

Table 1: Generics.Collections compatibility

Delphi	FreePascal		
	Impl.	Parent	Replacement
TArray			TArrayHelper<T> ¹
TCollectionNotification	✓		
TCollectionNotifyEvent	✓		
TEnumerator<T>	✓	✓	
TEnumerable<T>	✓	✓	
TList<T>	✓	TCustomList<T>	
TThreadList<T>			
TQueue<T>	✓	TCustomList<T>	
TStack<T>	✓	TCustomList<T>	
TPair<TKey, TValue>	✓		
TDictionary <TKey, TValue>	✓	TOpenAddressingLP <TKey, TValue>	
TObjectList<T: class>	✓	✓	
TObjectQueue<T: class>	✓	✓	
TObjectStack<T: class>	✓	✓	
TDictionaryOwnerships	✓		
TObjectDictionary <TKey, TValue>	✓	TObjectOpenAddressingLP <TKey, TValue>	
TThreadedQueue<T>			
PObject	✓		
InCircularRange	✓		

¹ TArrayHelper<T> will be withdrawn when the FPC syntax will make parameterized methods available.

Table 2: Generics.Defaults compatibility

Delphi	FreePascal		
	Impl.	Parent	Replacement
IComparer<T>	✓	✓	
IEqualityComparer<T>	✓	✓	
TComparison<T> ²			TOnComparison<T> TComparisonFunc<T>
TComparer<T>	✓	✓	
TEqualityComparison<T> ²			TOnEqualityComparison<T> TEqualityComparisonFunc<T>
THasher<T> ²			TOnHasher<T> THasherFunc<T>
TEqualityComparer<T>	✓	✓	
TSingletonImplementation	✓	TRawInterface	
TDelegatedEqualityComparer<T>			TDelegatedEqualityComparerEvents<T> TDelegatedEqualityComparerFunc<T>
TDelegatedComparer<T>			TDelegatedComparerEvents<T> TDelegatedComparerFunc<T>
TCustomComparer<T>	✓	✓	
TStringComparer	✓	TGStringComparer<string> ³	
TIStringComparer	✓	TGIStringComparer<string> ³	
TOrdinalIStringComparer	✓	TGOrdinalIStringComparer <string> ³	
BobJenkinsHash	✓		
BinaryCompare	✓		
TDefaultGenericInterface	✓		
.LookupVtableInfo	✓		

² FreePascal does not run anonymous methods. As a replacement, there has been provided an operation of methods and ordinary functions, which can substitute the new structures until their introduction.

³ The name of the class is going to be changed. The prefix TG will be replaced with a standard T. A temporary name with the TG prefix is caused by an error:
<http://bugs.freepascal.org/view.php?id=26030>.

Table 3: Legend for table 1 and 2

Color	Meaning
■	No implementation or very incompatible.
■	Some of the elements may be incompatible (usually a parent class). In such cases, there is usually a substitute/alternative class which is more compatible with the original.
■	Full or large compatibility on the level of the classes public interface.

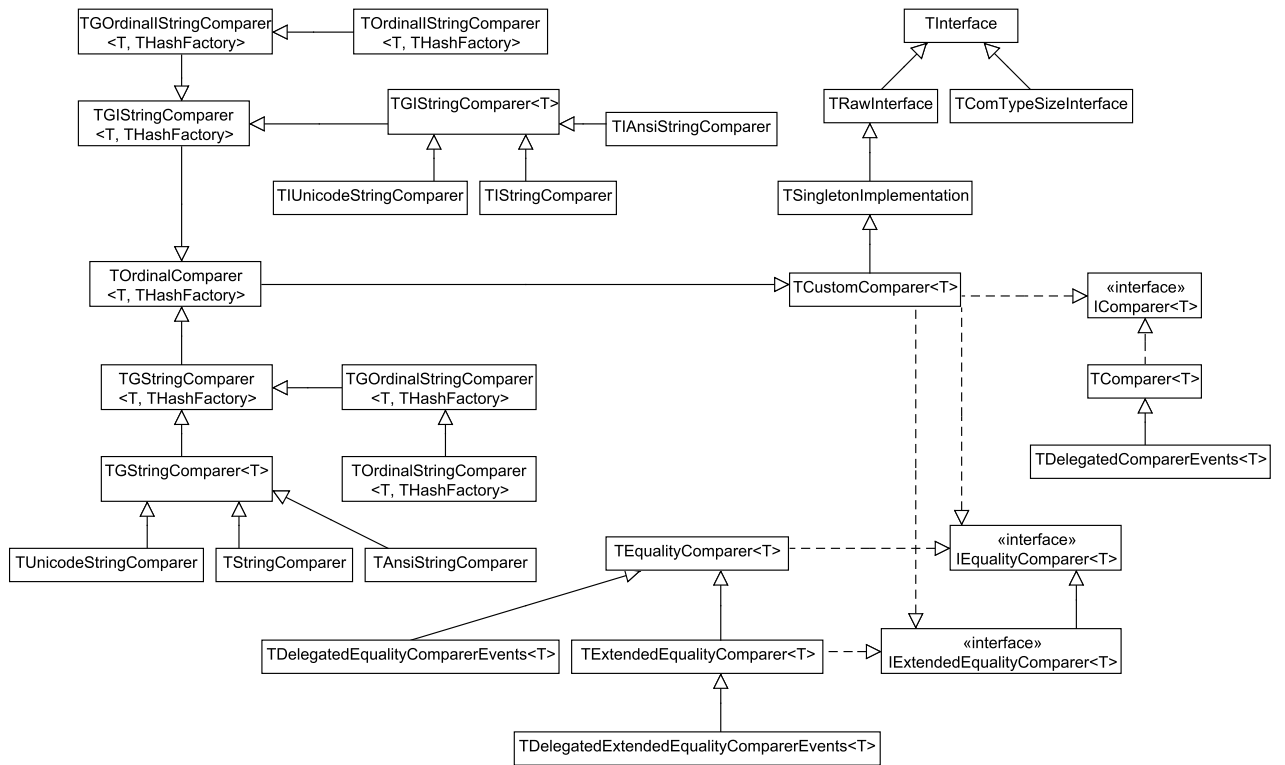


Figure 3: Singletons and comparators

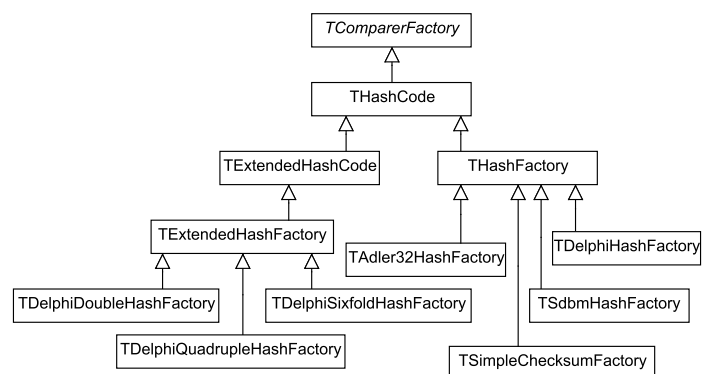


Figure 4: Hash factory