Московский Авиационный Институт (Национальный Исследовательский Университет)

Институт №8 “Компьютерные науки и прикладная математика” Кафедра №806 “Вычислительная математика и программирование”

# Лабораторная работа №3 по курсу

**«Операционные системы»**

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Дата: 11.03.25

Москва, 2025

# Постановка задачи

## Вариант 13.

# Родительский процесс создает два дочерних процесса. Перенаправление стандартных потоков ввода-вывода показано на картинке выше. Child1 и Child2 можно «соединить» между собой дополнительным каналом. Родительский и дочерний процесс должны быть представлены разными программами.

# Родительский процесс принимает от пользователя строки произвольной длины и пересылает их в pipe1. Процесс child1 и child2 производят работу над строками. Child2 пересылает результат своей работы родительскому процессу. Родительский процесс полученный результат выводит в стандартный поток вывода.

# Child1 переводит строки в нижний регистр. Child2 превращает все пробельные символы в символ «\_».

# Общий метод и алгоритм решения

# Использованные системные вызовы:

1. **Запуск процессов:**

**CreateProcessA()** — используется для создания нового процесса. С помощью данного вызова я запустила два дочерних процесса: Child1.exe и Child2.exe. Этот вызов позволяет задать параметры запуска процесса, такие как имя исполняемого файла и командная строка.

1. **Именованные каналы:**

**CreateNamedPipeA()** — создает именованный канал, через который осуществляется обмен данными между процессами. Я использовала этот вызов для создания двух каналов: Pipe1 для отправки данных от основного процесса к первому дочернему процессу и Pipe2\_OUT для приема результата от второго дочернего процесса.

**CreateFileA()** — открывает уже созданный именованный канал для чтения или записи. В дочерних процессах я открывала каналы Pipe1 и Pipe2\_IN с использованием этой функции.

**WriteFile()** — осуществляет запись данных в именованный канал. Данный вызов использовался для передачи данных между процессами.

**ReadFile()** — читает данные из именованного канала. Применялся для получения переданных данных в соответствующих процессах.

**WaitNamedPipeA()** — ожидает доступность именованного канала. Этот вызов позволил мне обеспечить синхронизацию процессов, ожидая, пока создадутся необходимые каналы.

1. **Завершение и управление процессами:**

**TerminateProcess()** — завершает выполнение запущенного процесса. Я использовала этот вызов для корректного завершения дочерних процессов после выполнения всех операций.

**CloseHandle()** — закрывает дескрипторы открытых объектов, освобождая занятые системой ресурсы. Я закрыла дескрипторы созданных каналов и процессов после окончания работы с ними.

# Описание работы программы

1. **Parent.cpp:**

Сначала создается два именованных канала: Pipe1 для отправки данных в первый дочерний процесс и Pipe2\_OUT для получения обработанного результата от второго дочернего процесса.

Затем запускаются два дочерних процесса: Child1.exe и Child2.exe.

После этого программа ожидает ввод строки от пользователя. Если введена команда "exit", программа прекращает работу. Иначе введенные данные отправляются в первый дочерний процесс через Pipe1.

Программа считывает результат обработки из Pipe2\_OUT и отображает его на экране.

1. **Child1.cpp:**

Дочерний процесс ожидает создание канала Pipe1 от основного процесса и открывает его для чтения.

Получив данные от основного процесса, он переводит все символы строки в нижний регистр и отправляет их второму дочернему процессу через канал Pipe2\_IN.

1. **Child2.cpp:**

Процесс ожидает создания канала Pipe2\_IN от первого дочернего процесса и открывает его для чтения.

Получив данные от первого дочернего процесса, он заменяет все пробелы на символ подчеркивания \_ и возвращает результат основному процессу через канал Pipe2\_OUT.

# Код программы

# Parent.cpp

#include <windows.h>

#include <iostream>

#include <string>

#define SHARED\_MEMORY\_NAME "Global\\SharedMemory"

#define SEM\_EMPTY\_NAME "Global\\SemaphoreEmpty"

#define SEM\_FULL\_NAME "Global\\SemaphoreFull"

#define BUFFER\_SIZE 1024

void ErrorExit(const char\* msg) {

std::cerr << msg << " (" << GetLastError() << ")" << std::endl;

exit(1);

}

int main() {

setlocale(LC\_ALL, "RUS");

HANDLE hMapFile = CreateFileMappingA(INVALID\_HANDLE\_VALUE, nullptr, PAGE\_READWRITE, 0, BUFFER\_SIZE, SHARED\_MEMORY\_NAME);

if (!hMapFile) ErrorExit("Не удалось создать разделяемую память");

char\* sharedMemory = (char\*)MapViewOfFile(hMapFile, FILE\_MAP\_ALL\_ACCESS, 0, 0, BUFFER\_SIZE);

if (!sharedMemory) ErrorExit("Не удалось отобразить разделяемую память");

HANDLE semEmpty = CreateSemaphoreA(nullptr, 1, 1, SEM\_EMPTY\_NAME);

HANDLE semFull = CreateSemaphoreA(nullptr, 0, 1, SEM\_FULL\_NAME);

if (!semEmpty || !semFull) ErrorExit("Не удалось создать семафоры");

STARTUPINFOA si1 = { sizeof(si1) }, si2 = { sizeof(si2) };

PROCESS\_INFORMATION pi1, pi2;

if (!CreateProcessA("child1.exe", nullptr, nullptr, nullptr, FALSE, 0, nullptr, nullptr, &si1, &pi1))

ErrorExit("Не удалось запустить child1");

if (!CreateProcessA("child2.exe", nullptr, nullptr, nullptr, FALSE, 0, nullptr, nullptr, &si2, &pi2))

ErrorExit("Не удалось запустить child2");

std::string input;

while (true) {

std::cout << "Введите строку (или 'exit' для выхода): ";

std::getline(std::cin, input);

if (input == "exit") break;

WaitForSingleObject(semEmpty, INFINITE);

memset(sharedMemory, 0, BUFFER\_SIZE);

strcpy\_s(sharedMemory, BUFFER\_SIZE, input.c\_str());

ReleaseSemaphore(semFull, 1, nullptr);

WaitForSingleObject(semFull, INFINITE);

std::cout << "Результат: " << sharedMemory << std::endl;

ReleaseSemaphore(semEmpty, 1, nullptr);

}

UnmapViewOfFile(sharedMemory);

CloseHandle(hMapFile);

CloseHandle(semEmpty);

CloseHandle(semFull);

CloseHandle(pi1.hProcess);

CloseHandle(pi2.hProcess);

return 0;

}

# Child1.cpp

#include <windows.h>

#include <iostream>

#define SHARED\_MEMORY\_NAME "Global\\SharedMemory"

#define SEM\_EMPTY\_NAME "Global\\SemaphoreEmpty"

#define SEM\_FULL\_NAME "Global\\SemaphoreFull"

