

# Rocket® C\Prof

## Intuitive transaction profiling for IBM® CICS®

IBM® Customer Information Control System (CICS®) Transaction Server for z/OS is a critical part of your mainframe environment. Ensuring that applications are running well and the ability to quickly find and fix errors are daily requirements. But reproducing a problem and identifying solutions with existing tools can be tedious, time consuming, and expensive.

Rocket® C\Prof helps organizations get more business and operational value from CICS internal trace data. Whether you're an application developer, systems programmer, support person, project lead, tester or analyst, C\Prof provides the added details you need to diagnose problems in your CICS applications faster—with minimal impact on your business-critical applications.

### Product benefits

- 1 Reduces downtime and helps users quickly resolve issues thanks to on-demand trace data
- 2 Operates externally to CICS
- 3 Provides comprehensive application analysis with an easy-to-use interface





Holistic, intuitive, and easy to use

Quickly identify problem transactions and drill down to see application events in detail. C\Prof lets you see individual transactions execute across multiple CICS regions, so you can spend less time sorting through diagnostic data and more time solving problems. It's intuitive, easy to use, and provides value to staff across a range of roles and responsibilities.



Increase insight while minimizing CICS resource drain

Stop pulling precious resources away from business-critical applications. C\Prof runs outside of the CICS address space and requires no changes to CICS itself. You can collect and interpret the trace data with significantly less impact on your business operations. Two different operating modes allow you to profile transactions from an application perspective, or to collect trace data to diagnose system problems.

