Abend-AID's Hidden Treasure Chest of Capabilities

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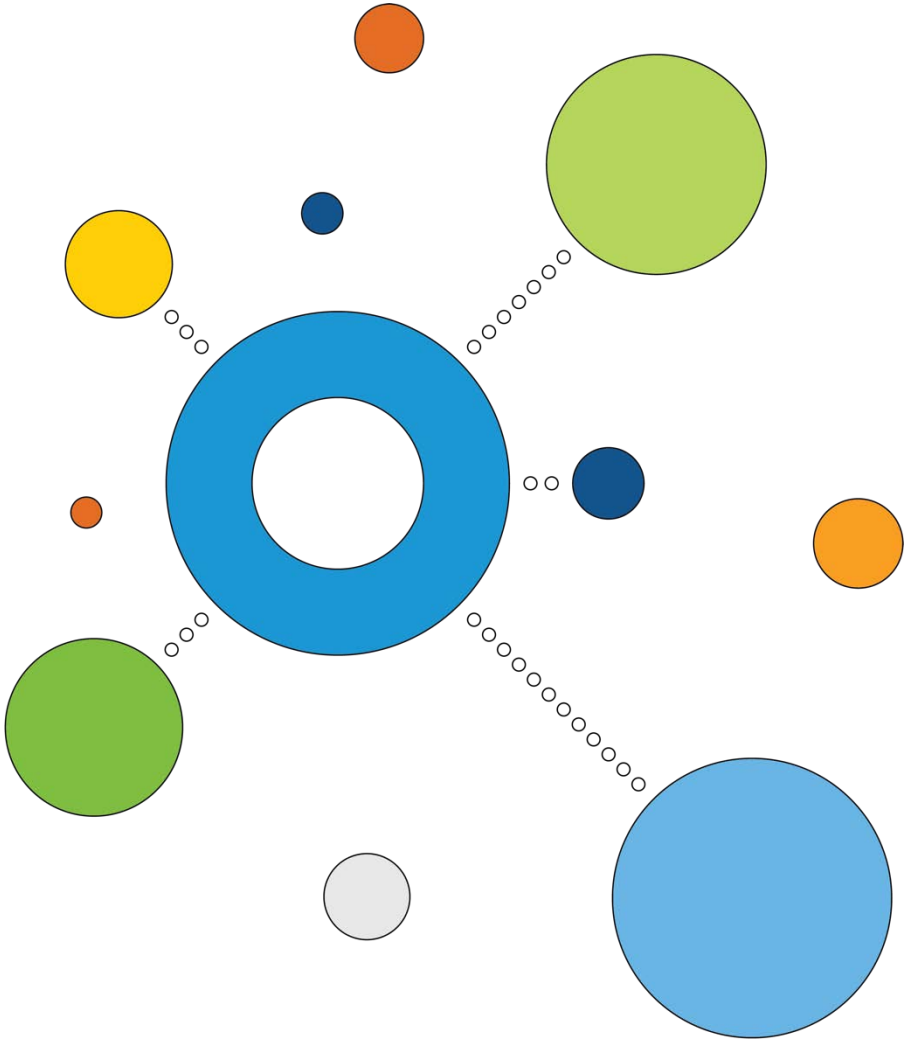
Agenda

1. Root Cause Analysis
2. Extended Search
3. Perform Flow
4. Seamless Integration Between Abend-AID and File-AID
5. Using SNAP-AID

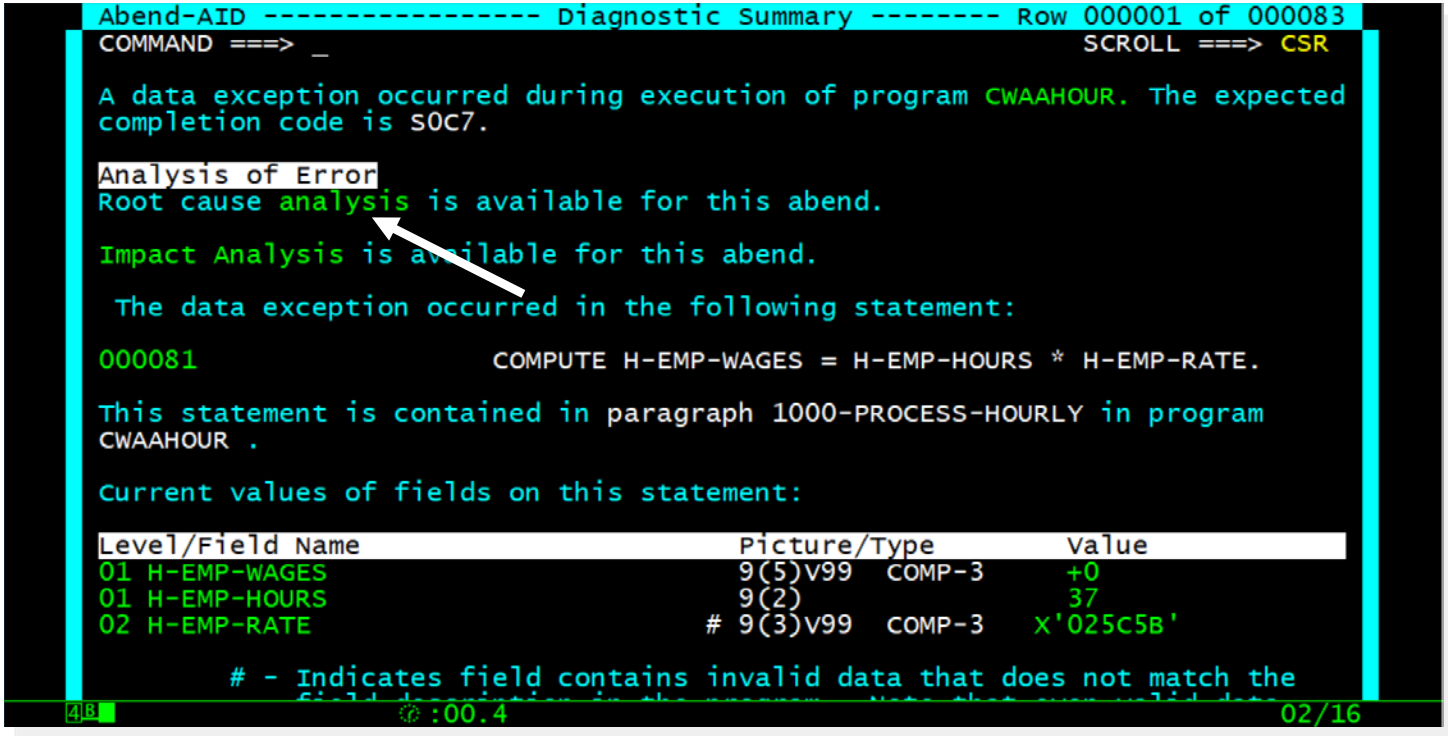


ROOT CAUSE ANALYSIS

Root Cause Analysis

- Analyzes every field on abending statement to identify those that appear invalid and attempts to analyze how field was initialized/updated and where it originated
- Displayed in Diagnostic Summary in Abend-AID Viewer
- Available for:
  - Abend-AID for Batch reports containing S0C7, S0C1, S0C9, SOC4 and S0CB abends
  - Abend-AID for CICS includes all data-related ASRA abends; compiled listing must be available
- Root cause analysis is especially helpful when bad data is being passed between programs

Root Cause Analysis



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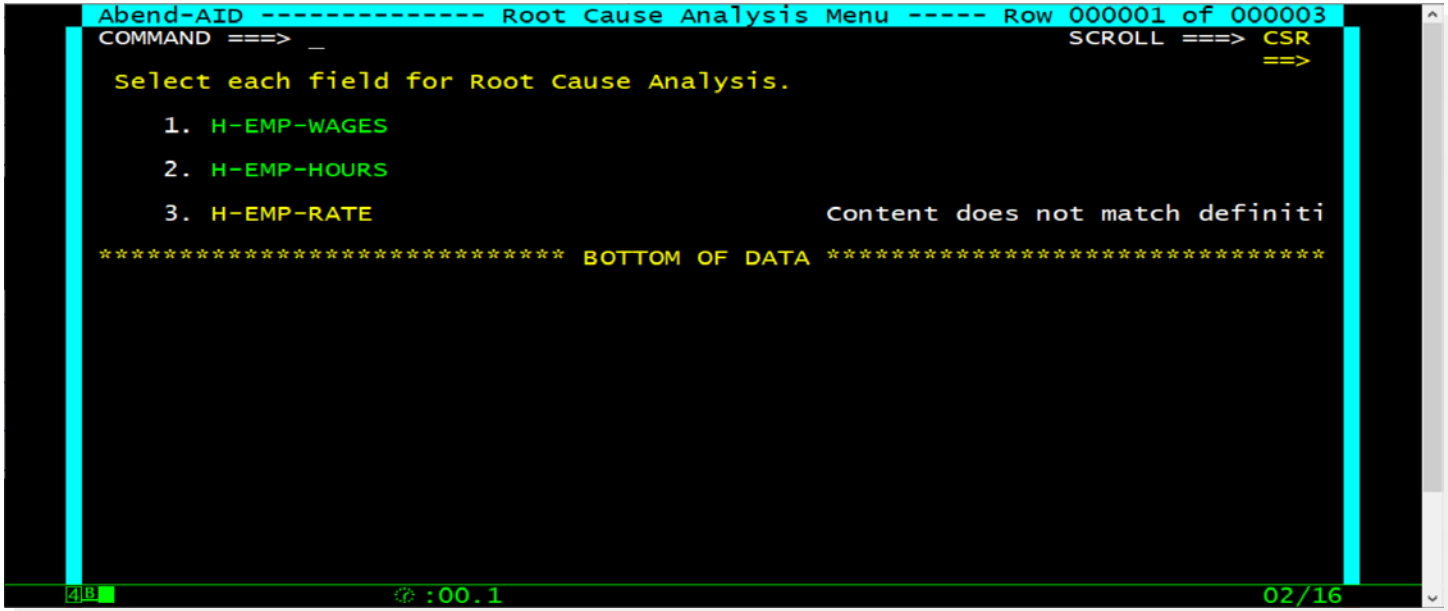

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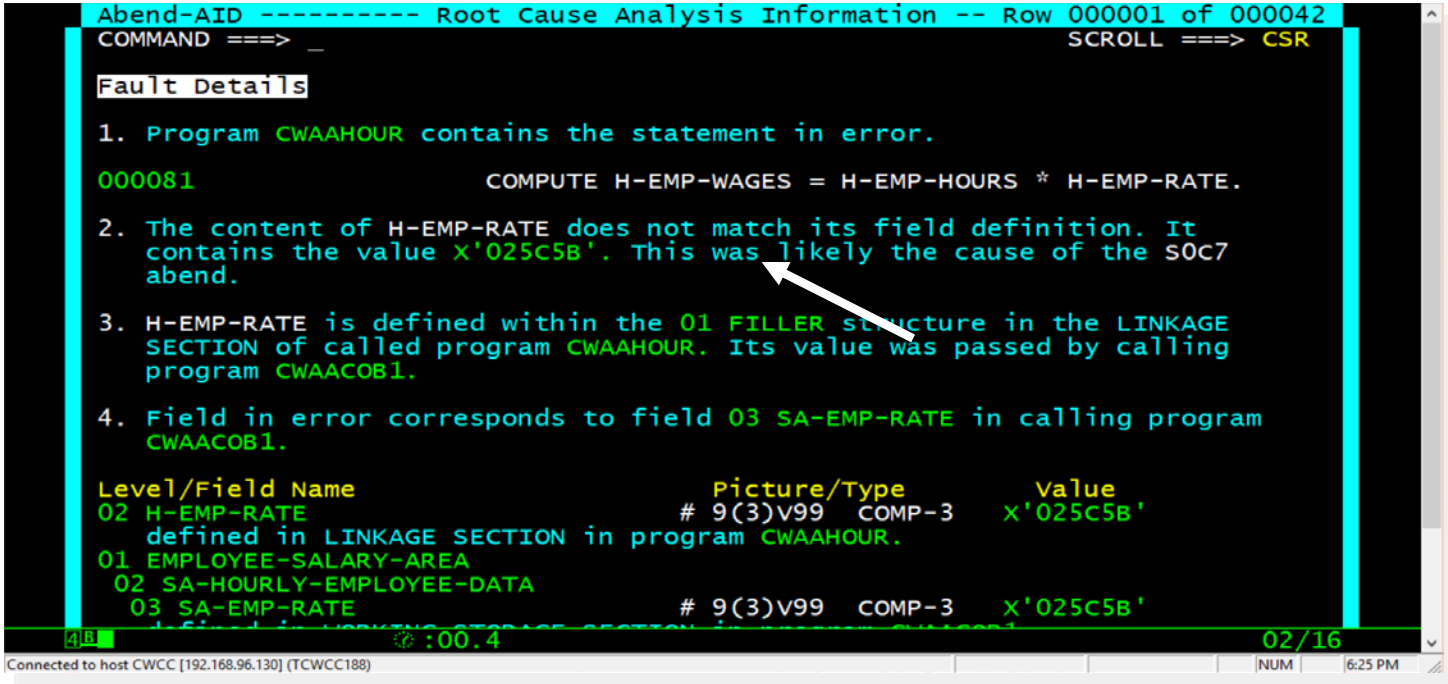

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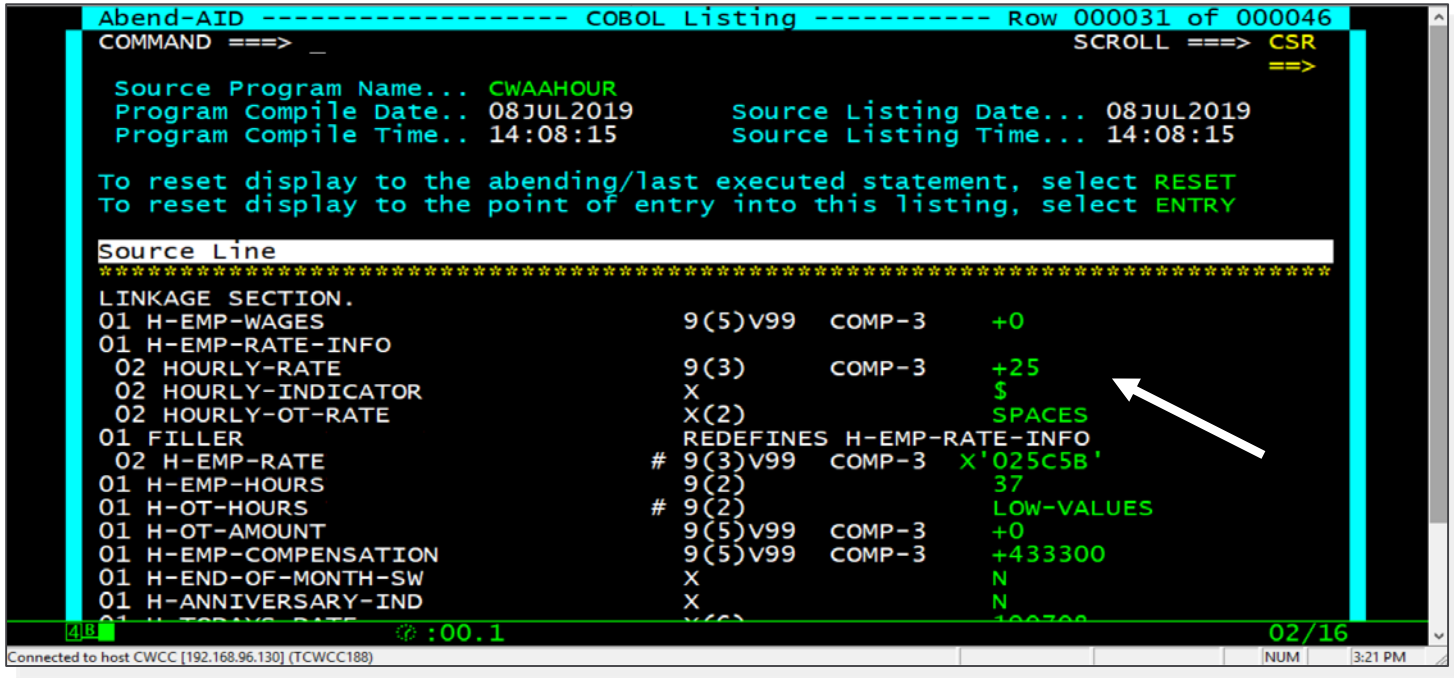