#define BUFFER\_SIZE 1024

void ErrorExit(const char\* msg) {

std::cerr << msg << " (" << GetLastError() << ")" << std::endl;

exit(1);

}

int main() {

setlocale(LC\_ALL, "RUS");

HANDLE hMapFile = OpenFileMappingA(FILE\_MAP\_ALL\_ACCESS, FALSE, SHARED\_MEMORY\_NAME);

if (!hMapFile) ErrorExit("Не удалось открыть разделяемую память");

char\* sharedMemory = (char\*)MapViewOfFile(hMapFile, FILE\_MAP\_ALL\_ACCESS, 0, 0, BUFFER\_SIZE);

if (!sharedMemory) ErrorExit("Не удалось отобразить разделяемую память");

HANDLE semEmpty = OpenSemaphoreA(SEMAPHORE\_ALL\_ACCESS, FALSE, SEM\_EMPTY\_NAME);

HANDLE semFull = OpenSemaphoreA(SEMAPHORE\_ALL\_ACCESS, FALSE, SEM\_FULL\_NAME);

if (!semEmpty || !semFull) ErrorExit("Не удалось открыть семафоры");

while (true) {

WaitForSingleObject(semFull, INFINITE);

for (int i = 0; sharedMemory[i] != '\0'; i++)

sharedMemory[i] = std::tolower(sharedMemory[i]);

ReleaseSemaphore(semFull, 1, nullptr);

}

UnmapViewOfFile(sharedMemory);

CloseHandle(hMapFile);

return 0;

}

# Child2.cpp

#include <windows.h>

#include <iostream>

#define SHARED\_MEMORY\_NAME "Global\\SharedMemory"

#define SEM\_EMPTY\_NAME "Global\\SemaphoreEmpty"

#define SEM\_FULL\_NAME "Global\\SemaphoreFull"

#define BUFFER\_SIZE 1024

void ErrorExit(const char\* msg) {

std::cerr << msg << " (" << GetLastError() << ")" << std::endl;

exit(1);

}

int main() {

setlocale(LC\_ALL, "RUS");

HANDLE hMapFile = OpenFileMappingA(FILE\_MAP\_ALL\_ACCESS, FALSE, SHARED\_MEMORY\_NAME);

if (!hMapFile) ErrorExit("Не удалось открыть разделяемую память");

char\* sharedMemory = (char\*)MapViewOfFile(hMapFile, FILE\_MAP\_ALL\_ACCESS, 0, 0, BUFFER\_SIZE);

if (!sharedMemory) ErrorExit("Не удалось отобразить разделяемую память");

HANDLE semEmpty = OpenSemaphoreA(SEMAPHORE\_ALL\_ACCESS, FALSE, SEM\_EMPTY\_NAME);

HANDLE semFull = OpenSemaphoreA(SEMAPHORE\_ALL\_ACCESS, FALSE, SEM\_FULL\_NAME);

if (!semEmpty || !semFull) ErrorExit("Не удалось открыть семафоры");

while (true) {

WaitForSingleObject(semFull, INFINITE);

for (int i = 0; sharedMemory[i] != '\0'; i++)

if (sharedMemory[i] == ' ') sharedMemory[i] = '\_';

ReleaseSemaphore(semFull, 1, nullptr);

}

UnmapViewOfFile(sharedMemory);

CloseHandle(hMapFile);

return 0;

}

# Протокол работы программ

# Тестирование:

# 

# Process Monitor:

# 22:28:56,4302252 Parent.exe 6016 Thread Create SUCCESS Thread ID: 21728

# 22:28:56,4693380 Parent.exe 6016 Load Image D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS Image Base: 0x7ff68fbe0000, Image Size: 0x2e000

# 22:28:56,4694544 Parent.exe 6016 Load Image C:\Windows\System32\ntdll.dll SUCCESS Image Base: 0x7ff9de610000, Image Size: 0x217000

# 22:28:56,4696170 Parent.exe 6016 CreateFile C:\Windows\Prefetch\PARENT.EXE-8E76ACB8.pf SUCCESS Desired Access: Generic Read, Disposition: Open, Options: Synchronous IO Non-Alert, Attributes: n/a, ShareMode: None, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,4700417 Parent.exe 6016 QueryEAFile C:\Windows\Prefetch\PARENT.EXE-8E76ACB8.pf SUCCESS

# 22:28:56,4707917 Parent.exe 6016 QueryStandardInformationFile C:\Windows\Prefetch\PARENT.EXE-8E76ACB8.pf SUCCESS AllocationSize: 4 096, EndOfFile: 3 123, NumberOfLinks: 1, DeletePending: False, Directory: False

# 22:28:56,4708228 Parent.exe 6016 ReadFile C:\Windows\Prefetch\PARENT.EXE-8E76ACB8.pf SUCCESS Offset: 0, Length: 3 123, Priority: Normal

# 22:28:56,4708685 Parent.exe 6016 ReadFile C:\Windows\Prefetch\PARENT.EXE-8E76ACB8.pf SUCCESS Offset: 0, Length: 3 123, I/O Flags: Non-cached, Paging I/O, Priority: Normal

# 22:28:56,4711662 Parent.exe 6016 CloseFile C:\Windows\Prefetch\PARENT.EXE-8E76ACB8.pf SUCCESS

# 22:28:56,4781662 Parent.exe 6016 RegQueryValue HKLM\System\CurrentControlSet\Control\Nls\CodePage\ACP SUCCESS Type: REG\_SZ, Length: 10, Data: 1251

# 22:28:56,4781849 Parent.exe 6016 RegQueryValue HKLM\System\CurrentControlSet\Control\Nls\CodePage\OEMCP SUCCESS Type: REG\_SZ, Length: 8, Data: 866

# 22:28:56,4793410 Parent.exe 6016 CreateFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug SUCCESS Desired Access: Execute/Traverse, Synchronize, Disposition: Open, Options: Directory, Synchronous IO Non-Alert, Attributes: n/a, ShareMode: Read, Write, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,4795272 Parent.exe 6016 Load Image C:\Windows\System32\kernel32.dll SUCCESS Image Base: 0x7ff9dce80000, Image Size: 0xc4000

# 22:28:56,4797575 Parent.exe 6016 Load Image C:\Windows\System32\KernelBase.dll SUCCESS Image Base: 0x7ff9dba30000, Image Size: 0x3d1000

# 22:28:56,4812087 Parent.exe 6016 CreateFile C:\Windows\System32\conhost.exe SUCCESS Desired Access: Execute/Traverse, Synchronize, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,4813215 Parent.exe 6016 CreateFileMapping C:\Windows\System32\conhost.exe FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE|PAGE\_NOCACHE