Easily identify problems, minimizing downtime

Rocket C\Prof > ROCKET:FUWFWR > Events in DATA

Tran: DATA Start: 2019-08-27 15:47:30.424653 Response: 0.005955

APPLID	Program	Elapsed Time	Call	Resource	EIBRESP	Command
FUFWIR		0.79%	0.00047	LINK	DATABUS	OK LINK PROGRAM('DATABUS
FUFWIR	DATABUS	0.30%	0.00018	ASSIGN		OK ASSIGN COBOLII STMT_#
FUFWIR	DATABUS	0.55%	0.00033	GET CONTAIN...		OK GET CONTAINER('reques
FUFWIR	DATABUS	36.89%	0.002197	READ	PAYROLL	OK READ FILE('PAYROLL')

```

15:47:30.426942 FUFWIR AP 00E1 EIP ENTRY READ REQ(0004)
15:47:30.426947 FUFWIR AP E160 EXEC ENTRY READ FILE('PAYROLL') INTO(AT X'2860D0C8') LENGTH(150) RIDFLD(AT X'A860CE14') EQUAL COBOLII STMT_#(
15:47:30.426951 FUFWIR AP 04F0 EIFC ENTRY READ_FILE
15:47:30.426955 FUFWIR AP 04E0 FCFR ENTRY READ_INT0 FILE_NAME(PAYROLL) BUFFER_ADDRESS(2860D0C8) BUFFER_LENGTH(96) ENVIRONMENT_IDENTIFIER(000
KEY_COMPARISON(EQUAL) READ_INTEGRITY(FCT_VALUE) RECORD_ID_TYPE(KEY) CONDITIONAL(NO) BYPASS_SECURITY
15:47:30.426959 FUFWIR DD 0301 DDLO ENTRY LOCATE DIRECTORY_TOKEN(26FB6BC0) ENTRY_NAME(26F299E1) LOCKING_MODE(CALLER) DIRECTORY_NAME(FCT) NAM
15:47:30.426963 FUFWIR DD 0302 DDLO EXIT LOCATE/OK DATA_TOKEN(00000000 , 26FB76C0)
15:47:30.426968 FUFWIR XS 0701 XSRC ENTRY CHECK_CICS_RESOURCE RESOURCE(PAYROLL) RESOURCE_TYPE(FILE) ACCESS(READ)
15:47:30.426968 FUFWIR XS 0702 XSRC EXIT CHECK_CICS_RESOURCE/OK
15:47:30.426976 FUFWIR AP 00DF ISP ENTRY CONVERSE REQ(0003)
15:47:30.426976 FUFWIR AP FD02 ZLOC ENTRY LOCATE ID(FWAR) LOC_REQ_ID_LOCAL
15:47:30.426980 FUFWIR AP EA00 TMP ENTRY LOCATE TABLE(TCTE) KEY(FWAR)
15:47:30.426980 FUFWIR AP EA01 TMP EXIT LOCATE TABLE(TCTE) KEY(FWAR) RESPONSE(HOT_FOUND)
15:47:30.426981 FUFWIR AP EA00 TMP ENTRY LOCATE TABLE(TCTS) KEY(FWAR)
15:47:30.426981 FUFWIR AP EA01 TMP EXIT LOCATE TABLE(TCTS) KEY(FWAR) ENTRY_ADDRESS(27025390) RESPONSE(NORMAL)
15:47:30.426984 FUFWIR AP FD02 ZLOC EXIT LOCATE TCTTE(27025390) NORMAL
15:47:30.426985 FUFWIR AP F000 XCP ENTRY LOCATE_PROFILE
15:47:30.426985 FUFWIR AP EA00 TMP ENTRY LOCATE TABLE(PFT) KEY(DHFCICSF)
15:47:30.426988 FUFWIR AP EA01 TMP EXIT LOCATE TABLE(PFT) KEY(DHFCICSF) ENTRY_ADDRESS(24141C00) RESPONSE(NORMAL)
15:47:30.426989 FUFWIR AP F001 XCP EXIT LOCATE_PROFILE
