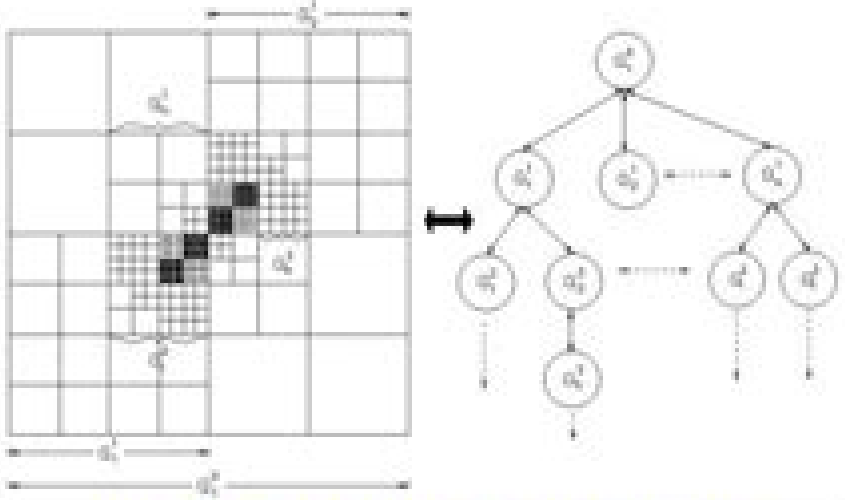
Partitioning Adaptive Grid Hierarchies

Adaptive Mesh Refinement

- *Start with a base coarse grid with minimum acceptable resolution*
- *Tag regions in the domain requiring additional resolution, cluster the tagged cells, and fit finer grids over these clusters*
- *Proceed recursively so that regions on the finer grid requiring more resolution are similarly tagged and even finer grids are overlaid on these regions*
- *Resulting grid structure is a dynamic adaptive grid hierarchy*



The Berger-Oliger Algorithm

```
Recursive Procedure Integrate(level)
        If (RegridTime) Regrid
        Step Δt on all grids at level "level"
        If (level + 1 exists)
                Integrate (level + 1)
                Update(level, level + 1)
        End If
End Recursion
level = 0
Integrate(level)
```

Efficient Partitioning Of Dynamic Structured Grid Hierarchies

Jack Dongarra

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