**Archiver**

Create indexer, compressor, block writer and indicator objects and start processing

**Compression Thread**

Compress source chunk of data, pass the job to the writer queue

**Writer Thread**

Store compressed chunks of data as data blocks

**Compressor Job Queue**

**Unarchiver**

Read index and file data Create folders  
Restore files

**FileIndexer**

Traverse folders  
Create file index  
Read file chunks  
Enqueue compression jobs

**Compressor**

Starts / stop threads  
Keep compression job queue

**BlockWriter**

Start / stop writer thread

Keep writer job queue

**ProgressIndicator**

Show progress % and time elapsed

**Writer Job Queue**

**Archiver component diagram**

Uses

Uses

Uses

Uses

Owns

Owns

Uses

Uses

**FileIndexer**

**Compressor Threads**

**Writer Thread**

**Compress   
job queue**

**Write job   
queue**

**Dataflow diagram**

File and folder data

Compress jobs w/ file chunks

Write jobs w/ compressed data

Data blocks

Index blocks

**Data file**

**File system**

**Index file**