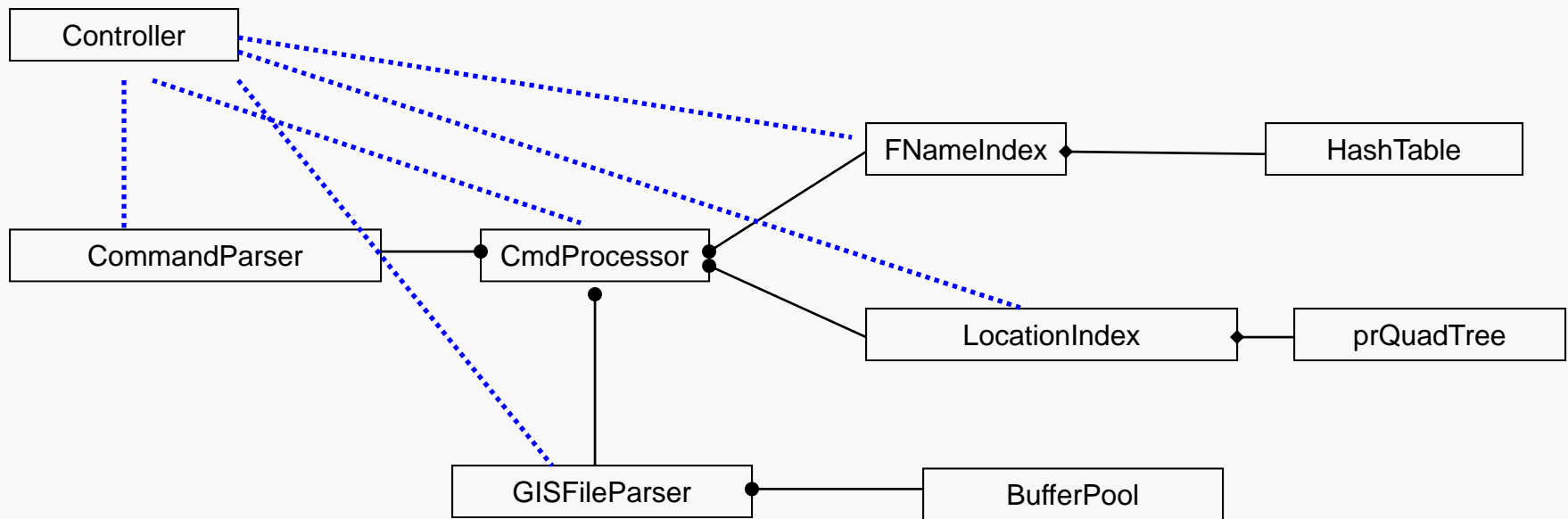


A little bit of Abbot and Booch on the specification yields some candidates:

- file
- GIS record
- geographic coordinate
- bucket PR quadtree
- index entries
- FID
- hash table
- file offset

A logical consideration of the specified system suggest some more:

- parser for the command file
- parser for the GIS file
- FID index
- geographic coordinate index
- controller
- system initializer
- latitude and longitude



There would be index objects used only by the FNameIndex and HashTable, and index objects used only by the LocationIndex and prQuadtree.

There may be alternate organizations. For instance, my design includes a dbParser object that translates between String objects (as stored in the db file) and GISRecord objects; that parser could sit between the CmdProcessor and the BufferPool or between the BufferPool and the db file.