Scope: UserDefined extension

Under the UserDefined\_t node, the following children are currently allowed:

Descriptor\_t
DataClass\_t
DimensionalUnits\_t
DataArray\_t

We propose the capability to also allow the following (optional) nodes under UserDefined t:

PointRange IndexRange\_t PointList IndexArray\_t GridLocation GridLocation\_t FamilyName FamilyName\_t Ordinal Ordinal\_t

Since there are currently no separate functions to write the PointRange/PointList nodes (the arguments are always passed with the function that creates the parent node itself), new MLL functions must be created.

One way to do this would be to create 3 new functions for writing/reading a point set. (See also proposal for BCDataSet extension.) These might look like:

The read is made with 2 functions because of the Fortran interface, to return the information about the size of the array "pnts" prior to reading this array. This is how it was done for cg\_boco\_info/read and cg\_conn\_info/read. These calls would be used in conjunction with cg\_goto.