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Windows Research Kernel Part 2 — Monitoring the function invocation

JULY 28, 2018



This is the second part of the WRK series. For your convenience you can find other parts in the table of contents in [Part 1 — Compiling and debugging](#)

In this part we are going to monitor the invocation of `QuerySystemInformation` system function by using the debugger.

First, make sure that you can debug the kernel. Next, open file `base\ntos\ex\sysinfo.c`. You can see that the function starts in line 1390. We will add a static variable to count the invocations, so go to the line 1721 and add the following:

```
1 static int NumTimesCalled = 0
```

Next, just before `Status = STATUS_SUCCESS;` in line 1728 add this:

```
1 DbgPrint("WRK %d: Entering NTQuerySystemInformation\n", ++NumTimesCalled);
```

Recompile the kernel, add new boot option to the boot.ini, restart the OS, attach the debugger and you should see:

```
1 WRK 1: Entering NTQuerySystemInformation
2 WRK 2: Entering NTQuerySystemInformation
```

This is just a sample of what you can do with the code. Next time, we are going to

implement the syscall.

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WRK

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