



pyCGNS.PAT/Manual

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CONTENTS

1	CGNS.PAT.cgnslib	3
2	CGNS.PAT.SIDS	11
3	CGNS.PAT.cgnskeywords	13
4	CGNS.PAT.cgnserrors	15
	Python Module Index	17

The module to create and manipulate SIDS/Python trees. PAT has a *cgnslib* module with functions to create SIDS/Python compliant data structures.

CGNS.PAT.CGNSLIB

A set of function to manipulate CGNS/Python nodes.

`CGNS.PAT.cgnslib.newArbitraryGridMotion (parent, name, valueType='Null')`

Returns a **new node** representing a `ArbitraryGridMotionType_t` sub-tree ([chapter 11.3](#))

Parameters

- **parent** – CGNS/Python node
- **name** – String
- **valuetype** – String (`CGNS.PAT.cgnskeywords.ArbitraryGridMotionType`)

If a *parent* is not None, the **new node** is added to the parent children list. If the *parent* has already a child with name `RigidGridMotion` then only the `RigidGridMotionType` is created.

`CGNS.PAT.cgnslib.newAverageInterface (parent, valueType='Null')`

-AverageInterface node creation -AverageInterface

`'newNode:N=newAverageInterface'(parent:N,valueType:CG_K.AverageInterfaceType)'`

Returns a new <node> representing a `AverageInterface_t` sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name `AverageInterface` then only the `AverageInterfaceType` is created. [chapter 8.5.2](#)

`CGNS.PAT.cgnslib.newAxisymmetry (parent, refpoint=[0.0, 0.0, 0.0], axisvector=[0.0, 0.0, 0.0])`

-Axisymmetry node creation -Axisymmetry

`'newNode:N=newAxisymmetry'(parent:N,refpoint:A,axisvector:A)'`

`refpoint,axisvector` should be a real array. Returns a new <node> representing a `CG_K.Axisymmetry_t` sub-tree. [chapter 7.5](#) Add `DataArray AxisymmetryAxisVector,AxisymmetryReferencePoint` are required

`CGNS.PAT.cgnslib.newBCData (parent, name)`

-BCData node creation -BCData

`'newNode:N=newBCData'(parent:N,name:S)'`

Returns a new <node> representing a `BCData_t` sub-tree. [chapter 9.5](#)

`CGNS.PAT.cgnslib.newBCDataSet (parent, name, valueType='Null')`

-BCDataSet node creation -BCDataSet

`'newNode:N=newBCDataSet'(parent:N,name:S,valueType:CG_K.BCTypeSimple)'`

If a parent is given, the new <node> is added to the parent children list. Returns a new <node> representing a `BCDataSet_t` sub-tree. [chapter 9.4](#) Add node `BCTypeSimple` is required

`CGNS.PAT.cgnslib.newBCProperty (parent, wallfunction='Null', area='Null')`

-BCProperty node creation -BCProperty

`'newNode:N=newBCProperty'(parent:N)'`

Returns a new <node> representing a BCProperty_t sub-tree. If a parent is given, the new <node> is added to the parent children list. chapter 9.6

CGNS.PAT.cgnslib.newBase (tree, name, ncell, nphys)

-Base node creation -Base

'newNode:N=newBase'(parent:N,name:S,ncell:[1,2,3],nphys:[1,2,3])'

Returns a new <node> representing a CGNSBase_t sub-tree. If a parent is given, the new <node> is added to the parent children list, that is to the base list of the parent CGNSTree. Maps the 'cg_base_write' MLL chapter 6.2

CGNS.PAT.cgnslib.newBaseIterativeData (parent, nsteps=0, itype='IterationValues')

-BaseIterativeData node creation -BaseIterativeData

'newNode:N=newBaseIterativeData'(parent:N,nsteps:I,itype:E)'

Returns a new <node> representing a BaseIterativeData_t sub-tree. If a parent is given, the new <node> is added to the parent children list. chapter 11.1.1 NumberOfSteps is required, TimeValues or IterationValues are required

CGNS.PAT.cgnslib.newBoundary (parent, bname, brange, btype='Null', family=None, pt-type='PointRange')

-BC node creation -BC

'newNode:N=newBoundary'(parent:N,bname:S,brange:[*],btype:S)'

Returns a new <node> representing a BC_t sub-tree. If a parent is given, the new <node> is added to the parent children list. Parent should be Zone_t, returned node is parent. If the parent has already a child name ZoneBC then only the BC_t,IndexRange_t are created. chapter 9.3 Add IndexRange_t required

CGNS.PAT.cgnslib.newCGNS ()

-Tree node creation -Tree

'newNode:N=newCGNS'()

Returns a new <node> representing a CGNS tree root. This is not a SIDS type.