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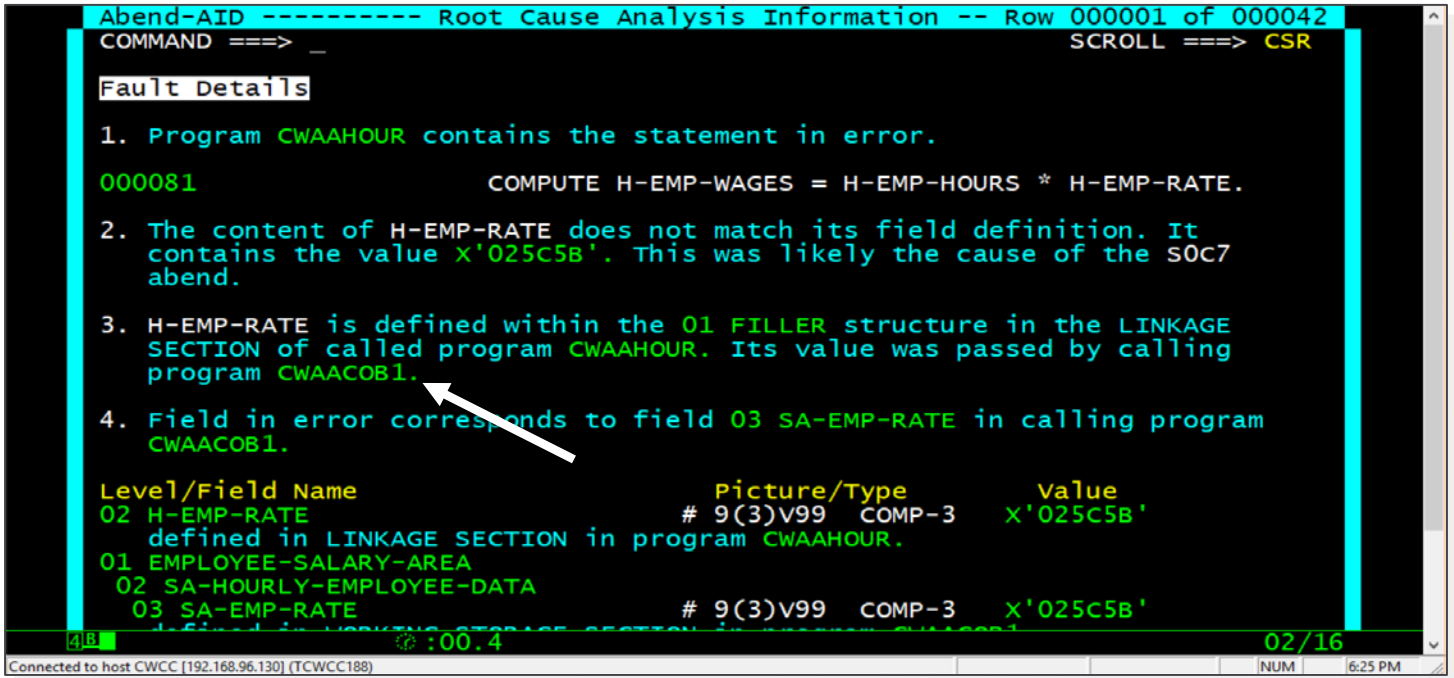

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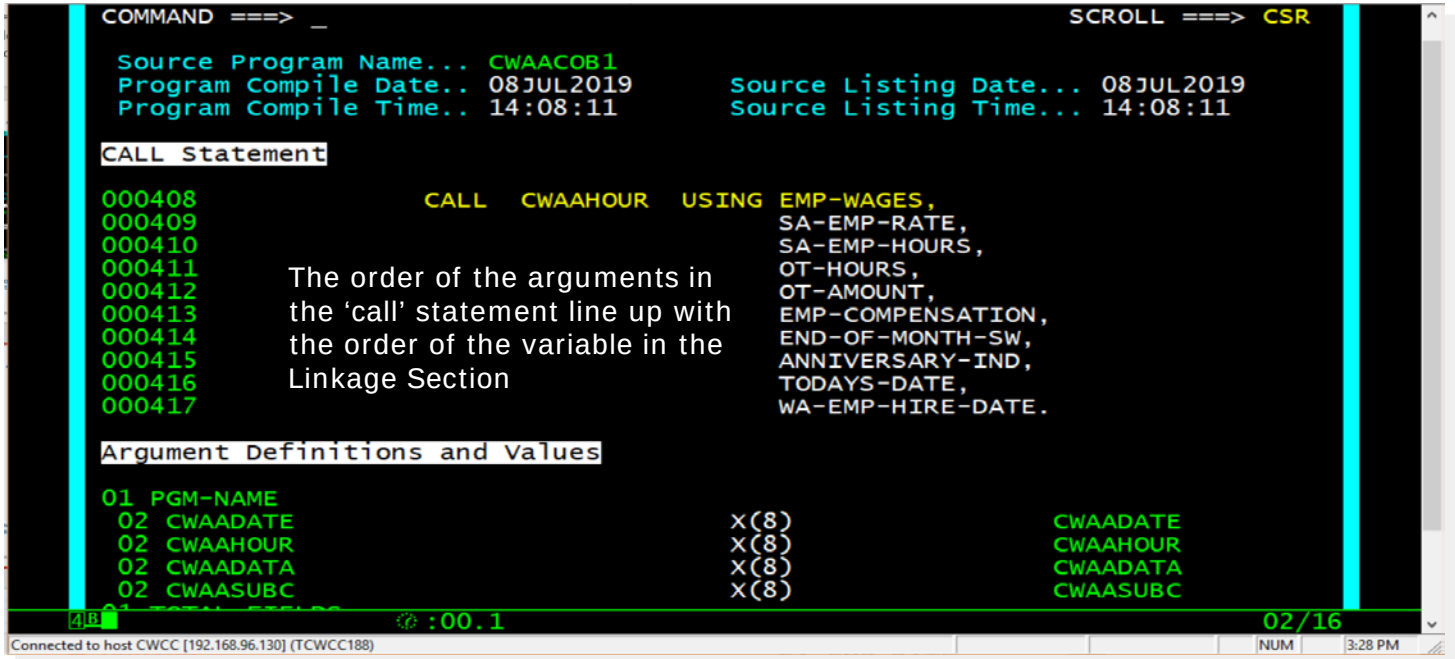
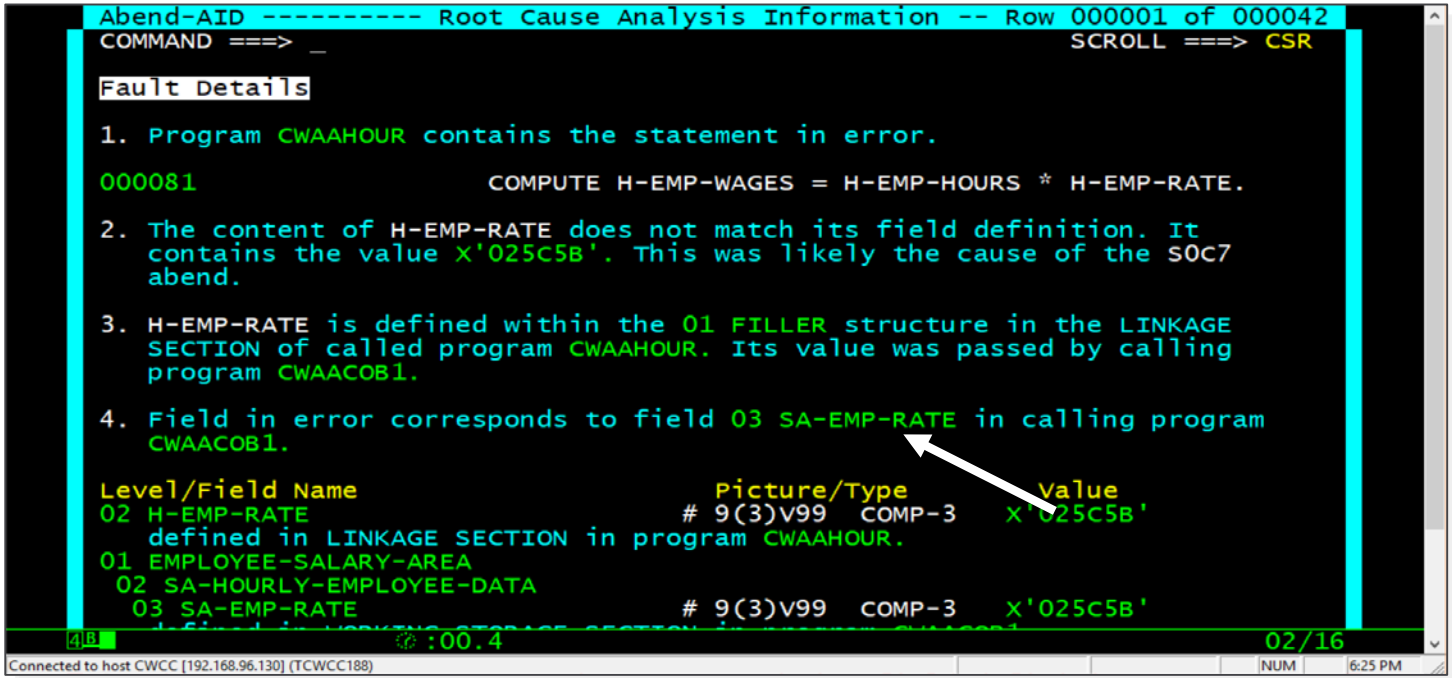


The order of the arguments in the 'call' statement line up with the order of the variable in the Linkage Section

Root Cause Analysis

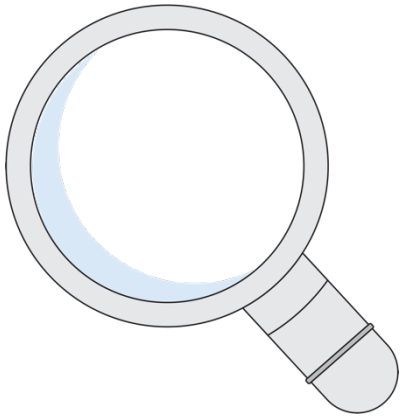


EXTENDED SEARCH

Extended Search

Access Extended Search Listing screen to:

- Search source listing
- Display statements that directly or indirectly modify selected field
- Display data definitions that directly or indirectly reference selected field



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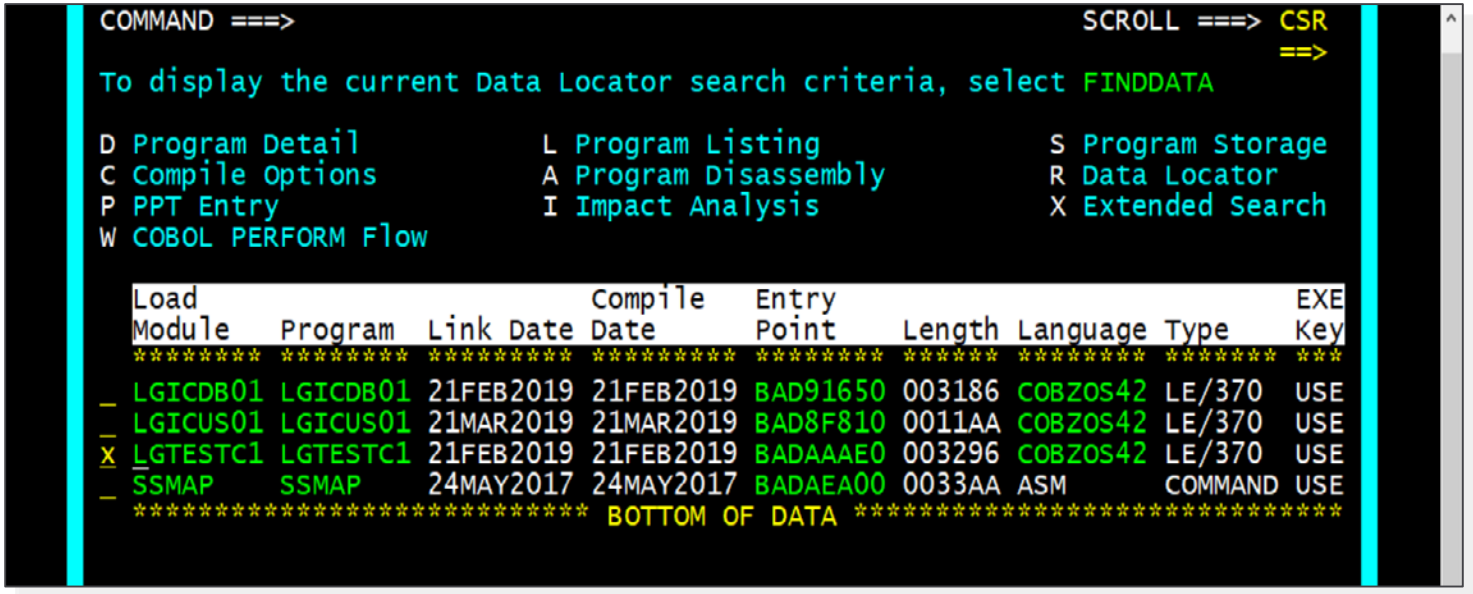

