```
printable/sys.h
                     Mon Sep 23 00:12:37 2019
// [..]
// EXTENSION 2017-02-07
/**
 * We want to provide to the kernel the ability to allow user processes to make
 * their virtual pages permanent. To this end, we will provide the resident()
 * primitive which will make the addressed virtual pages permanent until the
 * nonresident() primitive is used to undo the operation.
 */
/**
* User Primitives declarations.
/**
 */
extern "C" natq countres();
* Makes permanent all virtual pages starting from address base (inclusive) till
 * address base+size (exclusive). If the primitive execution succedes not more
 * page fault can happen for the addressed virtual pages (since there are
 * permanently stored in the physical memory) until the nonresident() is called.
 * This means that the primitive will also take care of loading into main memory
 * the missing pages. This might also be the reason of a failure if there is not
 * enough memory.
 * @param base virtual pages starting address;
 * @param size virtual pages length;
 * @return the id to be given to the nonresident() primitive to undo the
           operation or Oxffffffff in case of failure.
extern "C" natl resident (addr base, natq size);
/**
 * Reverts the operation performed using the resident() primitive.
 * @param id the id of the operation to be undone.
 * /
```

extern "C" void nonresident(natl id);

// EXTENSION 2017-02-07

// [...]