CGNS.PAT.cgnslib.newChemicalKineticsModel (parent, valueType='Null')

-ChemicalKineticsModel node creation -ChemicalKineticsModel

'newNode:N=newChemicalKineticsModel'(parent:N,valueType:CG_K.ChemicalKineticsModelType)'

Returns a new <node> representing a CG_K.ChemicalKineticsModel_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name ChemicalKineticsModel then only the ChemicalKineticsModelType is created. chapter 10.8 Add node ChemicalKineticsModelType is (r)

CGNS.PAT.cgnslib.newConvergenceHistory (parent, name='GlobalConvergenceHistory', iterations=0)

-ConvergenceHistory node creation -ConvergenceHistory

'newNode:N=newConvergenceHistory'(parent:N,name:S,iterations:i)'

Returns a new <node> representing a ConvergenceHistory_t sub-tree. If a parent is given, the new <node> is added to the parent children list. chapter 12.3

CGNS.PAT.cgnslib.newCoordinates (parent, name='GridCoordinates', value=None)

-GridCoordinates_t node creation with name GridCoordinates -Grid

'newNode:N=newCoordinates'(parent:N,name:S,value:A)'

Creates a new <node> representing a GridCoordinates_t sub-tree with the coordinate DataArray given as argument. This creates both the GridCoordinates_t with GridCoordinates name and DataArray_t with the argument name. Usually used to create the default grid. If the GridCoordinates_t with name GridCoordinates already exists then only the DataArray is created. If a parent is given, the new GridCoordinates_t <node> is added to the parent children list, in all cases the DataArray is child of GridCoordinates_t node. The returned node always is the DataArray_t node. chapter 7.1

CGNS.PAT.cgnslib.**newDataArray** (*parent, name, value=None*)

-DataArray node creation -Global

'newNode:N='newDataArray'(parent:N,name:S,value:A)'

Returns a new <node> representing a DataArray_t sub-tree. If a parent is given, the new <node> is added to the parent children list. chapter 5.1

CGNS.PAT.cgnslib.**newDataClass** (*parent, value='Userdefined'*)

-DataClass node creation -DataClass

'newNode:N='newDataClass'(parent:N,value:A)'

If a parent is given, the new <node> is added to the parent children list. The value argument is a DataClass enumerate. No child allowed. Returns a new <node> representing a DataClass_t sub-tree.

CGNS.PAT.cgnslib.**newDataConversion** (*parent, ConversionScale=1.0, ConversionOffset=1.0*)

-DataConversion node creation -DataConversion

'newNode:N='newDataConversion'(parent:N,ConversionScale:r,ConversionOffset:r)'

If a parent is given, the new <node> is added to the parent children list. Returns a new <node> representing a DataConversion_t sub-tree. chapter 5.1.1

CGNS.PAT.cgnslib.**newDescriptor** (*parent, name, value=''*)

-Descriptor node creation -Descriptor

'newNode:N='newDescriptor'(parent:N,name:S,text:A)'

No child allowed. Returns a new <node> representing a Descriptor_t sub-tree.

CGNS.PAT.cgnslib.**newDimensionalExponents** (*parent, MassExponent=0, LengthExponent=0, TimeExponent=0, TemperatureExponent=0, AngleExponent=0*)

-DimensionalExponents node creation -DimensionalExponents

'newNode:N='newDimensionalExponents'(parent:N,MassExponent:r,LengthExponent:r,TimeExponent:r,TemperatureExponent:r,AngleExponent:r)'

If a parent is given, the new <node> is added to the parent children list. Returns a new <node> representing a DimensionalExponents_t sub-tree. chapter 4.4

CGNS.PAT.cgnslib.**newDimensionalUnits** (*parent, value=[, 'Meter', 'Kelvin', 'Second', 'Radian', 'Kilogram']*)