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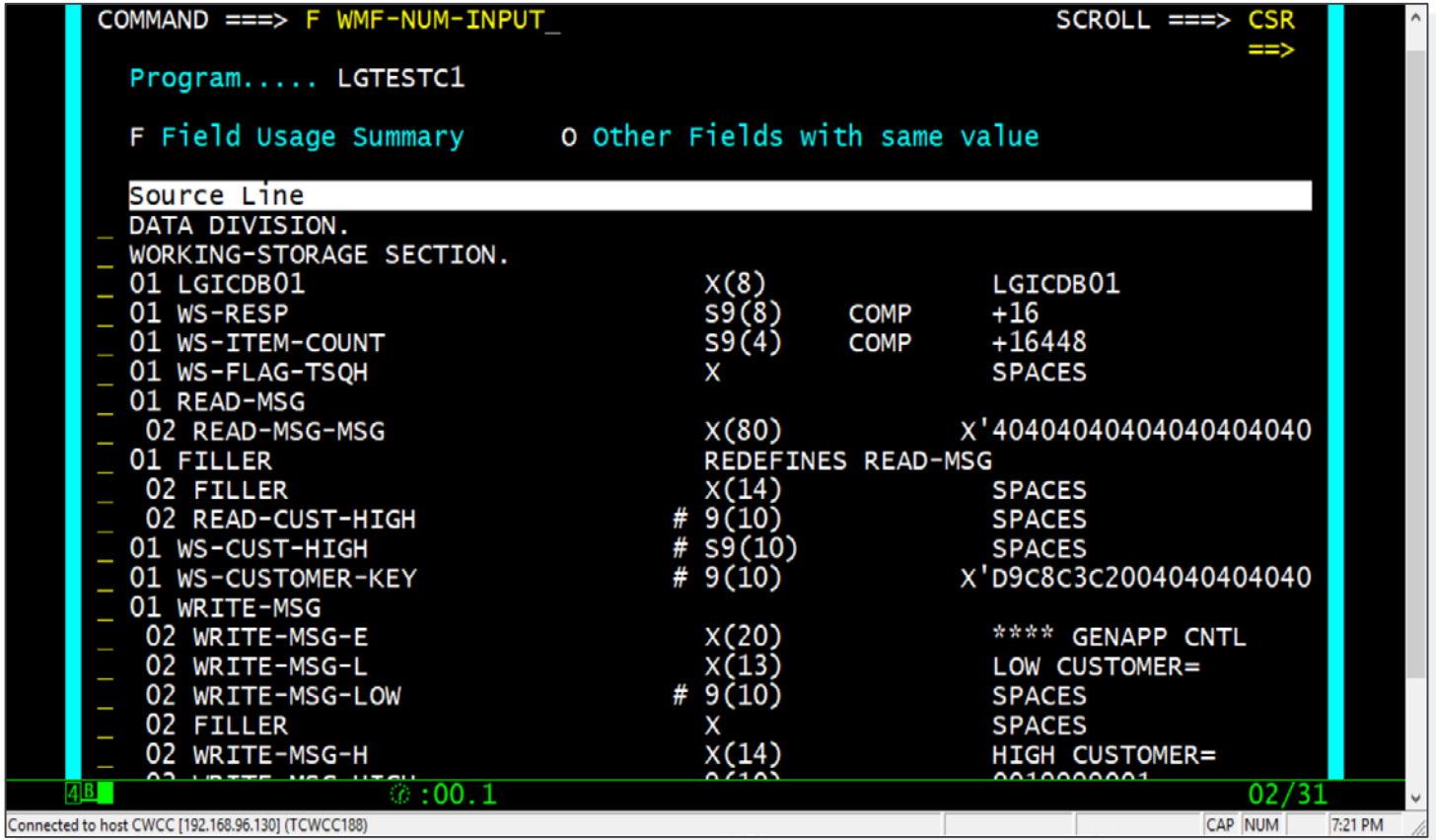

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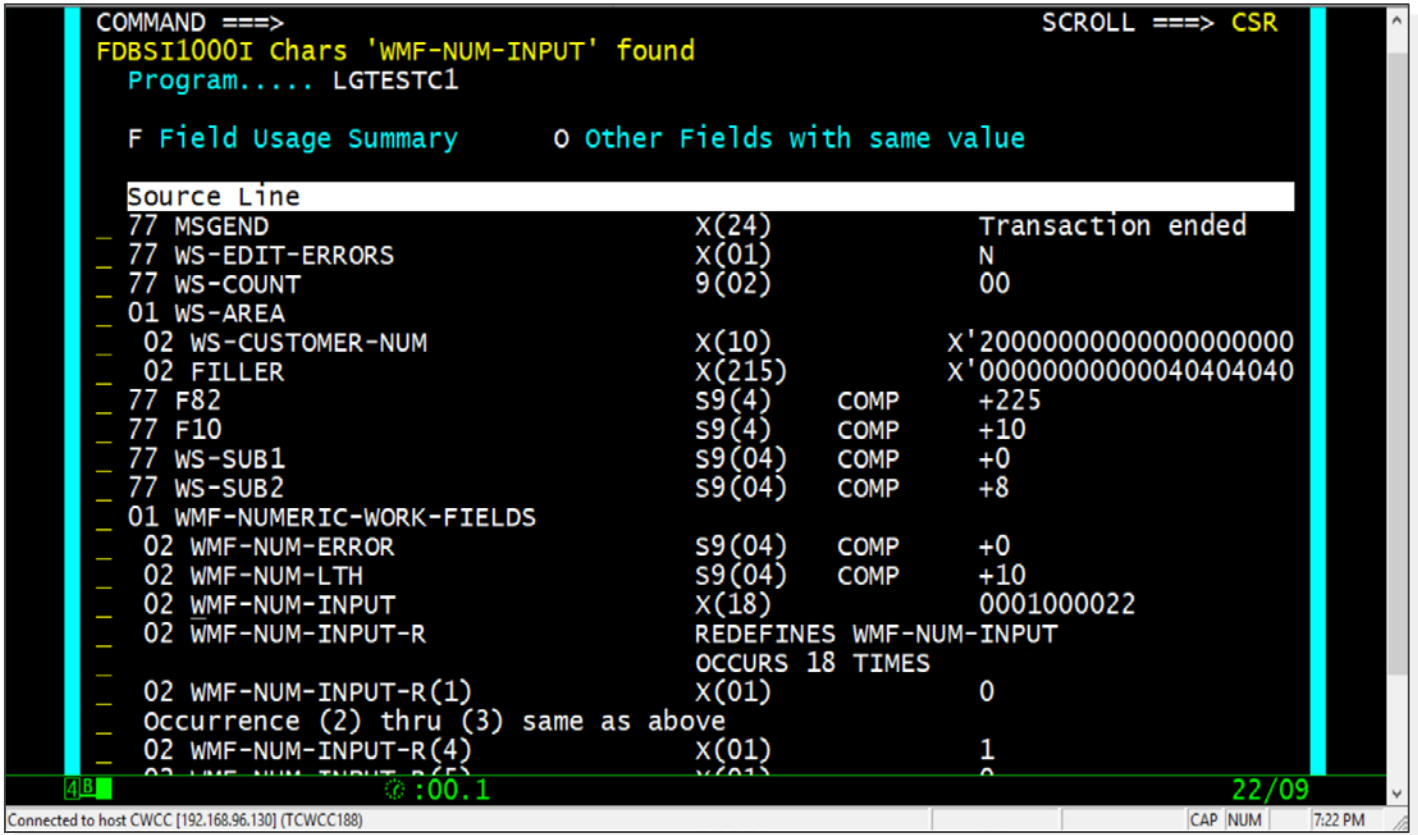

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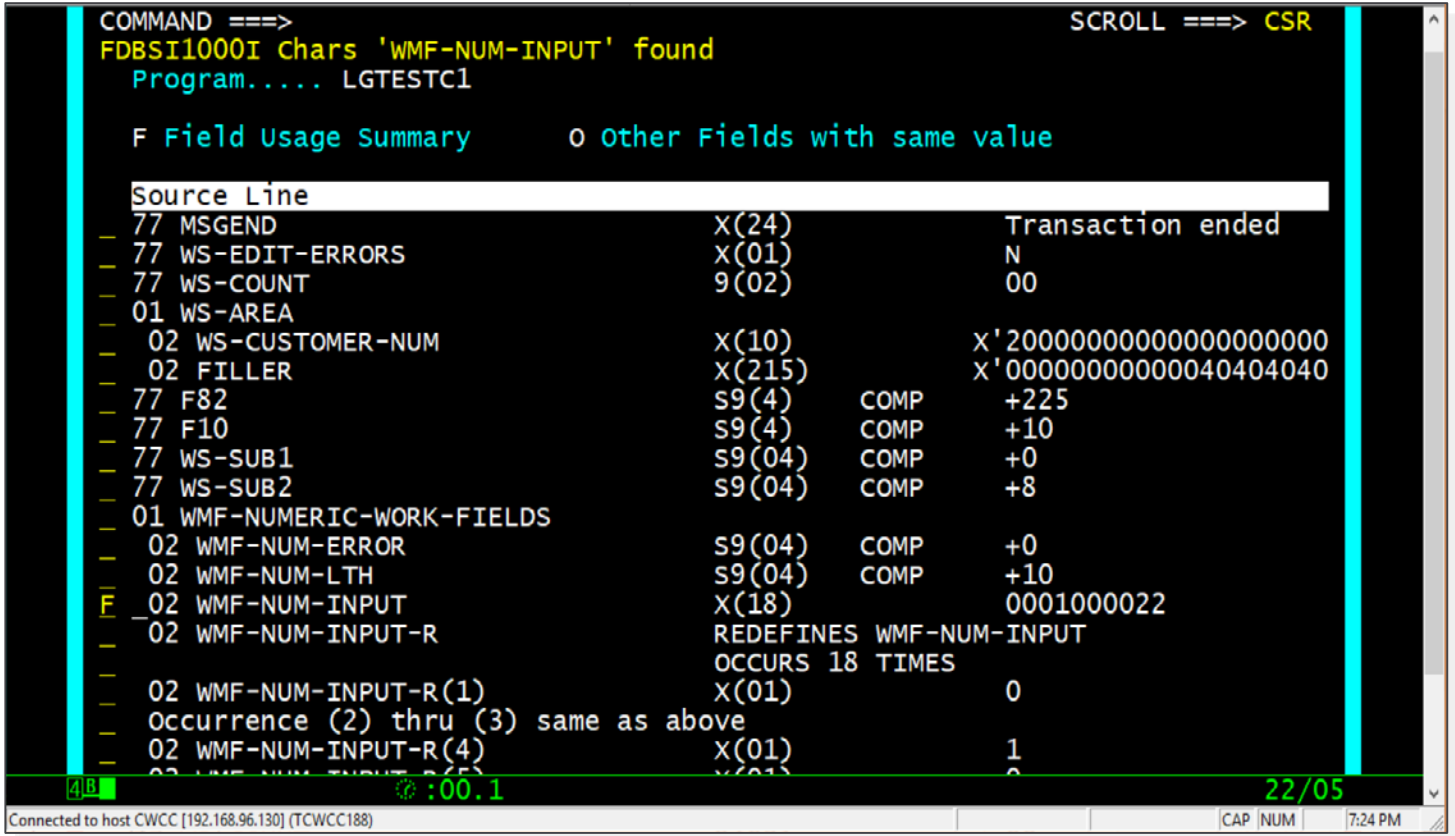

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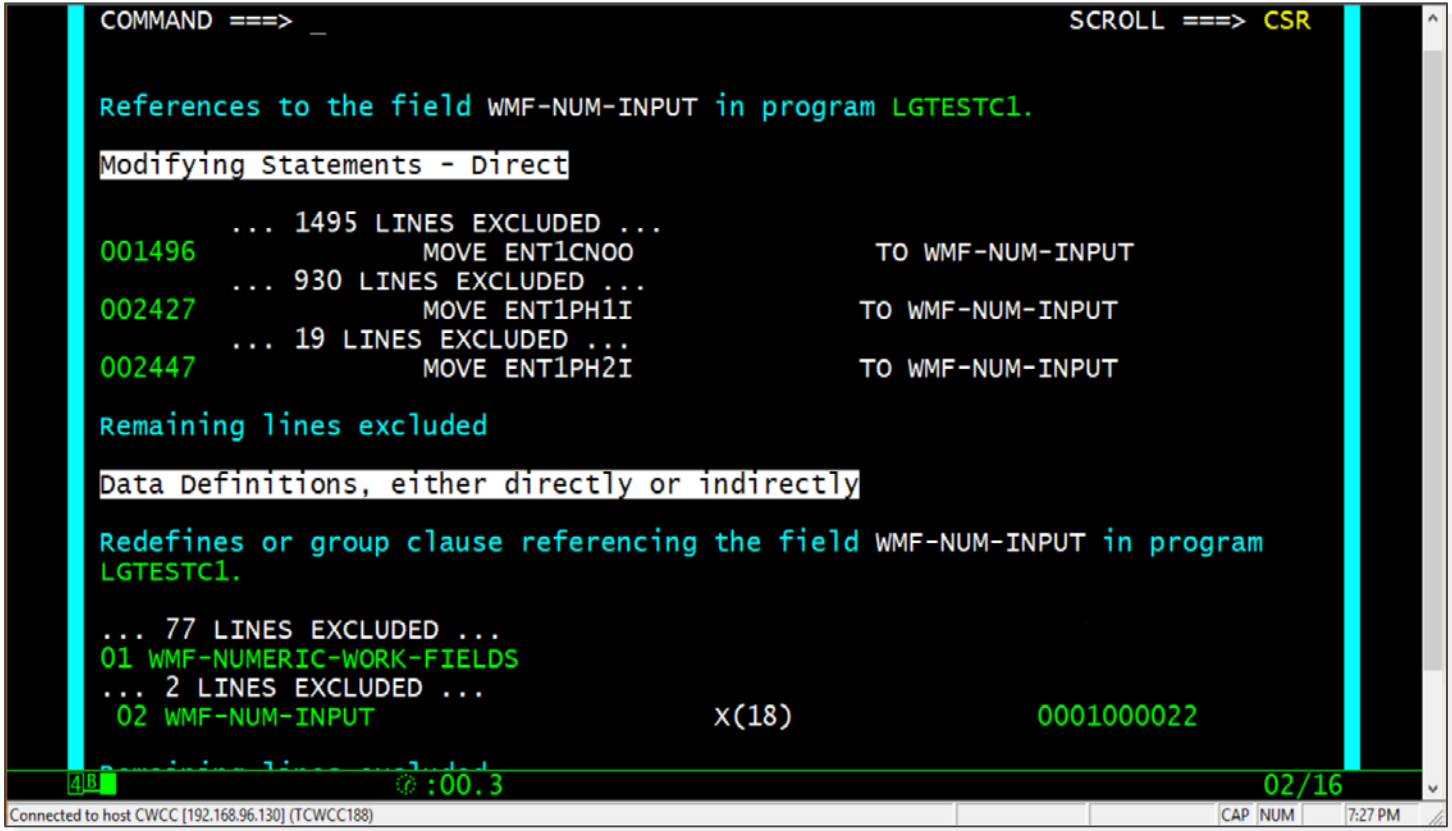

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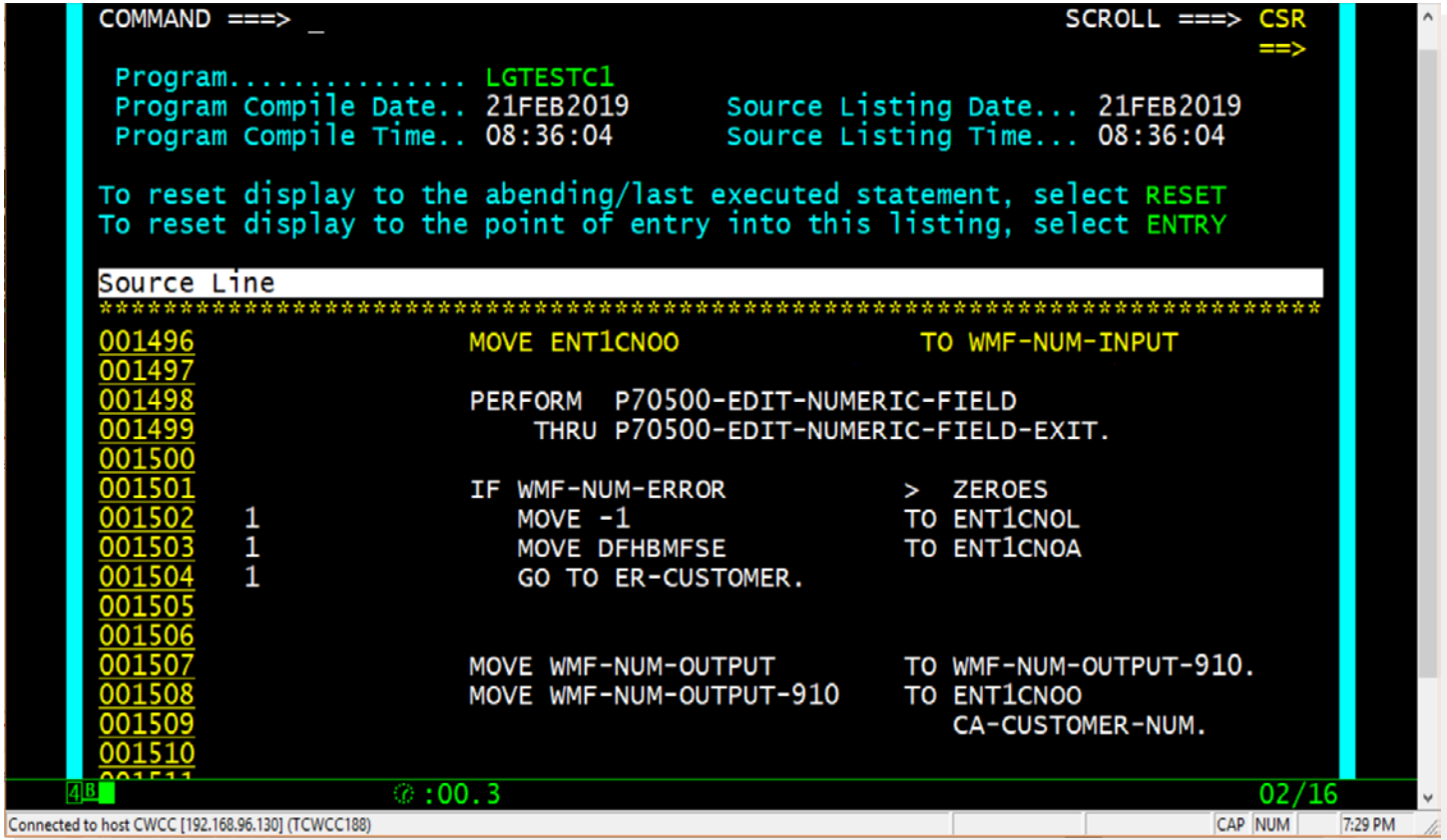

