\* Versions -19 fsimage layout (with changes from -16 up):

\* Image version (int)

\* Namepsace ID (int)

\* NumFiles (long)

\* Generation stamp (long)

\* INodes (count = NumFiles)

\* INode

\* Path (String)

\* Replication (short)

\* Modification Time (long as date)

\* Access Time (long) // added in -16

\* Block size (long)

\* Num blocks (int)

\* Blocks (count = Num blocks)

\* Block

\* Block ID (long)

\* Num bytes (long)

\* Generation stamp (long)

\* Namespace Quota (long)

\* Diskspace Quota (long) // added in -18

\* Permissions

\* Username (String)

\* Groupname (String)

\* OctalPerms (short -> String) // Modified in -19

\* Symlink (String) // added in -23

\* NumINodesUnderConstruction (int)

\* INodesUnderConstruction (count = NumINodesUnderConstruction)

\* INodeUnderConstruction

\* Path (bytes as string)

\* Replication (short)

\* Modification time (long as date)

\* Preferred block size (long)

\* Num blocks (int)

\* Blocks

\* Block

\* Block ID (long)

\* Num bytes (long)

\* Generation stamp (long)

\* Permissions

\* Username (String)

\* Groupname (String)

\* OctalPerms (short -> String)

\* Client Name (String)

\* Client Machine (String)

\* NumLocations (int)

\* DatanodeDescriptors (count = numLocations) // not loaded into memory

\* short // but still in file

\* long

\* string

\* long

\* int

\* string

\* string

\* enum

\* CurrentDelegationKeyId (int)

\* NumDelegationKeys (int)

\* DelegationKeys (count = NumDelegationKeys)

\* DelegationKeyLength (vint)

\* DelegationKey (bytes)

\* DelegationTokenSequenceNumber (int)

\* NumDelegationTokens (int)

\* DelegationTokens (count = NumDelegationTokens)

\* DelegationTokenIdentifier

\* owner (String)

\* renewer (String)

\* realUser (String)

\* issueDate (vlong)

\* maxDate (vlong)

\* sequenceNumber (vint)

\* masterKeyId (vint)

\* expiryTime (long)

\*

\*/