



Mainframe Application Success

Complex code, high support costs and shrinking mainframe application expertise characterize the mainframe application environment.

PathPoint offers the keys to success for current and future mainframe application projects, by helping people understand:

- HOW the applications really work
- WHERE in the applications to investigate

Preparing Applications for the Future

PathPoint simplifies and accelerates the transition of legacy mainframe applications into flexible, functional and nimble applications. PathPoint does so by providing transition features and functionality to support:

- Service Oriented Architecture (SOA)
- Modernization and Transformation
- Componentization

Managing the Present

PathPoint provides a means to reduce the time and effort associated with managing the day to day mainframe application maintenance project workload, including:

- Change Requests
- Problem Determination
- Performance Assessment

PathPoint – A New Dynamic Approach

PathPoint is a *dynamic* mainframe application *discovery* tool that provides a *new execution-based* approach for understanding how mainframe applications “really work”.

PathPoint traces and captures the sequential application-processing path followed by specified, user entered, business transactions - *as they execute*. Captured information provides unparalleled insight into execution-based application facts.

PathPoint’s dynamic approach eliminates the need to analyze static source code and “play computer” as you try to find the right code.

No more guess work. PathPoint helps you find the right code.

Accelerate and Fund Projects

Personal productivity gains will result from the use of PathPoint and, in turn, save time. This timesaving has significant value and provides a unique vehicle to accelerate, as well as fund, present and future projects.

- Mainframe application maintenance cost savings can fund new projects
- Greater efficiency accelerates solution delivery

Sequence Number	CICS System/Trans	Program Name	Call Stmt Number	Call Statements	Status Code	Response Time	Interim Time
1	CTVB	OE05	CICS	CALL OPOE005C (INIT) IN CO2		0.000000	0.005117
2	CTVB	OE05	OPOE005C	10452 SELECT ORDER_STATUS_CODE INTO :WORK-FETCH.WK-ORDER-STA	100	0.001151	0.007457
3	CTVB	OE05	OPOE005C	10459 SELECT ORDER_STATUS_CODE INTO :WORK-FETCH.WK-ORDER-STA	0	0.000803	0.003816
4	CTVB	OE05	OPOE005C	x'192D6' CALL OPC00200 (LINK) IN CO2		0.000000	0.003344
5	CTVB	OE05	OPC00200	993 OPEN ISBN-CURSORS		0.004950	0.002917
6	CTVB	OE05	OPC00200	1026 FETCH ISBN-CURSORS INTO :HV-PROD-TC			
7	CTVB	OE05	OPC00200	1015 CLOSE ISBN-CURSORS			
8	CTVB	OE05	OPOE005C	13254 SELECT GROUP_NUMBER , BO_RELEASE			
9	CTVB	OE05	OPOE005C	13113 SELECT ACCOUNT_NUMBER , GROUP_N			
10	CTVB	OE05	OPOE005C	13201 SELECT ACCOUNT_NUMBER , GROUP_N			
11	CTVB	OE05	OPOE005C	12743 OPEN PROMO-CURSORS			
12	CTVB	OE05	OPOE005C	12752 FETCH PROMO-CURSORS INTO :PROMOT			
13	CTVB	OE05	OPOE005C	12773 CLOSE PROMO-CURSORS			
14	CTVB	OE05	OPOE005C	8136 SELECT PROMOTION_STATUS , PROMOT			
15	CTVB	OE05	OPOE005C	8213 SELECT PROMOTION_KEY , ORDER_NUM			
16	CTVB	OE05	OPOE005C	12114 SELECT COUNT (*) INTO :WS-DATA-COU			
17	CTVB	OE05	OPOE005C	14084 OPEN PROMO-PRODS			
18	CTVB	OE05	OPOE005C	14088 FETCH PROMO-PRODS INTO :PROMOTI			
19	CTVB	OE05	OPOE005C	14099 CLOSE PROMO-PRODS			
20	CTVB	OE05	OPOE005C	14121 SELECT PUB_DATE_TO INTO :PROMOTI			
21	CTVB	OE05	OPOE005C	14041 SELECT PRIMARY_SERV_CNTR INTO :WS			
22	CTVB	OE05	OPOE005C	14239 SELECT DISC_NET_PRINT_IND , FREIGHT			
23	CTVB	OE05	OPOE005C	x'1EBC3C' CALL OPC00150 (LINK) IN CO2			
24	CTVB	OE05	OPC0110B	301 SELECT PACK_QTY INTO :HV-FIELDS.HV			
25	CTVB	OE05	OPOE005C	x'1F050' CALL OPC00050 (LINK) IN CO2			