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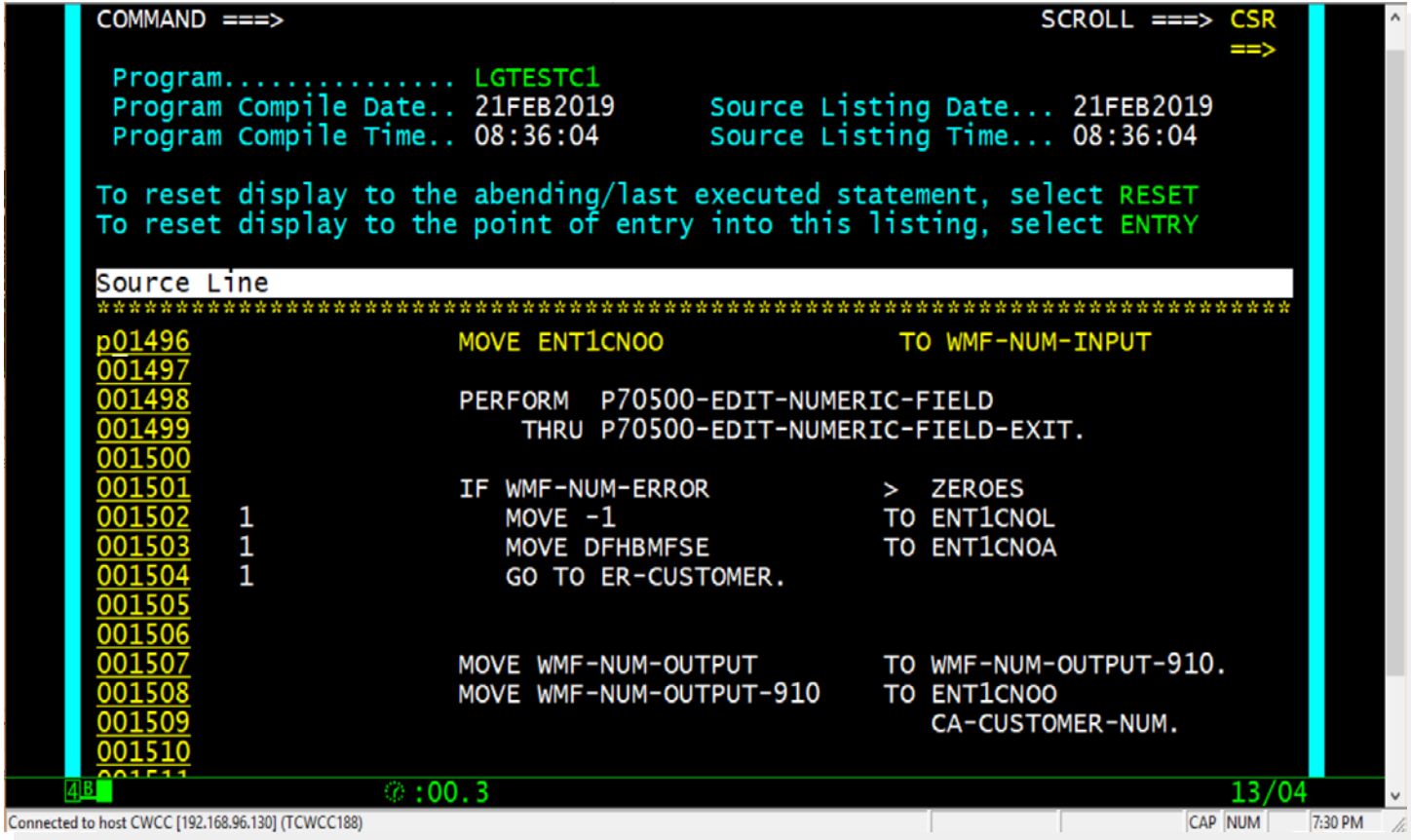

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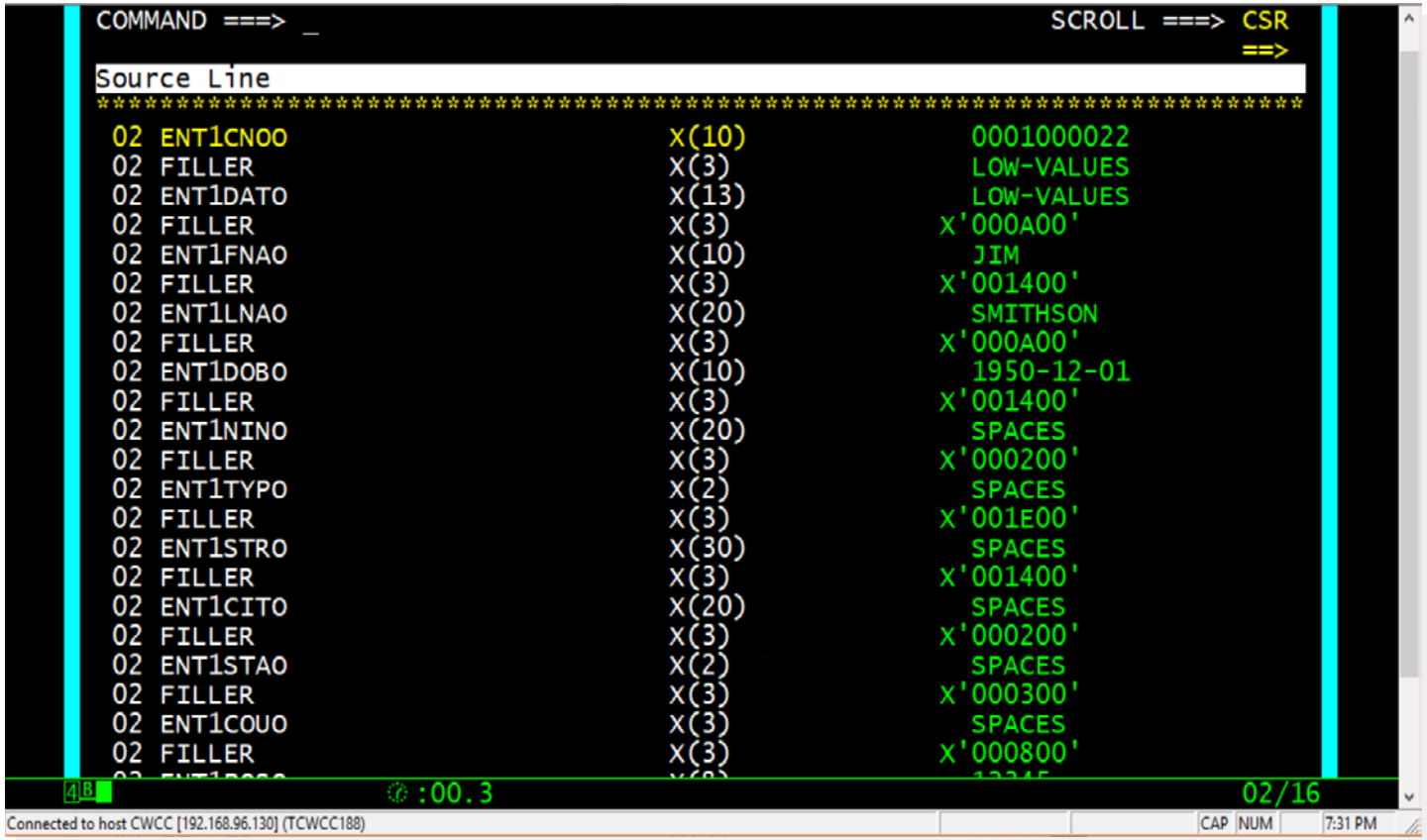

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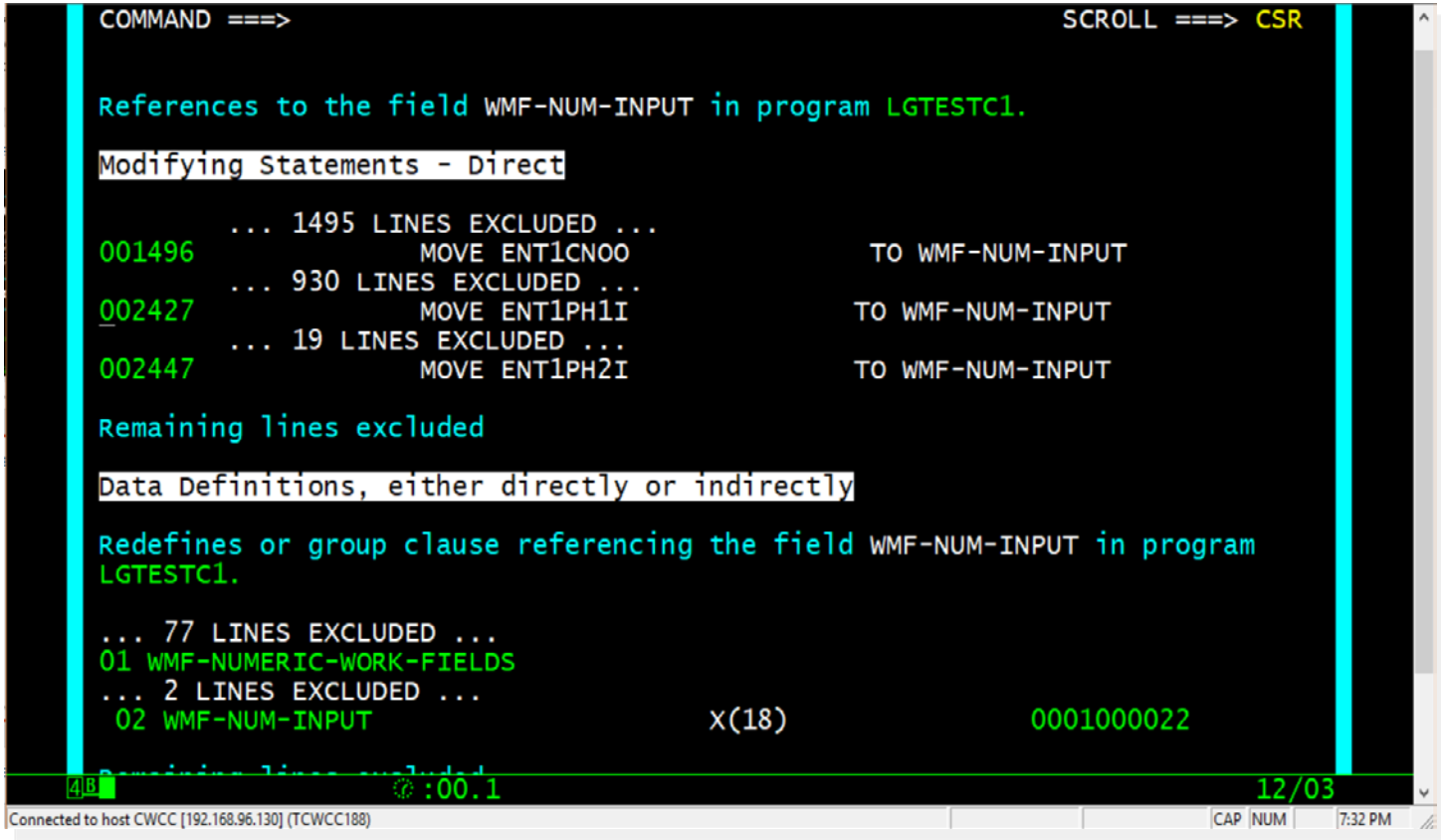

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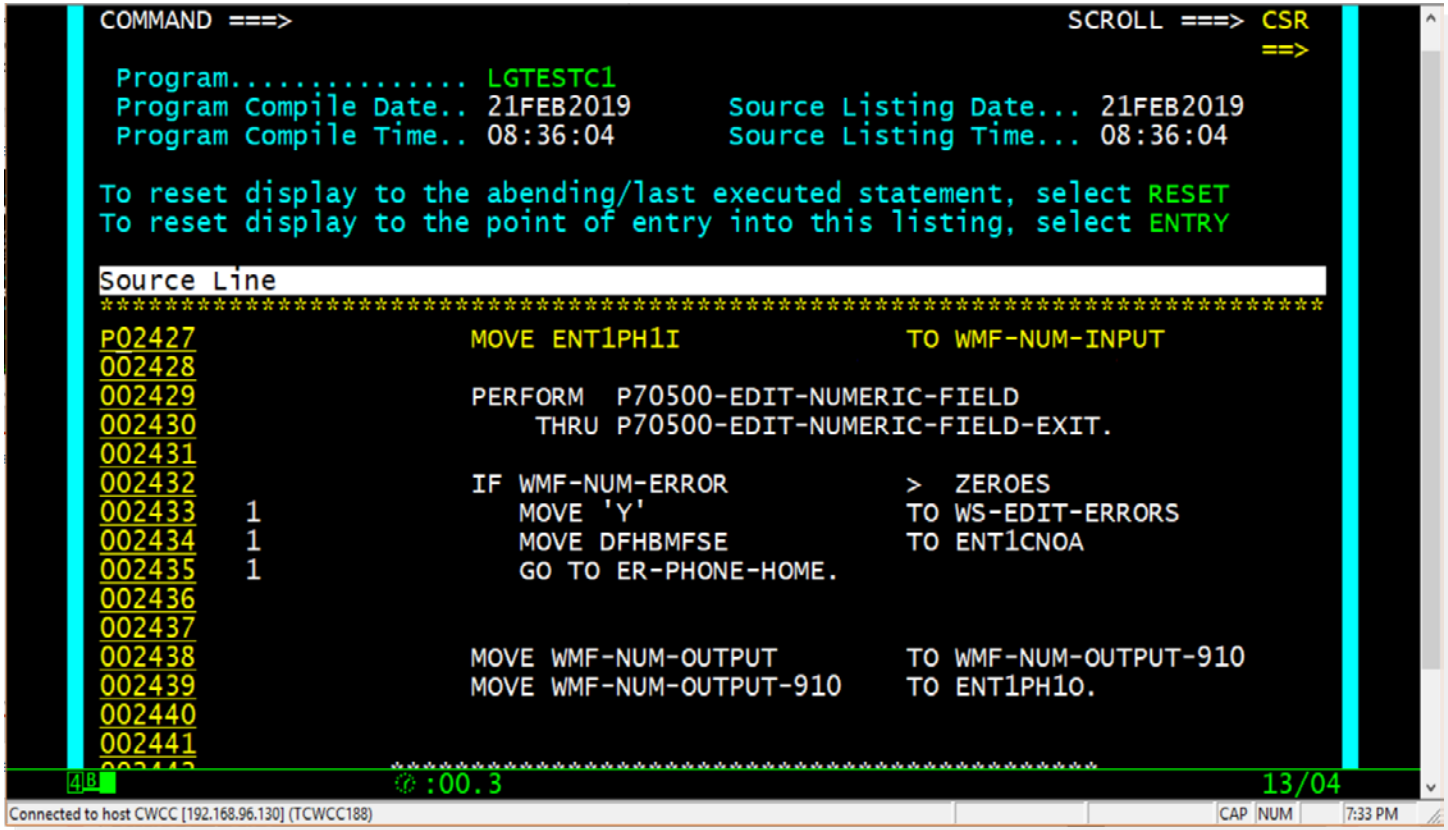

