



pyCGNS.NAV/Manual

Release 4.0.1

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CONTENTS

The pyCGNS browser

The screenshot displays the pyCGNS browser interface. The main window shows a hierarchical tree of data for 'GOAHEAD-003-MainRotor'. The tree includes nodes for '1:block 1', '1:block 2', '1:block 3', 'ZoneType', 'ZoneBC', 'GridCoordinates', 'ZoneGridConnectivity', 'seg.3.3', 'seg.3.4', 'seg.3.5', 'seg.3.6', 'FlowSolution#EndOfRun', 'FlowS', '1:block', '2:block', '2:block', '2:block', '3:block', '3:block', '3:block', '4:block', '4:block', '4:block', '4:block', 'MR', 'Solver#Mask', 'type', 'dim1', 'dim2', 'blanking_criteria', 'NeighbourList', and 'OVERLAP'. The right pane shows the data for the selected node, 'GOAHEAD-003-MainRotor/1:block 3/GridCoordinates/CoordinateX', which is a 10x10 table of floating-point values.

pyS7: [GOAHEAD_mrb] View [01]

L	Type	T	M	C	Data
CGNSLibraryVersion	CGNSLibraryVersion_t	R4			3.
GOAHEAD-003-MainRotor	CGNSBase_t	I4			[3, 3]
1:block 1	Zone_t	I4			[[113, 205, 33],[112, 204, 32],[0, 0, 0]]
1:block 2	Zone_t	I4			[[97, 21, 13],[96, 20, 12],[0, 0, 0]]
1:block 3	Zone_t	I4			[[29, 61, 13],[28, 60, 12],[0, 0, 0]]
ZoneType	ZoneType_t	C1			Structured
ZoneBC	ZoneBC_t	MT			
GridCoordinates	GridCoordinates_t	MT			
ZoneGridConnectivity	ZoneGridConnectivity_t	MT			
seg.3.3	GridConnectivity1to1_t	C1			1:block 2
Transform	"int[IndexDimension]"	I4			[1, 2, 3]
PointRange	IndexRange_t	I4			[[1, 1],[1, 29],[1, 13]]
PointRangeDonor	IndexRange_t	I4			[[69, 21],[1, 97],[21, 13]]
seg.3.4	GridConnectivity1to1_t	C1			1:block 4
seg.3.5	GridConnectivity1to1_t	C1			1:block 1
seg.3.6	GridConnectivity1to1_t	C1			1:block 1
FlowSolution#EndOfRun	FlowSolution_t	MT			
FlowS					
1:block					
2:block					
2:block					
2:block					
2:block					
3:block					
3:block					
3:block					
3:block					
4:block					
4:block					
4:block					
4:block					
MR					
Solver#Mask	UserDefinedData_t	MT			
type	DataArray_t	C1			xray
dim1	DataArray_t	I4			500
dim2	DataArray_t	I4			500
blanking_criteria	DataArray_t	C1			cell_intersect
NeighbourList	DataArray_t	C1			GOAHEAD-003-Fuselage/ENGINE GOAHEAD-003-Fuselage
OVERLAP	Family_t	MT			

pyS7: Control panel [v0.9]

S	T	View	File	Dir	Note
T	1		GOAHEAD_mrb	/stck4/poinot/tmp/GOAHEAD-2/data	/
T	1		GOAHEAD_str	/stck4/poinot/tmp/GOAHEAD-2/data	/
T	1		GOAHEAD_hub	/stck4/poinot/tmp/GOAHEAD-2/data	/
T	2		GOAHEAD_mrb	/stck4/poinot/tmp/GOAHEAD-2/data	/GOAHEAD-003-MainRotor/1:block 4
D	3		GOAHEAD_mrb	/stck4/poinot/tmp/GOAHEAD-2/data	/GOAHEAD-003-MainRotor/1:block 3/GridCoordinates/CoordinateX

pyS7: [GOAHEAD_mrb] View [03]

	0	1	2	3	4	5	6	7	8	9
0	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6133e+00	1.6133e+00	1.6133e+00	1.6133e+00	1.6133e+00
1	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6133e+00	1.6133e+00	1.6133e+00	1.6133e+00
2	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00
3	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00	1.6132e+00
4	1.6132e+00	1.6131e+00	1.6131e+00	1.6131e+00	1.6131e+00	1.6131e+00	1.6131e+00	1.6131e+00	1.6131e+00	1.6131e+00
5	1.6130e+00	1.6130e+00	1.6130e+00	1.6130e+00	1.6130e+00	1.6130e+00	1.6130e+00	1.6130e+00	1.6130e+00	1.6130e+00
6	1.6129e+00	1.6129e+00	1.6129e+00	1.6129e+00	1.6129e+00	1.6129e+00	1.6129e+00	1.6129e+00	1.6129e+00	1.6129e+00
7	1.6128e+00	1.6128e+00	1.6128e+00	1.6128e+00	1.6128e+00	1.6127e+00	1.6127e+00	1.6127e+00	1.6127e+00	1.6127e+00
8	1.6127e+00	1.6127e+00	1.6126e+00	1.6126e+00	1.6126e+00	1.6126e+00	1.6126e+00	1.6126e+00	1.6126e+00	1.6126e+00
9	1.6126e+00	1.6126e+00	1.6126e+00	1.6126e+00	1.6126e+00	1.6126e+00	1.6126e+00	1.6126e+00	1.6126e+00	1.6126e+00

pyS7: [GOAHEAD_mrb] View [03]

/GOAHEAD-003-MainRotor/1:block 3/GridCoordinates/CoordinateX