Captured Call Path Information – Process View

Files Accessed and How Accessed

Type	Table/File Name	Identifier	C	R	U	D	Total
DB2	TOPACCOUNTSCHEDULE	DVT2		1			1
DB2	TOPBOOKORDHEADER	DVT2		1			1
DB2	TOPCOTIMPRINTPREF	DVT2		1			1
DB2	TOPDISCOUNTACCUM	DVT2	2	2	2		6
DB2	TOPDISCOUNTMATRIX	DVT2		1			1
DB2	TOPFACILITYID	DVT2		1			1
DB2	TOPFPBACKLOG	DVT2		1			1
DB2	TOPGROUPPROFILE	DVT2				1	1
DB2	TOPGRPACTPRFL	DVT2		2			2
DB2	TOPISBNPACKTYP	DVT2		1	1	1	3
DB2	TOPPDACCTPRFL	DVT2		1	1		2
DB2	TOPPRBKLINEITEM	DVT2		2	1		3
DB2	TOPPRBKORDHEADER	DVT2		2			2
DB2	TOPDISCOUNTACCUM	DVT2		2	2	2	6
DB2	TOPDISCOUNTACCUM	DVT2		2			2
DB2	TOPDISCOUNTACCUM	DVT2		2			2

Columns Accessed and How Accessed

Table/File	Name	Identifier	C	R	U	D	All Strms
TOPDISCOUNTACCUM	ACCOUNT_NUMBER	DVT2					6
TOPDISCOUNTACCUM	BACKLIST_QUANTITY	DVT2		1	1		3
TOPDISCOUNTACCUM	COMBIN_BL_NEW_IND	DVT2		1	1		2
TOPDISCOUNTACCUM	DISC_ACCUM_CODE	DVT2		2	1		3
TOPDISCOUNTACCUM	DISC_SCHEDULE_CODE	DVT2		2			2
TOPDISCOUNTACCUM	FRONTLIST_QUANTITY	DVT2		2	2	2	6
TOPDISCOUNTACCUM	GROUP_NUMBER	DVT2		2			2
TOPDISCOUNTACCUM	ORDER_NUMBER	DVT2		2			2

Call Statements Accessing a Specific File

Inst #	Pgm/Pkg	Stmt #	Statement
63	OPC00050	1642	SELECT FRONTLIST_QUANTITY INTO :HV-DA-TOPDISCOUNTACCUM.F
63	OPC00050	1655	INSERT INTO TOPDISCOUNTACCUM (ORDER_NUMBER , GROUP_NU
63	OPC00050	1786	SELECT COMBIN_BL_NEW_IND , DISC_ACCUM_CODE , FRONTLIST_I
63	OPC00050	1804	INSERT INTO TOPDISCOUNTACCUM (ORDER_NUMBER , GROUP_NU
63	OPC00050	1937	UPDATE TOPDISCOUNTACCUM SET FRONTLIST_QUANTITY = :HV-DA
63	OPC00050	1967	UPDATE TOPDISCOUNTACCUM SET FRONTLIST_QUANTITY = :WS-V

Captured Call Path Information – Data View





Breakthrough Dynamic Technology

Without any change to application source code, PathPoint *dynamically* captures the application-processing path followed by a specified, *user-entered*, business transaction(s) as it executes on the mainframe. In minutes, application information is captured on the mainframe and downloaded to a PC relational warehouse. Users are provided with factual information about the application, including, in the actual sequence of execution:

- Input and output screens
- Programs called
- Call statements issued
- Tables/files accessed
- How tables/files are accessed

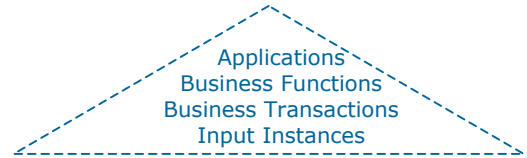
Access to accurate information provides an unmatched understanding of mainframe applications – knowledge based upon *dynamic* execution-based fact.