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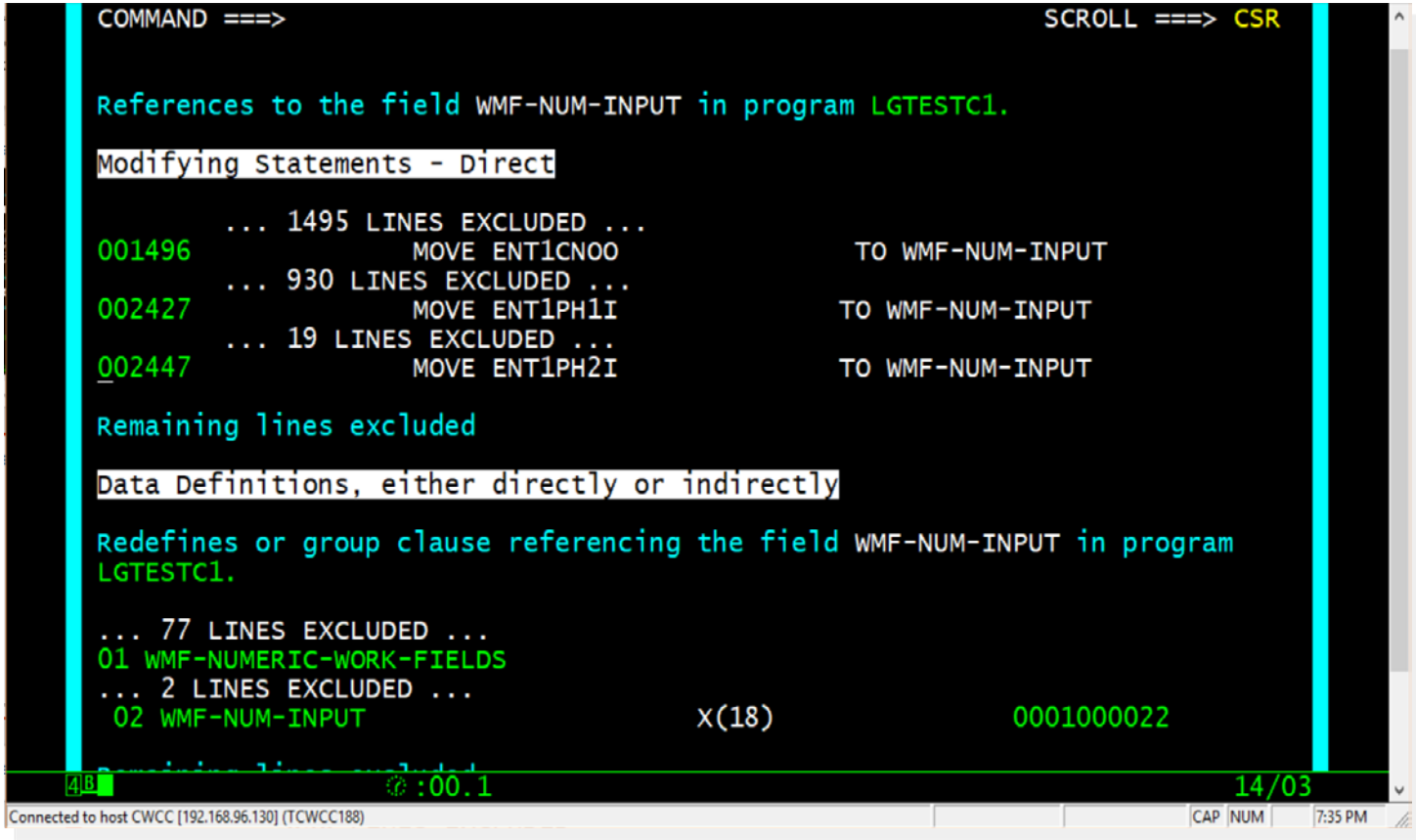

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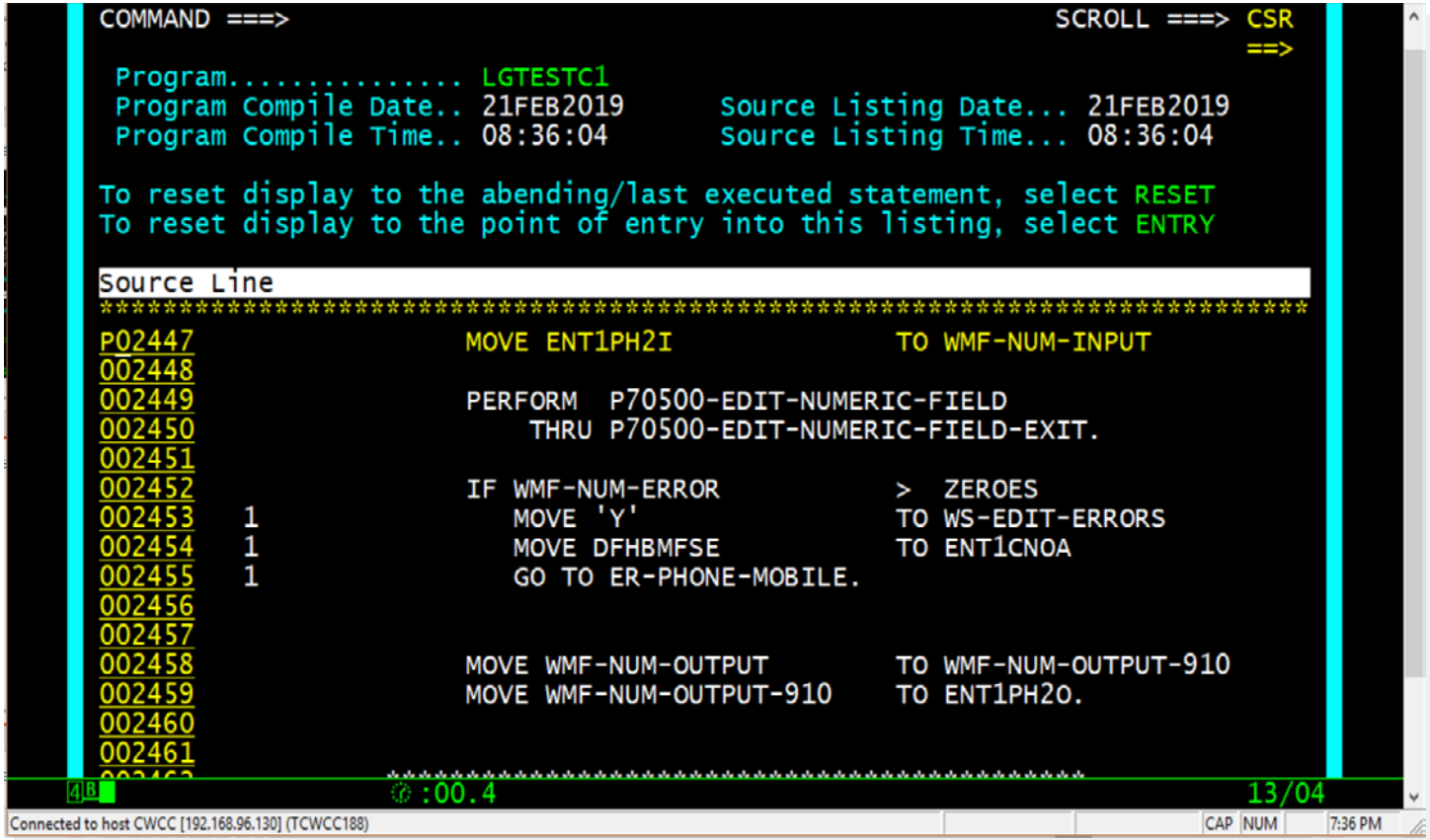

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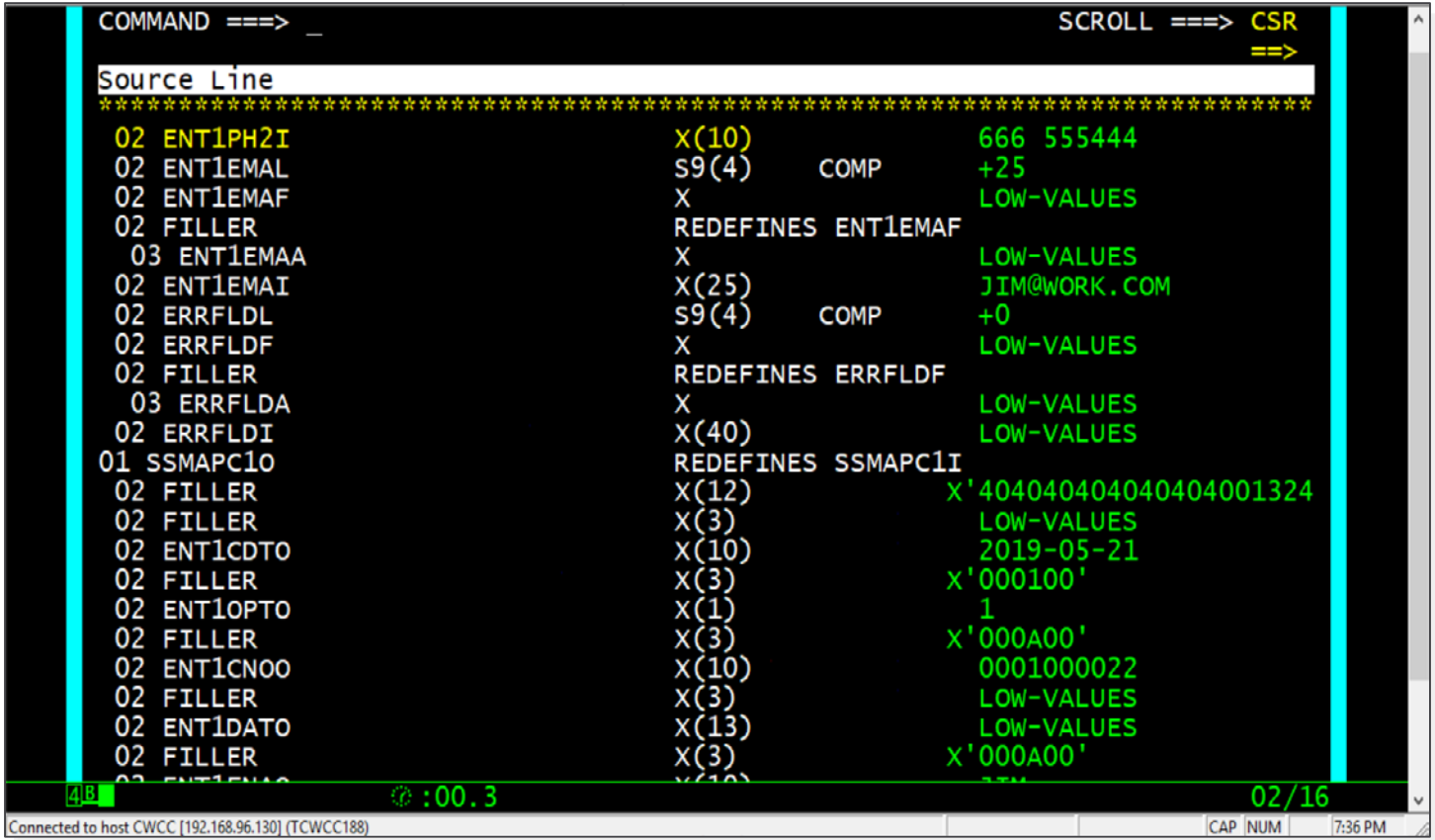
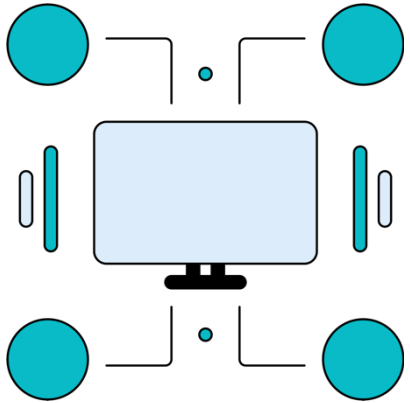


COBOL PERFORM FLOW

COBOL Perform Flow

- COBOL Perform save cells enhancement
- New COBOL Perform Flow screen shows flow through COBOL program that occurred prior to abend or flow prior to call for calling programs
- Feature is for Enterprise COBOL only
- Requires DDIO listing to have been processed with LIST and NOOPT compiler options



Perform Save Cell Support

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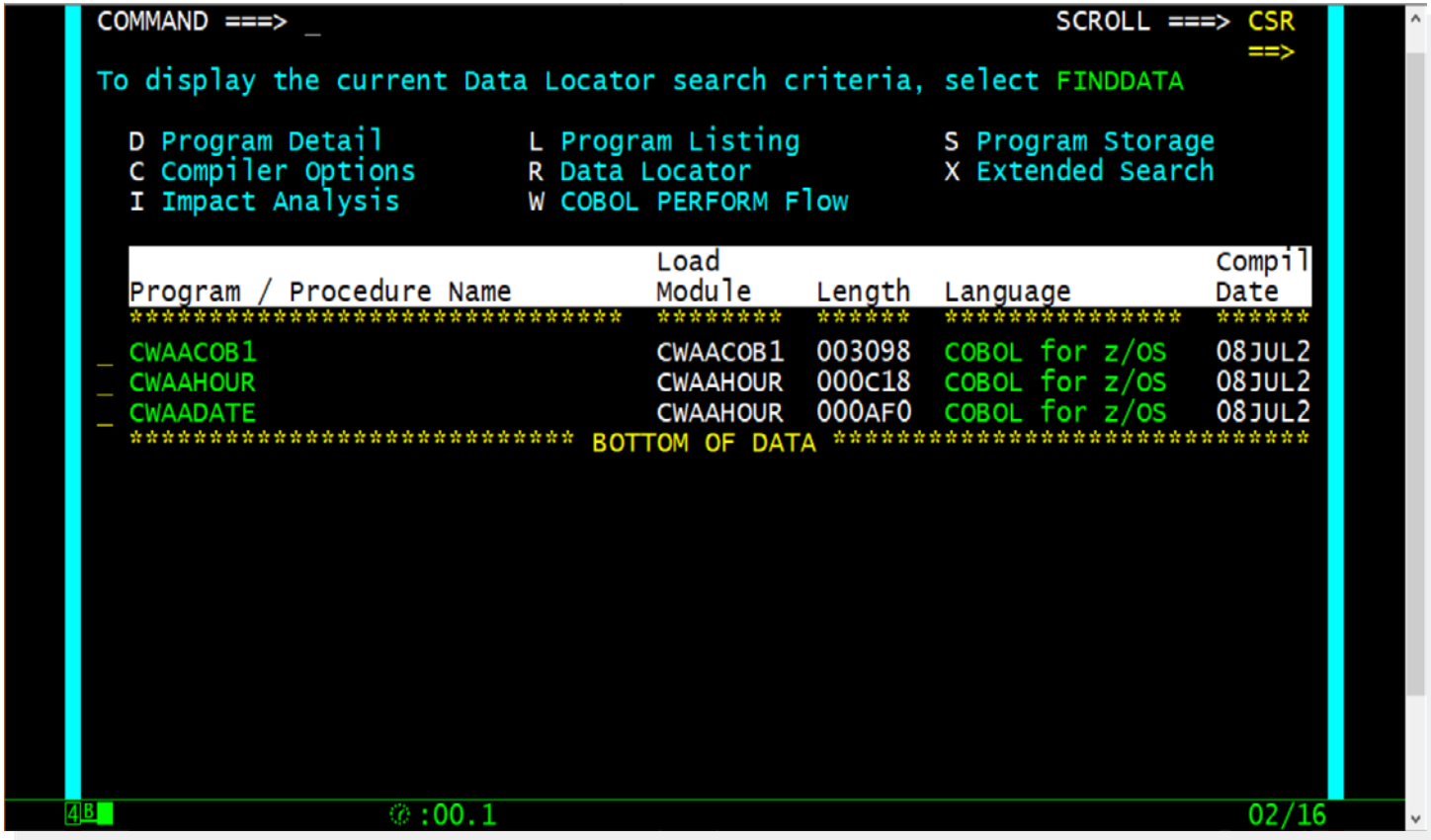