# 22:28:56,4813887 Parent.exe 6016 CreateFileMapping C:\Windows\System32\conhost.exe SUCCESS SyncType: SyncTypeOther

# 22:28:56,4856797 Parent.exe 6016 Process Create C:\WINDOWS\System32\Conhost.exe SUCCESS PID: 21968, Command line: \??\C:\WINDOWS\system32\conhost.exe 0xffffffff -ForceV1

# 22:28:56,4857516 Parent.exe 6016 CloseFile C:\Windows\System32\conhost.exe SUCCESS

# 22:28:56,6549879 Parent.exe 6016 RegQueryValue HKLM\System\CurrentControlSet\Control\FileSystem\LongPathsEnabled SUCCESS Type: REG\_DWORD, Length: 4, Data: 1

# 22:28:56,6554656 Parent.exe 6016 CreateFile C:\Windows\System32\apphelp.dll SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6555338 Parent.exe 6016 QueryBasicInformationFile C:\Windows\System32\apphelp.dll SUCCESS CreationTime: 26.02.2025 13:24:05, LastAccessTime: 06.03.2025 22:28:55, LastWriteTime: 26.02.2025 13:24:05, ChangeTime: 27.02.2025 1:14:05, FileAttributes: A

# 22:28:56,6555576 Parent.exe 6016 CloseFile C:\Windows\System32\apphelp.dll SUCCESS

# 22:28:56,6557952 Parent.exe 6016 CreateFile C:\Windows\System32\apphelp.dll SUCCESS Desired Access: Read Data/List Directory, Execute/Traverse, Synchronize, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6558967 Parent.exe 6016 CreateFileMapping C:\Windows\System32\apphelp.dll FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READ|PAGE\_NOCACHE

# 22:28:56,6559612 Parent.exe 6016 CreateFileMapping C:\Windows\System32\apphelp.dll SUCCESS SyncType: SyncTypeOther

# 22:28:56,6561456 Parent.exe 6016 Load Image C:\Windows\System32\apphelp.dll SUCCESS Image Base: 0x7ff9d4610000, Image Size: 0x97000

# 22:28:56,6564701 Parent.exe 6016 CloseFile C:\Windows\System32\apphelp.dll SUCCESS

# 22:28:56,6573233 Parent.exe 6016 CreateFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS Desired Access: Read Control, Disposition: Open, Options: , Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6573561 Parent.exe 6016 QuerySecurityFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe BUFFER OVERFLOW Information: Owner

# 22:28:56,6573702 Parent.exe 6016 QuerySecurityFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS Information: Owner

# 22:28:56,6573833 Parent.exe 6016 CloseFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS

# 22:28:56,6575094 Parent.exe 6016 CreateFile C:\Windows\System32\ntdll.dll SUCCESS Desired Access: Read Control, Disposition: Open, Options: , Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6575700 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\ntdll.dll BUFFER OVERFLOW Information: Owner

# 22:28:56,6575911 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\ntdll.dll SUCCESS Information: Owner

# 22:28:56,6576099 Parent.exe 6016 CloseFile C:\Windows\System32\ntdll.dll SUCCESS

# 22:28:56,6577430 Parent.exe 6016 CreateFile C:\Windows\System32\kernel32.dll SUCCESS Desired Access: Read Control, Disposition: Open, Options: , Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6577929 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\kernel32.dll BUFFER OVERFLOW Information: Owner

# 22:28:56,6578093 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\kernel32.dll SUCCESS Information: Owner

# 22:28:56,6578495 Parent.exe 6016 CloseFile C:\Windows\System32\kernel32.dll SUCCESS

# 22:28:56,6580009 Parent.exe 6016 CreateFile C:\Windows\System32\KernelBase.dll SUCCESS Desired Access: Read Control, Disposition: Open, Options: , Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6580573 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\KernelBase.dll BUFFER OVERFLOW Information: Owner

# 22:28:56,6580823 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\KernelBase.dll SUCCESS Information: Owner

# 22:28:56,6580968 Parent.exe 6016 CloseFile C:\Windows\System32\KernelBase.dll SUCCESS

# 22:28:56,6583185 Parent.exe 6016 CreateFile C:\Windows\apppatch\sysmain.sdb SUCCESS Desired Access: Generic Read, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6583787 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,6583907 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,6584041 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\sysmain.sdb FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READ|PAGE\_NOCACHE

# 22:28:56,6584659 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,6585021 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\sysmain.sdb SUCCESS SyncType: SyncTypeOther

# 22:28:56,6586883 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ, Length: 24, Data: sysmain.sdb

# 22:28:56,6587078 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ

# 22:28:56,6587949 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb BUFFER TOO SMALL Length: 0

# 22:28:56,6588161 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb SUCCESS Type: REG\_SZ, Length: 58, Data: 01D81186E0AAA800.sysmain.sdb

# 22:28:56,6590200 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6590734 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,6590965 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,6593212 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb BUFFER TOO SMALL Length: 0

# 22:28:56,6593330 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb SUCCESS Type: REG\_SZ, Length: 58, Data: 01D81186E0AAA800.sysmain.sdb

# 22:28:56,6594907 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6595504 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,6595686 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,6597744 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Generic Read, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6598392 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,6598582 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,6598796 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READ|PAGE\_NOCACHE

# 22:28:56,6599041 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,6599385 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS SyncType: SyncTypeOther

# 22:28:56,6602378 Parent.exe 6016 CreateFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS Desired Access: Generic Read, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6603771 Parent.exe 6016 RegQueryValue HKCU\Software\Microsoft\Windows\CurrentVersion\Explorer\Shell Folders\Cache SUCCESS Type: REG\_SZ, Length: 114, Data: C:\Users\kvv22\AppData\Local\Microsoft\Windows\INetCache

# 22:28:56,6604624 Parent.exe 6016 QuerySecurityFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS Information: Owner, Group, DACL, SACL, Label, Attribute, Process Trust Label, 0x100

# 22:28:56,6606360 Parent.exe 6016 CreateFile C:\Windows\apppatch\sysmain.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open For Backup, Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6607106 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\sysmain.sdb SUCCESS

# 22:28:56,6607405 Parent.exe 6016 CloseFile C:\Windows\apppatch\sysmain.sdb SUCCESS

# 22:28:56,6610453 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ, Length: 24, Data: sysmain.sdb

# 22:28:56,6610781 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ

# 22:28:56,6611829 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb BUFFER TOO SMALL Length: 0

# 22:28:56,6612040 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb SUCCESS Type: REG\_SZ, Length: 58, Data: 01D81186E0AAA800.sysmain.sdb

# 22:28:56,6614568 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open For Backup, Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6615248 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,6615556 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,6620581 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open For Backup, Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6621492 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,6621819 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,6623390 Parent.exe 6016 QueryBasicInformationFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS CreationTime: 11.02.2025 23:56:45, LastAccessTime: 06.03.2025 22:28:56, LastWriteTime: 17.02.2025 18:38:06, ChangeTime: 17.02.2025 18:38:06, FileAttributes: A

