricted, 31 Private parameters
 NullExact
 Shares: METHODOFLINES NULLEVOLVE NULLGRID NULLNEWS
 0 Global, 4 Restricted, 14 Private parameters
 NullGrid
 0 Global, 8 Restricted, 0 Private parameters
 NullInterp
 Shares: NULLGRID
 0 Global, 3 Restricted, 7 Private parameters
 NullNews
 Shares: CACTUS NULLGRID
 0 Global, 1 Restricted, 21 Private parameters
 NullPsiInt
 Shares: METHODOFLINES NULLGRID
 0 Global, 2 Restricted, 1 Private parameters
 NullSHRExtract
 Shares: CACTUS NULLEVOLVE NULLGRID
 0 Global, 4 Restricted, 14 Private parameters
 NullVars
 Shares: NULLGRID
 0 Global, 0 Restricted, 0 Private parameters
 ODESolvers
 0 Global, 0 Restricted, 2 Private parameters
 OpenSSL
 0 Global, 0 Restricted, 0 Private parameters
 Outflow
 Shares: IO SPHERICALSURFACE
 0 Global, 0 Restricted, 19 Private parameters
 PUGH
 Shares: CACTUS
 0 Global, 4 Restricted, 51 Private parameters
 PUGHInterp
 0 Global, 0 Restricted, 0 Private parameters
 PUGHReduce
 0 Global, 0 Restricted, 0 Private parameters
 PUGHSlab
 0 Global, 0 Restricted, 0 Private parameters
 Periodic
 0 Global, 0 Restricted, 8 Private parameters
 PeriodicCarpet
 0 Global, 0 Restricted, 5 Private parameters
 Poisson
 0 Global, 0 Restricted, 4 Private parameters
 ProcaBase
 Shares: INITBASE IO
 0 Global, 10 Restricted, 0 Private parameters
 ProcaEvolve
 Shares: METHODOFLINES PROCABASE
 0 Global, 3 Restricted, 6 Private parameters
 Proca_simpleID

Shares: ADMBASE
 0 Global, 7 Restricted, 0 Private parameters
 PunctureTracker
 Shares: SPHERICALSURFACE
 0 Global, 0 Restricted, 10 Private parameters
 QuasiLocalMeasures
 Shares: ADMBASE SPHERICALSURFACE
 0 Global, 0 Restricted, 13 Private parameters
 ReadInterpolate
 Shares: IO
 0 Global, 0 Restricted, 14 Private parameters
 ReductionTest
 Shares: GRID
 0 Global, 0 Restricted, 0 Private parameters
 ReductionTest2
 Shares: GRID
 0 Global, 0 Restricted, 0 Private parameters
 ReductionTest3
 Shares: GRID
 0 Global, 0 Restricted, 0 Private parameters
 ReflectionSymmetry
 0 Global, 0 Restricted, 13 Private parameters
 RegridSyncTest
 0 Global, 0 Restricted, 0 Private parameters
 RotatingDBHIVP
 Shares: ADMBASE STATICCONFORMAL
 0 Global, 0 Restricted, 13 Private parameters
 RotatingSymmetry180
 0 Global, 0 Restricted, 8 Private parameters
 RotatingSymmetry90
 0 Global, 0 Restricted, 4 Private parameters
 SGRID
 0 Global, 0 Restricted, 0 Private parameters
 SIMDWaveToyX
 0 Global, 0 Restricted, 6 Private parameters
 SampleBoundary
 0 Global, 0 Restricted, 0 Private parameters
 SampleIO
 Shares: IO
 0 Global, 0 Restricted, 5 Private parameters
 ScalarBase
 0 Global, 20 Restricted, 0 Private parameters
 ScalarEvolve
 Shares: METHODOFLINES SCALARBASE
 0 Global, 3 Restricted, 6 Private parameters
 ScalarInit
 Shares: SCALARBASE
 0 Global, 18 Restricted, 0 Private parameters
 Seed_Magnetic_Fields
 0 Global, 16 Restricted, 0 Private parameters
 SetMask_SphericalSurface
 Shares: SPHERICALSURFACE
 0 Global, 0 Restricted, 5 Private parameters
 ShiftedGaugeWave
 Shares: ADMBASE GENERICFD METHODOFLINES
 0 Global, 29 Restricted, 1 Private parameters
 ShiftedKerrSchild
 Shares: ADMBASE
 0 Global, 3 Restricted, 0 Private parameters
 Silo
 0 Global, 0 Restricted, 0 Private parameters
 Slab
 0 Global, 0 Restricted, 2 Private parameters
 SlabTest
 0 Global, 0 Restricted, 0 Private parameters
 Socket
 0 Global, 0 Restricted, 0 Private parameters
 SpaceMask
 0 Global, 1 Restricted, 0 Private parameters
 SpacetimeWaveToyX
 0 Global, 0 Restricted, 6 Private parameters

SphericalHarmonicDecomp
 Shares: IO
 0 Global, 0 Restricted, 18 Private parameters
 SphericalHarmonicRecon
 0 Global, 0 Restricted, 10 Private parameters
 SphericalHarmonicReconGen
 Shares: NULLSHREXTRACT
 0 Global, 0 Restricted, 45 Private parameters
 SphericalSurface
 0 Global, 15 Restricted, 9 Private parameters
 StaggeredWaveToyX
 0 Global, 0 Restricted, 6 Private parameters
 StaticConformal
 Shares: ADMBASE
 0 Global, 1 Restricted, 0 Private parameters
 SummationByParts
 0 Global, 23 Restricted, 0 Private parameters
 SymbBase
 0 Global, 0 Restricted, 1 Private parameters
 SystemStatistics
 0 Global, 0 Restricted, 0 Private parameters
 SystemTopology
 0 Global, 0 Restricted, 2 Private parameters
 TATelliptic
 0 Global, 0 Restricted, 0 Private parameters
 TGRtensor
 0 Global, 0 Restricted, 0 Private parameters
 TOVSolver
 Shares: ADMBASE HYDROBASE STATICCONFORMAL
 0 Global, 0 Restricted, 27 Private parameters
 TOVola
 Shares: ADMBASE HYDROBASE
 0 Global, 0 Restricted, 12 Private parameters
 TensorTypes
 0 Global, 0 Restricted, 0 Private parameters
 TerminationTrigger
 Shares: IO
 0 Global, 0 Restricted, 10 Private parameters
 TestArrayGroup
 0 Global, 0 Restricted, 0 Private parameters
 TestArrays
 0 Global, 0 Restricted, 20 Private parameters
 TestBoundaries
 0 Global, 0 Restricted, 0 Private parameters
 TestBoxInBox
 0 Global, 0 Restricted, 0 Private parameters
 TestCarpetGridInfo
 0 Global, 0 Restricted, 2 Private parameters
 TestComplex
 0 Global, 0 Restricted, 3 Private parameters
 TestCoordinates
 0 Global, 2 Restricted, 0 Private parameters
 TestDerivs
 0 Global, 0 Restricted, 5 Private parameters
 TestFortranCrayPointers
 0 Global, 0 Restricted, 0 Private parameters
 TestFortranDependencies1
 0 Global, 0 Restricted, 0 Private parameters
 TestFortranDependencies2
 0 Global, 0 Restricted, 0 Private parameters
 TestFpointerNULL
 0 Global, 0 Restricted, 0 Private parameters
 TestFreeF90
 0 Global, 0 Restricted, 0 Private parameters
 TestGlobalReduce
 0 Global, 0 Restricted, 11 Private parameters
 TestInclude1
 0 Global, 0 Restricted, 0 Private parameters
 TestInclude2
 0 Global, 0 Restricted, 0 Private parameters
 TestInterpolate
 0 Global, 0 Restricted, 2 Private parameters

TestLocalInterp2
 0 Global, 0 Restricted, 3 Private parameters
 TestLocalReduce
 0 Global, 0 Restricted, 3 Private parameters
 TestLoop
 0 Global, 0 Restricted, 0 Private parameters
 TestLoopControl
 0 Global, 0 Restricted, 0 Private parameters
 TestMath
 0 Global, 0 Restricted, 0 Private parameters
 TestMoL
 0 Global, 0 Restricted, 4 Private parameters
 TestNorms
 0 Global, 0 Restricted, 1 Private parameters
 TestODESolvers
 0 Global, 0 Restricted, 1 Private parameters
 TestODESolvers2
 0 Global, 0 Restricted, 1 Private parameters
 TestOutput
 0 Global, 0 Restricted, 0 Private parameters
 TestPar
 0 Global, 0 Restricted, 16 Private parameters
 TestProlongate
 0 Global, 0 Restricted, 2 Private parameters
 TestReadWrite
 0 Global, 0 Restricted, 4 Private parameters
 TestReduce
 0 Global, 0 Restricted, 0 Private parameters
 TestSchedule
 0 Global, 0 Restricted, 0 Private parameters
 TestStrings
 0 Global, 0 Restricted, 0 Private parameters
 TestSymmetries
 0 Global, 0 Restricted, 0 Private parameters
 TestTable
 0 Global, 0 Restricted, 0 Private parameters
 TestTimers
 0 Global, 0 Restricted, 1 Private parameters
 TestTypes
 0 Global, 0 Restricted, 4 Private parameters
 Time
 Shares: CACTUS
 0 Global, 2 Restricted, 5 Private parameters
 TimerInfo
 0 Global, 0 Restricted, 3 Private parameters
 TimerReport
 Shares: IO
 0 Global, 0 Restricted, 11 Private parameters
 Timers
 Shares: IO
 0 Global, 0 Restricted, 6 Private parameters
 TmunuBase
 0 Global, 2 Restricted, 3 Private parameters
 TmunuBaseX
 0 Global, 0 Restricted, 0 Private parameters
 Trigger
 0 Global, 0 Restricted, 18 Private parameters
 TwoPunctures
 Shares: ADMDBASE IO STATICCONFORMAL
 0 Global, 33 Restricted, 0 Private parameters
 TwoPunctures_BBHSF
 Shares: ADMDBASE IO SCALARBASE STATICCONFORMAL
 0 Global, 41 Restricted, 0 Private parameters
 TwoPunctures_KerrProca
 Shares: ADMDBASE IO PROCABASE STATICCONFORMAL
 0 Global, 34 Restricted, 5 Private parameters
 Vaidya2
 Shares: ADMDBASE GENERICFD METHODOFLINES
 0 Global, 29 Restricted, 1 Private parameters
 Vectors
 0 Global, 0 Restricted, 2 Private parameters
 VolumeIntegrals_GRMHD
 Shares: GRID IO

```

    0 Global, 0 Restricted, 18 Private parameters
VolumeIntegrals_vacuum
    Shares: GRID IO
    0 Global, 0 Restricted, 22 Private parameters
WatchDog
    0 Global, 0 Restricted, 1 Private parameters
WaveBinarySource
    0 Global, 0 Restricted, 5 Private parameters
WaveExtractL
    Shares: ADMBASE GRID IO SPHERICALSURFACE
    0 Global, 0 Restricted, 53 Private parameters
WaveMoL
    Shares: METHODOFLINES
    0 Global, 2 Restricted, 1 Private parameters
WaveToy1DF77
    0 Global, 0 Restricted, 4 Private parameters
WaveToy2DF77
    0 Global, 0 Restricted, 5 Private parameters
WaveToyC
    0 Global, 1 Restricted, 0 Private parameters
WaveToyCXX
    0 Global, 1 Restricted, 0 Private parameters
WaveToyExtra
    Shares: WAVETOY
    0 Global, 0 Restricted, 2 Private parameters
WaveToyF77
    0 Global, 1 Restricted, 0 Private parameters
WaveToyF90
    0 Global, 1 Restricted, 0 Private parameters
WaveToyFreeF90
    0 Global, 1 Restricted, 0 Private parameters
WaveToyX
    0 Global, 0 Restricted, 8 Private parameters
WeylScal4
    Shares: GENERICFD METHODOFLINES
    0 Global, 30 Restricted, 3 Private parameters
hwloc
    0 Global, 0 Restricted, 0 Private parameters
libjpeg
    0 Global, 0 Restricted, 0 Private parameters
openPMD
    0 Global, 0 Restricted, 0 Private parameters
particle_tracerET
    Shares: ADMBASE HYDROBASE IO
    0 Global, 0 Restricted, 20 Private parameters
pthreads
    0 Global, 0 Restricted, 0 Private parameters
smallbPoynET
    Shares: ADMBASE HYDROBASE
    0 Global, 0 Restricted, 2 Private parameters
yaml_cpp
    0 Global, 0 Restricted, 0 Private parameters
zlib
    0 Global, 0 Restricted, 0 Private parameters
Parsing schedule files...
ADIOS2
    0 schedule blocks.
ADMAAnalysis
    15 schedule blocks.
ADMBBase
    27 schedule blocks.
ADMBBaseX
    20 schedule blocks.
ADMCoupling
    0 schedule blocks.
ADMDerivatives
    7 schedule blocks.
ADMMacros
    1 schedule blocks.
ADMMass
    10 schedule blocks.
AEILocalInterp
    1 schedule blocks.

```


AHFinder
7 schedule blocks.
AHFinderDirect
34 schedule blocks.
AMReX
0 schedule blocks.
Arith
2 schedule blocks.
BLAS
0 schedule blocks.
Baikal
24 schedule blocks.
BaikalVacuum
25 schedule blocks.
Boundary
6 schedule blocks.
BoxInBox
3 schedule blocks.
CT_Analytic
13 schedule blocks.
CT_MultiLevel
1 schedule blocks.
Cactus
24 schedule blocks.
CalcK
5 schedule blocks.
Carpet
9 schedule blocks.
CarpetEvolutionMask
7 schedule blocks.
CarpetIOASCII
2 schedule blocks.
CarpetIOBasic
2 schedule blocks.
CarpetIOHDF5
10 schedule blocks.
CarpetIOScalar
2 schedule blocks.
CarpetIntegrateTest
3 schedule blocks.
CarpetInterp
1 schedule blocks.
CarpetInterp2
0 schedule blocks.
CarpetLib
4 schedule blocks.
CarpetMask
4 schedule blocks.
CarpetProlongateTest
9 schedule blocks.
CarpetReduce
15 schedule blocks.
CarpetRegrid
1 schedule blocks.
CarpetRegrid2
2 schedule blocks.
CarpetRegridTest
3 schedule blocks.
CarpetSlab
0 schedule blocks.
CarpetTracker
1 schedule blocks.
CarpetX
6 schedule blocks.
CarpetXRegrid
1 schedule blocks.
CartGrid3D
11 schedule blocks.
Cartoon2D
6 schedule blocks.
Constants
0 schedule blocks.
Convert_to_HydroBase

0 schedule blocks.
CoordBase
1 schedule blocks.
CoordGauge
8 schedule blocks.
Coordinates
26 schedule blocks.