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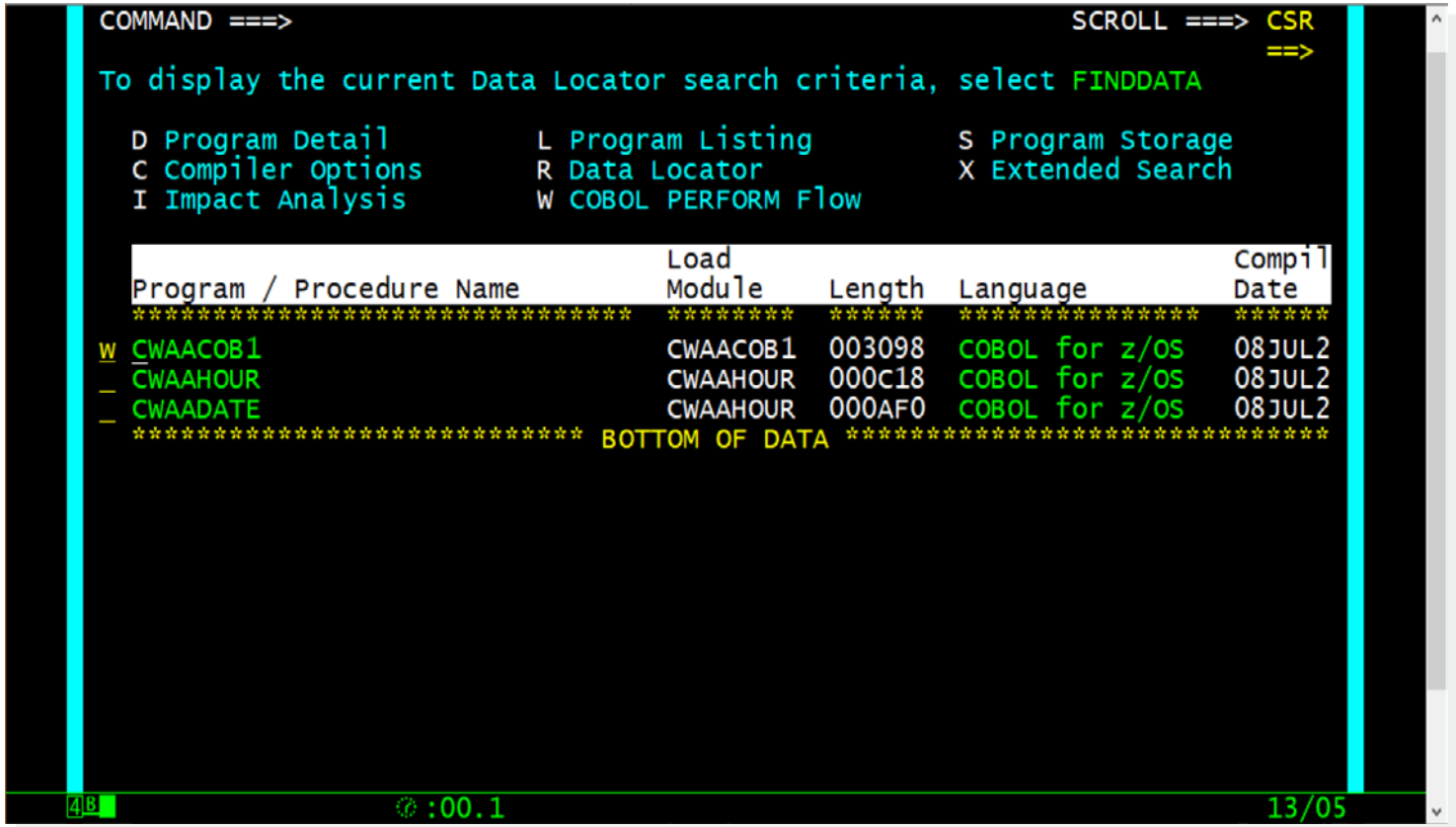

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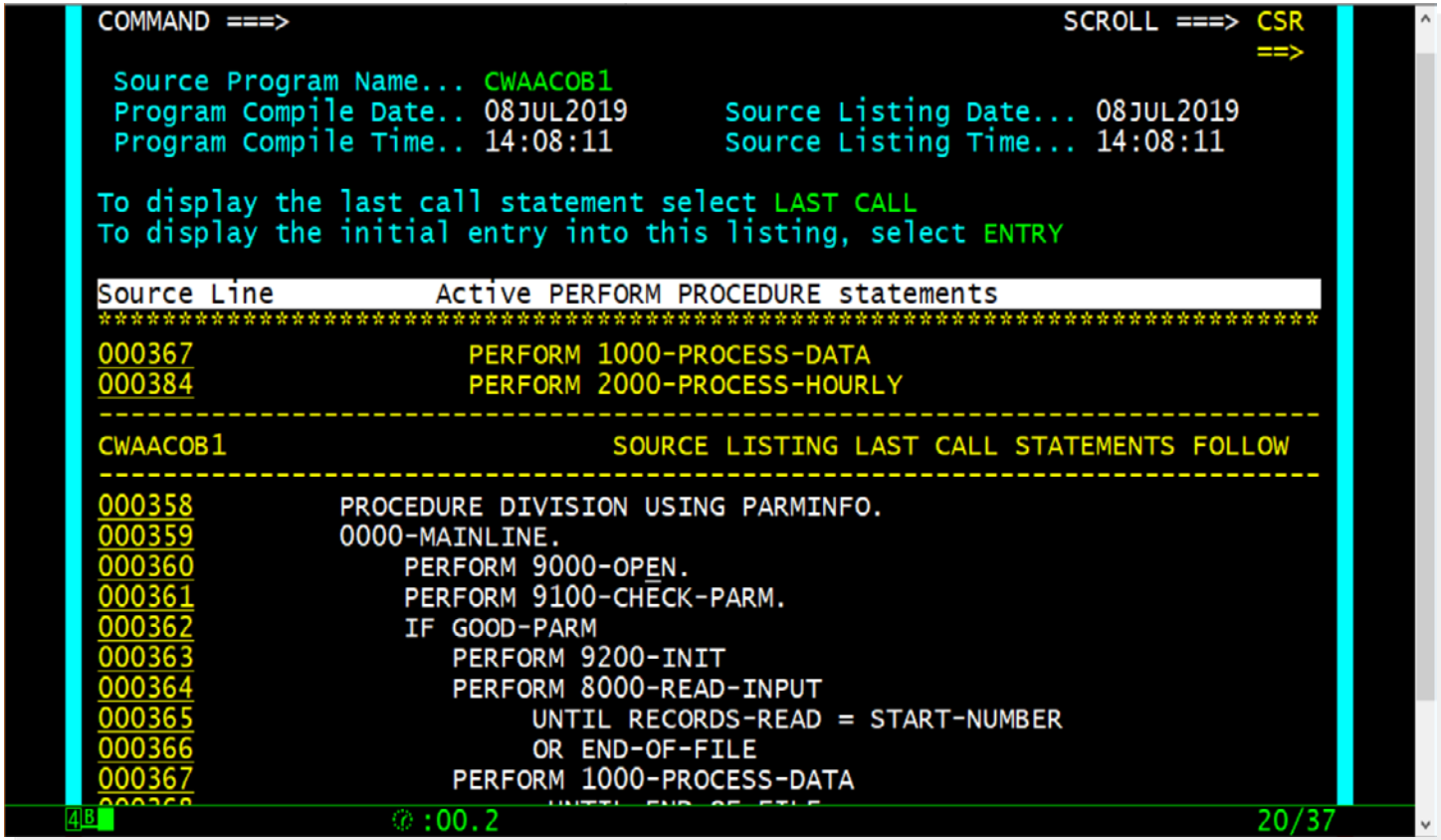

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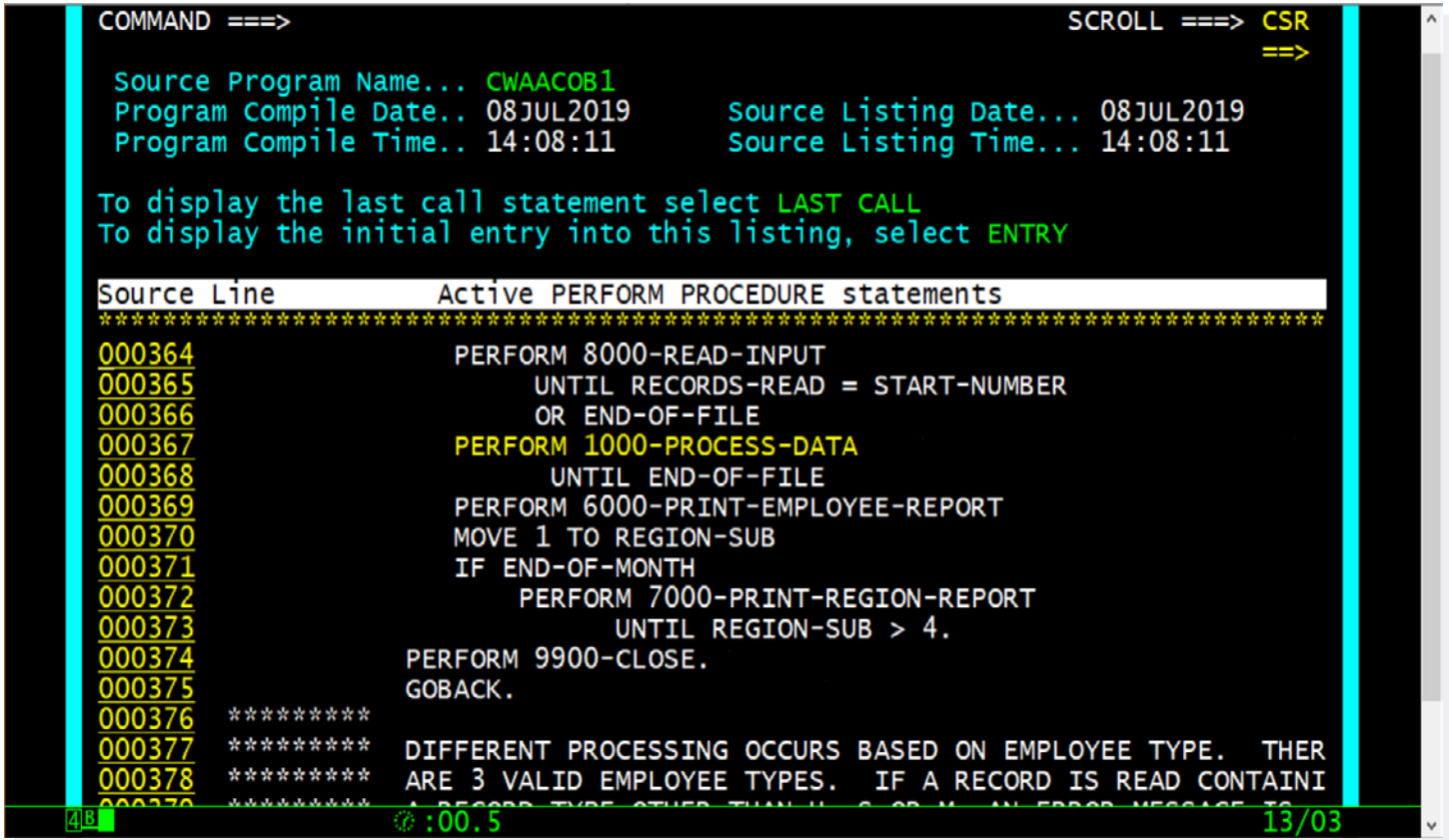

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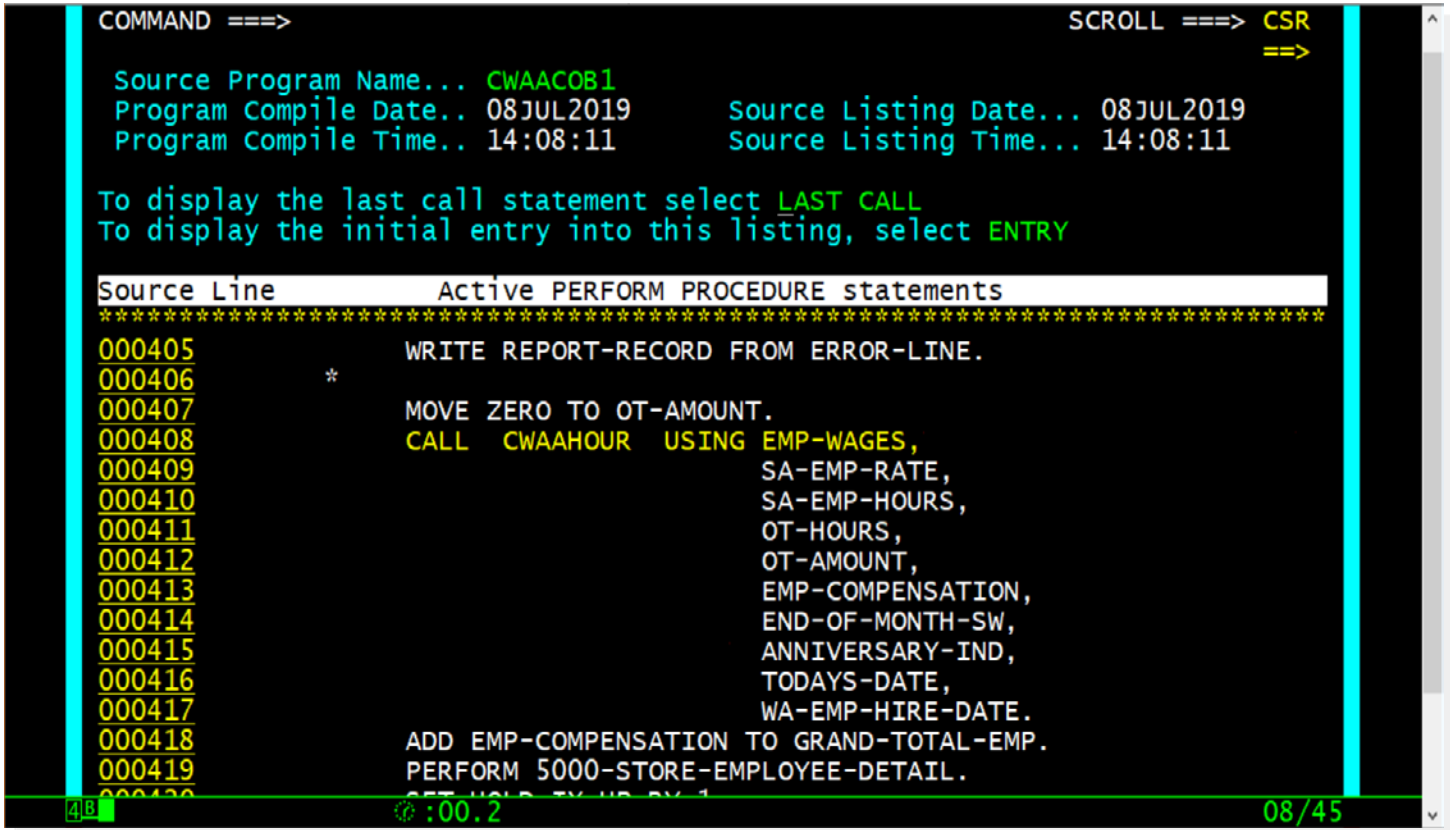

