

# ANTS Performance Profiler™

## Code profile your .NET applications



### What is ANTS Performance Profiler?

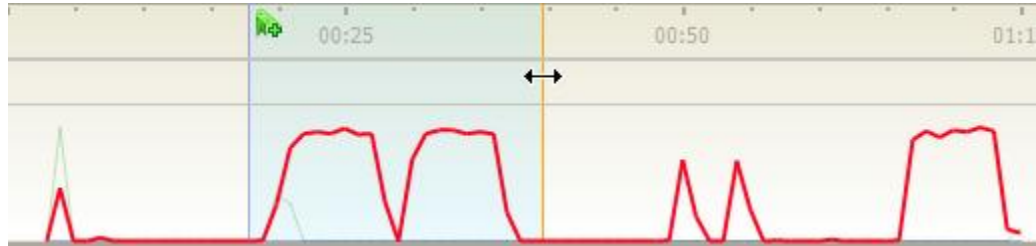
ANTS Performance Profiler is a tool for profiling applications written in any of the languages supported by the .NET framework. ANTS Performance Profiler profiles all .NET applications, including ASP.NET web applications, Windows Services and COM+ applications.

### Why ANTS Performance Profiler?

The slow parts of your code often aren't where you'd expect them to be. It's very rare that a bottleneck is in the obvious place, and what's the point in spending time optimizing a piece of code if it is never called? ANTS Performance Profiler will pinpoint slow code and allow you to drill down to examine it, so code can be optimized, and performance improved.

ANTS Performance Profiler takes the guesswork out of optimizing .NET code. Its main strengths are:

- **One-step profiling** – ANTS Performance Profiler is designed so that you can profile your application and get results within minutes, without having to read a manual. Simply enter your settings and click the Start Profiling button. It is straightforward and there is no scripting involved.
- **Flexibility** – You can start analyzing the data while it is still profiling, and you can view the profiling results in any way you like: a call tree, a call graph, or a grid.



You can filter the amount of data that gets returned by selecting a specific region of activity on the timeline.

- **Detailed, clear results** – You will get detailed yet easy-to-understand results, enabling you to quickly identify your performance bottleneck or memory leak.
- **Good value** – To keep things simple, the tool is not overloaded with unnecessary features. You do, however, get all the key features to help you get on with your job, but without the heavy price tag.

"I have tried several other profilers, and ANTS Profiler is by far the easiest, most flexible, and fastest way to find bottlenecks in your code. We found three major performance improvements in one of our new applications within the first ten minutes of using ANTS. Don't let the low price fool you. It's worth its weight in gold."

*Scott Fletcher, SVI Healthcare*

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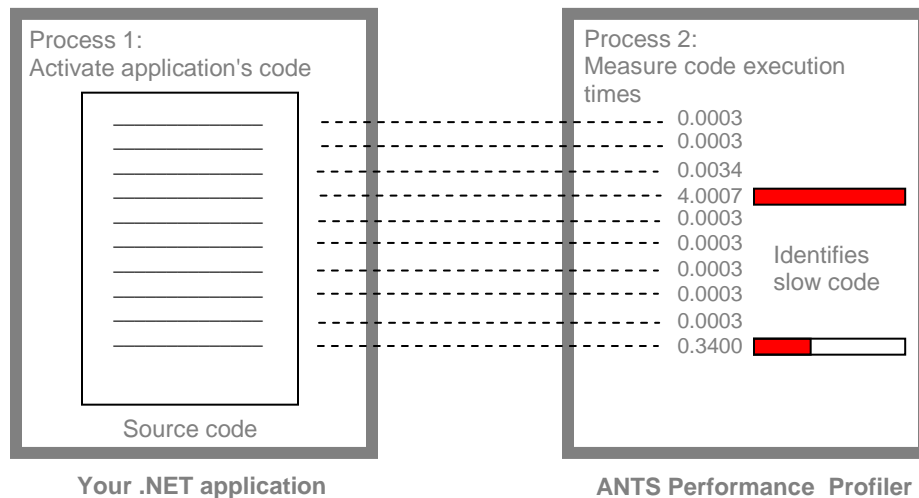
ingeniously simple tools

# ANTS Performance Profiler™

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## How does ANTS Performance Profiler work?

ANTS Performance Profiler runs while you are using your application, and records the frequency and time spent in each line of your code. Results are then presented in a variety of formats, allowing you to see what is happening in your source code.



Schematic, showing how ANTS Profiler's code profiler works.

## When should I use ANTS Performance Profiler?

Use ANTS Performance Profiler when your application is running slowly, when you think performance can be improved. If your application does not perform as expected, use ANTS Performance Profiler to help you understand how, and when, each piece of code is being called. Code can almost always be improved through the use of ANTS Performance Profiler.

## Who should use ANTS Performance Profiler?

Developers should use ANTS Performance Profiler throughout the development cycle, so that they can be sure code is optimized and will behave as expected.

Technical testers also use ANTS Performance Profiler to pin bugs down to a specific line of code, or to determine scope for optimization.

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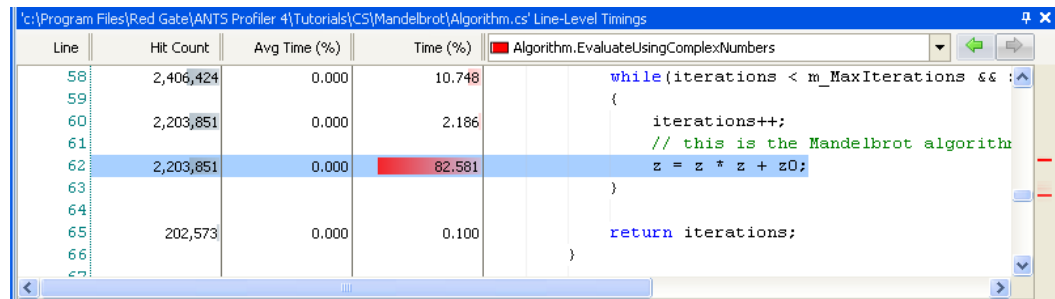
## Key features

### ➤ Visual Studio integration

ANTS Performance Profiler can be accessed directly from VS 2005/2008, allowing you to start profiling your code quicker, by simply clicking on the ANTS menu item. ANTS Profiler is then launched automatically with the executable already set.

### ➤ Line-level profiling

ANTS Performance Profiler offers clear, detailed profiling results, with line-level timing, so you can quickly identify the specific lines of code which are affecting the performance of your application.



Line	Hit Count	Avg Time (%)	Time (%)	Code
58	2,406,424	0.000	10.748	<code>while(iterations &lt; m_MaxIterations &amp;&amp;</code>
59				<code>{</code>
60	2,203,851	0.000	2.186	<code>iterations++;</code>
61				<code>// this is the Mandelbrot algorithm</code>
62	2,203,851	0.000	82.581	<code>z = z * z + z0;</code>
63				<code>}</code>
64				
65	202,573	0.000	0.100	<code>return iterations;</code>
66				<code>}</code>

ANTS Performance Profiler pinpoints problems in code down to individual lines.

### ➤ Timeline for zeroing on problem code

The timeline allows you to select a region of activity and view the data just for that region. In this way, you won't be swamped with information when you are only interested in a particular spike in resource usage, or a specific event.

## Technical specifications

ANTS Performance Profiler can run on developer machines or servers.

### Operating Requirements

- Windows XP, Windows 2003 Server, Windows Vista, or Windows Server 2008
- Microsoft .NET Framework version 2.0
- Internet Explorer 6+
- 512 MB RAM (minimum)
- 1 GB hard disk space

## How much does ANTS Performance Profiler cost?

ANTS Performance Profiler costs just **\$395** for a single user license.

ANTS Performance Profiler is also available in a Pro version, which includes a range of additional features such as: faster performance profiling modes, a call graph, and the option to save your profiling results. ANTS Performance Profiler Pro retails at **\$595** per user license.

Support and upgrades are also available for 25% of the product's purchase price.

"ANTS Profiler delivers on what Red Gate Software promises. It does pinpoint bottleneck code in .NET applications. To this I would add, it pinpoints bottleneck code in one of the easiest to learn and most productive ways available."

*Mike McIntyre, devCity.NET*

### Red Gate Software

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