CoordinatesSymmetry
2 schedule blocks.
CoordinatesX
1 schedule blocks.
CycleClock
1 schedule blocks.
DNSdata
2 schedule blocks.
DemoInterp
6 schedule blocks.
Derivs
0 schedule blocks.
Dissipation
6 schedule blocks.
DistortedBHIVP
2 schedule blocks.
EHFinder
86 schedule blocks.
EOS_Base
0 schedule blocks.
EOS_Hybrid
2 schedule blocks.
EOS_IdealFluid
1 schedule blocks.
EOS_Omni
6 schedule blocks.
EOS_Polytrope
1 schedule blocks.
EinsteinExact_Test
0 schedule blocks.
EllBase
1 schedule blocks.
EllSOR
1 schedule blocks.
ErrorEstimator
2 schedule blocks.
Exact
16 schedule blocks.
Extract
2 schedule blocks.
FFTW3
0 schedule blocks.
FLRWSolver
5 schedule blocks.
FishboneMoncriefID
2 schedule blocks.
FleshInfo
4 schedule blocks.
FluxWaveToyX
9 schedule blocks.
Formaline
10 schedule blocks.
Fortran
1 schedule blocks.
GRHayLHD
47 schedule blocks.
GRHayLHDX
50 schedule blocks.
GRHayLID
7 schedule blocks.
GRHayLIDX
7 schedule blocks.
GRHayLib
2 schedule blocks.
GRHydro
145 schedule blocks.
GRHydro_InitData
35 schedule blocks.
GSL
0 schedule blocks.
GaugeWave
10 schedule blocks.

GenericFD
 0 schedule blocks.
GiRaFFE
 13 schedule blocks.
GiRaFFE_to_HydroBase
 2 schedule blocks.
GiRaFFEFood
 17 schedule blocks.
GlobalDerivative
 2 schedule blocks.
HDF5
 0 schedule blocks.
HTTPD
 7 schedule blocks.
HTTPDExtra
 1 schedule blocks.
HelloWorld
 1 schedule blocks.
HighOrderWaveTest
 0 schedule blocks.
HydroBase
 22 schedule blocks.
HydroBaseX
 10 schedule blocks.
Hydro_Analysis
 17 schedule blocks.
Hydro_InitExcision
 4 schedule blocks.
Hydro_RNSID
 2 schedule blocks.
IDAnalyticBH
 6 schedule blocks.
IDAxBrillBH
 2 schedule blocks.
IDAxOddBrillBH
 2 schedule blocks.
IDBrillData
 3 schedule blocks.
IDConstraintViolate
 2 schedule blocks.
IDFileADM
 2 schedule blocks.
IDLinearWaves
 8 schedule blocks.
IDScalarWave
 3 schedule blocks.
IDScalarWaveC
 2 schedule blocks.
IDScalarWaveCXX
 2 schedule blocks.
IDScalarWaveElliptic
 1 schedule blocks.
IDWaveMoL
 2 schedule blocks.
ID_converter_GiRaFFE
 5 schedule blocks.
ID_converter_ILGRMHD
 0 schedule blocks.
IOASCII
 3 schedule blocks.
IOBasic
 2 schedule blocks.
IOHDF5
 5 schedule blocks.
IOHDF5Util
 2 schedule blocks.
IOJpeg
 2 schedule blocks.
IOUtil
 4 schedule blocks.
IllinoisGRMHD
 65 schedule blocks.
InitBase

0 schedule blocks.
InterpToArray
1 schedule blocks.
Interpolate2
7 schedule blocks.
KerrSchild
10 schedule blocks.
LAPACK
0 schedule blocks.
LORENE
0 schedule blocks.
LeanBSSNMol
24 schedule blocks.
LlamaWaveToy
14 schedule blocks.
LocalInterp
1 schedule blocks.
LocalInterp2
1 schedule blocks.
LocalReduce
1 schedule blocks.
Loop
0 schedule blocks.
LoopControl
4 schedule blocks.
ML_ADMConstraints
12 schedule blocks.
ML_ADMQuantities
12 schedule blocks.
ML_BSSN
33 schedule blocks.
ML_BSSN_Helper
11 schedule blocks.
ML_BSSN_Test
0 schedule blocks.
ML_CCZ4
33 schedule blocks.
ML_CCZ4_Helper
11 schedule blocks.
ML_CCZ4_Test
0 schedule blocks.
ML_WaveToy
13 schedule blocks.
ML_WaveToy_Test
0 schedule blocks.
MPI
0 schedule blocks.
MemSpeed
1 schedule blocks.
Meudon_Bin_BH
2 schedule blocks.
Meudon_Bin_NS
1 schedule blocks.
Meudon_Mag_NS
2 schedule blocks.
Minkowski
10 schedule blocks.
MoL
68 schedule blocks.
ModifiedSchwarzschildBL
10 schedule blocks.
Multipole
6 schedule blocks.
NPScalars
12 schedule blocks.
NPScalars_Proca
11 schedule blocks.
NRPyEllipticET
2 schedule blocks.
NSIMD
0 schedule blocks.
NaN Catcher
1 schedule blocks.

NaNChecker
10 schedule blocks.
NewRad
0 schedule blocks.
NewRadX
0 schedule blocks.
Nice
1 schedule blocks.
NoExcision
23 schedule blocks.
NoMPI
0 schedule blocks.
Noise
3 schedule blocks.
Norms
2 schedule blocks.
NullConstr
2 schedule blocks.
NullDecomp
1 schedule blocks.
NullEvolve
16 schedule blocks.
NullExact
14 schedule blocks.
NullGrid
4 schedule blocks.
NullInterp
3 schedule blocks.
NullNews
8 schedule blocks.
NullPsiInt
3 schedule blocks.
NullSHRExtract
25 schedule blocks.
NullVars
0 schedule blocks.
ODESolvers
17 schedule blocks.
OpenSSL
0 schedule blocks.
Outflow
2 schedule blocks.
PUGH
8 schedule blocks.
PUGHInterp
1 schedule blocks.
PUGHReduce
1 schedule blocks.
PUGHSlab
0 schedule blocks.
Periodic
2 schedule blocks.
PeriodicCarpet
3 schedule blocks.
Poisson
5 schedule blocks.
ProcaBase
3 schedule blocks.
ProcaEvolve
8 schedule blocks.
Proca_simpleID
1 schedule blocks.
PunctureTracker
3 schedule blocks.
QuasiLocalMeasures
3 schedule blocks.
ReadInterpolate
8 schedule blocks.
ReductionTest
5 schedule blocks.
ReductionTest2
4 schedule blocks.
ReductionTest3

5 schedule blocks.
ReflectionSymmetry
2 schedule blocks.
RegridSyncTest
5 schedule blocks.
RotatingDBHIVP
2 schedule blocks.
RotatingSymmetry180
4 schedule blocks.
RotatingSymmetry90
4 schedule blocks.
SGRID
0 schedule blocks.
SIMDWaveToyX
6 schedule blocks.
SampleBoundary
1 schedule blocks.
SampleIO
1 schedule blocks.
ScalarBase
2 schedule blocks.
ScalarEvolve
11 schedule blocks.
ScalarInit
10 schedule blocks.
Seed_Magnetic_Fields
2 schedule blocks.
SetMask_SphericalSurface
3 schedule blocks.
ShiftedGaugeWave
10 schedule blocks.
ShiftedKerrSchild
5 schedule blocks.
Silo
0 schedule blocks.
Slab
3 schedule blocks.
SlabTest
1 schedule blocks.
Socket
0 schedule blocks.
SpaceMask
9 schedule blocks.
SpacetimeWaveToyX
6 schedule blocks.
SphericalHarmonicDecomp
2 schedule blocks.
SphericalHarmonicRecon
4 schedule blocks.
SphericalHarmonicReconGen
7 schedule blocks.
SphericalSurface
8 schedule blocks.
StaggeredWaveToyX
7 schedule blocks.
StaticConformal
1 schedule blocks.
SummationByParts
4 schedule blocks.
SymBase
5 schedule blocks.
SystemStatistics
1 schedule blocks.
SystemTopology
1 schedule blocks.
TATelliptic
1 schedule blocks.
TGRtensor
0 schedule blocks.
TOVSolver
10 schedule blocks.
TOVol
3 schedule blocks.

TensorTypes
 0 schedule blocks.
TerminationTrigger
 9 schedule blocks.
TestArrayGroup
 5 schedule blocks.
TestArrays
 2 schedule blocks.
TestBoundaries
 4 schedule blocks.
TestBoxInBox
 2 schedule blocks.
TestCarpetGridInfo
 1 schedule blocks.
TestComplex
 3 schedule blocks.
TestCoordinates
 3 schedule blocks.
TestDerivs
 4 schedule blocks.
TestFortranCrayPointers
 2 schedule blocks.
TestFortranDependencies1
 0 schedule blocks.
TestFortranDependencies2
 0 schedule blocks.
TestFpointerNULL
 1 schedule blocks.
TestFreeF90
 0 schedule blocks.
TestGlobalReduce
 12 schedule blocks.
TestInclude1
 1 schedule blocks.
TestInclude2
 1 schedule blocks.
TestInterpolate
 2 schedule blocks.
TestLocalInterp2
 3 schedule blocks.
TestLocalReduce
 3 schedule blocks.
TestLoop
 3 schedule blocks.
TestLoopControl
 3 schedule blocks.
TestMath
 2 schedule blocks.
TestMoL
 7 schedule blocks.
TestNorms
 2 schedule blocks.
TestODESolvers
 5 schedule blocks.
TestODESolvers2
 4 schedule blocks.
TestOutput
 5 schedule blocks.
TestPar
 2 schedule blocks.
TestProlongate
 9 schedule blocks.
TestReadWrite
 13 schedule blocks.
TestReduce
 5 schedule blocks.
TestSchedule
 19 schedule blocks.
TestStrings
 1 schedule blocks.
TestSymmetries
 6 schedule blocks.
TestTable

1 schedule blocks.
TestTimers
3 schedule blocks.
TestTypes
2 schedule blocks.
Time
7 schedule blocks.
TimerInfo
1 schedule blocks.
TimerReport
3 schedule blocks.
Timers
2 schedule blocks.
TmunuBase
5 schedule blocks.
TmunuBaseX
6 schedule blocks.
Trigger
3 schedule blocks.
TwoPunctures
5 schedule blocks.
TwoPunctures_BBHSF

5 schedule blocks.
TwoPunctures_KerrProca
5 schedule blocks.
Vaidya2
10 schedule blocks.
Vectors
2 schedule blocks.
VolumeIntegrals_GRMHD
10 schedule blocks.
VolumeIntegrals_vacuum
10 schedule blocks.
WatchDog
1 schedule blocks.
WaveBinarySource
1 schedule blocks.
WaveExtractL
17 schedule blocks.
WaveMoL
9 schedule blocks.
WaveToy1DF77
6 schedule blocks.
WaveToy2DF77
6 schedule blocks.
WaveToyC
11 schedule blocks.
WaveToyCXX
11 schedule blocks.
WaveToyExtra
3 schedule blocks.
WaveToyF77
11 schedule blocks.
WaveToyF90
11 schedule blocks.
WaveToyFreeF90
7 schedule blocks.
WaveToyX
6 schedule blocks.
WeylScal4
48 schedule blocks.
hwloc
2 schedule blocks.
libjpeg
0 schedule blocks.
openPMD
0 schedule blocks.
particle_tracerET
9 schedule blocks.
pthreads
0 schedule blocks.
smallbPoynET
1 schedule blocks.
yaml_cpp
0 schedule blocks.
zlib
0 schedule blocks.

Running any thorn-provided configuration scripts...

Running configuration script for thorn BLAS:
BLAS selected, but BLAS_DIR not set. Checking some places...
BLAS not found
Using bundled BLAS...
BLAS has already been built; doing nothing
Finished running configuration script for thorn BLAS.

Running configuration script for thorn FFTW3:
FFTW3 selected, but FFTW3_DIR not set. Checking some places...
Found FFTW3 in /usr
Finished running configuration script for thorn FFTW3.