# 22:28:56,6624339 Parent.exe 6016 CloseFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS

# 22:28:56,6625799 Parent.exe 6016 CreateFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS Desired Access: Generic Read, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6626816 Parent.exe 6016 RegQueryValue HKCU\Software\Microsoft\Windows\CurrentVersion\Explorer\Shell Folders\Cache SUCCESS Type: REG\_SZ, Length: 114, Data: C:\Users\kvv22\AppData\Local\Microsoft\Windows\INetCache

# 22:28:56,6627260 Parent.exe 6016 QuerySecurityFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS Information: Owner, Group, DACL, SACL, Label, Attribute, Process Trust Label, 0x100

# 22:28:56,6627449 Parent.exe 6016 QueryBasicInformationFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS CreationTime: 11.02.2025 23:56:45, LastAccessTime: 06.03.2025 22:28:56, LastWriteTime: 17.02.2025 18:38:06, ChangeTime: 17.02.2025 18:38:06, FileAttributes: A

# 22:28:56,6627782 Parent.exe 6016 CloseFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS

# 22:28:56,6630268 Parent.exe 6016 CloseFile C:\Windows\apppatch\sysmain.sdb SUCCESS

# 22:28:56,6631058 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,6634513 Parent.exe 6016 RegEnumValue HKCU\Control Panel\Desktop\LanguageConfiguration SUCCESS Index: 0, Name: ru-RU, Type: REG\_MULTI\_SZ, Length: 14, Data: en-US

# 22:28:56,6634760 Parent.exe 6016 RegEnumValue HKCU\Control Panel\Desktop\LanguageConfiguration NO MORE ENTRIES Index: 1, Length: 512

# 22:28:56,6636311 Parent.exe 6016 RegQueryValue HKCU\Control Panel\Desktop\PreferredUILanguages BUFFER OVERFLOW Length: 12

# 22:28:56,6636607 Parent.exe 6016 RegQueryValue HKCU\Control Panel\Desktop\PreferredUILanguages SUCCESS Type: REG\_MULTI\_SZ, Length: 14, Data: ru-RU

# 22:28:56,6637847 Parent.exe 6016 RegQueryValue HKCU\Control Panel\Desktop\MuiCached\MachinePreferredUILanguages BUFFER OVERFLOW Length: 12

# 22:28:56,6638016 Parent.exe 6016 RegQueryValue HKCU\Control Panel\Desktop\MuiCached\MachinePreferredUILanguages SUCCESS Type: REG\_MULTI\_SZ, Length: 12, Data: ru-RU

# 22:28:56,6640381 Parent.exe 6016 RegQueryValue HKCU\Control Panel\Desktop\PreferredUILanguages BUFFER OVERFLOW Length: 12

# 22:28:56,6640856 Parent.exe 6016 RegQueryValue HKCU\Control Panel\Desktop\PreferredUILanguages SUCCESS Type: REG\_MULTI\_SZ, Length: 14, Data: ru-RU

# 22:28:56,6643492 Parent.exe 6016 RegEnumValue HKCU\Control Panel\Desktop\LanguageConfiguration SUCCESS Index: 0, Name: ru-RU, Type: REG\_MULTI\_SZ, Length: 14, Data: en-US

# 22:28:56,6643931 Parent.exe 6016 RegEnumValue HKCU\Control Panel\Desktop\LanguageConfiguration NO MORE ENTRIES Index: 1, Length: 512

# 22:28:56,6652963 Parent.exe 6016 Thread Create SUCCESS Thread ID: 21584

# 22:28:56,6655508 Parent.exe 6016 Thread Create SUCCESS Thread ID: 21596

# 22:28:56,6657542 Parent.exe 6016 Thread Create SUCCESS Thread ID: 21600

# 22:28:56,6660427 Parent.exe 6016 CreateFile C:\Windows\System32\msvcp140d.dll SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6661291 Parent.exe 6016 CreateFile C:\Windows\System32\vcruntime140d.dll SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6661307 Parent.exe 6016 QueryBasicInformationFile C:\Windows\System32\msvcp140d.dll SUCCESS CreationTime: 18.01.2025 7:51:58, LastAccessTime: 06.03.2025 22:16:36, LastWriteTime: 18.01.2025 7:51:58, ChangeTime: 05.03.2025 12:33:31, FileAttributes: A

# 22:28:56,6661566 Parent.exe 6016 CloseFile C:\Windows\System32\msvcp140d.dll SUCCESS

# 22:28:56,6661671 Parent.exe 6016 QueryBasicInformationFile C:\Windows\System32\vcruntime140d.dll SUCCESS CreationTime: 18.01.2025 7:52:00, LastAccessTime: 06.03.2025 22:16:36, LastWriteTime: 18.01.2025 7:52:00, ChangeTime: 05.03.2025 12:33:31, FileAttributes: A

# 22:28:56,6661879 Parent.exe 6016 CloseFile C:\Windows\System32\vcruntime140d.dll SUCCESS

# 22:28:56,6666871 Parent.exe 6016 CreateFile C:\Windows\System32\msvcp140d.dll SUCCESS Desired Access: Read Data/List Directory, Execute/Traverse, Synchronize, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6667444 Parent.exe 6016 CreateFile C:\Windows\System32\vcruntime140\_1d.dll SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6667792 Parent.exe 6016 CreateFile C:\Windows\System32\vcruntime140d.dll SUCCESS Desired Access: Read Data/List Directory, Execute/Traverse, Synchronize, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6667929 Parent.exe 6016 QueryBasicInformationFile C:\Windows\System32\vcruntime140\_1d.dll SUCCESS CreationTime: 18.01.2025 7:52:00, LastAccessTime: 06.03.2025 22:16:36, LastWriteTime: 18.01.2025 7:52:00, ChangeTime: 05.03.2025 12:33:31, FileAttributes: A

# 22:28:56,6667972 Parent.exe 6016 CreateFileMapping C:\Windows\System32\msvcp140d.dll FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READ|PAGE\_NOCACHE

# 22:28:56,6668210 Parent.exe 6016 CloseFile C:\Windows\System32\vcruntime140\_1d.dll SUCCESS

# 22:28:56,6668425 Parent.exe 6016 CreateFile C:\Windows\System32\ucrtbased.dll SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6668605 Parent.exe 6016 CreateFileMapping C:\Windows\System32\vcruntime140d.dll FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READ|PAGE\_NOCACHE

# 22:28:56,6668789 Parent.exe 6016 QueryBasicInformationFile C:\Windows\System32\ucrtbased.dll SUCCESS CreationTime: 21.02.2024 21:00:06, LastAccessTime: 06.03.2025 22:16:36, LastWriteTime: 21.02.2024 21:00:06, ChangeTime: 05.03.2025 12:36:56, FileAttributes: A

