ICPU™
Inspect-CPU

Application Performance for IBM® CICS®

Benefits

- ✓ Identifies CPU intensive programs and points to the offsets/statements where most CPU is spent

- ✓ Marginal overhead

- ✓ Know what CICS functions are invoked

- ✓ Unlike other tools, the product is capable of running in production environment as well as QA and Test

- ✓ Application Performance Management (APM) for IBM CICS Systems

- ✓ Helps solve response & down time

- ✓ Improves Application Quality

- ✓ Significant cost and CPU savings

- ✓ Helps reduce Rolling 4 Hour Average and CICS monthly license charges

Features

- ✓ Easy to install

- ✓ Inspection Online or in Batch

- ✓ Source code listing + Natural® support

- ✓ Multi-User sampling

- ✓ Supports with all current CICS releases - uses standard IBM interfaces

- ✓ Exception Inspection Feature for finding programs with sporadic issues

- ✓ Filter by any combination of User, Transaction ID, Terminal, or Program

- ✓ Supports **Threadsafe analysis** providing complete TCB switching info and CPU use to identify best conversion candidates

Identify and Fix Application Performance Issues with ICPU for IBM® CICS®

ICPU™ ("Inspect-CPU") is a tool for finding problems in your CICS applications so they can more easily be corrected thus improving application quality and response time. Imagine having sampling software that can run at a FIXED overhead in your production environment that gives you the most CPU intensive programs and also points to the offsets (or source statements) in those programs where the most CPU is spent?

It is now possible to do exactly that with ICPU™. ICPU gives the best information possible by allowing you to:

- • Get the actual transaction mix

- • Get it during your busiest time of the day

- • Find the Program(s) that uses the most CPU – no matter which transaction

- • Run in production with very low overhead

- • Locate the offsets or source statements in the programs where the most CPU is spent

- • Know what CICS functions or code is being invoked for analysis and remediation.

ICPU's newest capability is the Exception Inspection feature which can track and record programs that cause erratic spikes in CPU usage – something almost IMPOSSIBLE to track with other tools.

ICPU can be used freely throughout the application life cycle as well by all the CICS personnel in Development, QA, and UAT environments. This ensures that only efficient, highly supervised programs are moved into production. Early discovery of performance problems saves money. A system with tuned applications is more stable, causes fewer problems and helps I.T. save on new hardware investment and associated software license upgrades.

What are people saying about ICPU?

"I saw Inspect-CPU on this forum and downloaded it. I only got a couple of hours to play with it, but it looks like a very useful bit of software. The big thing I saw that it does is tell you where the code is in your program that's getting all the time. IIRC, it breaks the program into chunks (you decide how big), then reports on how much time each chunk uses."

"The low overhead allows ongoing use for identifying all of our CICS optimizing efforts… something we could not do with other products. Also, the threadsafe conversion support is very useful in prioritizing our efforts."

ESAi
Enterprise Systems Associates, Inc.

Log-On
SOFTWARE

Why ICPU™ and not Other Sampling Products?
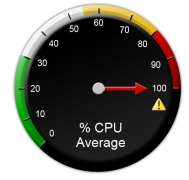
If you are using a CPU sampling product for CICS like Strobe® or others, please ask yourself a simple question: *How many times was it used in the past year, who used it and why?*

The answer most probably will be: it was used a few times by the system programmers to resolve a severe production response time problem. Normally this is done by running the same script/transactions on your test system, trying to identify the line(s) of code which is causing the problem(s).

If the slow response time problem is, for example, I/O related, is it possible to identify the code causing the problem? Will changing the program logic make a difference? This type of problem is better identified by other tools that monitor the CICS production environment.

As a matter of fact, the only time modifying a program helps is when the sampling product shows that coding in the application is causing CPU overhead.

These sampling products record an execution trace resulting in a huge amount of data and high overhead to produce reports about your CICS system. This CPU-intensive process yields far too much material that goes unused and requires a specialist to make sense of all of the reports.

The overhead of running typical sampling products is so high that they can **only** be turned on for a few minutes. This happens very rarely with production systems and NEVER in peak times. This power is only cautiously allowed to the more experienced systems programmers.

A Better Solution...

ICPU was designed and developed to overcome all of these known issues providing a different, better and cost-effective solution to CPU sampling needs. Further, a concerted effort was made to create a tool that could be used by not only the systems programmers and experts, but also by applications programmers and line staff.

ICPU is easy to use and understand and can be used all day long by many programmers at the same time in both test or production environments. With marginal impact on system resources, it supports thorough testing of program performance prior to promotion to the product environments. Further, it

helps discover the CPU guzzling statements in production load modules. An invaluable tool for maintaining application quality and controlling resource costs.

ICPU's overhead is acceptable even in **heavily used** production CICS systems. ICPU is interactive, results can be reviewed online and sampling can be terminated at any convenient time. It is not necessary to stop the sampling in order to see the results. This eliminates wasting time and resources and missing the capture of certain events. Sampling can even run unattended and then the results will be periodically saved to a file for future review.

ICPU provides new CPU savings opportunities, even for well performing applications. For example, take a program that runs a million times a day under various transactions, all of them with good response time. Over a one day period, this program may be the highest consumer of CPU – a fact that **other tools are unable to detect** as they cannot run over an extended period of time. By reducing each execution of this program by 1 millisecond, the one day savings would be 16 CPU minutes, which according to some experts can be estimated to be a yearly savings of $48,000 or more.

Inspect-CPU for IBM® CICS® is the **only** CPU sampling product that can find these programs and help you achieve savings at an acceptable overhead. Use Inspect-CPU to improve the quality and performance of your CICS applications! Supports all current CICS/TS releases in a z/OS® environment.

Contact Us For More Information:

Ask us for the Web Video/Demo link and the FREE 14-day trial evaluation. Learn more about ICPU and our complete line of z/OS® and Db2® products at www.ESAIGroup.com/products .

- **BCV4/BCV5:** ultra-fast, automated migrate/copy/clone, **10x better** CPU, I/O, & effort vs. Unload/Load
- **ULT4DB2:** the better log analyzer plus reporting/auditing
- **BPA4DB2/SQLQC:** improved Db2 & SQL performance

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