Running configuration script for thorn FORTRAN:
Found a traditional Fortran cpp
Finished running configuration script for thorn FORTRAN.

```
*****
Running configuration script for thorn GSL:
GSL selected, but GSL_DIR not set. Checking pkg-config ...
GSL found: /usr
Finished running configuration script for thorn GSL.
```

```
*****
Running configuration script for thorn LAPACK:
LAPACK selected, but LAPACK_DIR not set. Checking some places...
LAPACK not found
Using bundled LAPACK...
LAPACK has already been built; doing nothing
Finished running configuration script for thorn LAPACK.
```

```
*****
Running configuration script for thorn LIBJPEG:
LIBJPEG selected, but LIBJPEG_DIR not set. Checking pkg-config ...
LIBJPEG not found. Checking standard paths ...
LIBJPEG found.
Finished running configuration script for thorn LIBJPEG.
```

```
*****
Running configuration script for thorn LORENE:
LORENE selected, but LORENE_DIR not set.
Using bundled LORENE..
Finished running configuration script for thorn LORENE.
```

```
*****
Running configuration script for thorn NSIMD:
NSIMD selected, but NSIMD_DIR not set. Checking pkg-config ...
NSIMD not found. Checking standard paths ...
NSIMD not found.
Using bundled NSIMD..
Finished running configuration script for thorn NSIMD.
```

```
*****
Running configuration script for thorn OPENSLL:
OpenSSL selected, but OPENSLL_DIR not set. Checking some places...
Found OpenSSL in /usr
Finished running configuration script for thorn OPENSLL.
```

```
*****
Running configuration script for thorn PTHREADS:
Finished running configuration script for thorn PTHREADS.
```

```
*****
Running configuration script for thorn SGRID:
SGRID selected, but SGRID_DIR not set. Checking pkg-config ...
SGRID not found. Checking standard paths ...
SGRID not found.
Using bundled SGRID..
Finished running configuration script for thorn SGRID.
```

```
*****
Running configuration script for thorn VECTORS:
Finished running configuration script for thorn VECTORS.
```

```
*****
Running configuration script for thorn YAML_CPP:
YAML_CPP selected, but YAML_CPP_DIR not set. Checking pkg-config ...
YAML_CPP not found. Checking standard paths ...
YAML_CPP found.
Finished running configuration script for thorn YAML_CPP.
```

```
*****
Running configuration script for thorn ZLIB:
zlib selected, but ZLIB_DIR not set. Checking some places...
Found zlib in /usr
Finished running configuration script for thorn ZLIB.
```

```

*****
Running configuration script for thorn HWLOC:
hwloc selected, but HWLOC_DIR not set. Checking some places...
Found hwloc in NO_BUILD
Finished running configuration script for thorn HWLOC.

*****
Running configuration script for thorn MPI:
MPI selected, but MPI_DIR is not set. Computing settings...
Found MPI compiler wrapper at /usr/bin/mpic++!
Successfully configured MPI.
Finished running configuration script for thorn MPI.

*****
Running configuration script for thorn ADIOS2:
ADIOS2 selected, but ADIOS2_DIR not set. Checking pkg-config ...
ADIOS2 not found. Checking standard paths ...
ADIOS2 found.
WARNING in ADIOS2 configuration:
None of adios2/common/ADIOSConfig.h found in
Automatic detection of MPI use not possible
Finished running configuration script for thorn ADIOS2.

*****
Running configuration script for thorn AMREX:
AMREX selected, but AMREX_DIR not set. Checking pkg-config ...
AMREX not found. Checking standard paths ...
AMREX not found.
Using bundled AMReX...
Finished running configuration script for thorn AMREX.

*****
Running configuration script for thorn HDF5:
Additional requested language support: Fortran
HDF5 selected, but HDF5_DIR not set. Checking pkg-config ...
HDF5 found: /usr
Finished running configuration script for thorn HDF5.

*****
Running configuration script for thorn OPENPMD:
OPENPMD selected, but OPENPMD_DIR not set. Checking pkg-config ...
OPENPMD not found. Checking standard paths ...
OPENPMD not found.
Using bundled openPMD...
Finished running configuration script for thorn OPENPMD.

*****
Running configuration script for thorn SILO:
SILO selected, but SILO_DIR not set. Checking pkg-config ...
SILO not found. Checking standard paths ...
SILO not found.
Using bundled Silo...
Finished running configuration script for thorn SILO.
Checking consistency...
Creating Thorn-Flesh bindings...
  Creating implementation bindings...
  Creating parameter bindings...
  Creating variable bindings...
  Creating schedule bindings...
  Creating function bindings...
  Generating arguments...
CST finished.
Checking status of thorn zlib
Checking status of thorn CoordBase
Checking status of thorn NSIMD
Checking status of thorn yaml_cpp
Checking status of thorn ADMCoupling
Checking status of thorn SummationByParts
Checking status of thorn ADMMacros
Checking status of thorn ADMMass
Checking status of thorn AEILocalInterp
Checking status of thorn BLAS

```

Checking status of thorn Baikal
Checking status of thorn BaikalVacuum
Checking status of thorn Boundary
Checking status of thorn GenericFD
Checking status of thorn CycleClock

Checking status of thorn Vectors
Checking status of thorn IOUtil
Checking status of thorn Fortran
Checking status of thorn CarpetRegridTest
Checking status of thorn CarpetTracker
Checking status of thorn Constants
Checking status of thorn Convert_to_HydroBase
Checking status of thorn CoordGauge
Checking status of thorn LAPACK
Checking status of thorn TensorTypes
Checking status of thorn CoordinatesSymmetry
Checking status of thorn DemoInterp
Checking status of thorn Dissipation
Checking status of thorn DistortedBHIVP
Checking status of thorn EOS_Base
Checking status of thorn EOS_IdealFluid
Checking status of thorn EinsteinExact_Test
Checking status of thorn EllBase
Checking status of thorn Exact
Checking status of thorn Extract
Checking status of thorn FFTW3
Checking status of thorn FishboneMoncriefID
Checking status of thorn FleshInfo
Checking status of thorn pthreads
Checking status of thorn GSL
Checking status of thorn GiRaFFE_to_HydroBase
Checking status of thorn GlobalDerivative
Checking status of thorn Socket
Checking status of thorn HelloWorld
Checking status of thorn HighOrderWaveTest
Checking status of thorn HydroBase
Checking status of thorn IDAnalyticBH
Checking status of thorn Hydro_InitExcision
Checking status of thorn IDAxiBrillBH
Checking status of thorn IDAxiOddBrillBH
Checking status of thorn IDConstraintViolate
Checking status of thorn IDFileADM
Checking status of thorn IDLinearWaves
Checking status of thorn IDScalarWave
Checking status of thorn IDScalarWaveC
Checking status of thorn IDScalarWaveCXX
Checking status of thorn IDScalarWaveElliptic
Checking status of thorn IDWaveMoL
Checking status of thorn ID_converter_GiRaFFE
Checking status of thorn ID_converter_ILGRMHD
Checking status of thorn IOASCII
Checking status of thorn IOBasic
Checking status of thorn libjpeg
Checking status of thorn InitBase
Checking status of thorn InterpToArray
Checking status of thorn LORENE
Checking status of thorn LeanBSSNMOL
Checking status of thorn LocalInterp
Checking status of thorn LocalInterp2
Checking status of thorn LocalReduce
Checking status of thorn ML_BSSN_Test
Checking status of thorn ML_CCZ4_Test
Checking status of thorn ML_WaveToy_Test
Checking status of thorn MoL
Checking status of thorn NPScalars
Checking status of thorn NPScalars_Proca
Checking status of thorn NRPyEllipticET
Checking status of thorn NaNCatcher
Checking status of thorn NewRad
Checking status of thorn NaNChecker
Checking status of thorn Nice
Checking status of thorn Noise
Checking status of thorn Norms
Checking status of thorn NullDecomp
Checking status of thorn NullGrid
Checking status of thorn NullVars
Checking status of thorn OpenSSL

Checking status of thorn Outflow
Checking status of thorn TATeLLiptic
Checking status of thorn ProcaBase
Checking status of thorn ProcaEvolve
Checking status of thorn Proca_simpleID
Checking status of thorn PunctureTracker
Checking status of thorn ReductionTest
Checking status of thorn ReductionTest2
Checking status of thorn ReductionTest3
Checking status of thorn ReflectionSymmetry
Checking status of thorn RegridSyncTest
Checking status of thorn RotatingDBHIVP
Checking status of thorn SGRID
Checking status of thorn SampleBoundary
Checking status of thorn SampleIO
Checking status of thorn ScalarBase
Checking status of thorn ScalarEvolve
Checking status of thorn Seed_Magnetic_Fields
Checking status of thorn SlabTest
Checking status of thorn ScalarInit
Checking status of thorn SphericalSurface
Checking status of thorn StaticConformal
Checking status of thorn SymBase
Checking status of thorn SystemStatistics
Checking status of thorn TerminationTrigger
Checking status of thorn TestArrays
Checking status of thorn TestComplex
Checking status of thorn TestCoordinates
Checking status of thorn TestFortranCrayPointers
Checking status of thorn TestFortranDependencies2
Checking status of thorn TestFpointerNULL
Checking status of thorn TestFreeF90
Checking status of thorn TestGlobalReduce
Checking status of thorn TestInclude1
Checking status of thorn TestInclude2
Checking status of thorn TestInterpolate
Checking status of thorn TestLocalInterp2
Checking status of thorn TestLocalReduce
Checking status of thorn TestLoop
Checking status of thorn TestMath
Checking status of thorn TestMoL
Checking status of thorn TestODESolvers
Checking status of thorn TestPar
Checking status of thorn TestReadWrite
Checking status of thorn TestSchedule
Checking status of thorn TestReduce
Checking status of thorn TestStrings
Checking status of thorn TestTable
Checking status of thorn TestTimers
Checking status of thorn TestTypes
Checking status of thorn Time
Checking status of thorn TimerInfo
Checking status of thorn TmunuBase
Checking status of thorn Trigger
Checking status of thorn TwoPunctures
Checking status of thorn TwoPunctures_BBHSF
Checking status of thorn TwoPunctures_KerrProca
Checking status of thorn VolumeIntegrals_GRMHD
Checking status of thorn VolumeIntegrals_vacuum
Checking status of thorn WatchDog
Checking status of thorn WaveBinarySource
Checking status of thorn WaveToy1DF77
Checking status of thorn WaveToy2DF77
Checking status of thorn WaveToyExtra
Checking status of thorn particle_tracerET
Checking status of thorn smallbPoyntET
Checking status of thorn CactusBindings
Checking status of thorn hwloc
Checking status of thorn CartGrid3D
Checking status of thorn Arith
Checking status of thorn ADMDerivatives
Checking status of thorn CarpetProlongateTest
Checking status of thorn TGRtensor

Checking status of thorn EHFinder
Checking status of thorn EOS_Polytrope
Checking status of thorn EllSOR
Checking status of thorn ShiftedKerrSchild
Checking status of thorn IDBrillData
Checking status of thorn IOJpeg
Checking status of thorn LlamaWaveToy
Checking status of thorn ML_BSSN_Helper
Checking status of thorn ML_CCZ4_Helper
Checking status of thorn Meudon_Bin_BH
Checking status of thorn Meudon_Bin_NS
Checking status of thorn Meudon_Mag_NS
Checking status of thorn NullInterp
Checking status of thorn TestFortranDependencies1
Checking status of thorn WaveMoL
Checking status of thorn WaveToyC
Checking status of thorn WaveToyCXX
Checking status of thorn WaveToyF77
Checking status of thorn WaveToyF90
Checking status of thorn WaveToyFreeF90
Checking status of thorn MPI
Checking status of thorn ADMAAnalysis
Checking status of thorn ADMBase
Checking status of thorn AHFinder
Checking status of thorn SpaceMask
Checking status of thorn LoopControl
Checking status of thorn CalcK
Checking status of thorn DNSdata
Checking status of thorn EOS_Hybrid
Checking status of thorn Formaline
Checking status of thorn HTTPD
Checking status of thorn PUGH
Checking status of thorn MemSpeed
Checking status of thorn Minkowski
Checking status of thorn ModifiedSchwarzschildBL
Checking status of thorn NoMPI
Checking status of thorn NullEvolve
Checking status of thorn NullNews
Checking status of thorn PUGHInterp
Checking status of thorn PUGHReduce
Checking status of thorn PUGHSlab
Checking status of thorn Slab
Checking status of thorn QuasiLocalMeasures
Checking status of thorn SetMask_SphericalSurface
Checking status of thorn ShiftedGaugeWave
Checking status of thorn SystemTopology
Checking status of thorn TOVSolver
COMPILING configs/sim/bindings/build/PUGHReduce/cctk_ThornBindings.c
Checking status of thorn TestBoundaries
COMPILING CactusPUGH/PUGHInterp/src/Startup.c
COMPILING CactusPUGH/PUGHSlab/src/Mapping.c
Checking status of thorn TestLoopControl
COMPILING configs/sim/bindings/build/PUGHSlab/cctk_ThornBindings.c
COMPILING CactusPUGH/PUGHInterp/src/InterpGridArrays.c
Checking status of thorn TimerReport
Checking status of thorn Vaidya2
Checking status of thorn WeylScal4
Checking status of thorn Cactus
COMPILING CactusPUGH/PUGHSlab/src/GetHyperslab.c
COMPILING CactusPUGH/PUGHSlab/src/DatatypeConversion.c
COMPILING CactusPUGH/PUGHReduce/src/ReductionAvg.c
Creating /home/anisha/Cactus/Cactus/configs/sim/lib/libthorn_PUGHSlab.a
COMPILING configs/sim/bindings/build/PUGHInterp/cctk_ThornBindings.c
Creating /home/anisha/Cactus/Cactus/configs/sim/lib/libthorn_PUGHInterp.a
COMPILING CactusPUGH/PUGHReduce/src/ReductionCount.c
COMPILING CactusPUGH/PUGHReduce/src/ReductionMax.c
COMPILING CactusPUGH/PUGHReduce/src/ReductionMin.c


```
Creating Formaline tarball for thorn ADMAAnalysis
Creating Formaline tarball for thorn ADMBase
Creating Formaline tarball for thorn AHFinder
Creating Formaline tarball for thorn CalcK
Creating Formaline tarball for thorn DNSdata
Creating Formaline tarball for thorn EOS_Hybrid
Creating Formaline tarball for thorn Formaline
Creating Formaline tarball for thorn HTTPD
Creating Formaline tarball for thorn LoopControl
Creating Formaline tarball for thorn MemSpeed
Creating Formaline tarball for thorn NoMPI
Creating Formaline tarball for thorn NullEvolve
Creating Formaline tarball for thorn NullNews
Creating Formaline tarball for thorn PUGH
COMPILING CactusPUGH/PUGHReduce/src/ReductionNorm1.c
Creating Formaline tarball for thorn QuasiLocalMeasures
Creating Formaline tarball for thorn SetMask_SphericalSurface
Creating Formaline tarball for thorn ShiftedGaugeWave
Creating Formaline tarball for thorn Slab
Creating Formaline tarball for thorn SpaceMask
Creating Formaline tarball for thorn SystemTopology
Creating Formaline tarball for thorn TOVSolver
Creating Formaline tarball for thorn TestBoundaries
Creating Formaline tarball for thorn TestLoopControl
COMPILING CactusPUGH/PUGHReduce/src/ReductionNorm2.c
Creating Formaline tarball for thorn TimerReport
Creating Formaline tarball for thorn Vaidya2
Creating Formaline tarball for thorn WaveToyCXX
Creating Formaline tarball for thorn WaveToyF90
Creating Formaline tarball for thorn WaveToyFreeF90
Checking status of thorn ADIOS2
Checking status of thorn AMReX
Checking status of thorn HDF5
COMPILING CactusPUGH/PUGHReduce/src/ReductionNorm3.c
Checking status of thorn CT_Analytic
Checking status of thorn CarpetLib
Checking status of thorn CarpetMask
Checking status of thorn Silo
Checking status of thorn openPMD
Checking status of thorn Cartoon2D
COMPILING CactusPUGH/PUGHReduce/src/ReductionNorm4.c
openPMD: Preparing directory structure...
Checking status of thorn EOS_Omni
Checking status of thorn FLRWSolver
COMPILING CactusPUGH/PUGHReduce/src/ReductionNormInf.c
Checking status of thorn GRHayLHD
openPMD: Unpacking archive...
~/Cactus/Cactus/configs/sim/scratch/build/openPMD ~/Cactus/Cactus/configs/sim/scratch
Checking status of thorn GRHayLID
openPMD: Applying patches...
~/Cactus/Cactus/configs/sim/scratch/build/openPMD/openPMD-api-0.16.0 ~/Cactus/Cactus/configs/s
im/scratch/build/openPMD ~/Cactus/Cactus/configs/sim/scratch
patching file CMakeLists.txt
patching file .patch_tmp
~/Cactus/Cactus/configs/sim/scratch/build/openPMD ~/Cactus/Cactus/configs/sim/scratch
openPMD: Configuring...
Checking status of thorn GRHayLib
Checking status of thorn GRHydro_InitData
COMPILING CactusPUGH/PUGHReduce/src/ReductionSum.c
-- The C compiler identification is GNU 13.3.0
COMPILING CactusPUGH/PUGHReduce/src/Startup.c
COMPILING configs/sim/bindings/build/GRHydro_InitData/cctk_ThornBindings.c
COMPILING CactusPUGH/PUGHReduce/src/Reduction.c
COMPILING CactusPUGH/PUGHReduce/src/ReduceGA.c
COMPILING CactusPUGH/PUGHReduce/src/ReduceArraysGlobally.c
Checking status of thorn GaugeWave
Checking status of thorn GiRaFFE
-- The CXX compiler identification is GNU 13.3.0
Checking status of thorn GiRaFFEfood
Checking status of thorn HTTPDExtra
Checking status of thorn Hydro_Analysis
Checking status of thorn Hydro_RNSID
```

```

Checking status of thorn IOHDF5Util
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_C2P2C.F90
Checking status of thorn IllinoisGRMHD
Checking status of thorn KerrSchild
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_C2P2CM.F90
Checking status of thorn ML_ADMConstraints
Checking status of thorn ML_ADMQuantities
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_Con2Prim.F90
-- Detecting C compiler ABI info
Checking status of thorn ML_BSSN
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Con2Prim.f90:1597:31:

1597 |   GRHydro_init_data_reflevel = aint(log10(dble(cctk_levfac(1)))/log10(2.0d0))
      |                               1
Warning: Possible change of value in conversion from REAL(8) to INTEGER(4) at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wconversion-wconversion[8];[8]
Checking status of thorn ML_CCZ4
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Con2Prim.f90:2878:15:

2878 |   integer didit,i,j,k,nx,ny,nz
      |           1
Warning: Unused variable 'didit' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable-wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Con2Prim.f90:2878:17:

2878 |   integer didit,i,j,k,nx,ny,nz
      |           1
Warning: Unused variable 'i' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable-wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Con2Prim.f90:2878:19:

2878 |   integer didit,i,j,k,nx,ny,nz
      |           1
Warning: Unused variable 'j' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable-wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Con2Prim.f90:2878:21:

2878 |   integer didit,i,j,k,nx,ny,nz
      |           1
Warning: Unused variable 'k' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable-wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Con2Prim.f90:2892:19:

2892 |   real*8   :: xpress = 0.0d0
      |           1
Warning: Unused variable 'xpress' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable-wunused-variable[8];[8]
Creating /home/anisha/Cactus/Cactus/configs/sim/lib/libthorn_PUGHReduce.a
Checking status of thorn ML_WaveToy
COMPILING McLachlan/ML_BSSN/src/ML_BSSN_EvolutionInteriorSplitBy3.cc
COMPILING McLachlan/ML_CCZ4/src/ML_CCZ4_EvolutionAnalysisInterior.cc
COMPILING McLachlan/ML_BSSN/src/ML_BSSN_InitialADMBase2BoundaryScalar.cc
COMPILING McLachlan/ML_BSSN/src/ML_BSSN_InitialADMBase2Interior.cc
-- Detecting C compiler ABI info - done
-- Check for working C compiler: /usr/bin/gcc - skipped
-- Detecting C compile features
-- Detecting C compile features - done
COMPILING McLachlan/ML_BSSN/src/RegisterMoL.cc
-- Detecting CXX compiler ABI info
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_ReconstructTest.F90
-- Detecting CXX compiler ABI info - done
-- Check for working CXX compiler: /usr/bin/g++ - skipped
-- Detecting CXX compile features
-- Detecting CXX compile features - done
-- openPMD-api superbuild: ON
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_ShockTube.F90
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTube.f90:4533:25:

4533 |   velzl, velzr, epsl, epsr, templ, tempr, yel, yer
      |           1
Warning: Unused variable 'epsl' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable-wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTube.f90:4533:31:

```

```
4533 |           velzl, velzr, epsl, epsr, templ, tempr, yel, yer  
      |           1
```

Warning: Unused variable 'epsr' declared at (1) [<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable>];
COMPILING McLachlan/ML_BSSN/src/RegisterSymmetries.cc

```

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTube.f90:2755:73:
2755 |           if ( ((change_shock_direction==0).and.(direction .lt. 0.0d0)).or.&
      |           ^
Warning: 'direction' may be used uninitialized [0];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[0];[0]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTube.f90:2680:21:
2680 |     REAL*8 :: direction, det
      |           ^
note: 'direction' was declared here
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTube.f90:2761:27:
2761 |           eps(i,j,k) = epsl
      |           ^
Warning: 'epsl' may be used uninitialized [0];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[0];[0]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTube.f90:2682:25:
2682 |           velzl, velzr, epsl, epsr
      |           ^
note: 'epsl' was declared here
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTube.f90:2757:27:
2757 |           rho(i,j,k) = rhol
      |           ^
Warning: 'rho1' may be used uninitialized [0];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[0];[0]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTube.f90:2681:16:
2681 |     REAL*8 :: rho1, rhor, velxl, velxr, velyl, velyr, &
      |           ^
note: 'rho1' was declared here
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTube.f90:4601:73:
4601 |           if ( ((change_shock_direction==0).and.(direction .lt. 0.0d0)).or.&
      |           ^
Warning: 'direction' may be used uninitialized [0];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[0];[0]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTube.f90:4531:21:
4531 |     REAL*8 :: direction, det
      |           ^
note: 'direction' was declared here
COMPILING McLachlan/ML_BSSN/src/Startup.cc
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_ShockTubeM.F90
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_Only_Atmo.F90
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:5005:15:
5005 |     REAL*8 :: det
      |           1
Warning: Unused variable 'det' declared at (1) [0];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[0];[0]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:7851:15:
7851 |     REAL*8 :: det
      |           1
Warning: Unused variable 'det' declared at (1) [0];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[0];[0]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:7849:86:
7849 |     INTEGER*4 :: i, j, k, kc, nx, ny, nz, sten, stenp1, minsum, maxsum, inew, jnew, knew
      |           1
Warning: Unused variable 'knew' declared at (1) [0];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[0];[0]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Only_Atmo.f90:2207:43:
2207 |         atmo = atmo * initial_atmosphere_factor
      |           ^
Warning: 'atmo' may be used uninitialized [0];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[0];[0]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Only_Atmo.f90:2182:18:

```

```

2182 | REAL*8 det, atmo
      |           ^
note: 'atmo' was declared here
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_ReadConformalData.F90
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ReadConformalData.f90:27
18:27:

2718 | INTEGER*4 :: i,j,k,handle,ierr
      |                   1
Warning: Unused variable 'handle' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/War
ning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ReadConformalData.f90:27
28:21:

2728 | REAL*8 :: xpress(1) = 0.0d0
      |           1
Warning: Unused variable 'xpress' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/War
ning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ReadConformalData.f90:27
75:84:

2775 | if (initial_atmosphere_factor > 0.0) rho_min = rho_min * initial_atmosphere_factor
      |                                           ^
Warning: 'rho_min' may be used uninitialized [8];https://gcc.gnu.org/onlinedocs/gcc/War
ning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ReadConformalData.f90:27
19:19:

2719 | REAL*8 :: rho_min, det
      |           ^
note: 'rho_min' was declared here
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_SimpleWave.F90
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_SimpleWave.f90:2664:14:

2664 | REAL*8 :: dr, k1, k2, k3, k4, in_data, old_data, source_data, new_data, c_0, det, pi
      |                   1
Warning: Unused variable 'dr' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/War
ning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_SimpleWave.f90:2664:39:

2664 | REAL*8 :: dr, k1, k2, k3, k4, in_data, old_data, source_data, new_data, c_0, det, pi
      |                   1
Warning: Unused variable 'in_data' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Wa
rning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_SimpleWave.f90:2664:18:

2664 | REAL*8 :: dr, k1, k2, k3, k4, in_data, old_data, source_data, new_data, c_0, det, pi
      |                   1
Warning: Unused variable 'k1' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/War
ning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_SimpleWave.f90:2664:22:

2664 | REAL*8 :: dr, k1, k2, k3, k4, in_data, old_data, source_data, new_data, c_0, det, pi
      |                   1
Warning: Unused variable 'k2' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/War
ning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_SimpleWave.f90:2664:26:

2664 | REAL*8 :: dr, k1, k2, k3, k4, in_data, old_data, source_data, new_data, c_0, det, pi
      |                   1
Warning: Unused variable 'k3' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/War
ning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_SimpleWave.f90:2664:30:

2664 | REAL*8 :: dr, k1, k2, k3, k4, in_data, old_data, source_data, new_data, c_0, det, pi
      |                   1
Warning: Unused variable 'k4' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/War
ning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_SimpleWave.f90:2664:72:

2664 | REAL*8 :: dr, k1, k2, k3, k4, in_data, old_data, source_data, new_data, c_0, det, pi
      |                   1

```

Warning: Unused variable 'new_data' declared at (1) [8];;https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;]

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_SimpleWave.f90:2664:49:

```
2664 | REAL*8 :: dr, k1, k2, k3, k4, in_data, old_data, source_data, new_data, c_0, det, pi
      |                                                    1
```

Warning: Unused variable 'old_data' declared at (1) [8];;https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;]

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_SimpleWave.f90:2664:62:

```
2664 | REAL*8 :: dr, k1, k2, k3, k4, in_data, old_data, source_data, new_data, c_0, det, pi
      |                                                    1
```

Warning: Unused variable 'source_data' declared at (1) [8];;https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;]

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_SimpleWave.f90:2671:21:

```
2671 | REAL*8 :: xpress(1) = 0.0d0
      |                1
```

Warning: Unused variable 'xpress' declared at (1) [8];;https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;]

```

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:3155:82:
3155 |         if ( ((change_shock_direction==0).and.(direction .lt. DIRECTION_TINY)).or.&
      |         ^
Warning: 'direction' may be used uninitialized [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:2679:21:
2679 |     REAL*8 :: direction, det, DIRECTION_TINY
      |         ^
note: 'direction' was declared here
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:3164:27:
3164 |         eps(i,j,k) = epsl
      |         ^
Warning: 'epsl' may be used uninitialized [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:2681:25:
2681 |         velzl, velzr, epsl, epsr
      |         ^
note: 'epsl' was declared here
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:3163:30:
3163 |         vel(i,j,k,3) = velzl
      |         ^
Warning: 'velzl' may be used uninitialized [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:2681:12:
2681 |         velzl, velzr, epsl, epsr
      |         ^
note: 'velzl' was declared here
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:3162:30:
3162 |         vel(i,j,k,2) = velyl
      |         ^
Warning: 'velyl' may be used uninitialized [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:2680:43:
2680 |     REAL*8 :: rho1, rhor, velxl, velxr, velyl, velyr, &
      |         ^
note: 'velyl' was declared here
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:3161:30:
3161 |         vel(i,j,k,1) = velxl
      |         ^
Warning: 'velxl' may be used uninitialized [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:2680:29:
2680 |     REAL*8 :: rho1, rhor, velxl, velxr, velyl, velyr, &
      |         ^
note: 'velxl' was declared here
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:3160:27:
3160 |         rho(i,j,k) = rho1
      |         ^
Warning: 'rho1' may be used uninitialized [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_ShockTubeM.f90:2680:16:
2680 |     REAL*8 :: rho1, rhor, velxl, velxr, velyl, velyr, &
      |         ^
note: 'rho1' was declared here
COMPILING EinsteinEvolve/GRHydro_InitData/src/CheckParam.c
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_P2C2P.F90
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_P2C2PM.F90
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_P2C2PM_polytype.F90
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_P2C2PM_polytype.f90:217:
4:15:

```

```

2174 | integer didit,i,j,k,nx,ny,nz
      |           1
Warning: Unused variable 'didit' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_P2C2PM_polytype.f90:217
4:17:

2174 | integer didit,i,j,k,nx,ny,nz
      |           1
Warning: Unused variable 'i' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_P2C2PM_polytype.f90:217
4:19:

2174 | integer didit,i,j,k,nx,ny,nz
      |           1
Warning: Unused variable 'j' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_P2C2PM_polytype.f90:217
4:21:

2174 | integer didit,i,j,k,nx,ny,nz
      |           1
Warning: Unused variable 'k' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_MonopoleM.F90
-- Found MPI_CXX: /usr/lib/x86_64-linux-gnu/openmpi/lib/libmpi_cxx.so (found version "3.1")
-- Found MPI: TRUE (found version "3.1") found components: CXX
-- Downloading nlohmann_json ...
-- nlohmann_json source: https://github.com/nlohmann/json/archive/refs/tags/v3.11.3.tar.gz (ht
tps://github.com/nlohmann/json/archive/refs/tags/v3.11.3.tar.gz)
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2677:17:

2677 | REAL*8 :: bvcx1,bvcyl,bvcz1,bvcxr,bvcyr,bvczr
      |           1
Warning: Unused variable 'bvcx1' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2677:35:

2677 | REAL*8 :: bvcx1,bvcyl,bvcz1,bvcxr,bvcyr,bvczr
      |           1
Warning: Unused variable 'bvcxr' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2677:23:

2677 | REAL*8 :: bvcx1,bvcyl,bvcz1,bvcxr,bvcyr,bvczr
      |           1
Warning: Unused variable 'bvcyl' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2677:41:

2677 | REAL*8 :: bvcx1,bvcyl,bvcz1,bvcxr,bvcyr,bvczr
      |           1
Warning: Unused variable 'bvcyr' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2677:29:

2677 | REAL*8 :: bvcx1,bvcyl,bvcz1,bvcxr,bvcyr,bvczr
      |           1
Warning: Unused variable 'bvcz1' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2677:47:

2677 | REAL*8 :: bvcx1,bvcyl,bvcz1,bvcxr,bvcyr,bvczr
      |           1
Warning: Unused variable 'bvczr' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2674:21:

2674 | REAL*8 :: direction, det
      |           1
Warning: Unused variable 'direction' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/