Step 1 – Enter Business Transactions

A specified (by user-id) mainframe user simply enters a desired business transaction (enter an order, for example) in either the test or production environment. The PathPoint Mainframe Component *dynamically* traces and captures the application processing paths followed by the entered business transaction. Captured information is then downloaded to the PathPoint PC Analyst Workstation relational warehouse for analysis.

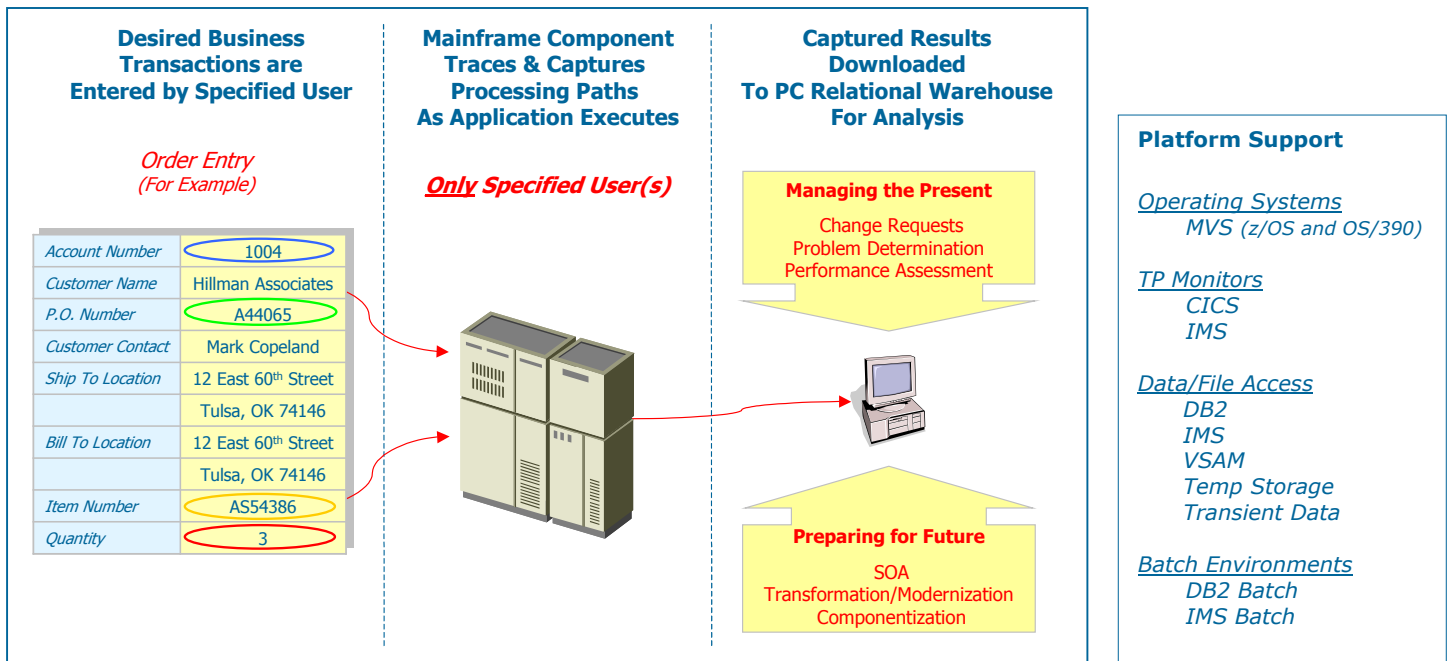
Step 2 - Analyze Captured Information

The PathPoint PC Analyst Workstation, with its relational database, enables users to gain rapid point-and-click access to mainframe application processing information – users now understand how the application really works. Information is organized hierarchically in business terms, simplifying access and understanding:



Features at a Glance

- Captures, in sequence, the application processing activity for user-specific business transactions
- Programming language independent
- No change to source code required
- Supports online and batch environments
- Provides application performance information at the call statement level
- Captures terminal and non-terminal entered business transactions
- Follows application processing activity across multiple CICS regions
- Provides CRUD matrix of call activity to tables/files and field/column level



PathPoint is Easy to Use