-DimensionalUnits node creation -DimensionalUnits

'newNode:N='newDimensionalUnits'(parent:N,value=[CG_K.MassUnits,CG_K.LengthUnits,CG_K.TimeUnits,CG_K.TemperatureUnits,CG_K.AngleUnits])'

If a parent is given, the new <node> is added to the parent children list. new <node> is composed of a set of enumeration types : MassUnits,LengthUnits, TimeUnits,TemperatureUnits,AngleUnits are required Returns a new <node> representing a DimensionalUnits_t sub-tree. chapter 4.3

CGNS.PAT.cgnslib.**newDiscreteData** (*parent, name*)

-DiscreteData node creation -DiscreteData

'newNode:N='newDiscreteData'(parent:N,name:S)'

If a parent is given, the new <node> is added to the parent children list. Returns a new <node> representing a DiscreteData_t sub-tree. If a parent is given, the new <node> is added to the parent children list. chapter 6.3

CGNS.PAT.cgnslib.**newEMConductivityModel** (*parent, valueType='Userdefined'*)

-EMConductivityModel node creation -EMConductivityModel

'newNode:N='newEMConductivityModel'(parent:N,valueType:CG_K.EMConductivityModelType)'

Returns a new <node> representing a CG_K.EMConductivityModel_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name EMConductivityModel then only the EMConductivityModelType is created. chapter 10.9.3 Add node EMConductivityModelType is (r)

CGNS.PAT.cgnslib.**newEMElectricFieldModel** (*parent, valueType='Userdefined'*)

-EMElectricFieldModel node creation -EMElectricFieldModel

'newNode:N='newEMElectricFieldModel'(parent:N,valueType:CG_K.EMElectricFieldModelType)'

Returns a new <node> representing a CG_K.EMElectricFieldModel_t sub-tree. If a parent is given, the new <node> is added to the parent children list.

If the parent has already a child name EMElectricFieldModel then

only the EMElectricFieldModelType is created. chapter 10.9 Add node EMElectricFieldModel-Type is (r)

CGNS.PAT.cgnslib.**newEMMagneticFieldModel** (*parent, valueType='Userdefined'*)

-EMMagneticFieldModel node creation -EMMagneticFieldModel

'newNode:N='newEMMagneticFieldModel'(parent:N,valueType:CG_K.EMMagneticFieldModelType)'

Returns a new <node> representing a CG_K.EMMagneticFieldModel_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name EMMagneticFieldModel_s then only the EMMagneticFieldModelType is created. chapter 10.9.2 Add node EMMagneticFieldModelType is (r)

CGNS.PAT.cgnslib.**newElements** (*parent, elementstype='Userdefined', elementsconnectivity=None, elementsrange=None*)

-Elements node creation -Elements

'newNode:N='newAElements'(parent:N,elementsType:CG_K.ElementType,value:CG_K.ElementConnectivity)'

Returns a new <node> representing a Element_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name Element then only the ElementType,IndexRange_t,ElementConnectivity are created. chapter 7.3 Add node :Element-Type,IndexRange_t are required

Add DataArray : ElementConnectivity is required

CGNS.PAT.cgnslib.**newFamily** (*parent, name*)

-Family node creation -Family

'newNode:N='newFamily'(parent:N,name:S)'

Returns a new <node> representing a Family_t sub-tree. If a parent is given, the new <node> is added to the parent children list. chapter 12.6

CGNS.PAT.cgnslib.**newFamilyBC** (*parent, valueType='Userdefined'*)

-FamilyBC node creation -FamilyBC

'newNode:N='newFamilyBC'(parent:N,valueType:CG_K.BCTypeSimple/CG_K.BCTypeCompound)'

Returns a new <node> representing a CG_K.FamilyBC_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name FamilyBC then only the BCType is created chapter 12.8 Add node BCType is required

CGNS.PAT.cgnslib.**newFlowEquationSet** (*parent*)

-FlowEquationSet node creation -FlowEquationSet

'newNode:N='newFlowEquationSet'(parent:N)'

If a parent is given, the new <node> is added to the parent children list. Returns a new <node> representing a CG_K.FlowEquationSet_t sub-tree. chapter 10.1