```



```

Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2676:25:

2676 |         velzl, velzr, epsl, epsr
      |                               1
Warning: Unused variable 'epsl' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2676:31:

2676 |         velzl, velzr, epsl, epsr
      |                               1
Warning: Unused variable 'epsr' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2675:16:

2675 |     REAL*8 :: rho1, rho, velxl, velxr, velyl, velyr, &
      |                               1
Warning: Unused variable 'rho1' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2675:22:

2675 |     REAL*8 :: rho1, rho, velxl, velxr, velyl, velyr, &
      |                               1
Warning: Unused variable 'rho' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2678:27:

2678 |     REAL*8 :: ux,uy,uz,ut,tmp,tmp2,tmp3
      |                               1
Warning: Unused variable 'tmp' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2678:32:

2678 |     REAL*8 :: ux,uy,uz,ut,tmp,tmp2,tmp3
      |                               1
Warning: Unused variable 'tmp2' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2678:37:

2678 |     REAL*8 :: ux,uy,uz,ut,tmp,tmp2,tmp3
      |                               1
Warning: Unused variable 'tmp3' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2678:23:

2678 |     REAL*8 :: ux,uy,uz,ut,tmp,tmp2,tmp3
      |                               1
Warning: Unused variable 'ut' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2678:14:

2678 |     REAL*8 :: ux,uy,uz,ut,tmp,tmp2,tmp3
      |                               1
Warning: Unused variable 'ux' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2678:17:

2678 |     REAL*8 :: ux,uy,uz,ut,tmp,tmp2,tmp3
      |                               1
Warning: Unused variable 'uy' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2678:20:

2678 |     REAL*8 :: ux,uy,uz,ut,tmp,tmp2,tmp3
      |                               1
Warning: Unused variable 'uz' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2675:29:

2675 |     REAL*8 :: rho1, rho, velxl, velxr, velyl, velyr, &
      |                               1
Warning: Unused variable 'velxl' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;

```

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2675:36:

```
2675 | REAL*8 :: rho1, rho2, velx1, velx2, vely1, vely2, &  
      |                                     1
```

Warning: Unused variable 'velx2' declared at (1) [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable> [8];

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2675:43:

```
2675 | REAL*8 :: rho1, rho2, velx1, velx2, vely1, vely2, &  
      |                                     1
```

Warning: Unused variable 'vely2' declared at (1) [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable> [8];

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2675:50:

```
2675 | REAL*8 :: rho1, rho2, velx1, velx2, vely1, vely2, &  
      |                                     1
```

Warning: Unused variable 'vely2' declared at (1) [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable> [8];

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2676:12:

```
2676 |          velz1, velz2, eps1, eps2  
      |                1
```

Warning: Unused variable 'velz1' declared at (1) [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable> [8];

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_MonopoleM.f90:2676:19:

```
2676 |          velz1, velz2, eps1, eps2  
      |                1
```

Warning: Unused variable 'velz2' declared at (1) [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable> [8];

```

COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_CylindricalExplosionM.F90
COMPILING McLachlan/ML_CCZ4/src/ML_CCZ4_EvolutionInteriorSplitBy3.cc
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_RotorM.F90
Checking status of thorn Multipole
COMPILING configs/sim/bindings/build/Multipole/cctk_ThornBindings.c
Checking status of thorn NullConstr
COMPILING EinsteinAnalysis/Multipole/src/interpolate.cc
COMPILING PITTNulCode/NullConstr/src/NullConstr_AuxConstr.F90
COMPILING EinsteinAnalysis/Multipole/src/multipole.cc
COMPILING PITTNulCode/NullConstr/src/NullConstr_Util.F90
-- Using the multi-header code from /home/anisha/Cactus/Cactus/configs/sim/scratch/build/openP
MD/openPMD-api-0.16.0/build/_deps/fetchednlohmann_json-src/include/
-- Downloading toml11 ...
-- toml11 source: https://github.com/ToruNiina/toml11/archive/refs/tags/v3.7.1.tar.gz (http
s://github.com/ToruNiina/toml11/archive/refs/tags/v3.7.1.tar.gz)
COMPILING PITTNulCode/NullConstr/src/NullConstr_R00.F90
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:750:31:

    750 |     k_00,k_01,k_02,k_03,k_04,k_11,k_12,k_13,k_14, &
        |                                     1
Warning: Unused dummy argument 'k_11' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:750:36:

    750 |     k_00,k_01,k_02,k_03,k_04,k_11,k_12,k_13,k_14, &
        |                                     1
Warning: Unused dummy argument 'k_12' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:750:41:

    750 |     k_00,k_01,k_02,k_03,k_04,k_11,k_12,k_13,k_14, &
        |                                     1
Warning: Unused dummy argument 'k_13' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:750:46:

    750 |     k_00,k_01,k_02,k_03,k_04,k_11,k_12,k_13,k_14, &
        |                                     1
Warning: Unused dummy argument 'k_14' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:751:6:

    751 |     k_22,k_23,k_24,k_33,k_34, &
        |         1
Warning: Unused dummy argument 'k_22' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:751:11:

    751 |     k_22,k_23,k_24,k_33,k_34, &
        |         1
Warning: Unused dummy argument 'k_23' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:751:16:

    751 |     k_22,k_23,k_24,k_33,k_34, &
        |         1
Warning: Unused dummy argument 'k_24' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:751:21:

    751 |     k_22,k_23,k_24,k_33,k_34, &
        |         1
Warning: Unused dummy argument 'k_33' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:751:26:

    751 |     k_22,k_23,k_24,k_33,k_34, &
        |         1
Warning: Unused dummy argument 'k_34' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:756:26:

```

```

756 | u_00,u_01,u_02,u_03,u_04,u_11,u_12,u_13,u_14, &
      |                               1
Warning: Unused dummy argument 'u_04' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:757:16:

757 | u_22,u_23,u_24,u_33,u_34, &
      |                               1
Warning: Unused dummy argument 'u_24' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:758:31:

758 | ub_00,ub_01,ub_02,ub_03,ub_04,ub_11,ub_12,ub_13,ub_14, &
      |                               1
Warning: Unused dummy argument 'ub_04' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:759:31:

759 | ub_22,ub_23,ub_24,ub_33,ub_34)
      |                               1
Warning: Unused dummy argument 'ub_34' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:746:46:

746 | w_00,w_01,w_02,w_03,w_04,w_11,w_12,w_13,w_14, &
      |                               1
Warning: Unused dummy argument 'w_14' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:747:16:

747 | w_22,w_23,w_24,w_33,w_34, &
      |                               1
Warning: Unused dummy argument 'w_24' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R00.f90:747:26:

747 | w_22,w_23,w_24,w_33,w_34, &
      |                               1
Warning: Unused dummy argument 'w_34' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[8]
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_AdvectedLoopM.F90
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AdvectedLoopM.f90:2679:16:

2679 | REAL*8 :: dx_d, dy_d, dz_d, dx_x, dz_x
      |                               1
Warning: Unused variable 'dx_d' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AdvectedLoopM.f90:2679:22:

2679 | REAL*8 :: dx_d, dy_d, dz_d, dx_x, dz_x
      |                               1
Warning: Unused variable 'dy_d' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AdvectedLoopM.f90:2679:28:

2679 | REAL*8 :: dx_d, dy_d, dz_d, dx_x, dz_x
      |                               1
Warning: Unused variable 'dz_d' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]

```

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AdvectedLoopM.f90:2673:28:

```
2673 | REAL*8 :: r_loop,A_loop,pi
      |                               1
```

Warning: Unused variable 'pi' declared at (1) [<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable>];
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AdvectedLoopM.f90:2809:57:

```
2809 |           vel(i,j,k,3)=cos_theta*vzval+sin_theta*vxval
      |                               ^
```

Warning: 'vxval' may be used uninitialized [<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wmaybe-uninitialized>];
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AdvectedLoopM.f90:2668:28:

```
2668 | REAL*8 :: det,radius,vxval,vyval,vzval,gam
      |                               ^
```

note: 'vxval' was declared here

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AdvectedLoopM.f90:2808:31:

```
2808 |           vel(i,j,k,2)=vyval
      |                               ^
```

Warning: 'vyval' may be used uninitialized [<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wmaybe-uninitialized>];
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AdvectedLoopM.f90:2668:34:

```
2668 | REAL*8 :: det,radius,vxval,vyval,vzval,gam
      |                               ^
```

note: 'vyval' was declared here

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AdvectedLoopM.f90:2809:57:

```
2809 |           vel(i,j,k,3)=cos_theta*vzval+sin_theta*vxval
      |                               ^
```

Warning: 'vzval' may be used uninitialized [<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wmaybe-uninitialized>];
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AdvectedLoopM.f90:2668:40:

```
2668 | REAL*8 :: det,radius,vxval,vyval,vzval,gam
      |                               ^
```

note: 'vzval' was declared here

CMake Deprecation Warning at build/_deps/fetchedtom111-src/CMakeLists.txt:1 (cmake_minimum_required):

Compatibility with CMake < 3.5 will be removed from a future version of CMake.

Update the VERSION argument <min> value or use a ...<max> suffix to tell CMake that the project does not need compatibility with older versions.

COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_AlftenWaveM.F90

-- Found MPI_C: /usr/lib/x86_64-linux-gnu/openmpi/lib/libmpi.so (found version "3.1")

-- Found MPI: TRUE (found version "3.1")

-- Found ADIOS2: /usr/local/lib/cmake/adios2/adios2-config.cmake (found suitable version "2.10.0.607", minimum required is "2.7.0") found components: C CXX MPI

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AlftenWaveM.f90:2676:19:

```
2676 | REAL*8 :: Bvecx_d, Bvecz_d
      |                               1
```

Warning: Unused variable 'bvecx_d' declared at (1) [<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable>];
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AlftenWaveM.f90:2676:28:

```
2676 | REAL*8 :: Bvecx_d, Bvecz_d
      |                               1
```

Warning: Unused variable 'bvecz_d' declared at (1) [<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wunused-variable>];

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AlfvenWaveM.f90:2671:24:

```
2671 | REAL*8 :: Bxval, Byval, Bzval
      |                                     1
```

Warning: Unused variable 'byval' declared at (1) [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable>[8];

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AlfvenWaveM.f90:2671:31:

```
2671 | REAL*8 :: Bxval, Byval, Bzval
      |                                     1
```

Warning: Unused variable 'bzval' declared at (1) [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable>[8];

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AlfvenWaveM.f90:2677:18:

```
2677 | REAL*8 :: velx_d, velz_d
      |                                     1
```

Warning: Unused variable 'velx_d' declared at (1) [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable>[8];

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AlfvenWaveM.f90:2677:26:

```
2677 | REAL*8 :: velx_d, velz_d
      |                                     1
```

Warning: Unused variable 'velz_d' declared at (1) [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable>[8];

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AlfvenWaveM.f90:2669:23:

```
2669 | REAL*8 :: vxval,vyval,vzval, valf
      |                                     1
```

Warning: Unused variable 'vyval' declared at (1) [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable>[8];

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AlfvenWaveM.f90:2669:29:

```
2669 | REAL*8 :: vxval,vyval,vzval, valf
      |                                     1
```

Warning: Unused variable 'vzval' declared at (1) [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable>[8];

openPMD build configuration:

library Version: 0.16.0

openPMD Standard: 1.1.0

C++ Compiler: GNU 13.3.0

/usr/bin/g++

Install with RPATHs: ON

Installation prefix: /home/anisha/Cactus/Cactus/configs/sim/scratch/external/openPMD

bin: bin

lib: lib

include: include

cmake: lib/cmake/openPMD

Build Type: Release

Library: static

CLI Tools: OFF

Examples: OFF

Testing: OFF

Invasive Tests: OFF

Internal VERIFY: ON

Build Options:

MPI: ON

HDF5: OFF

ADIOS2: ON

PYTHON: OFF

CUDA_EXAMPLES: OFF

-- Configuring done (19.4s)

COMPILING EinsteinAnalysis/Multipole/src/utils.cc

-- Generating done (0.0s)

CMake Warning:

Manually-specified variables were not used by the project:

HDF5_ROOT

```
-- Build files have been written to: /home/anisha/Cactus/Cactus/configs/sim/scratch/build/open
PMD/openPMD-api-0.16.0/build
openPMD: Building...
[ 2%] Building CXX object CMakeFiles/openPMD.dir/src/config.cpp.o
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AlfvenWaveM.f90:2752:47:

2752 |             diaglength=range_x*range_y/range_d
      |             ^
Warning: 'range_d' may be used uninitialized [^]8;;https://gcc.gnu.org/onlinedocs/gcc/Warning-
Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized^]8;;^]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_AlfvenWaveM.f90:2673:43:

2673 |     REAL*8 :: range_x,range_y,range_z,range_d
      |             ^
note: 'range_d' was declared here
```

```

COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_Bondi.c
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_BondiM.c
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM.c:373:13: warning:
'static void bl_gcov_func' defined but not used [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-function-Wunused-function[8];[8]
 373 | static void bl_gcov_func( CTK_REAL *x, CTK_REAL gcov[NDIM][NDIM])
      |           ^~~~~~
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM.c:346:13: warning:
'static void setutcon' defined but not used [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-function-Wunused-function[8];[8]
 346 | static void setutcon(CTK_REAL *vcon, CTK_REAL gcov[][NDIM])
      |           ^~~~~~
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM.c:225:13: warning:
'static void dxc_dxs_iso_calc' defined but not used [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-function-Wunused-function[8];[8]
 225 | static void dxc_dxs_iso_calc(CTK_REAL *x_cart, CTK_REAL *x_spher, CTK_REAL dxc_dxs
[NDIM][NDIM] )
      |           ^~~~~~
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM.c:176:13: warning:
'static void dxc_dxs_bl_calc' defined but not used [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-function-Wunused-function[8];[8]
 176 | static void dxc_dxs_bl_calc(CTK_REAL *x_cart, CTK_REAL *x_spher, CTK_REAL dxc_dxs[N
DIM][NDIM] )
      |           ^~~~~~
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM.c:102:13: warning:
'static void bl_to_ks_con' defined but not used [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-function-Wunused-function[8];[8]
 102 | static void bl_to_ks_con(CTK_REAL *x, CTK_REAL blcon[], CTK_REAL kscon[] )
      |           ^~~~~~
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_PoloidalMagFieldM.F90
COMPILING EinsteinAnalysis/Multipole/src/sphericalharmonic.cc
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_Bondi_new.F90
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:2922:71:

2922 | INTEGER*4 :: n_iter, i_extra, doing_extra, keep_iterating, i_increase
      |                                           1
Warning: Unused variable 'i_increase' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:2921:24:

2921 | REAL*8 :: errx, x_orig, x
      |                                           1
Warning: Unused variable 'x_orig' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:2684:22:

2684 | REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auido,buiso
      |                                           1
Warning: Unused variable 'a' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:2684:24:

2684 | REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auido,buiso
      |                                           1
Warning: Unused variable 'b' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:2684:26:

2684 | REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auido,buiso
      |                                           1
Warning: Unused variable 'c' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:2684:20:

2684 | REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auido,buiso
      |                                           1
Warning: Unused variable 'ddf' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:2684:16:

2684 | REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auido,buiso
      |                                           1

```



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Warning: Unused variable 'df' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:2684:13:

2684 | REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auido,buiso
      |          1
Warning: Unused variable 'f' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:2684:30:

2684 | REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auido,buiso
      |          1
Warning: Unused variable 'rsm' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:3053:75:

3053 | INTEGER*4 :: n_iter, i_extra, doing_extra, keep_iterating, i_increase
      |                                                    1
Warning: Unused variable 'i_increase' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:3045:65:

3045 | subroutine find_bondi_solution_bracket(r, rho, u, v, rs, rhos, M, Mdot, Kval, gam,
      | Qdot,rho1,rho2 )
      |                                                    1
Warning: Unused dummy argument 'rhos' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:3045:59:

3045 | subroutine find_bondi_solution_bracket(r, rho, u, v, rs, rhos, M, Mdot, Kval, gam,
      | Qdot,rho1,rho2 )
      |                                                    1
Warning: Unused dummy argument 'rs' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:3050:18:

3050 | REAL*8 :: ur,r_sol, rho_old
      |          1
Warning: Unused variable 'ur' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:3052:28:

3052 | REAL*8 :: errx, x_orig, x
      |          1
Warning: Unused variable 'x_orig' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[

```

```

/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:3017:45:
3017 |         if( doing_extra == 1 ) i_extra=i_extra+1
      |         ^
Warning: 'i_extra' may be used uninitialized [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:2922:30:
2922 |     INTEGER*4 :: n_iter, i_extra, doing_extra, keep_iterating, i_increase
      |         ^
note: 'i_extra' was declared here
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:2761:54:
2761 |         utmp = K * rho*mp**gl_gamma / (gl_gamma - 1.)
      |         ^
Warning: 'k' may be used uninitialized [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:2676:22:
2676 |     INTEGER*4 :: i, j, k, nx, ny, nz, imin, jb,N_points
      |         ^
note: 'k' was declared here
[ 4%] Building CXX object CMakeFiles/openPMD.dir/src/ChunkInfo.cpp.o
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:3166:50:
3166 |         if( doing_extra == 1 ) i_extra=i_extra+1
      |         ^
Warning: 'i_extra' may be used uninitialized [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_Bondi_new.f90:3053:34:
3053 |     INTEGER*4 :: n_iter, i_extra, doing_extra, keep_iterating, i_increase
      |         ^
note: 'i_extra' was declared here
COMPILING EinsteinAnalysis/Multipole/src/integrate.cc
COMPILING EinsteinEvolve/GRHydro_InitData/src/GRHydro_BondiM_new.F90
COMPILING EinsteinAnalysis/Multipole/src/tests.cc
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM_new.f90:2679:22:
2679 |     REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auiso,buiso
      |         1
Warning: Unused variable 'a' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM_new.f90:2679:24:
2679 |     REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auiso,buiso
      |         1
Warning: Unused variable 'b' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM_new.f90:2679:26:
2679 |     REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auiso,buiso
      |         1
Warning: Unused variable 'c' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM_new.f90:2679:20:
2679 |     REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auiso,buiso
      |         1
Warning: Unused variable 'ddf' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warnin-g-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM_new.f90:2679:16:
2679 |     REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auiso,buiso
      |         1
Warning: Unused variable 'df' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable[8];[8]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM_new.f90:2679:13:
2679 |     REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auiso,buiso
      |         1
Warning: Unused variable 'f' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-

```

```

Options.html#index-Wunused-variable-Wunused-variable]8;;]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM_new.f90:2679:30:

2679 | REAL*8 :: f,df,ddf,a,b,c,rsm,roverm,dudr,uisocheck2,auso,buiso
      |                                     1
Warning: Unused variable 'rsm' declared at (1) [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-variable-Wunused-variable]8;;]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM_new.f90:2769:54:

2769 |          utmp = K * rhotmp**gl_gamma / (gl_gamma - 1.)
      |                                     ^
Warning: 'k' may be used uninitialized [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized]8;;]
/home/anisha/Cactus/Cactus/configs/sim/build/GRHydro_InitData/GRHydro_BondiM_new.f90:2670:22:

2670 | INTEGER*4 :: i, j, k, nx, ny, nz, imin, jb,N_points
      |                                     ^
note: 'k' was declared here
Creating /home/anisha/Cactus/Cactus/configs/sim/lib/libthorn_GRHydro_InitData.a
/home/anisha/Cactus/Cactus/configs/sim/build/Multipole/integrate.cc:195:18: warning: 'CCTK_REAL8 Composite2DIntegral(const CCTK_REAL8*, int, int, CCTK_REAL8, CCTK_REAL8)' defined but not used [8];https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wunused-function-Wunused-function]8;;]
  195 | static CCTK_REAL Composite2DIntegral(CCTK_REAL const *f, int nx, int ny, CCTK_REAL hx,
      |                                     ^~~~~~
[ 6%] Building CXX object CMakeFiles/openPMD.dir/src/Dataset.cpp.o
[ 8%] Building CXX object CMakeFiles/openPMD.dir/src/Datatype.cpp.o
Creating /home/anisha/Cactus/Cactus/configs/sim/lib/libthorn_Multipole.a
Checking status of thorn NullExact
COMPILING configs/sim/bindings/build/NullExact/cctk_ThornBindings.c
[ 10%] Building CXX object CMakeFiles/openPMD.dir/src/Error.cpp.o
[ 13%] Building CXX object CMakeFiles/openPMD.dir/src/Format.cpp.o
COMPILING PITTNullCode/NullExact/src/NullExact_Analytic.F90
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:818:2:

  818 |          call CCTK_Warn(1,40,"NullExact_Analytic.F90","NullExact", "INVALID PARAMETERS
      |                                     1
      |                                     FOR LINEARIZED SOLN OF R01")
Warning: Nonconforming tab character at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wtabs-Wtabs]8;;]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:825:2:

  825 |          W_r = 6.0d0*C1*(inv_r**3 - 1.5d0*ii*inv_r**4/omm - inv_r**5/omm**2)
      |                                     1
Warning: Nonconforming tab character at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wtabs-Wtabs]8;;]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:829:2:

  829 |          R01 = dble((W*inv_r + 2.0d0*W_r + 0.5d0*rW_rr - inv_r*ethbU - 0.5d0*ethbU_r)*
      |                                     1
      |                                     einuu)
Warning: Nonconforming tab character at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wtabs-Wtabs]8;;]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:832:2:

  832 |          call CCTK_Warn(1,54,"NullExact_Analytic.F90","NullExact", "unencoded value fo
      |                                     1
      |                                     r l_in_Ylm")
Warning: Nonconforming tab character at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wtabs-Wtabs]8;;]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:995:2:

  995 |          R01_i = R01_out(s,l_in_Ylm,Constant_C1r,Constant_C1i,Constant_C2r,Constant_C2
      |                                     1
      |                                     i &
Warning: Nonconforming tab character at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wtabs-Wtabs]8;;]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:996:2:

  996 |          ,beta0r,beta0i,omm,time)
      |                                     1
Warning: Nonconforming tab character at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error

```

r-and-Warning-Options.html#index-Wtabs-Wtabs]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:997:2:

```
997 |           R01 = R01_i*Ylm(:, :, patchID)
    |           1
```

Warning: Nonconforming tab character at (1) [8];[https://gcc.gnu.org/onlinedocs/gfortran/Errors-and-Warning-Options.html#index-Wtabs-Wtabs\]8;;](https://gcc.gnu.org/onlinedocs/gfortran/Errors-and-Warning-Options.html#index-Wtabs-Wtabs]8;;)
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:999:2:

```
999 |           R01 = 0
    |           1
```

Warning: Nonconforming tab character at (1) [8];[https://gcc.gnu.org/onlinedocs/gfortran/Errors-and-Warning-Options.html#index-Wtabs-Wtabs\]8;;](https://gcc.gnu.org/onlinedocs/gfortran/Errors-and-Warning-Options.html#index-Wtabs-Wtabs]8;;)
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1000:2:

```
1000 |           call CCTK_Warn(1,77,"NullExact_Analytic.F90","NullExact", "unrecognized value
for testbed_ID")
    |           1
```

Warning: Nonconforming tab character at (1) [8];[https://gcc.gnu.org/onlinedocs/gfortran/Errors-and-Warning-Options.html#index-Wtabs-Wtabs\]8;;](https://gcc.gnu.org/onlinedocs/gfortran/Errors-and-Warning-Options.html#index-Wtabs-Wtabs]8;;)

/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:2796:11:

```
2796 |      W = w1*Ylm(:, :, patchID)
      |           1
```

Warning: Possible change of value in conversion from COMPLEX(8) to REAL(8) at (1) [8];
<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wconversion-wconversion> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:2798:11:

```
2798 |      W = Ylm(:, :, patchID)
      |           1
```

Warning: Possible change of value in conversion from COMPLEX(8) to REAL(8) at (1) [8];
<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wconversion-wconversion> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:2367:14:

```
2367 |      beta = b1*Ylm(:, :, patchID)
      |           1
```

Warning: Possible change of value in conversion from COMPLEX(8) to REAL(8) at (1) [8];
<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wconversion-wconversion> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:2369:14:

```
2369 |      beta = Ylm(:, :, patchID)
      |           1
```

Warning: Possible change of value in conversion from COMPLEX(8) to REAL(8) at (1) [8];
<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wconversion-wconversion> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:997:8:

```
997 |      R01 = R01_i*Ylm(:, :, patchID)
      |           1
```

Warning: Possible change of value in conversion from COMPLEX(8) to REAL(8) at (1) [8];
<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wconversion-wconversion> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:3415:52:

```
3415 |  subroutine NullExact_Analytic_BondiTime_2D(patchID, n1, n2, qs, ps, s, time, BondiTime, Ylm_
      |                                                                    1
      |                                                                    0)
```

Warning: Unused dummy argument 'patchid' at (1) [8];
<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument-wunused-dummy-argument> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:3415:64:

```
3415 |  ubroutine NullExact_Analytic_BondiTime_2D(patchID, n1, n2, qs, ps, s, time, BondiTime, Ylm_0)
      |                                                                    1
```

Warning: Unused dummy argument 'ps' at (1) [8];
<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument-wunused-dummy-argument> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:3415:61:

```
3415 |  subroutine NullExact_Analytic_BondiTime_2D(patchID, n1, n2, qs, ps, s, time, BondiTime, Ylm_
      |                                                                    1
      |                                                                    0)
```

Warning: Unused dummy argument 'qs' at (1) [8];
<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument-wunused-dummy-argument> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:3415:66:

```
3415 |  routine NullExact_Analytic_BondiTime_2D(patchID, n1, n2, qs, ps, s, time, BondiTime, Ylm_0)
      |                                                                    1
```

Warning: Unused dummy argument 's' at (1) [8];
<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument-wunused-dummy-argument> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:3415:71:

```
3415 |  ne NullExact_Analytic_BondiTime_2D(patchID, n1, n2, qs, ps, s, time, BondiTime, Ylm_0)
      |                                                                    1
```

Warning: Unused dummy argument 'time' at (1) [8];
<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument-wunused-dummy-argument> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:3415:87:

```
3415 |  Exact_Analytic_BondiTime_2D(patchID, n1, n2, qs, ps, s, time, BondiTime, Ylm_0)
      |                                                                    1
```

Warning: Unused dummy argument 'ylm_0' at (1) [8];
<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument-wunused-dummy-argument> [8]; [8]

/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:3263:64:

```
3263 | ubroutine NullExact_Analytic_BondiNews_2D(patchID,n1,n2,qs,ps,s,time,News,Psi4e,Ylm_2)
      |
      | 1
```

Warning: Unused dummy argument 'ps' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>[8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:3263:61:

```
3263 | subroutine NullExact_Analytic_BondiNews_2D(patchID,n1,n2,qs,ps,s,time,News,Psi4e,Ylm_2)
      |
      | 1
```

Warning: Unused dummy argument 'qs' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>[8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:3263:66:

```
3263 | routine NullExact_Analytic_BondiNews_2D(patchID,n1,n2,qs,ps,s,time,News,Psi4e,Ylm_2)
      |
      | 1
```

Warning: Unused dummy argument 's' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>[8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1956:47:

```
1956 | function NullExact_Analytic_ck_pt(patchID,q,p,s,time) result(ck)
      |
      | 1
```

Warning: Unused dummy argument 'p' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>[8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1956:43:

```
1956 | function NullExact_Analytic_ck_pt(patchID,q,p,s,time) result(ck)
      |
      | 1
```

Warning: Unused dummy argument 'patchid' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>[8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1956:45:

```
1956 | function NullExact_Analytic_ck_pt(patchID,q,p,s,time) result(ck)
      |
      | 1
```

Warning: Unused dummy argument 'q' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>[8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1956:49:

```
1956 | function NullExact_Analytic_ck_pt(patchID,q,p,s,time) result(ck)
      |
      | 1
```

Warning: Unused dummy argument 's' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>[8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1956:54:

```
1956 | function NullExact_Analytic_ck_pt(patchID,q,p,s,time) result(ck)
      |
      | 1
```

Warning: Unused dummy argument 'time' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>[8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1828:47:

```
1828 | function NullExact_Analytic_cb_pt(patchID,q,p,s,time) result(cb)
      |
      | 1
```

Warning: Unused dummy argument 'p' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>[8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1828:43:

```
1828 | function NullExact_Analytic_cb_pt(patchID,q,p,s,time) result(cb)
      |
      | 1
```

Warning: Unused dummy argument 'patchid' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>[8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1828:45:

```
1828 | function NullExact_Analytic_cb_pt(patchID,q,p,s,time) result(cb)
      |
      | 1
```

Warning: Unused dummy argument 'q' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>[8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1828:49:

```
1828 | function NullExact_Analytic_cb_pt(patchID,q,p,s,time) result(cb)
      |
      | 1
```

Warning: Unused dummy argument 's' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument> [8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1828:54:

```
1828 | function NullExact_Analytic_cb_pt(patchID,q,p,s,time) result(cb)
      |                                     1
```

Warning: Unused dummy argument 'time' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument> [8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1700:47:

```
1700 | function NullExact_Analytic_nu_pt(patchID,q,p,s,time) result(nu)
      |                                     1
```

Warning: Unused dummy argument 'p' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument> [8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1700:43:

```
1700 | function NullExact_Analytic_nu_pt(patchID,q,p,s,time) result(nu)
      |                                     1
```

Warning: Unused dummy argument 'patchid' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument> [8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1700:45:

```
1700 | function NullExact_Analytic_nu_pt(patchID,q,p,s,time) result(nu)
      |                                     1
```

Warning: Unused dummy argument 'q' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument> [8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1700:49:

```
1700 | function NullExact_Analytic_nu_pt(patchID,q,p,s,time) result(nu)
      |                                     1
```

Warning: Unused dummy argument 's' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument> [8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1700:54:

```
1700 | function NullExact_Analytic_nu_pt(patchID,q,p,s,time) result(nu)
      |                                     1
```

Warning: Unused dummy argument 'time' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument> [8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1574:46:

```
1574 | function NullExact_Analytic_W_pt(patchID,q,p,s,time) result(W)
      |                                     1
```

Warning: Unused dummy argument 'p' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument> [8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1574:42:

```
1574 | function NullExact_Analytic_W_pt(patchID,q,p,s,time) result(W)
      |                                     1
```

Warning: Unused dummy argument 'patchid' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument> [8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1574:44:

```
1574 | function NullExact_Analytic_W_pt(patchID,q,p,s,time) result(W)
      |                                     1
```

Warning: Unused dummy argument 'q' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument> [8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1574:48:

```
1574 | function NullExact_Analytic_W_pt(patchID,q,p,s,time) result(W)
      |                                     1
```

Warning: Unused dummy argument 's' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument> [8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1574:53:

```
1574 | function NullExact_Analytic_W_pt(patchID,q,p,s,time) result(W)
      |                                     1
```

Warning: Unused dummy argument 'time' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument> [8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1438:46:

```
1438 | function NullExact_Analytic_U_pt(patchID,q,p,s,time) result(U)
      |                                     1
```

Warning: Unused dummy argument 'p' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument> [8];

/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1186:48:

```
1186 |   function NullExact_Analytic_J_pt(patchID,q,p,s,time) result(J)
      |                                     1
```

Warning: Unused dummy argument 's' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1186:53:

```
1186 |   function NullExact_Analytic_J_pt(patchID,q,p,s,time) result(J)
      |                                     1
```

Warning: Unused dummy argument 'time' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1077:26:

```
1077 |   function bout(s,l_in_Ylm,C1r,C1i,C2r,C2i,b0r,b0i,omm,time) result(B)
      |                                     1
```

Warning: Unused dummy argument 'l_in_ylm' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1077:17:

```
1077 |   function bout(s,l_in_Ylm,C1r,C1i,C2r,C2i,b0r,b0i,omm,time) result(B)
      |                                     1
```

Warning: Unused dummy argument 's' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:838:59:

```
838 |   subroutine NullExact_Analytic_R01_2D(patchID,n1,n2,qs,ps,s,time,R01,Ylm)
      |                                     1
```

Warning: Unused dummy argument 'ps' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:838:56:

```
838 |   subroutine NullExact_Analytic_R01_2D(patchID,n1,n2,qs,ps,s,time,R01,Ylm)
      |                                     1
```

Warning: Unused dummy argument 'qs' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>];

[15%] Building CXX object CMakeFiles/openPMD.dir/src/Iteration.cpp.o
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:3269:21:

```
3269 |     REAL*8 :: nn,npsi  
      |           ^
```

Warning: 'npsi' may be used uninitialized [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized>[8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1183:19:

```
1183 |     end function wout  
      |           ^
```

Warning: 'w' may be used uninitialized [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized>[8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1156:70:

```
1156 |     function wout(s,l_in_Ylm,C1r,C1i,C2r,C2i,b0r,b0i,omm,time) result(W)  
      |                                           ^
```

note: 'w' was declared here

/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1154:21:

```
1154 |     end function druout  
      |           ^
```

Warning: 'dru' may be used uninitialized [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized>[8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1126:74:

```
1126 |     unction druout(s,l_in_Ylm,C1r,C1i,C2r,C2i,b0r,b0i,omm,time) result(drU)  
      |                                           ^
```

note: 'dru' was declared here

/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1124:19:

```
1124 |     end function uout  
      |           ^
```

Warning: 'u' may be used uninitialized [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized>[8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1089:70:

```
1089 |     function uout(s,l_in_Ylm,C1r,C1i,C2r,C2i,b0r,b0i,omm,time) result(U)  
      |                                           ^
```

note: 'u' was declared here

[17%] Building CXX object CMakeFiles/openPMD.dir/src/IterationEncoding.cpp.o
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1075:19:

```
1075 |     end function jout  
      |           ^
```

Warning: 'j' may be used uninitialized [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized>[8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:1056:70:

```
1056 |     function jout(s,l_in_Ylm,C1r,C1i,C2r,C2i,b0r,b0i,omm,time) result(J)  
      |                                           ^
```

note: 'j' was declared here

/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:835:23:

```
835 |     end function R01_out  
      |           ^
```

Warning: 'r01' may be used uninitialized [8];<https://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-Wmaybe-uninitialized-Wmaybe-uninitialized>[8];
/home/anisha/Cactus/Cactus/configs/sim/build/NullExact/NullExact_Analytic.f90:803:76:

```
803 |     nction R01_out(s,l_in_Ylm,C1r,C1i,C2r,C2i,b0r,b0i,omm,time) result(R01)  
      |                                           ^
```

note: 'r01' was declared here

COMPILING PITTENullCode/NullExact/src/NullExact_PreCalcYlm.F90

[19%] Building CXX object CMakeFiles/openPMD.dir/src/Mesh.cpp.o

COMPILING PITTENullCode/NullExact/src/NullExact_Error.F90

[21%] Building CXX object CMakeFiles/openPMD.dir/src/ParticlePatches.cpp.o

g++: fatal error: Killed signal terminated program cc1plus
compilation terminated.

make[3]: *** [/home/anisha/Cactus/Cactus/configs/sim/config-data/make.config.rules:278: ML_BSS

```

N_EvolutionInteriorSplitBy3.cc.o] Error 1
make[2]: *** [/home/anisha/Cactus/Cactus/lib/make/make.thornlib:113: make.checked] Error 2
make[1]: *** [/home/anisha/Cactus/Cactus/lib/make/make.configuration:179: /home/anisha/Cactus/
Cactus/configs/sim/lib/libthorn_ML_BSSN.a] Error 2
make[1]: *** Waiting for unfinished jobs....
COMPILING PITTTNullCode/NullExact/src/NullExact_InitMoL.F90
COMPILING PITTTNullCode/NullExact/src/NullExact_dotNewsMoL.F90
COMPILING PITTTNullCode/NullExact/src/NullExact_MoLRegister.c
COMPILING PITTTNullCode/NullExact/src/NullExact_AnaFields.F90
[ 23%] Building CXX object CMakeFiles/openPMD.dir/src/ParticleSpecies.cpp.o
COMPILING PITTTNullCode/NullExact/src/NullExact_Initial.F90
COMPILING PITTTNullCode/NullExact/src/NullExact_Boundary.F90
Creating /home/anisha/Cactus/Cactus/configs/sim/lib/libthorn_NullExact.a
[ 26%] Building CXX object CMakeFiles/openPMD.dir/src/ReadIterations.cpp.o
g++: fatal error: Killed signal terminated program cc1plus
compilation terminated.
make[3]: *** [/home/anisha/Cactus/Cactus/configs/sim/config-data/make.config.rules:281: ML_CCZ
4_EvolutionInteriorSplitBy3.cc.o] Error 1
make[3]: *** Waiting for unfinished jobs....
[ 28%] Building CXX object CMakeFiles/openPMD.dir/src/Record.cpp.o
COMPILING PITTTNullCode/NullConstr/src/NullConstr_R01.F90
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:893:17:

    893 |           R01(q,p) = s1*s2
        |                   1
Warning: Possible change of value in conversion from COMPLEX(8) to REAL(8) at (1) [8];http
s://gcc.gnu.org/onlinedocs/gcc/Warning-Options.html#index-wconversion-wconversion[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:748:26:

    748 |     b_00,b_01,b_02,b_03,b_04,b_11,b_12,b_13,b_14, &
        |                   1
Warning: Unused dummy argument 'b_04' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-wunused-dummy-argument-wunused-dummy-argument[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:749:16:

    749 |     b_22,b_23,b_24,b_33,b_34, &
        |                   1
Warning: Unused dummy argument 'b_24' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-wunused-dummy-argument-wunused-dummy-argument[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:749:26:

    749 |     b_22,b_23,b_24,b_33,b_34, &
        |                   1
Warning: Unused dummy argument 'b_34' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-wunused-dummy-argument-wunused-dummy-argument[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:752:31:

    752 |     j_00,j_01,j_02,j_03,j_04,j_11,j_12,j_13,j_14, &
        |                   1
Warning: Unused dummy argument 'j_11' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-wunused-dummy-argument-wunused-dummy-argument[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:752:46:

    752 |     j_00,j_01,j_02,j_03,j_04,j_11,j_12,j_13,j_14, &
        |                   1
Warning: Unused dummy argument 'j_14' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-wunused-dummy-argument-wunused-dummy-argument[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:753:6:

    753 |     j_22,j_23,j_24,j_33,j_34, &
        |                   1
Warning: Unused dummy argument 'j_22' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-wunused-dummy-argument-wunused-dummy-argument[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:753:11:

    753 |     j_22,j_23,j_24,j_33,j_34, &
        |                   1
Warning: Unused dummy argument 'j_23' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Err
or-and-Warning-Options.html#index-wunused-dummy-argument-wunused-dummy-argument[8];[
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:753:16:

    753 |     j_22,j_23,j_24,j_33,j_34, &
        |                   1

```

Warning: Unused dummy argument 'j_24' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:753:21:

```
753 |   j_22,j_23,j_24,j_33,j_34, &  
    |                               1
```

Warning: Unused dummy argument 'j_33' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:753:26:

```
753 |   j_22,j_23,j_24,j_33,j_34, &  
    |                               1
```

Warning: Unused dummy argument 'j_34' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:754:37:

```
754 |   jb_00,jb_01,jb_02,jb_03,jb_04,jb_11,jb_12,jb_13,jb_14, &  
    |                                               1
```

Warning: Unused dummy argument 'jb_11' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:754:55:

```
754 |   jb_00,jb_01,jb_02,jb_03,jb_04,jb_11,jb_12,jb_13,jb_14, &  
    |                                               1
```

Warning: Unused dummy argument 'jb_14' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:755:7:

```
755 |   jb_22,jb_23,jb_24,jb_33,jb_34, &  
    |                               1
```

Warning: Unused dummy argument 'jb_22' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:755:13:

```
755 |   jb_22,jb_23,jb_24,jb_33,jb_34, &  
    |                               1
```

Warning: Unused dummy argument 'jb_23' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:755:19:

```
755 |   jb_22,jb_23,jb_24,jb_33,jb_34, &  
    |                               1
```

Warning: Unused dummy argument 'jb_24' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:755:25:

```
755 |   jb_22,jb_23,jb_24,jb_33,jb_34, &  
    |                                               1
```

Warning: Unused dummy argument 'jb_33' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:755:31:

```
755 |   jb_22,jb_23,jb_24,jb_33,jb_34, &  
    |                                               1
```

Warning: Unused dummy argument 'jb_34' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:750:31:

```
750 |   k_00,k_01,k_02,k_03,k_04,k_11,k_12,k_13,k_14, &  
    |                                               1
```

Warning: Unused dummy argument 'k_11' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:750:36:

```
750 |   k_00,k_01,k_02,k_03,k_04,k_11,k_12,k_13,k_14, &  
    |                                               1
```

Warning: Unused dummy argument 'k_12' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:750:41:

```
750 |   k_00,k_01,k_02,k_03,k_04,k_11,k_12,k_13,k_14, &  
    |                                               1
```

Warning: Unused dummy argument 'k_13' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument>; [8]; [8]

or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:750:46:

```
750 | k_00,k_01,k_02,k_03,k_04,k_11,k_12,k_13,k_14, &  
    |                                     1
```

Warning: Unused dummy argument 'k_14' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:751:6:

```
751 | k_22,k_23,k_24,k_33,k_34, &  
    |                                     1
```

Warning: Unused dummy argument 'k_22' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:751:11:

```
751 | k_22,k_23,k_24,k_33,k_34, &  
    |                                     1
```

Warning: Unused dummy argument 'k_23' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:751:16:

```
751 | k_22,k_23,k_24,k_33,k_34, &  
    |                                     1
```

Warning: Unused dummy argument 'k_24' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:751:21:

```
751 | k_22,k_23,k_24,k_33,k_34, &  
    |                                     1
```

Warning: Unused dummy argument 'k_33' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:751:26:

```
751 | k_22,k_23,k_24,k_33,k_34, &  
    |                                     1
```

Warning: Unused dummy argument 'k_34' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:756:26:

```
756 | u_00,u_01,u_02,u_03,u_04,u_11,u_12,u_13,u_14, &  
    |                                     1
```

Warning: Unused dummy argument 'u_04' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:756:36:

```
756 | u_00,u_01,u_02,u_03,u_04,u_11,u_12,u_13,u_14, &  
    |                                     1
```

Warning: Unused dummy argument 'u_12' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:756:46:

```
756 | u_00,u_01,u_02,u_03,u_04,u_11,u_12,u_13,u_14, &  
    |                                     1
```

Warning: Unused dummy argument 'u_14' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:757:6:

```
757 | u_22,u_23,u_24,u_33,u_34, &  
    |                                     1
```

Warning: Unused dummy argument 'u_22' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:757:11:

```
757 | u_22,u_23,u_24,u_33,u_34, &  
    |                                     1
```

Warning: Unused dummy argument 'u_23' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:757:16:

```
757 | u_22,u_23,u_24,u_33,u_34, &  
    |                                     1
```

Warning: Unused dummy argument 'u_24' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;

/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:757:21:

```
757 |   u_22,u_23,u_24,u_33,u_34, &  
    |                               1
```

Warning: Unused dummy argument 'u_33' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:757:26:

```
757 |   u_22,u_23,u_24,u_33,u_34, &  
    |                               1
```

Warning: Unused dummy argument 'u_34' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:758:31:

```
758 |   ub_00,ub_01,ub_02,ub_03,ub_04,ub_11,ub_12,ub_13,ub_14, &  
    |                                               1
```

Warning: Unused dummy argument 'ub_04' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:758:49:

```
758 |   ub_00,ub_01,ub_02,ub_03,ub_04,ub_11,ub_12,ub_13,ub_14, &  
    |                                               1
```

Warning: Unused dummy argument 'ub_13' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:758:55:

```
758 |   ub_00,ub_01,ub_02,ub_03,ub_04,ub_11,ub_12,ub_13,ub_14, &  
    |                                               1
```

Warning: Unused dummy argument 'ub_14' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:759:7:

```
759 |   ub_22,ub_23,ub_24,ub_33,ub_34)  
    |                               1
```

Warning: Unused dummy argument 'ub_22' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:759:13:

```
759 |   ub_22,ub_23,ub_24,ub_33,ub_34)  
    |                               1
```

Warning: Unused dummy argument 'ub_23' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:759:19:

```
759 |   ub_22,ub_23,ub_24,ub_33,ub_34)  
    |                               1
```

Warning: Unused dummy argument 'ub_24' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:759:25:

```
759 |   ub_22,ub_23,ub_24,ub_33,ub_34)  
    |                               1
```

Warning: Unused dummy argument 'ub_33' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:759:31:

```
759 |   ub_22,ub_23,ub_24,ub_33,ub_34)  
    |                               1
```

Warning: Unused dummy argument 'ub_34' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:746:16:

```
746 |   w_00,w_01,w_02,w_03,w_04,w_11,w_12,w_13,w_14, &  
    |                               1
```

Warning: Unused dummy argument 'w_02' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:746:21:

```
746 |   w_00,w_01,w_02,w_03,w_04,w_11,w_12,w_13,w_14, &  
    |                               1
```

Warning: Unused dummy argument 'w_03' at (1) [<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-wunused-dummy-argument>];
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:746:26:

```
746 | w_00,w_01,w_02,w_03,w_04,w_11,w_12,w_13,w_14, &
    | 1
Warning: Unused dummy argument 'w_04' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:746:36:

746 | w_00,w_01,w_02,w_03,w_04,w_11,w_12,w_13,w_14, &
    | 1
Warning: Unused dummy argument 'w_12' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:746:41:

746 | w_00,w_01,w_02,w_03,w_04,w_11,w_12,w_13,w_14, &
    | 1
Warning: Unused dummy argument 'w_13' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:746:46:

746 | w_00,w_01,w_02,w_03,w_04,w_11,w_12,w_13,w_14, &
    | 1
Warning: Unused dummy argument 'w_14' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:747:6:

747 | w_22,w_23,w_24,w_33,w_34, &
    | 1
Warning: Unused dummy argument 'w_22' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:747:11:

747 | w_22,w_23,w_24,w_33,w_34, &
    | 1
Warning: Unused dummy argument 'w_23' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:747:16:

747 | w_22,w_23,w_24,w_33,w_34, &
    | 1
Warning: Unused dummy argument 'w_24' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:747:21:

747 | w_22,w_23,w_24,w_33,w_34, &
    | 1
Warning: Unused dummy argument 'w_33' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R01.f90:747:26:

747 | w_22,w_23,w_24,w_33,w_34, &
    | 1
Warning: Unused dummy argument 'w_34' at (1) [8];https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument[8];[ ]
```

COMPILING PITTNullCode/NullConstr/src/NullConstr_R0A.F90
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:748:31:

```
748 | b_00,b_01,b_02,b_03,b_04,b_11,b_12,b_13,b_14, &  
    |                                     1
```

Warning: Unused dummy argument 'b_11' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:748:36:

```
748 | b_00,b_01,b_02,b_03,b_04,b_11,b_12,b_13,b_14, &  
    |                                     1
```

Warning: Unused dummy argument 'b_12' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:748:41:

```
748 | b_00,b_01,b_02,b_03,b_04,b_11,b_12,b_13,b_14, &  
    |                                     1
```

Warning: Unused dummy argument 'b_13' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:748:46:

```
748 | b_00,b_01,b_02,b_03,b_04,b_11,b_12,b_13,b_14, &  
    |                                     1
```

Warning: Unused dummy argument 'b_14' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:749:21:

```
749 | b_22,b_23,b_24,b_33,b_34, &  
    |                                     1
```

Warning: Unused dummy argument 'b_33' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:749:26:

```
749 | b_22,b_23,b_24,b_33,b_34, &  
    |                                     1
```

Warning: Unused dummy argument 'b_34' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:750:31:

```
750 | k_00,k_01,k_02,k_03,k_04,k_11,k_12,k_13,k_14, &  
    |                                     1
```

Warning: Unused dummy argument 'k_11' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:750:36:

```
750 | k_00,k_01,k_02,k_03,k_04,k_11,k_12,k_13,k_14, &  
    |                                     1
```

Warning: Unused dummy argument 'k_12' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:750:41:

```
750 | k_00,k_01,k_02,k_03,k_04,k_11,k_12,k_13,k_14, &  
    |                                     1
```

Warning: Unused dummy argument 'k_13' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:750:46:

```
750 | k_00,k_01,k_02,k_03,k_04,k_11,k_12,k_13,k_14, &  
    |                                     1
```

Warning: Unused dummy argument 'k_14' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:751:6:

```
751 | k_22,k_23,k_24,k_33,k_34, &  
    |                                     1
```

Warning: Unused dummy argument 'k_22' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>; [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:751:11:

```
751 | k_22,k_23,k_24,k_33,k_34, &  
    |                                     1
```

Warning: Unused dummy argument 'k_23' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument>; [8]; [8]

or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:751:16:

```
751 | k_22,k_23,k_24,k_33,k_34, &  
    | 1
```

Warning: Unused dummy argument 'k_24' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:751:21:

```
751 | k_22,k_23,k_24,k_33,k_34, &  
    | 1
```

Warning: Unused dummy argument 'k_33' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:751:26:

```
751 | k_22,k_23,k_24,k_33,k_34, &  
    | 1
```

Warning: Unused dummy argument 'k_34' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:756:26:

```
756 | u_00,u_01,u_02,u_03,u_04,u_11,u_12,u_13,u_14, &  
    | 1
```

Warning: Unused dummy argument 'u_04' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:757:16:

```
757 | u_22,u_23,u_24,u_33,u_34, &  
    | 1
```

Warning: Unused dummy argument 'u_24' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:757:26:

```
757 | u_22,u_23,u_24,u_33,u_34, &  
    | 1
```

Warning: Unused dummy argument 'u_34' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:758:31:

```
758 | ub_00,ub_01,ub_02,ub_03,ub_04,ub_11,ub_12,ub_13,ub_14, &  
    | 1
```

Warning: Unused dummy argument 'ub_04' at (1) [8];
error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:759:19:

```
759 | ub_22,ub_23,ub_24,ub_33,ub_34)  
    | 1
```

Warning: Unused dummy argument 'ub_24' at (1) [8];
error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:759:31:

```
759 | ub_22,ub_23,ub_24,ub_33,ub_34)  
    | 1
```

Warning: Unused dummy argument 'ub_34' at (1) [8];
error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:746:26:

```
746 | w_00,w_01,w_02,w_03,w_04,w_11,w_12,w_13,w_14, &  
    | 1
```

Warning: Unused dummy argument 'w_04' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:746:31:

```
746 | w_00,w_01,w_02,w_03,w_04,w_11,w_12,w_13,w_14, &  
    | 1
```

Warning: Unused dummy argument 'w_11' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:746:41:

```
746 | w_00,w_01,w_02,w_03,w_04,w_11,w_12,w_13,w_14, &  
    | 1
```

Warning: Unused dummy argument 'w_13' at (1) [8];
or-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument]8;;

/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:746:46:

```
746 | w_00,w_01,w_02,w_03,w_04,w_11,w_12,w_13,w_14, &  
    |                                     1
```

Warning: Unused dummy argument 'w_14' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:747:6:

```
747 | w_22,w_23,w_24,w_33,w_34, &  
    |             1
```

Warning: Unused dummy argument 'w_22' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:747:11:

```
747 | w_22,w_23,w_24,w_33,w_34, &  
    |             1
```

Warning: Unused dummy argument 'w_23' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:747:16:

```
747 | w_22,w_23,w_24,w_33,w_34, &  
    |             1
```

Warning: Unused dummy argument 'w_24' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:747:21:

```
747 | w_22,w_23,w_24,w_33,w_34, &  
    |             1
```

Warning: Unused dummy argument 'w_33' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument> [8]; [8]
/home/anisha/Cactus/Cactus/configs/sim/build/NullConstr/NullConstr_R0A.f90:747:26:

```
747 | w_22,w_23,w_24,w_33,w_34, &  
    |             1
```

Warning: Unused dummy argument 'w_34' at (1) [8];<https://gcc.gnu.org/onlinedocs/gfortran/Error-and-Warning-Options.html#index-Wunused-dummy-argument-Wunused-dummy-argument> [8]; [8]

COMPILING PITTNullCode/NullConstr/src/NullConstr_Driver.F90

COMPILING configs/sim/bindings/build/NullConstr/cctk_ThornBindings.c

Creating /home/anisha/Cactus/Cactus/configs/sim/lib/libthorn_NullConstr.a

[30%] Building CXX object CMakeFiles/openPMD.dir/src/RecordComponent.cpp.o

g++: fatal error: Killed signal terminated program cc1plus

compilation terminated.

make[3]: *** [/home/anisha/Cactus/Cactus/configs/sim/config-data/make.config.rules:281: ML_CCZ4_EvolutionAnalysisInterior.cc.o] Error 1

make[2]: *** [/home/anisha/Cactus/Cactus/lib/make/make.thornlib:113: make.checked] Error 2

make[1]: *** [/home/anisha/Cactus/Cactus/lib/make/make.configuration:179: /home/anisha/Cactus/Cactus/configs/sim/lib/libthorn_ML_CCZ4.a] Error 2

[32%] Building CXX object CMakeFiles/openPMD.dir/src/Series.cpp.o

[36%] Building CXX object CMakeFiles/openPMD.dir/src/WriteIterations.cpp.o

[36%] Building CXX object CMakeFiles/openPMD.dir/src/version.cpp.o

[39%] Building CXX object CMakeFiles/openPMD.dir/src/auxiliary/Date.cpp.o

[41%] Building CXX object CMakeFiles/openPMD.dir/src/auxiliary/Filesystem.cpp.o

[43%] Building CXX object CMakeFiles/openPMD.dir/src/auxiliary/JSON.cpp.o

[45%] Building CXX object CMakeFiles/openPMD.dir/src/auxiliary/Mpi.cpp.o

g++: fatal error: Killed signal terminated program cc1plus

compilation terminated.

make[6]: *** [CMakeFiles/openPMD.dir/build.make:160: CMakeFiles/openPMD.dir/src/Iteration.cpp.o] Error 1

make[6]: *** Waiting for unfinished jobs....

make[5]: *** [CMakeFiles/Makefile2:118: CMakeFiles/openPMD.dir/all] Error 2

make[4]: *** [Makefile:136: all] Error 2

make[3]: *** [/home/anisha/Cactus/Cactus/arrangements/ExternalLibraries/openPMD/src/make.code.deps:12: /home/anisha/Cactus/Cactus/configs/sim/scratch/done/openPMD] Error 2

make[2]: *** [/home/anisha/Cactus/Cactus/lib/make/make.thornlib:113: make.checked] Error 2

make[1]: *** [/home/anisha/Cactus/Cactus/lib/make/make.configuration:179: /home/anisha/Cactus/Cactus/configs/sim/lib/libthorn_openPMD.a] Error 2

make: *** [Makefile:265: sim] Error 2

In [9]:

```
%%bash
./simfactory/bin/sim create-run helloworld \
  --parfile arrangements/CactusExamples/HelloWorld/par/HelloWorld.par
```

Warning: Current Working directory does not match Cactus sourcetree, changing to /home/anisha/Cactus/Cactus

Parameter file: /home/anisha/Cactus/arrangements/CactusExamples/HelloWorld/par/HelloWorld.par
Error: Executable /home/anisha/Cactus/Cactus/exe/cactus_sim for configuration sim does not exist or is not readable
Aborting Simfactory.

In []:

In []: