AsyncWork is U++ take on std::future mechanism. The difference is that AsynWork is using CoWork thread pool as backend and, more importantly, allows for cancelation of job.

```
#include <Core/Core.h>
using namespace Upp;
CONSOLE_APP_MAIN
StdLogSetup(LOG_FILE|LOG_COUT);
auto a = Async([(int n) -> double {
 double f = 1;
 for(int i = 2; i <= n; i++)
 f *= i;
 return f;
}, 100); // Schedules job to be executed by threadpool, returns AsyncWork for the return value
and job control
DUMP(a.Get()); // Makes sure job is finished (can execute it if it has not started yet), returns the
result
auto b = Async([] { throw "error"; });
try {
 b.Get(); // exception is propagated
}
catch(...) {
 LOG("Exception has been caught");
}
auto c = Async([] {
 for(;;)
 if(CoWork::IsCanceled()) {
  LOG("Work was canceled");
  break:
 }
});
Sleep(100); // make it chance to start
// c destructor cancels the work (can be explicitly canceled by Cancel method too)
```