

**root node**

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graph TD; Root[root node] --> CGNS[Name=CGNSLibraryVersion<br/>Label=CGNSLibraryVersion_t<br/>Data=(version number)]; Root --> Base[Name=Base<br/>Label=CGNSBase_t<br/>Data=CellDimension=3,<br/>PhysicalDimension=3]; Base --> Zone1[Name=Zone 1<br/>Label=Zone_t<br/>Data=VertexSize=(21,17,9),<br/>CellSize=(20,16,8),<br/>VertexSizeBoundary=(0,0,0)]; Zone1 --> ZoneType[Name=ZoneType<br/>Label=ZoneType_t<br/>Data=Structured]; Zone1 --> GridCoord[Name=GridCoordinates<br/>Label=GridCoordinates_t<br/>Data=MT]; Zone1 --> FlowSol[Name=FlowSolution<br/>Label=FlowSolution_t<br/>Data=MT]; GridCoord --> GridLoc[Name=GridLocation<br/>Label=GridLocation_t<br/>Data=Vertex]; FlowSol --> Density[Name=Density<br/>Label=DataArray_t<br/>Data=r(1,1,1) to r(21,17,9)]; FlowSol --> Pressure[Name=Pressure<br/>Label=DataArray_t<br/>Data=p(1,1,1) to p(21,17,9)];
```

**Name=CGNSLibraryVersion**  
**Label=CGNSLibraryVersion\_t**  
**Data=(version number)**

**Name=Base**  
**Label=CGNSBase\_t**  
**Data=CellDimension=3,**  
**PhysicalDimension=3**

**Name=Zone 1**  
**Label=Zone\_t**  
**Data=VertexSize=(21,17,9),**  
**CellSize=(20,16,8),**  
**VertexSizeBoundary=(0,0,0)**

**Name=ZoneType**  
**Label=ZoneType\_t**  
**Data=Structured**

**Name=GridCoordinates**  
**Label=GridCoordinates\_t**  
**Data=MT**

**Name=FlowSolution**  
**Label=FlowSolution\_t**  
**Data=MT**

**Name=GridLocation**  
**Label=GridLocation\_t**  
**Data=Vertex**

**Name=Density**  
**Label=DataArray\_t**  
**Data=r(1,1,1) to r(21,17,9)**

**Name=Pressure**  
**Label=DataArray\_t**  
**Data=p(1,1,1) to p(21,17,9)**