```
 *
 * Note: CULA Premium and double-precision GPU hardware are required to run the
 * double-precision examples
 *
 * Note: this example performs a system solve on an identity matrix against a
 * random vector, the result of which is that same random vector.  This is not
 * true in the general case and is only appropriate for this example.  For a
 * general case check, the product A*X should be checked against B.  Note that
 * because A is modifed by GESV, a copy of A would be needed with which to do
 * the verification.
 */
```