CGNS.PAT.cgnslib.**newFlowSolution** (*parent, name='{FlowSolution}', gridlocation=None*)

-Solution node creation -Solution

'newNode:N='newSolution'(parent:N,name:S,gridlocation:None)'

Returns a new <node> representing a FlowSolution_t sub-tree. chapter 7.7

CGNS.PAT.cgnslib.**newGasModel** (*parent*, *valueType*='Ideal')

-GasModel node creation -GasModel

'newNode:N='newGasModel'(parent:N,valueType:CG_K.GasModelType)'

Returns a new <node> representing a CG_K.GasModel_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name GasModel then only the GasModelType is created. chapter 10.3 Add node GasModelType is required

CGNS.PAT.cgnslib.**newGeometryReference** (*parent*, *name*='{GeometryReference}', *valueType*='Userdefined')

-GeometryReference node creation -GeometryReference

'newNode:N='newGeometryReference'(parent:N,name:S,valueType:CG_K.GeometryFormat)'

Returns a new <node> representing a CG_K.GeometryFormat_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name CG_K.GeometryReference then only the .GeometryFormat is created chapter 12.7 Add node CG_K.GeometryFormat_t is (r) and GeometryFile_t definition not find but is required (CAD file)

CGNS.PAT.cgnslib.**newGoverningEquations** (*parent*, *valueType*='Euler')

-GoverningEquations node creation -GoverningEquations

'newNode:N='newGoverningEquations'(parent:N,valueType:CG_K.GoverningEquationsType)'

Returns a new <node> representing a CG_K.GoverningEquations_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name GoverningEquations then only the GoverningEquationsType is created. chapter 10.2 Add node GoverningEquationsType is required

CGNS.PAT.cgnslib.**newGravity** (*parent*, *gvector*=[, 0.0, 0.0, 0.0])

-Gravity node creation -Gravity

'newNode:N='newGravity'(parent:N,gvector:A)'

Returns a new <node> representing a Gravity_t sub-tree. If a parent is given, the new <node> is added to the parent children list. gvector should be a real array chapter 12.10 Add DataArray GravityVector is required

CGNS.PAT.cgnslib.**newGridConnectivity1to1** (*parent*, *name*, *dname*, *window*, *dwindow*, *trans*)

-GridConnectivity1to1 node creation -Grid

'newNode:N='newGridConnectivity1to1'(parent:N,name:S,dname:S>window:[i*],dwindow:[i*],trans:[i*])'

Creates a ZoneGridConnectivity1to1_t sub-tree. If a parent is given, the new <node> is added to the parent children list, the parent should be a Zone_t. The returned node is the GridConnectivity1to1_t chapter 8.2

CGNS.PAT.cgnslib.**newGridConnectivityProperty** (*parent*)

-GridConnectivityProperty node creation -GridConnectivityProperty

'newNode:N='newGridConnectivityProperty'(parent:N)'

Returns a new <node> representing a GridConnectivityProperty_t sub-tree. If a parent is given, the new <node> is added to the parent children list. chapter 8.5

CGNS.PAT.cgnslib.**newGridCoordinates** (*parent*, *name*)

-GridCoordinates node creation -Grid

'newNode:N='newGridCoordinates'(parent:N,name:S)'

Returns a new <node> representing a GridCoordinates_t sub-tree. If a parent is given, the new <node> is added to the parent children list.

CGNS.PAT.cgnslib.**newGridLocation** (*parent*, *value*='CellCenter')

-GridLocation node creation -GridLocation

'newNode:N='newGridLocation'(parent:N,value:CG_K.GridLocation)'

If a parent is given, the new <node> is added to the parent children list. Returns a new <node> representing a GridLocation_t sub-tree. chapter 4.5

CGNS.PAT.cgnslib.newIntegralData (parent, name)

-IntegralData node creation -IntegralData

'newNode:N='newIntegralData'(parent:N,name:S)'

Returns a new <node> representing a IntegralData_t sub-tree. If a parent is given, the new <node> is added to the parent children list. chapter 12.5

CGNS.PAT.cgnslib.newOrdinal (parent, value=0)

-Ordinal node creation -Ordinal

'newNode:N='newOrdinal'(parent:N,value=i)'

If a parent is given, the new <node> is added to the parent children list. Returns a new <node> representing a Ordinal_t sub-tree. chapter 6.3