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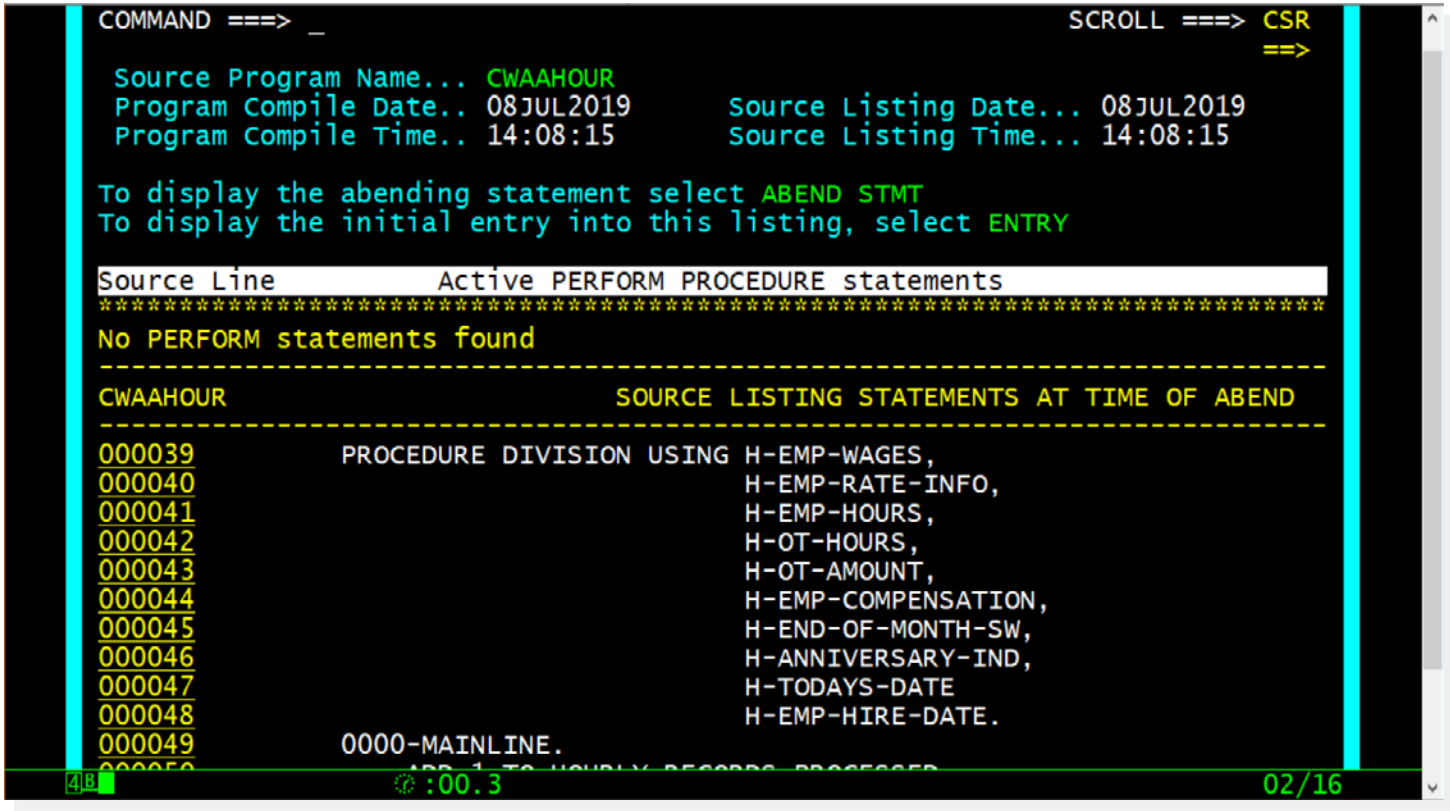

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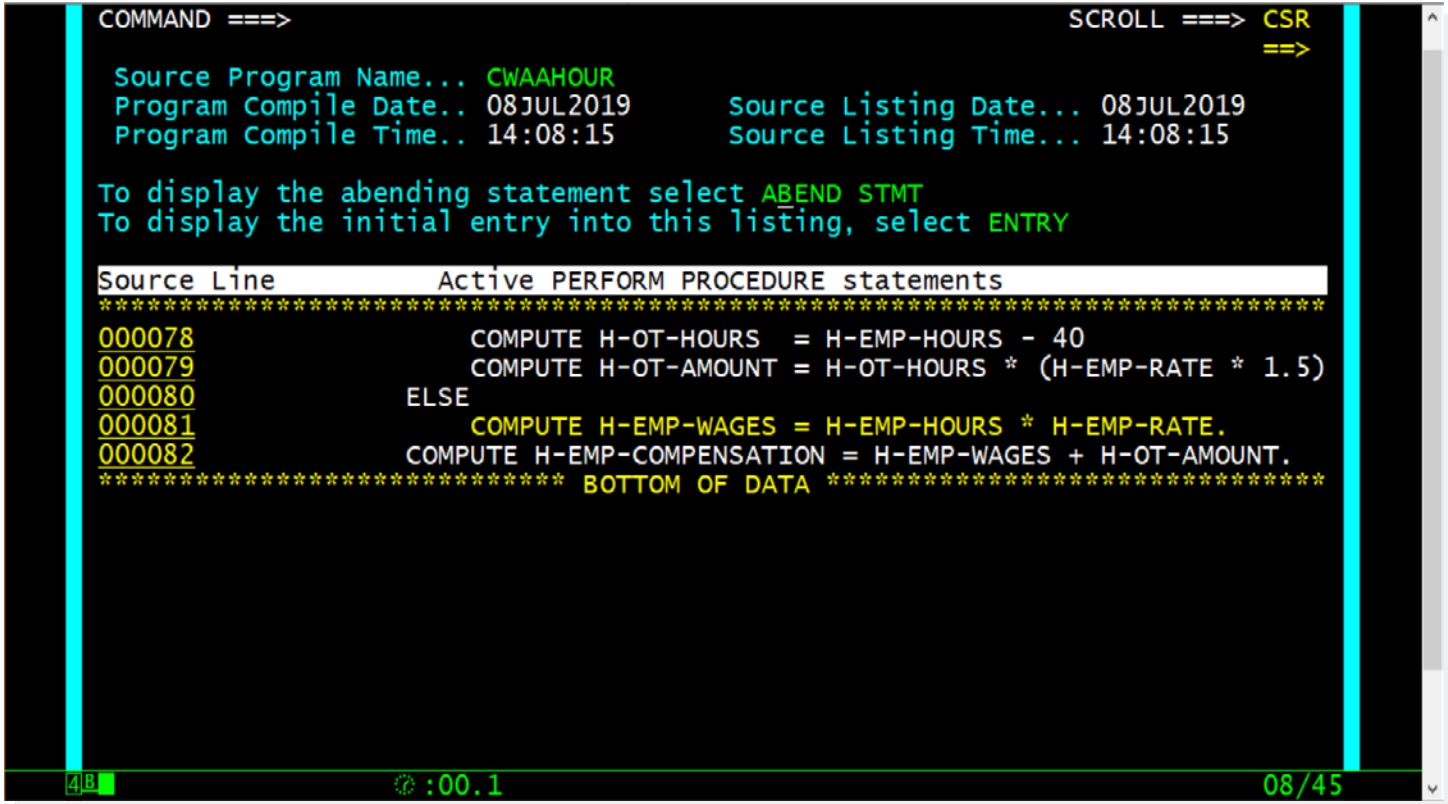
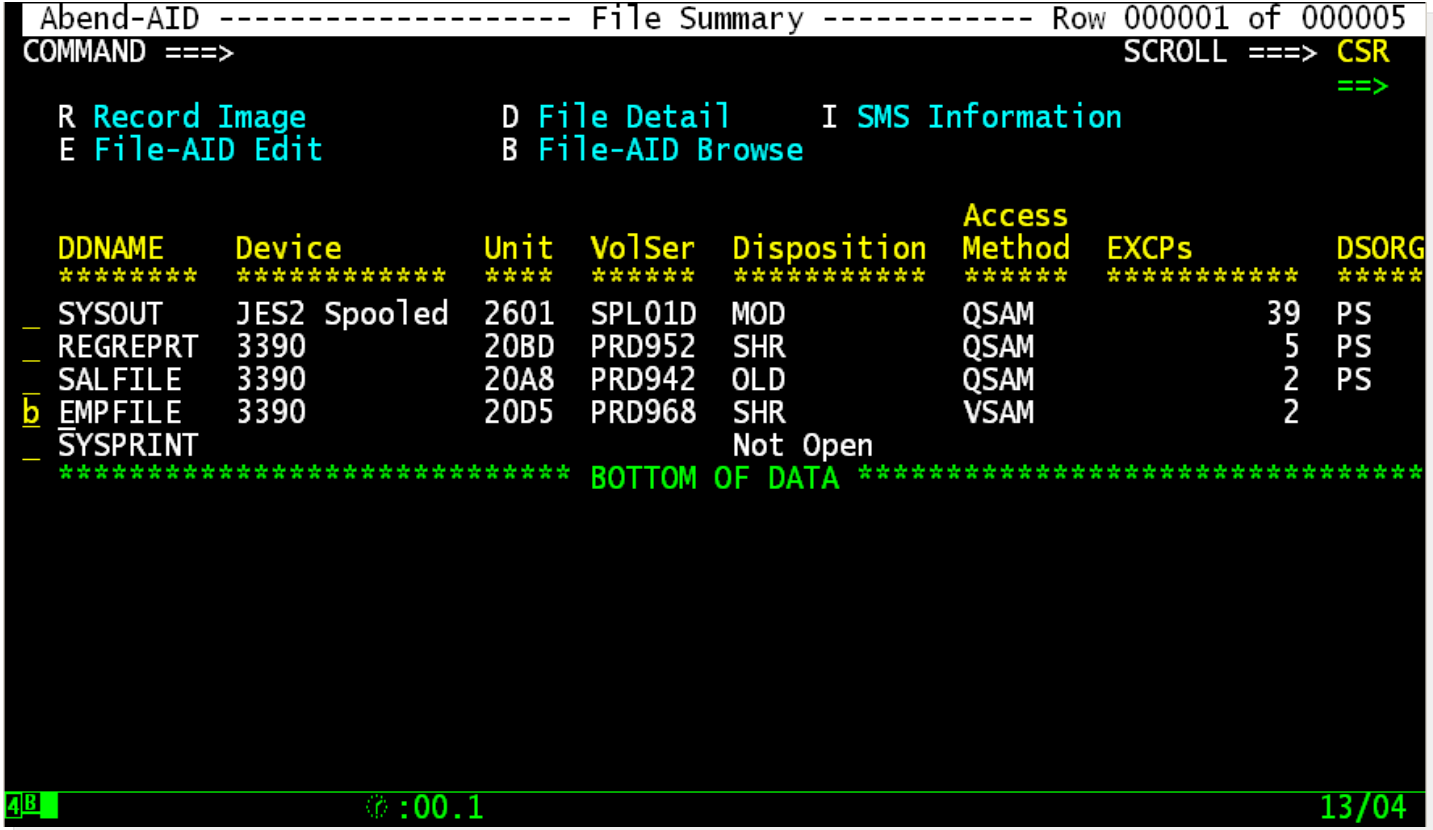


FILE-AID INTEGRATION

File-AID Integration (New)

- If users have security rights to access files used in job that abended, jump directly to File-AID from within Abend-AID
- From Abend-AID for Batch:
  - File Section: File-AID for MVS
  - Db2 Section: File-AID for DB2
  - IMS Section: File-AID for IMS

File-AID for MVS



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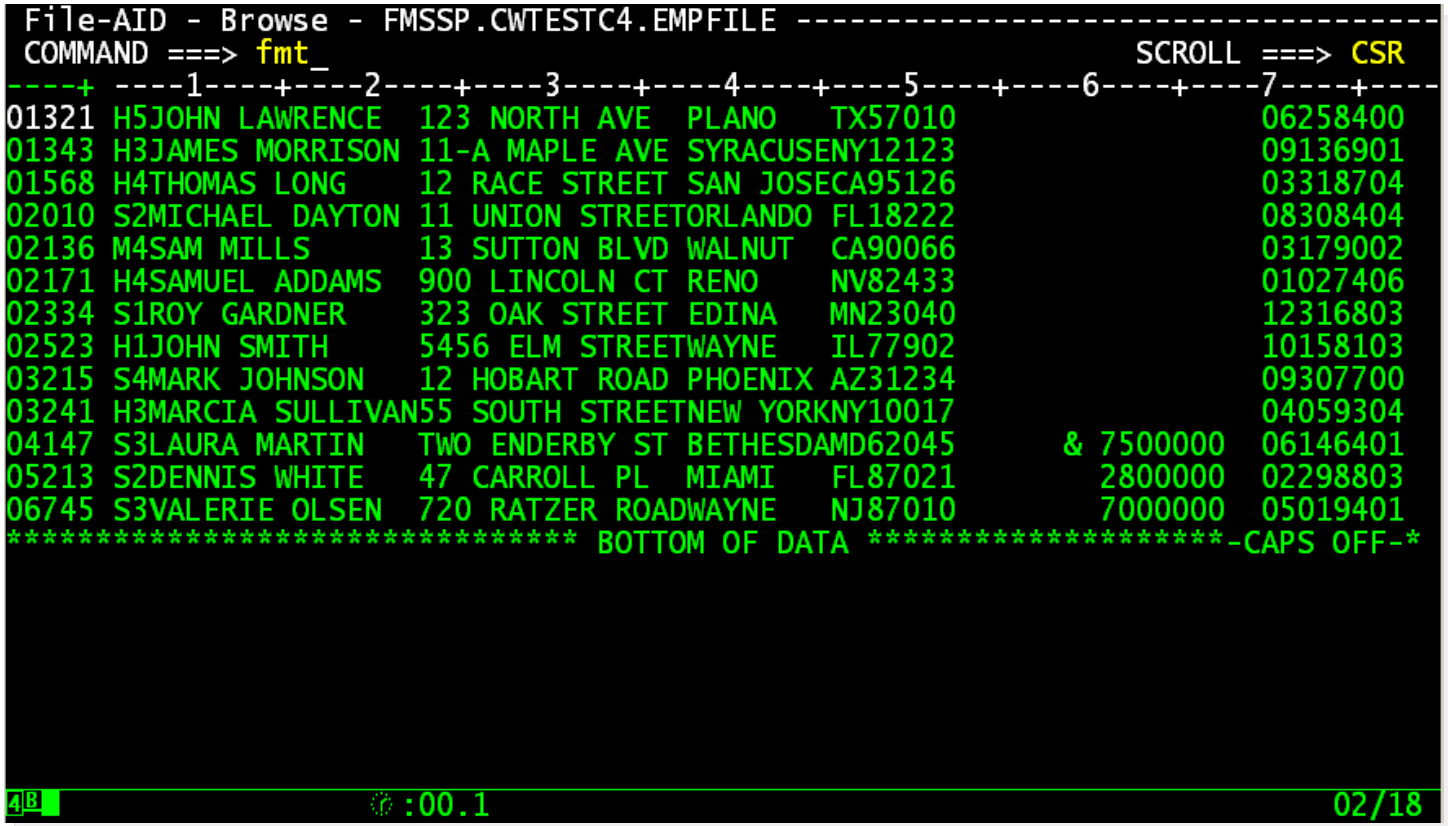

