```
Manually declaring transactional/persistent components
                                                                                    Unmodified syntax and semantics
1 void TMhashtable update (TM ARGDECL hashtable t* hashtablePtr,
                                                                       1 void hashtable update(hashtable t* hashtablePtr,
                                                                                               void* keyPtr, void* dataPtr) {
                          void* kevPtr, void* dataPtr)
     list t* chainPtr = get chain(hashtablePtr, keyPtr);
                                                                            list_t* chainPtr = get qhain(hashtablePtr, kevPtr);
                                                                            pair t* pairPtr;
     pair t* pairPtr;
                                       Transactional interface
                                                                            pair t updatePair;
    pair t updatePair;
                                       of third-party libraries
                                                                            updatePair.firstPtr = kevPtr;
     updatePair.firstPtr = keyPtr;
                                                                            pairPtr = (pair t*)listVfind(chainPtr, &updatePair);
     pairPtr = (pair t*) TMLIST FIND (chainPtr, &updatePair);
                                                                            pairPtr->secondPtr = dataPtr;
     pairPtr->secondPtr = dataPtr;
                                                                                                Valid operation, persistent
9 }
                            Prohibited operation.
                                                                                           memory will ensure crash consistency
                            will cause a runtime error
```