# 22:28:56,6669401 Parent.exe 6016 CreateFileMapping C:\Windows\System32\vcruntime140d.dll SUCCESS SyncType: SyncTypeOther

# 22:28:56,6670090 Parent.exe 6016 CreateFileMapping C:\Windows\System32\msvcp140d.dll SUCCESS SyncType: SyncTypeOther

# 22:28:56,6670310 Parent.exe 6016 CreateFile C:\Windows\System32\vcruntime140\_1d.dll SUCCESS Desired Access: Read Data/List Directory, Execute/Traverse, Synchronize, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6670988 Parent.exe 6016 Load Image C:\Windows\System32\vcruntime140d.dll SUCCESS Image Base: 0x7ff948650000, Image Size: 0x2e000

# 22:28:56,6671031 Parent.exe 6016 Load Image C:\Windows\System32\msvcp140d.dll SUCCESS Image Base: 0x7ff93f250000, Image Size: 0xe2000

# 22:28:56,6671037 Parent.exe 6016 CloseFile C:\Windows\System32\ucrtbased.dll SUCCESS

# 22:28:56,6671135 Parent.exe 6016 CreateFileMapping C:\Windows\System32\vcruntime140\_1d.dll FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READ|PAGE\_NOCACHE

# 22:28:56,6671845 Parent.exe 6016 CreateFileMapping C:\Windows\System32\vcruntime140\_1d.dll SUCCESS SyncType: SyncTypeOther

# 22:28:56,6672416 Parent.exe 6016 CloseFile C:\Windows\System32\vcruntime140d.dll SUCCESS

# 22:28:56,6672745 Parent.exe 6016 CloseFile C:\Windows\System32\msvcp140d.dll SUCCESS

# 22:28:56,6672904 Parent.exe 6016 Load Image C:\Windows\System32\vcruntime140\_1d.dll SUCCESS Image Base: 0x7ff9cf970000, Image Size: 0xf000

# 22:28:56,6674057 Parent.exe 6016 CloseFile C:\Windows\System32\vcruntime140\_1d.dll SUCCESS

# 22:28:56,6681660 Parent.exe 6016 CreateFile C:\Windows\System32\ucrtbased.dll SUCCESS Desired Access: Read Data/List Directory, Execute/Traverse, Synchronize, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6682468 Parent.exe 6016 CreateFileMapping C:\Windows\System32\ucrtbased.dll FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READ|PAGE\_NOCACHE

# 22:28:56,6684223 Parent.exe 6016 CreateFileMapping C:\Windows\System32\ucrtbased.dll SUCCESS SyncType: SyncTypeOther

# 22:28:56,6685442 Parent.exe 6016 Load Image C:\Windows\System32\ucrtbased.dll SUCCESS Image Base: 0x7ff93ddd0000, Image Size: 0x221000

# 22:28:56,6687120 Parent.exe 6016 CloseFile C:\Windows\System32\ucrtbased.dll SUCCESS

# 22:28:56,6689525 Parent.exe 6016 CreateFile C:\Windows\System32\ucrtbased.dll SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6690048 Parent.exe 6016 QueryBasicInformationFile C:\Windows\System32\ucrtbased.dll SUCCESS CreationTime: 21.02.2024 21:00:06, LastAccessTime: 06.03.2025 22:28:56, LastWriteTime: 21.02.2024 21:00:06, ChangeTime: 05.03.2025 12:36:56, FileAttributes: A

# 22:28:56,6690134 Parent.exe 6016 CreateFile C:\Windows\System32\ucrtbased.dll SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6690287 Parent.exe 6016 CloseFile C:\Windows\System32\ucrtbased.dll SUCCESS

# 22:28:56,6690457 Parent.exe 6016 QueryBasicInformationFile C:\Windows\System32\ucrtbased.dll SUCCESS CreationTime: 21.02.2024 21:00:06, LastAccessTime: 06.03.2025 22:28:56, LastWriteTime: 21.02.2024 21:00:06, ChangeTime: 05.03.2025 12:36:56, FileAttributes: A

# 22:28:56,6690650 Parent.exe 6016 CloseFile C:\Windows\System32\ucrtbased.dll SUCCESS

# 22:28:56,6696392 Parent.exe 6016 CreateFile C:\Windows\System32\vcruntime140\_1d.dll SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6696815 Parent.exe 6016 QueryBasicInformationFile C:\Windows\System32\vcruntime140\_1d.dll SUCCESS CreationTime: 18.01.2025 7:52:00, LastAccessTime: 06.03.2025 22:28:56, LastWriteTime: 18.01.2025 7:52:00, ChangeTime: 05.03.2025 12:33:31, FileAttributes: A

# 22:28:56,6696992 Parent.exe 6016 CloseFile C:\Windows\System32\vcruntime140\_1d.dll SUCCESS

# 22:28:56,6698203 Parent.exe 6016 CreateFile C:\Windows\System32\ucrtbased.dll SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6698775 Parent.exe 6016 QueryBasicInformationFile C:\Windows\System32\ucrtbased.dll SUCCESS CreationTime: 21.02.2024 21:00:06, LastAccessTime: 06.03.2025 22:28:56, LastWriteTime: 21.02.2024 21:00:06, ChangeTime: 05.03.2025 12:36:56, FileAttributes: A

# 22:28:56,6699417 Parent.exe 6016 CloseFile C:\Windows\System32\ucrtbased.dll SUCCESS

# 22:28:56,6707495 Parent.exe 6016 CreateFile C:\Windows\System32\ucrtbased.dll SUCCESS Desired Access: Read Control, Disposition: Open, Options: , Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6707919 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\ucrtbased.dll BUFFER OVERFLOW Information: Owner

# 22:28:56,6708113 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\ucrtbased.dll SUCCESS Information: Owner

# 22:28:56,6708289 Parent.exe 6016 CloseFile C:\Windows\System32\ucrtbased.dll SUCCESS

# 22:28:56,6710883 Parent.exe 6016 CreateFile C:\Windows\System32\vcruntime140d.dll SUCCESS Desired Access: Read Control, Disposition: Open, Options: , Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6711301 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\vcruntime140d.dll BUFFER OVERFLOW Information: Owner

# 22:28:56,6711479 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\vcruntime140d.dll SUCCESS Information: Owner

# 22:28:56,6711624 Parent.exe 6016 CloseFile C:\Windows\System32\vcruntime140d.dll SUCCESS

# 22:28:56,6713643 Parent.exe 6016 CreateFile C:\Windows\System32\vcruntime140\_1d.dll SUCCESS Desired Access: Read Control, Disposition: Open, Options: , Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6714056 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\vcruntime140\_1d.dll BUFFER OVERFLOW Information: Owner

# 22:28:56,6714810 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\vcruntime140\_1d.dll SUCCESS Information: Owner

# 22:28:56,6714985 Parent.exe 6016 CloseFile C:\Windows\System32\vcruntime140\_1d.dll SUCCESS

# 22:28:56,6717615 Parent.exe 6016 CreateFile C:\Windows\System32\msvcp140d.dll SUCCESS Desired Access: Read Control, Disposition: Open, Options: , Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,6717992 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\msvcp140d.dll BUFFER OVERFLOW Information: Owner

# 22:28:56,6718157 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\msvcp140d.dll SUCCESS Information: Owner

# 22:28:56,6718298 Parent.exe 6016 CloseFile C:\Windows\System32\msvcp140d.dll SUCCESS

# 22:28:56,6724239 Parent.exe 6016 RegQueryValue HKLM\System\CurrentControlSet\Control\Nls\Sorting\Versions\(Default) SUCCESS Type: REG\_SZ, Length: 18, Data: 00060403

# 22:28:56,6724645 Parent.exe 6016 RegQueryValue HKLM\System\CurrentControlSet\Control\Nls\Sorting\Versions\000604xx SUCCESS Type: REG\_SZ, Length: 26, Data: kernel32.dll

# 22:28:56,6740487 Parent.exe 6016 RegEnumValue HKLM\System\CurrentControlSet\Control\Nls\CustomLocale NO MORE ENTRIES Index: 0, Length: 531

# 22:28:56,6741069 Parent.exe 6016 RegEnumValue HKLM\System\CurrentControlSet\Control\Nls\ExtendedLocale NO MORE ENTRIES Index: 0, Length: 531

# 22:28:56,6742867 Parent.exe 6016 RegEnumKey HKCU\Control Panel\International\User Profile SUCCESS Index: 0, Name: en-US

# 22:28:56,6743767 Parent.exe 6016 RegEnumKey HKCU\Control Panel\International\User Profile SUCCESS Index: 1, Name: ru

# 22:28:56,6744641 Parent.exe 6016 RegEnumKey HKCU\Control Panel\International\User Profile NO MORE ENTRIES Index: 2, Length: 526

# 22:28:56,7907257 Parent.exe 6016 Load Image C:\Windows\System32\sechost.dll SUCCESS Image Base: 0x7ff9ddd10000, Image Size: 0xa7000

# 22:28:56,7910070 Parent.exe 6016 Load Image C:\Windows\System32\bcrypt.dll SUCCESS Image Base: 0x7ff9dbe90000, Image Size: 0x28000

# 22:28:56,7915044 Parent.exe 6016 CreateFile C:\Windows\System32\bcrypt.dll SUCCESS Desired Access: Read Control, Disposition: Open, Options: , Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,7915619 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\bcrypt.dll BUFFER OVERFLOW Information: Owner

# 22:28:56,7915946 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\bcrypt.dll SUCCESS Information: Owner

# 22:28:56,7916176 Parent.exe 6016 CloseFile C:\Windows\System32\bcrypt.dll SUCCESS

# 22:28:56,7918434 Parent.exe 6016 CreateFile C:\Windows\System32\sechost.dll SUCCESS Desired Access: Read Control, Disposition: Open, Options: , Attributes: n/a, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,7918929 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\sechost.dll BUFFER OVERFLOW Information: Owner

# 22:28:56,7919115 Parent.exe 6016 QuerySecurityFile C:\Windows\System32\sechost.dll SUCCESS Information: Owner

# 22:28:56,7919299 Parent.exe 6016 CloseFile C:\Windows\System32\sechost.dll SUCCESS

# 22:28:56,7926974 Parent.exe 6016 CreateFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child1.exe SUCCESS Desired Access: Read Data/List Directory, Execute/Traverse, Read Attributes, Synchronize, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,7927492 Parent.exe 6016 CreateFileMapping D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child1.exe FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: |PAGE\_NOCACHE

# 22:28:56,7927849 Parent.exe 6016 CreateFileMapping D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child1.exe SUCCESS SyncType: SyncTypeOther

# 22:28:56,7979473 Parent.exe 6016 Process Create D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\child1.exe SUCCESS PID: 15916, Command line: "child1.exe"

# 22:28:56,7983160 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Policies\Microsoft\Windows\safer\codeidentifiers\AuthenticodeEnabled SUCCESS Type: REG\_DWORD, Length: 4, Data: 0

# 22:28:56,7985822 Parent.exe 6016 RegQueryValue HKCU\Software\Microsoft\Windows\CurrentVersion\Explorer\Shell Folders\Cache SUCCESS Type: REG\_SZ, Length: 114, Data: C:\Users\kvv22\AppData\Local\Microsoft\Windows\INetCache

# 22:28:56,7987718 Parent.exe 6016 QuerySecurityFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child1.exe SUCCESS Information: Owner, Group, DACL, SACL, Label, Attribute, Process Trust Label, 0x100

# 22:28:56,7989470 Parent.exe 6016 CreateFile C:\Windows\apppatch\sysmain.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open For Backup, Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,7990062 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\sysmain.sdb SUCCESS

# 22:28:56,7990331 Parent.exe 6016 CloseFile C:\Windows\apppatch\sysmain.sdb SUCCESS

# 22:28:56,7992074 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ, Length: 24, Data: sysmain.sdb

# 22:28:56,7992304 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ

# 22:28:56,7993047 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb BUFFER TOO SMALL Length: 0

# 22:28:56,7993299 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb SUCCESS Type: REG\_SZ, Length: 58, Data: 01D81186E0AAA800.sysmain.sdb

# 22:28:56,7994741 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open For Backup, Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,7995463 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,7995871 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,7998967 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open For Backup, Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,7999437 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,7999666 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8000789 Parent.exe 6016 QueryBasicInformationFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child1.exe SUCCESS CreationTime: 11.02.2025 23:56:45, LastAccessTime: 06.03.2025 22:28:56, LastWriteTime: 07.02.2025 2:31:48, ChangeTime: 11.02.2025 23:56:45, FileAttributes: A

# 22:28:56,8001381 Parent.exe 6016 QueryBasicInformationFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child1.exe SUCCESS CreationTime: 11.02.2025 23:56:45, LastAccessTime: 06.03.2025 22:28:56, LastWriteTime: 07.02.2025 2:31:48, ChangeTime: 11.02.2025 23:56:45, FileAttributes: A

# 22:28:56,8003927 Parent.exe 6016 CreateFile C:\Windows\apppatch\sysmain.sdb SUCCESS Desired Access: Generic Read, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8004545 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,8004731 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,8004931 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\sysmain.sdb FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READWRITE

# 22:28:56,8005169 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,8005550 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\sysmain.sdb SUCCESS SyncType: SyncTypeOther

# 22:28:56,8007361 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ, Length: 24, Data: sysmain.sdb

# 22:28:56,8007683 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ

# 22:28:56,8008299 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb BUFFER TOO SMALL Length: 0

# 22:28:56,8008470 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb SUCCESS Type: REG\_SZ, Length: 58, Data: 01D81186E0AAA800.sysmain.sdb

# 22:28:56,8010364 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open For Backup, Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8010964 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8011211 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8013478 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb BUFFER TOO SMALL Length: 0

# 22:28:56,8013616 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb SUCCESS Type: REG\_SZ, Length: 58, Data: 01D81186E0AAA800.sysmain.sdb

# 22:28:56,8014991 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open For Backup, Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8015450 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8015651 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8017838 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Generic Read, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8018450 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,8018685 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,8019054 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READWRITE

# 22:28:56,8019317 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,8019979 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS SyncType: SyncTypeOther

# 22:28:56,8020673 Parent.exe 6016 QueryStandardInformationFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child1.exe SUCCESS AllocationSize: 73 728, EndOfFile: 70 144, NumberOfLinks: 1, DeletePending: False, Directory: False

# 22:28:56,8024145 Parent.exe 6016 QueryStandardInformationFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child1.exe SUCCESS AllocationSize: 73 728, EndOfFile: 70 144, NumberOfLinks: 1, DeletePending: False, Directory: False

# 22:28:56,8024336 Parent.exe 6016 CreateFileMapping D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child1.exe FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READ

# 22:28:56,8024532 Parent.exe 6016 QueryStandardInformationFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child1.exe SUCCESS AllocationSize: 73 728, EndOfFile: 70 144, NumberOfLinks: 1, DeletePending: False, Directory: False

# 22:28:56,8024864 Parent.exe 6016 CreateFileMapping D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child1.exe SUCCESS SyncType: SyncTypeOther

# 22:28:56,8032871 Parent.exe 6016 CloseFile C:\Windows\apppatch\sysmain.sdb SUCCESS

# 22:28:56,8034017 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8053675 Parent.exe 6016 CreateFile C:\Windows\apppatch\sysmain.sdb SUCCESS Desired Access: Generic Read, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8054321 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,8054451 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,8054604 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\sysmain.sdb FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READ|PAGE\_NOCACHE

# 22:28:56,8054762 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,8055007 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\sysmain.sdb SUCCESS SyncType: SyncTypeOther

# 22:28:56,8056343 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ, Length: 24, Data: sysmain.sdb

# 22:28:56,8056526 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ

# 22:28:56,8057086 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb BUFFER TOO SMALL Length: 0

# 22:28:56,8057257 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb SUCCESS Type: REG\_SZ, Length: 58, Data: 01D81186E0AAA800.sysmain.sdb

# 22:28:56,8059030 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8059506 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8059677 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8061121 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb BUFFER TOO SMALL Length: 0

# 22:28:56,8061259 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb SUCCESS Type: REG\_SZ, Length: 58, Data: 01D81186E0AAA800.sysmain.sdb

# 22:28:56,8062405 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8062724 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8062873 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8064642 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Generic Read, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8065098 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,8065215 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,8065356 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READ|PAGE\_NOCACHE

# 22:28:56,8065508 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,8065745 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS SyncType: SyncTypeOther

# 22:28:56,8066336 Parent.exe 6016 CloseFile C:\Windows\apppatch\sysmain.sdb SUCCESS

# 22:28:56,8066895 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8067720 Parent.exe 6016 CloseFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child1.exe SUCCESS

# 22:28:56,8069456 Parent.exe 6016 CreateFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child2.exe SUCCESS Desired Access: Read Data/List Directory, Execute/Traverse, Read Attributes, Synchronize, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8070032 Parent.exe 6016 CreateFileMapping D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child2.exe FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: |PAGE\_NOCACHE

# 22:28:56,8070406 Parent.exe 6016 CreateFileMapping D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child2.exe SUCCESS SyncType: SyncTypeOther

# 22:28:56,8116100 Parent.exe 6016 Process Create D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\child2.exe SUCCESS PID: 21640, Command line: "child2.exe"

# 22:28:56,8118097 Parent.exe 6016 RegQueryValue HKCU\Software\Microsoft\Windows\CurrentVersion\Explorer\Shell Folders\Cache SUCCESS Type: REG\_SZ, Length: 114, Data: C:\Users\kvv22\AppData\Local\Microsoft\Windows\INetCache

# 22:28:56,8119621 Parent.exe 6016 QuerySecurityFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child2.exe SUCCESS Information: Owner, Group, DACL, SACL, Label, Attribute, Process Trust Label, 0x100

# 22:28:56,8121436 Parent.exe 6016 CreateFile C:\Windows\apppatch\sysmain.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open For Backup, Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8122181 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\sysmain.sdb SUCCESS

# 22:28:56,8122737 Parent.exe 6016 CloseFile C:\Windows\apppatch\sysmain.sdb SUCCESS

# 22:28:56,8125456 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ, Length: 24, Data: sysmain.sdb

# 22:28:56,8125690 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ

# 22:28:56,8127205 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb BUFFER TOO SMALL Length: 0

# 22:28:56,8127494 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb SUCCESS Type: REG\_SZ, Length: 58, Data: 01D81186E0AAA800.sysmain.sdb

# 22:28:56,8129151 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open For Backup, Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8129711 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8129987 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8132793 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open For Backup, Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8133249 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8133440 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8134382 Parent.exe 6016 QueryBasicInformationFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child2.exe SUCCESS CreationTime: 11.02.2025 23:56:45, LastAccessTime: 06.03.2025 22:28:56, LastWriteTime: 07.02.2025 2:31:48, ChangeTime: 11.02.2025 23:56:45, FileAttributes: A

# 22:28:56,8134915 Parent.exe 6016 QueryBasicInformationFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child2.exe SUCCESS CreationTime: 11.02.2025 23:56:45, LastAccessTime: 06.03.2025 22:28:56, LastWriteTime: 07.02.2025 2:31:48, ChangeTime: 11.02.2025 23:56:45, FileAttributes: A

# 22:28:56,8137051 Parent.exe 6016 CreateFile C:\Windows\apppatch\sysmain.sdb SUCCESS Desired Access: Generic Read, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8137631 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,8137772 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,8137945 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\sysmain.sdb FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READWRITE

# 22:28:56,8138120 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,8138425 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\sysmain.sdb SUCCESS SyncType: SyncTypeOther

# 22:28:56,8139689 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ, Length: 24, Data: sysmain.sdb

# 22:28:56,8139897 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ

# 22:28:56,8140656 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb BUFFER TOO SMALL Length: 0

# 22:28:56,8140796 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb SUCCESS Type: REG\_SZ, Length: 58, Data: 01D81186E0AAA800.sysmain.sdb

# 22:28:56,8143210 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open For Backup, Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8143636 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8143865 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8145747 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb BUFFER TOO SMALL Length: 0

# 22:28:56,8145888 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb SUCCESS Type: REG\_SZ, Length: 58, Data: 01D81186E0AAA800.sysmain.sdb

# 22:28:56,8147056 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open For Backup, Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8147454 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8147644 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8149719 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Generic Read, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8150292 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,8150451 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,8150687 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READWRITE

