

You'll never have to turn on the auxiliary trace again...

## A new approach

C\Prof is a new approach for gaining business and operational value from the CICS internal trace.

C\Prof peeks inside CICS, but **doesn't interfere with its execution**. It is not a monitor and **does not require changes to CICS**.

Unlike traditional approaches, C\Prof makes the CICS trace inexpensive to capture and simple to interpret.

## Multiple modes

- Take a point in time **snapshot** of the CICS internal trace to diagnose what just happened
- **Record** to CICS auxiliary trace data sets without involving CICS – more control with less overhead
- **Profile** your CICS transactions in near-real time to gain an application perspective of the trace

## Capturing the problem is a snap

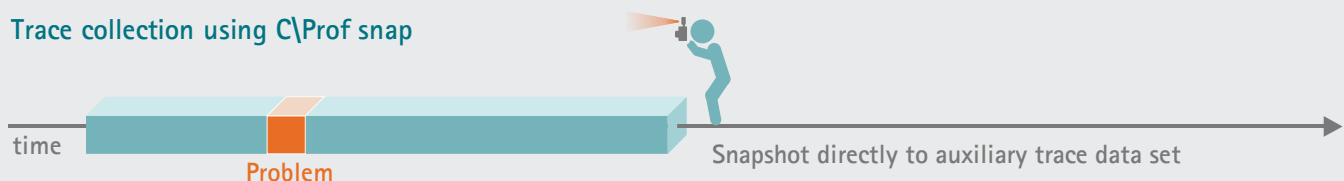
With C\Prof, you no longer need to reproduce the problem – simply take a **snapshot** of the CICS internal trace to create an **on-demand auxiliary trace data set** at a fraction of the cost.

Unlike the CICS auxiliary trace which captures events that may occur in the future, a C\Prof auxiliary trace data set contains a record of what **happened** in CICS in the recent past. This allows you to **capture and analyze problems** when they first occur without waiting for it to happen again.

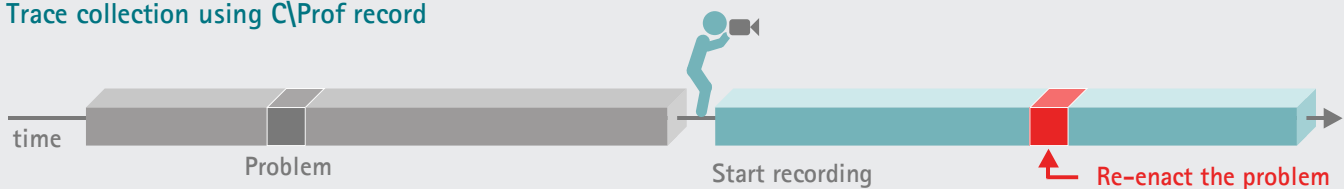
## Record, trace, load, and profile

Use **record** like you would the CICS auxiliary trace but with more control and less overhead. Analyze the resulting auxiliary trace data sets using C\Prof, or use **your existing trace reporting tools** as desired. Better still, **load** your auxiliary trace data sets into the C\Prof **profiler** to reveal transaction performance metrics and dive into the trace events themselves...

### Trace collection using C\Prof snap



### Trace collection using C\Prof record



*Use snap to capture an unexpected problem and record when trying to recreate it*

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## Profiling: an application perspective of the trace

When collecting data continuously or in short bursts, the insights captured by C\Prof allow you to:

- Analyze the transaction, its programs and application calls at the trace-event level
- View transaction performance
- Follow the program flow (across MRO)
- Understand application calls (CICS, DB2, Java, MQ, and IMS)
- Deep dive into trace events

No matter your role, C\Prof has you covered:

- **Production support personnel:** conduct low impact short burst analysis
- **Application developers:** measure performance characteristics and debug applications
- **Project leads:** verify project requirements
- **Analysts:** identify bottlenecks and problem areas
- **Testers:** support your application developers with detailed trace information

Near-real time transaction detail:

- List transactions based on selection criteria
- Sift through millions of transactions with powerful find, filter, save, and sort capabilities
- **Program analysis:** For each program used by the transaction, see where the time is being spent
- **Application calls:** See elapsed times and formatted results of EXEC CICS application calls

```

C\PROF Application Events                               Row 1 of 98 More: >
Command ==>                                           Scroll ==> PAGE
Tran: BPMT Start: 2016-06-03 15:54:54.210489 Response: 0.012935 Task: 3248

/  Relative APPLID  Program  Elapsed Call  Resource  EIBRESP
---
+0.000000 CICSSTOR                                ATTACH TASK
+0.000280 CICSAOR  WEBBANK1                        START PROGRAM  WEBBANK1
+0.000317 CICSAOR  WEBBANK1                        LINK           OTELLER2 OK
+0.000467 CICSAOR  ACCOUNT3                                LINK           ACCOUNT3 OK
+0.000651 CICSFOR  ACCOUNT3                                LINK           ACCOUNT3 OK
+0.000749 CICSFOR  ACCOUNT3                                READQ          ACCOUNT3 OK
+0.000807 CICSFOR  ACCOUNT3                                WRITE          ACCOUNT3 OK
+0.000851 CICSFOR  ACCOUNT3                                READQ          ACCOUNT3 OK
+0.000877 CICSFOR  ACCOUNT3                                DELETE        ACCOUNT3 OK
+0.000916 CICSFOR  ACCOUNT3                                RETURN        ACCOUNT3 OK
+0.001005 CICSAOR  OTELLER2                                LINK           OTELLER2 OK
+0.001033 CICSAOR  CHEKBAL4                                READ          OTELLER2 OK
+0.001148 CICSAOR  CHEKBAL4                                RETURN        OTELLER2 OK
+0.001052 CICSAOR  OTELLER2                                ASKTIME       ASBTIME      OK
+0.001055 CICSAOR  OTELLER2                                FORMATIME     OK
+0.001051 CICSAOR  OTELLER2                                WRITE FILE    OAUDITR7 OK
+0.010786 CICSAOR  OTELLER2                                RETURN
+0.010876 CICSAOR  WEBBANK1                                RETURN
+0.012935 CICSSTOR  WEBBANK1                                RELEASE TASK
  
```

See every EXEC CICS, DB2 SQL, IMS DLI, and MQ call. See both relative and elapsed times. Follow the program link trail. See the statement number...