CGNS.PAT.cgnslib.newOversetHoles (parent, name, hrange)

-OversetHoles node creation -OversetHoles

'node:N='newOversetHoles'(parent:N,name:S,hrange:list)'

Creates a OversetHoles_t sub-tree. the parent should be a Zone_t. If a parent is given, the new <node> is added to the parent children list. chapter 8.6 Add PointList or List(PointRange) are required

CGNS.PAT.cgnslib.newPeriodic (parent, rotcenter=[, 0.0, 0.0, 0.0], ratev=[, 0.0, 0.0, 0.0],
trans=[, 0.0, 0.0, 0.0])

-Periodic node creation -Periodic

'newNode:N='newPeriodic'(parent:N,rotcenter=A,ratev=A,trans=A)'

Returns a new <node> representing a Periodic_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name Periodic then only the RotationCenter,RotationAngle,Translation are created. rotcenter,ratev,trans should be a real array. chapter 8.5.1 Add DataArray RotationCenter,RotationAngle,Translation are required

CGNS.PAT.cgnslib.newPointList (parent, name='PointList', value=[])

-PointList node creation -PointList

'newNode:N='newPointList'(parent:N,name:S,value:[])

If a parent is given, the new <node> is added to the parent children list. Returns a new <node> representing a IndexArray_t sub-tree. chapter 4.6

CGNS.PAT.cgnslib.newPointRange (parent, name='PointRange', value=[])

-PointRange node creation -PointRange

'newNode:N='newPointRange'(parent:N,name:S,value:[])

If a parent is given, the new <node> is added to the parent children list. Returns a new <node> representing a IndexRange_t sub-tree. chapter 4.7

CGNS.PAT.cgnslib.newReferenceState (parent, name='ReferenceState')

-ReferenceState node creation -ReferenceState

'newNode:N='newReferenceState'(parent:N,name:S)'

Returns a new <node> representing a ReferenceState_t sub-tree. If a parent is given, the new <node> is added to the parent children list. chapter 12.1

CGNS.PAT.cgnslib.newRigidGridMotion (parent, name, valueType='Null', vector=[, 0.0, 0.0,
0.0])

-RigidGridMotion node creation -RigidGridMotion

'newNode:N='newRigidGridMotion'(parent:N,name:S,valueType:CG_K.RigidGridMotionType,vector:A)'

If a parent is given, the new <node> is added to the parent children list. Returns a new <node> representing a CG_K.RigidGridMotion_t sub-tree. If the parent has already a child name RigidGridMotion

then only the RigidGridMotionType is created and OriginLocation is created chapter 11.2 Add Node RigidGridMotionType and add DataArray OriginLocation are the only required

`CGNS.PAT.cgnslib.newRind (parent, value)`

-Rind node creation -Rind

`'newNode:N=newRind'(parent:N,value=A)`

If a parent is given, the new <node> is added to the parent children list. Returns a new <node> representing a Rind_t sub-tree. chapter 4.8

`CGNS.PAT.cgnslib.newRotatingCoordinates (parent, rotcenter=[, 0.0, 0.0, 0.0], ratev=[, 0.0, 0.0, 0.0])`

-RotatingCoordinates node creation -RotatingCoordinates

`'newNode:N=newRotatingCoordinates'(parent:N,rotcenter=A,ratev=A)`

Returns a new <node> representing a RotatingCoordinates_t sub-tree. If a parent is given, the new <node> is added to the parent children list. rotcenter,ratev should be a real array. chapter 7.6 Add DataArray RotationRateVector,RotationCenter are required

`CGNS.PAT.cgnslib.newSimulationType (parent, stype='NonTimeAccurate')`

-SimulationType node creation -SimulationType

`'newNode:N=newSimulationType'(parent:N,stype=CG_K.SimulationType)`

If a parent is given, the new <node> is added to the parent children list. Returns a new <node> representing a SimulationType_t sub-tree. chapter 6.2

`CGNS.PAT.cgnslib.newThermalConductivityModel (parent, valueType='SutherlandLaw')`

-ThermalConductivityModel node creation -ThermalConductivityModel

`'newNode:N=newThermalConductivityModel'(parent:N,valueType:CG_K.ThermalConductivityModelType)`