# 22:28:56,8150919 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,8151236 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS SyncType: SyncTypeOther

# 22:28:56,8151835 Parent.exe 6016 QueryStandardInformationFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child2.exe SUCCESS AllocationSize: 73 728, EndOfFile: 70 144, NumberOfLinks: 1, DeletePending: False, Directory: False

# 22:28:56,8156180 Parent.exe 6016 QueryStandardInformationFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child2.exe SUCCESS AllocationSize: 73 728, EndOfFile: 70 144, NumberOfLinks: 1, DeletePending: False, Directory: False

# 22:28:56,8156410 Parent.exe 6016 CreateFileMapping D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child2.exe FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READ

# 22:28:56,8156635 Parent.exe 6016 QueryStandardInformationFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child2.exe SUCCESS AllocationSize: 73 728, EndOfFile: 70 144, NumberOfLinks: 1, DeletePending: False, Directory: False

# 22:28:56,8156963 Parent.exe 6016 CreateFileMapping D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child2.exe SUCCESS SyncType: SyncTypeOther

# 22:28:56,8165140 Parent.exe 6016 CloseFile C:\Windows\apppatch\sysmain.sdb SUCCESS

# 22:28:56,8166309 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8186167 Parent.exe 6016 CreateFile C:\Windows\apppatch\sysmain.sdb SUCCESS Desired Access: Generic Read, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8186818 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,8186948 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,8187109 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\sysmain.sdb FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READ|PAGE\_NOCACHE

# 22:28:56,8187268 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\sysmain.sdb SUCCESS AllocationSize: 1 859 584, EndOfFile: 4 127 356, NumberOfLinks: 3, DeletePending: False, Directory: False

# 22:28:56,8187635 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\sysmain.sdb SUCCESS SyncType: SyncTypeOther

# 22:28:56,8188985 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ, Length: 24, Data: sysmain.sdb

# 22:28:56,8189119 Parent.exe 6016 RegEnumValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\ManifestedMergeStubSdbs SUCCESS Index: 0, Type: REG\_SZ

# 22:28:56,8189549 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb BUFFER TOO SMALL Length: 0

# 22:28:56,8189660 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb SUCCESS Type: REG\_SZ, Length: 58, Data: 01D81186E0AAA800.sysmain.sdb

# 22:28:56,8191218 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8191607 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8191835 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8193322 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb BUFFER TOO SMALL Length: 0

# 22:28:56,8193432 Parent.exe 6016 RegQueryValue HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\AppCompatFlags\SdbUpdates\sysMerge.sdb SUCCESS Type: REG\_SZ, Length: 58, Data: 01D81186E0AAA800.sysmain.sdb

# 22:28:56,8194627 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Read Attributes, Disposition: Open, Options: Open Reparse Point, Attributes: n/a, ShareMode: Read, Write, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8194955 Parent.exe 6016 QueryStatInformation C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8195105 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8196930 Parent.exe 6016 CreateFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS Desired Access: Generic Read, Disposition: Open, Options: Synchronous IO Non-Alert, Non-Directory File, Attributes: N, ShareMode: Read, Delete, AllocationSize: n/a, OpenResult: Opened

# 22:28:56,8197381 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,8197499 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,8197624 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb FILE LOCKED WITH ONLY READERS SyncType: SyncTypeCreateSection, PageProtection: PAGE\_EXECUTE\_READ|PAGE\_NOCACHE

# 22:28:56,8197758 Parent.exe 6016 QueryStandardInformationFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS AllocationSize: 16 384, EndOfFile: 33 260, NumberOfLinks: 2, DeletePending: False, Directory: False

# 22:28:56,8197988 Parent.exe 6016 CreateFileMapping C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS SyncType: SyncTypeOther

# 22:28:56,8198502 Parent.exe 6016 CloseFile C:\Windows\apppatch\sysmain.sdb SUCCESS

# 22:28:56,8199243 Parent.exe 6016 CloseFile C:\Windows\apppatch\MergeSdbFilesSource\sysMerge.sdb SUCCESS

# 22:28:56,8200260 Parent.exe 6016 CloseFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Child2.exe SUCCESS

# 22:29:07,1140955 Parent.exe 6016 Thread Create SUCCESS Thread ID: 2824

# 22:29:07,1142681 Parent.exe 6016 Thread Exit SUCCESS Thread ID: 21584, User Time: 0.0000000, Kernel Time: 0.0000000

# 22:29:07,1142780 Parent.exe 6016 Thread Exit SUCCESS Thread ID: 21596, User Time: 0.0000000, Kernel Time: 0.0000000

# 22:29:07,1142788 Parent.exe 6016 Thread Exit SUCCESS Thread ID: 21600, User Time: 0.0000000, Kernel Time: 0.0000000

# 22:29:07,1143163 Parent.exe 6016 Thread Exit SUCCESS Thread ID: 21728, User Time: 0.0000000, Kernel Time: 0.0000000

# 22:29:07,1144382 Parent.exe 6016 Thread Exit SUCCESS Thread ID: 2824, User Time: 0.0000000, Kernel Time: 0.0000000

# 22:29:07,1147985 Parent.exe 6016 Process Exit SUCCESS Exit Status: -1073741510, User Time: 0.0000000 seconds, Kernel Time: 0.0000000 seconds, Private Bytes: 987 136, Peak Private Bytes: 995 328, Working Set: 5 668 864, Peak Working Set: 5 668 864

# 22:29:07,1148646 Parent.exe 6016 RegQueryValue HKLM\System\CurrentControlSet\Services\bam\State\UserSettings\S-1-5-21-4029382104-2437129904-1201212655-1003\\Device\HarddiskVolume4\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS Type: REG\_BINARY, Length: 24, Data: A4 78 DB 00 CE 8E DB 01 00 00 00 00 00 00 00 00

# 22:29:07,1149004 Parent.exe 6016 RegSetValue HKLM\System\CurrentControlSet\Services\bam\State\UserSettings\S-1-5-21-4029382104-2437129904-1201212655-1003\\Device\HarddiskVolume4\OneDrive\Рабочий стол\Lab\_3\x64\Debug\Parent.exe SUCCESS Type: REG\_BINARY, Length: 24, Data: DA 8A 1A 07 CE 8E DB 01 00 00 00 00 00 00 00 00

# 22:29:07,1150723 Parent.exe 6016 CloseFile D:\OneDrive\Рабочий стол\Lab\_3\x64\Debug SUCCESS

# Вывод

# Лабораторная работа демонстрирует взаимодействие трех процессов через именованные каналы, где родительский процесс передает данные двум дочерним процессам для последовательной обработки. Дочерние процессы выполняют преобразования текста: один переводит символы в нижний регистр, другой заменяет пробелы на подчеркивания. Программа эффективно использует многопоточность для оптимизации скорости обработки данных.