15:47:30.426989 FUFWIR AP FD00 ZISP ENTRY FACILITY_REQ TCTTE(27025390) ALLOCATE FREESYCN FREEREST UNPROT Q
15:47:30.426989 FUFWIR AP FD02 ZLOC ENTRY LOCATE TCTTE(27025390) NEXT
15:47:30.426994 FUFWIR AP FD02 ZLOC EXIT LOCATE TCTTE(270F0030) NORMAL
15:47:30.426997 FUFWIR RM 0301 RMLN ENTRY ADD_LINK_CLIENT_NAME(IRC) LOGNAME_BUFFER(270F0183 , A3905D7E , 00000008) REMOTE_ACCESS_ID_BUFFER(2
26FB800 , 0000000A) RMC_TOKEN(270F0030) LAST(MAYBE) PRESUMPTION(400RT) PRELOGGING(NO) SINGLE UPDA

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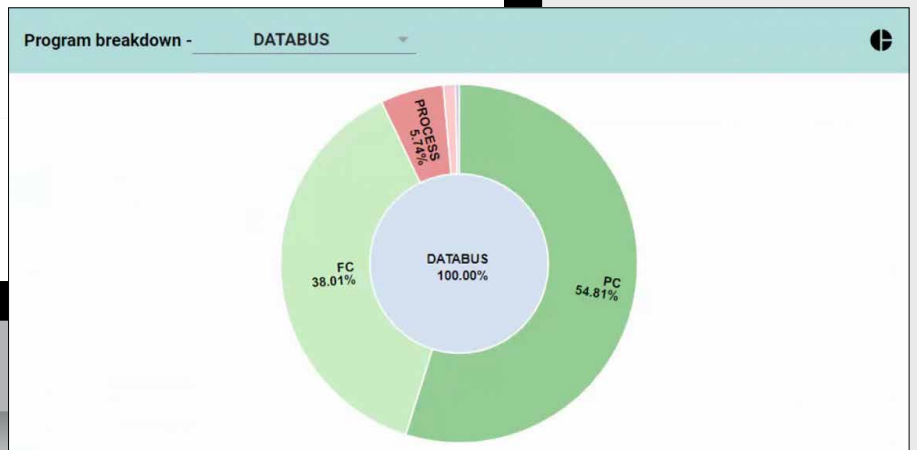
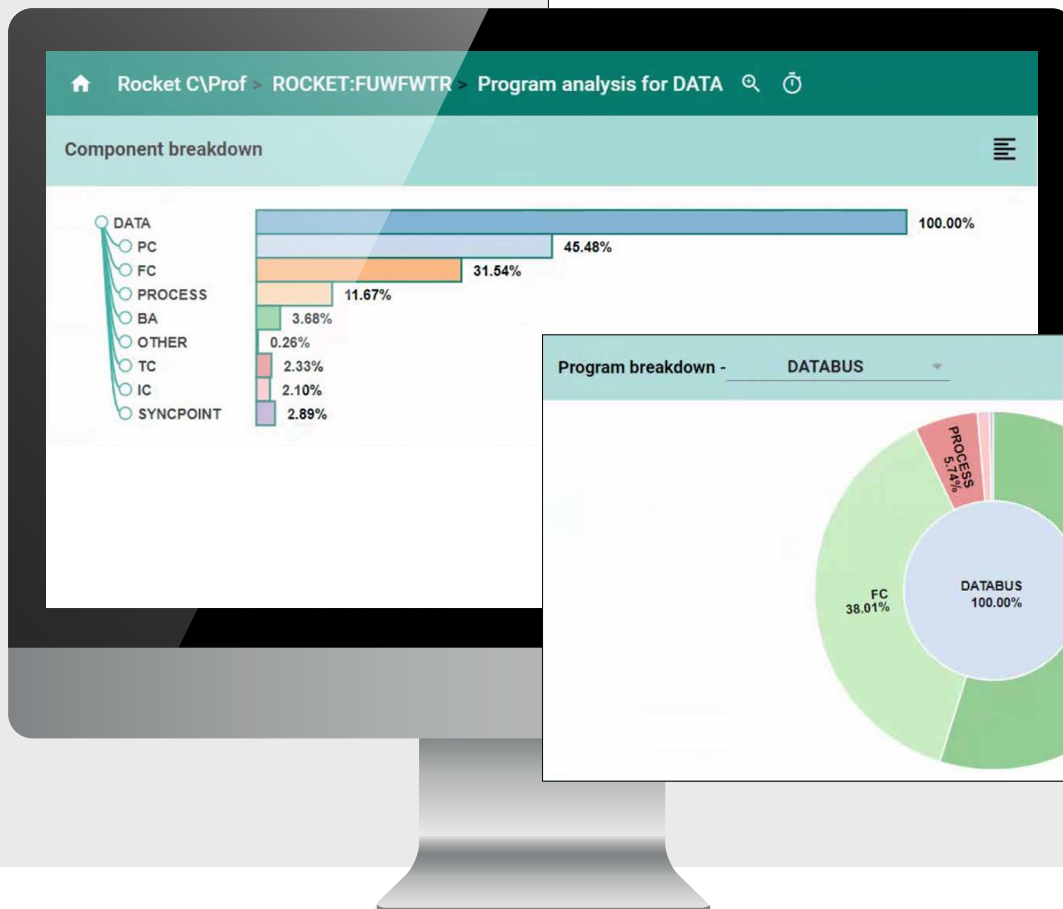
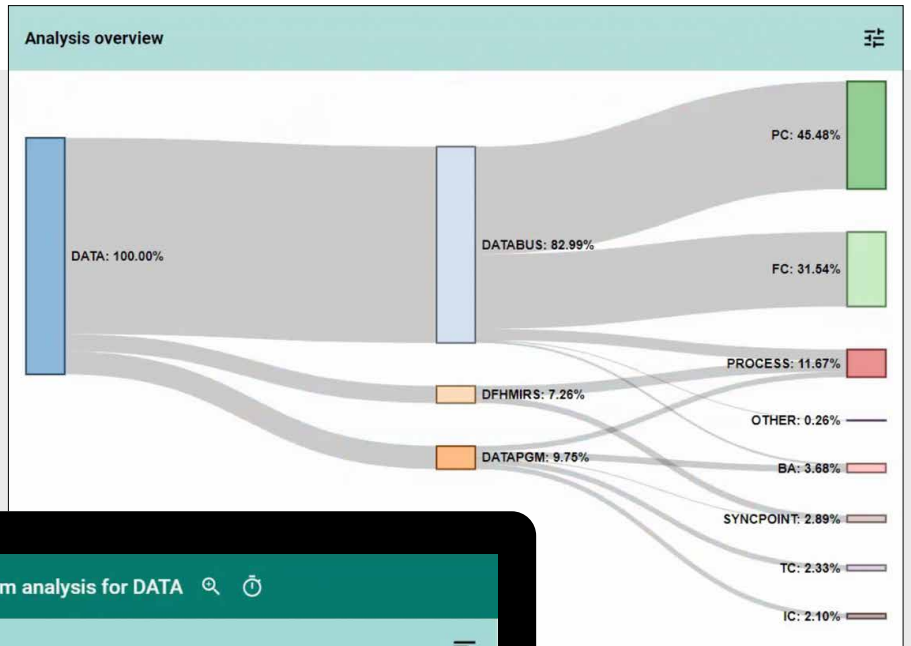




## Capture and analyze problems as they occur

C\Prof lets you capture a problem as it occurs, potentially reducing the need to reproduce it. In less than a second, you can take a point-in-time snapshot of the CICS internal trace data and write it to an auxiliary trace data set. Now you can capture and analyze problems when they first occur without waiting for them to happen again.

Quickly and easily analyze a transaction right within Rocket C\Prof



# Features/Functionality:

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

- Select transactions based on your criteria; for example, transaction name and response time
- Sift through millions of transactions with powerful find, filter, save, and sort capabilities
- Identify all the programs used by a transaction, and the performance profile of each program
- Follow the program flow across multiple CICS regions
- Review all the application calls made by each program—including EXEC CICS as well as Db2, JCICS, MQ, and IMS—in rich detail and with elapsed time analysis
- Dive deep into the trace events associated with each transaction or application call in order to identify the cause of a delay or problem

# Tech Specs:

**Rocket C\Prof V1.2 has the following requirements:**

- IBM System z10 or subsequent 64-bit z/Architecture processor
- z/OS V2.2 or later
- CICS Transaction Server for z/OS V5.1 or later
- IBM 64-bit SDK for z/OS, Java Technology Edition, V8 or later (required for web server)
- Google Chrome (recommended for web user interface)

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