Returns a new <node> representing a CG_K.ThermalConductivityModel_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name ThermalConductivityModel then only the ThermalConductivityModelType is created. chapter 10.5 Add node ThermalConductivityModelType is required

`CGNS.PAT.cgnslib.newThermalRelaxationModel (parent, valueType)`

-ThermalRelaxationModel node creation -ThermalRelaxationModel

`'newNode:N=newThermalRelaxationModel'(parent:N,valueType:CG_K.ThermalRelaxationModelType)`

Returns a new <node> representing a CG_K.ThermalRelaxationModel_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name ThermalRelaxationModel then only the ThermalRelaxationModelType is created. chapter 10.7 Add node ThermalRelaxationModelType is (r)

`CGNS.PAT.cgnslib.newTurbulenceClosure (parent, valueType='EddyViscosity')`

-TurbulenceClosure node creation -TurbulenceClosure

`'newNode:N=newTurbulenceClosure'(parent:N,valueType:CG_K.TurbulenceClosureType)`

Returns a new <node> representing a CG_K.TurbulenceClosure_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name TurbulenceClosure then only the ViscosityModelType is created. chapter 10.5 Add node TurbulenceClosureType is (r)

`CGNS.PAT.cgnslib.newTurbulenceModel (parent, valueType='OneEquation_SpalartAllmaras')`

-TurbulenceModel node creation -TurbulenceModel

`'newNode:N=newTurbulenceModel'(parent:N,valueType:CG_K.TurbulenceModelType)`

Returns a new <node> representing a CG_K.TurbulenceModel_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name TurbulenceModel then only the TurbulenceModelType is created. chapter 10.6.2 Add node TurbulenceModelType is (r)

CGNS.PAT.cgnslib.**newUserDefinedData** (*parent, name*)

-UserDefinedData node creation -UserDefinedData

'newNode:N='newUserDefinedData'(parent:N,name:S)'

Returns a new <node> representing a UserDefinedData_t sub-tree. If a parent is given, the new <node> is added to the parent children list. chapter 12.9

CGNS.PAT.cgnslib.**newViscosityModel** (*parent, valueType='SutherlandLaw'*)

-ViscosityModel node creation -ViscosityModel

'newNode:N='newViscosityModel'(parent:N,valueType:CG_K.ViscosityModelType)'

Returns a new <node> representing a CG_K.ViscosityModel_t sub-tree. If a parent is given, the new <node> is added to the parent children list. If the parent has already a child name ViscosityModel then only the ViscosityModelType is created. chapter 10.4 Add node ViscosityModelType is (r)

CGNS.PAT.cgnslib.**newZone** (*parent, name, size=(2, 2, 2), ztype='Structured', family=''*)

-Zone node creation -Zone

'newNode:N='newZone'(parent:N,name:S,size:(I*),ztype:CG_K.ZoneType)'

Returns a new <node> representing a Zone_t sub-tree. If a parent is given, the new <node> is added to the parent children list. Maps the 'cg_zone_write' MLL chapter 6.3

CGNS.PAT.cgnslib.**newZoneGridConnectivity** (*parent, name, ctype='Null', donor=''*)

-GridConnectivity node creation -Grid

'newNode:N='newZoneGridConnectivity'(parent:N,name:S,ctype:S)'

Creates a ZoneGridConnectivity_t sub-tree with a sub-node depending on the type of connectivity. This sub-node is returned. If a parent is given, the new <node> is added to the parent children list, the parent should be a Zone_t. chapter 8.1

CGNS.PAT.cgnslib.**newZoneIterativeData** (*parent, name*)

-ZoneIterativeData node creation -ZoneIterativeData

'newNode:N='newZoneIterativeData'(parent:N,name:S)'

Returns a new <node> representing a ZoneIterativeData_t sub-tree. If a parent is given, the new <node> is added to the parent children list. chapter 11.1.2

CGNS.PAT.SIDS

All the CGNS/SIDS structures using CGNS.PAT as API.

CGNS.PAT.CGNSKEYWORDS

CGNS.PAT.**cgnskeywords**

CGNS.PAT.CGNSERRORS

CGNS.PAT.**cgnserrors**

PYTHON MODULE INDEX

C

`CGNS.PAT.cgnslib`, 3