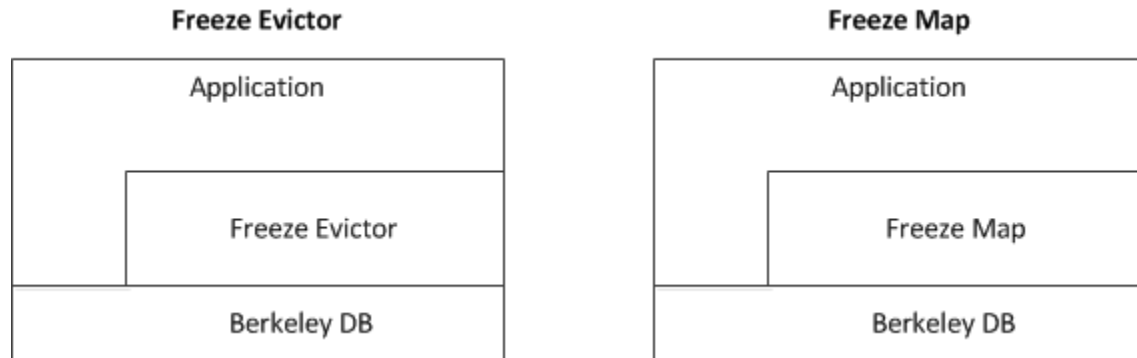


Freeze

Freeze is a collection of services that simplify the use of persistence in Ice applications, as shown below:



Layer diagram for Freeze persistence services.

The [Freeze map](#) is an associative container mapping any Slice key and value types, providing a convenient and familiar interface to a persistent map. [Freeze evictors](#) are an especially powerful facility for supporting persistent Ice objects in a highly-scalable implementation.

The Freeze persistence services comprise:

- **Freeze evictor**
A highly-scalable implementation of an Ice [servant locator](#) that provides automatic persistence and eviction of servants with only minimal application code.
- **Freeze map**
A generic associative container. Code generators are provided that produce type-specific maps for Slice key and value types. Applications interact with a Freeze map just like any other associative container, except the keys and values of a Freeze map are persistent.

As you will see from the examples in this discussion, integrating a Freeze map or evictor into your Ice application is quite straightforward: once you define your persistent data in Slice, Freeze manages the mundane details of persistence.

Freeze is implemented using Berkeley DB, a compact and high-performance embedded database. The Freeze map and evictor APIs insulate applications from the Berkeley DB API, but do not prevent applications from interacting directly with Berkeley DB if necessary.

Topics

- [Freeze Evictors](#)
- [Freeze Maps](#)
- [Freeze Catalogs](#)
- [Backing Up Freeze Databases](#)