How does Resource Monitor get information for processes that already terminated?

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How does the Resource Monitor program get information for processes that have already terminated?

Try it: Run Task Manager, then go to the Performance tab. From there, click *Open Resource Monitor*. Now run another program, say, Notepad. Let Notepad run for a while, and then close it. Observe that there is still an entry for `notepad.exe` in Resource Monitor, labeled *Terminated*.

What is the function to call to get performance statistics on a program that has terminated?

There is no function to get performance statistics for a program that has terminated. What you're seeing is an optical illusion: Resource Monitor continues to show statistics for processes that have terminated, so that you can see the final results before they go away.

Here's proof that it's an illusion: After exiting Notepad and putting it into the grayed-out *Terminated* state in Resource Monitor, go back to Task Manager and click *Open Resource Monitor* again. This will open another instance of Resource Monitor, and in that new instance, you'll see no trace of the terminated Notepad process.

Now you see it. Now you don't.

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