package com.twitter.tweetypie.caching

/\*\*

\* Encodes the possible states of a value loaded from memcached.

\*

\* @see [[ValueSerializer]] and [[CacheOperations]]

\*/

sealed trait CacheResult[+V]

object CacheResult {

/\*\*

\* Signals that the value could not be successfully loaded from

\* cache. `Failure` values should not be written back to cache.

\*

\* This value may result from an error talking to the memcached

\* instance or it may be returned from the Serializer when the value

\* should not be reused, but should also not be overwritten.

\*/

final case class Failure(e: Throwable) extends CacheResult[Nothing]

/\*\*

\* Signals that the cache load attempt was successful, but there was

\* not a usable value.

\*

\* When processing a `Miss`, the value should be written back to

\* cache if it loads successfully.

\*/

case object Miss extends CacheResult[Nothing]

/\*\*

\* Signals that the value was found in cache.

\*

\* It is not necessary to load the value from the original source.

\*/

case class Fresh[V](value: V) extends CacheResult[V]

/\*\*

\* Signals that the value was found in cache.

\*

\* This value should be used, but it should be refreshed

\* out-of-band.

\*/

case class Stale[V](value: V) extends CacheResult[V]

}