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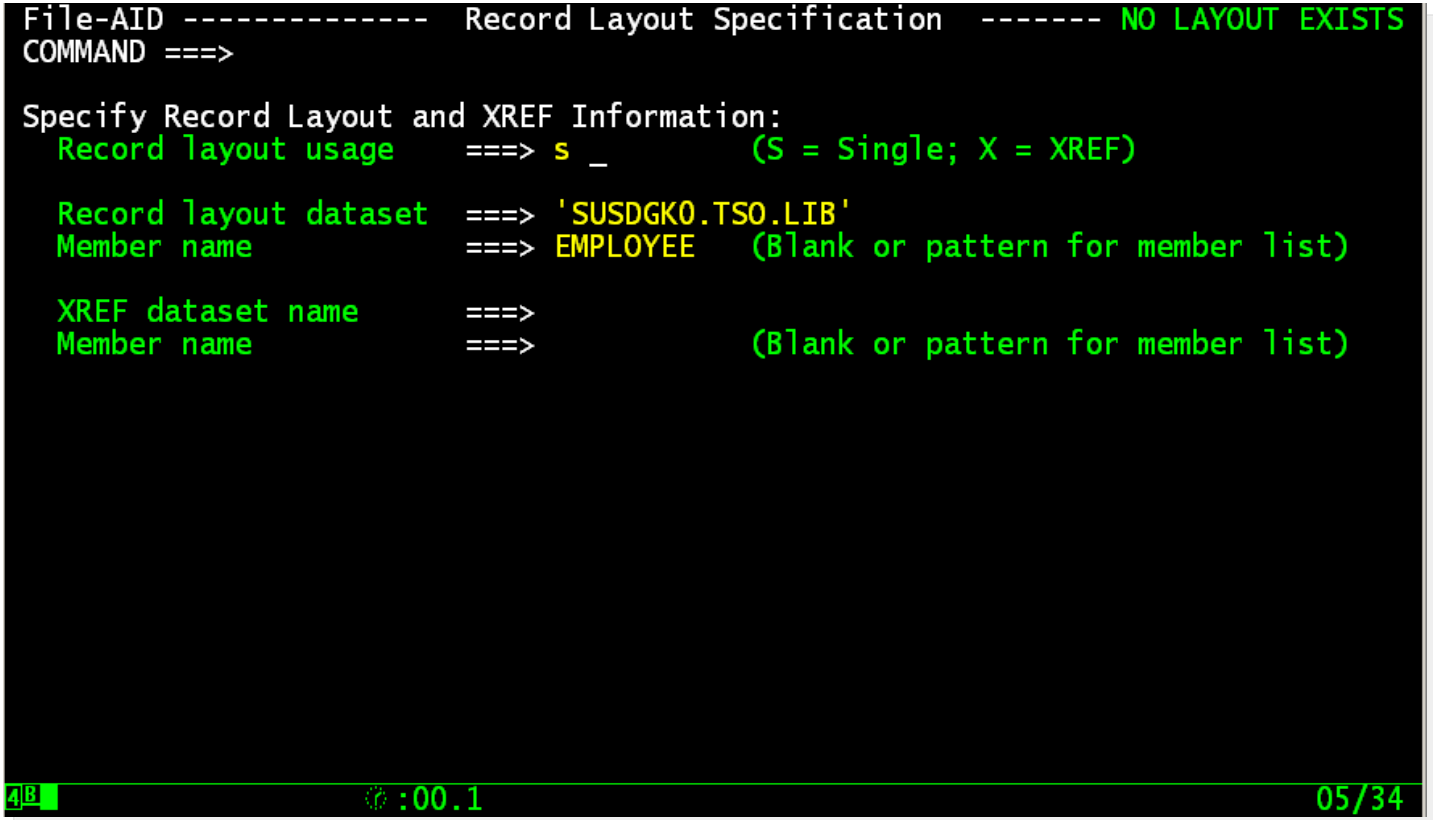

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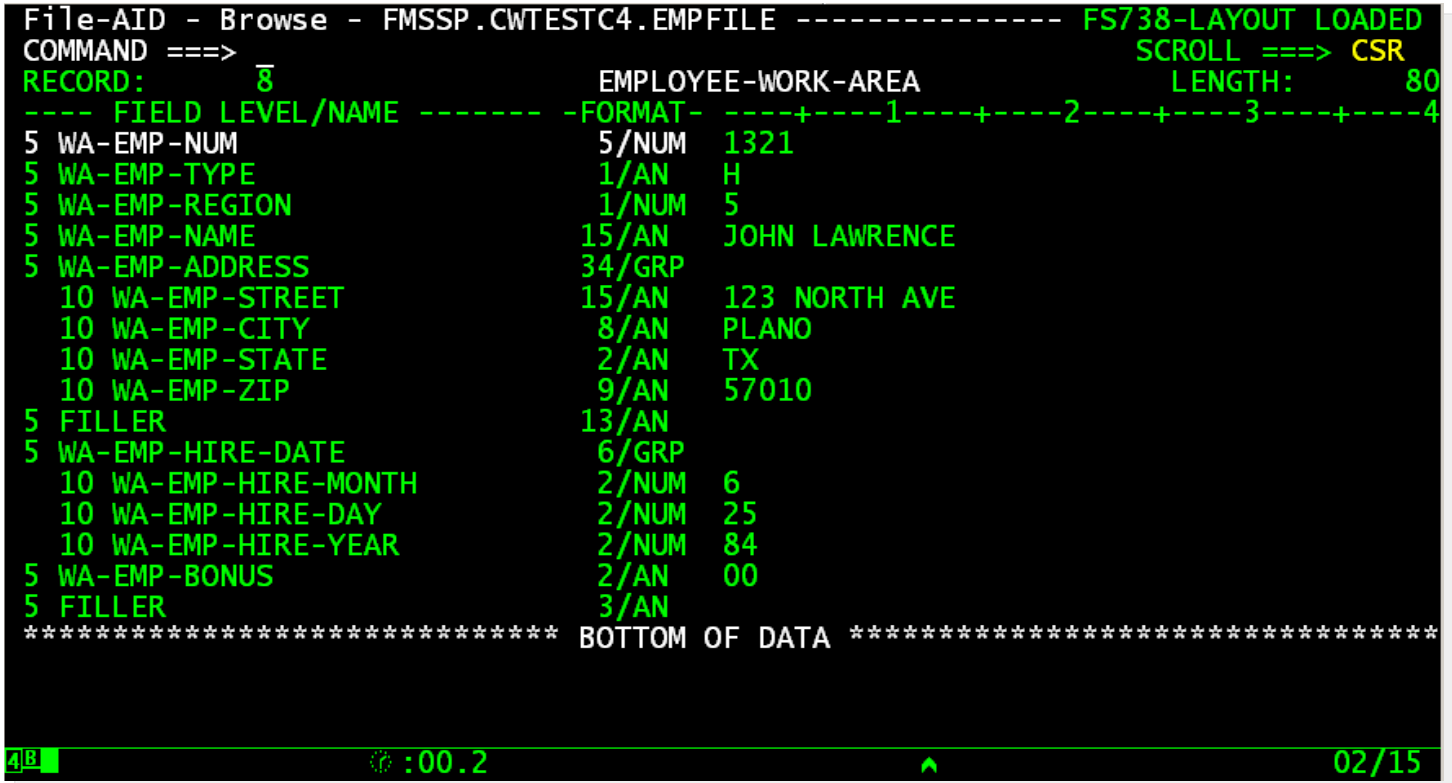
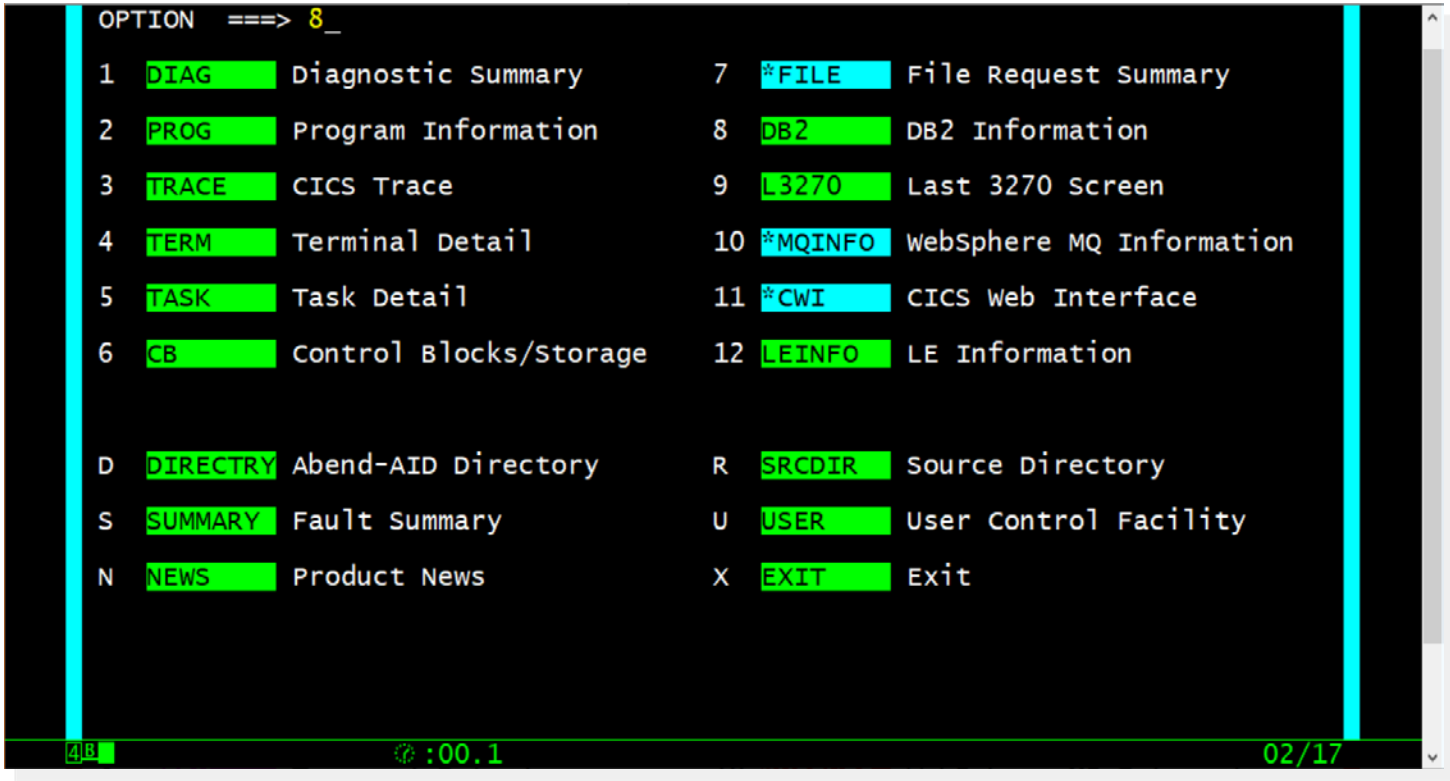


File-AID for DB2



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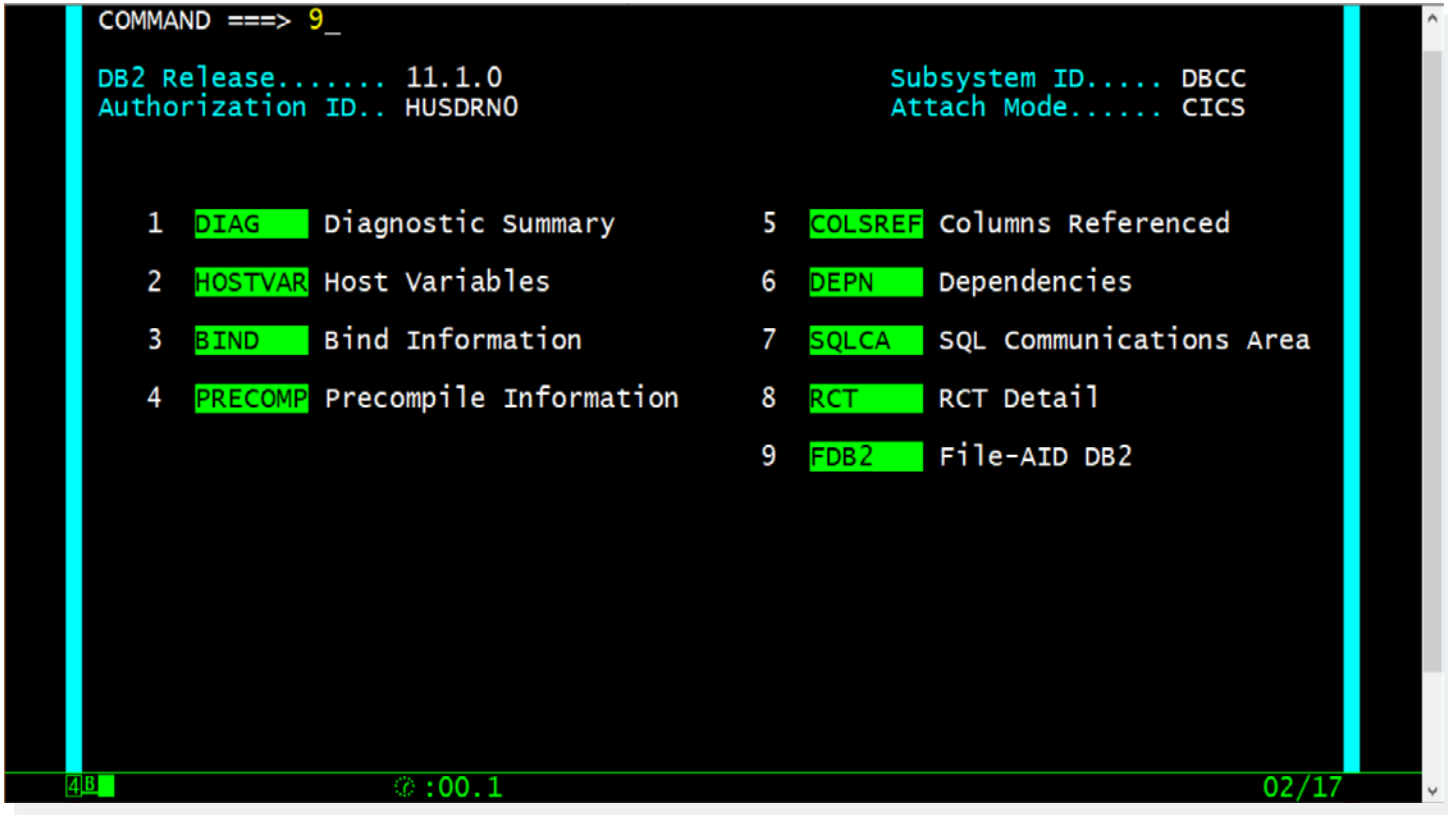

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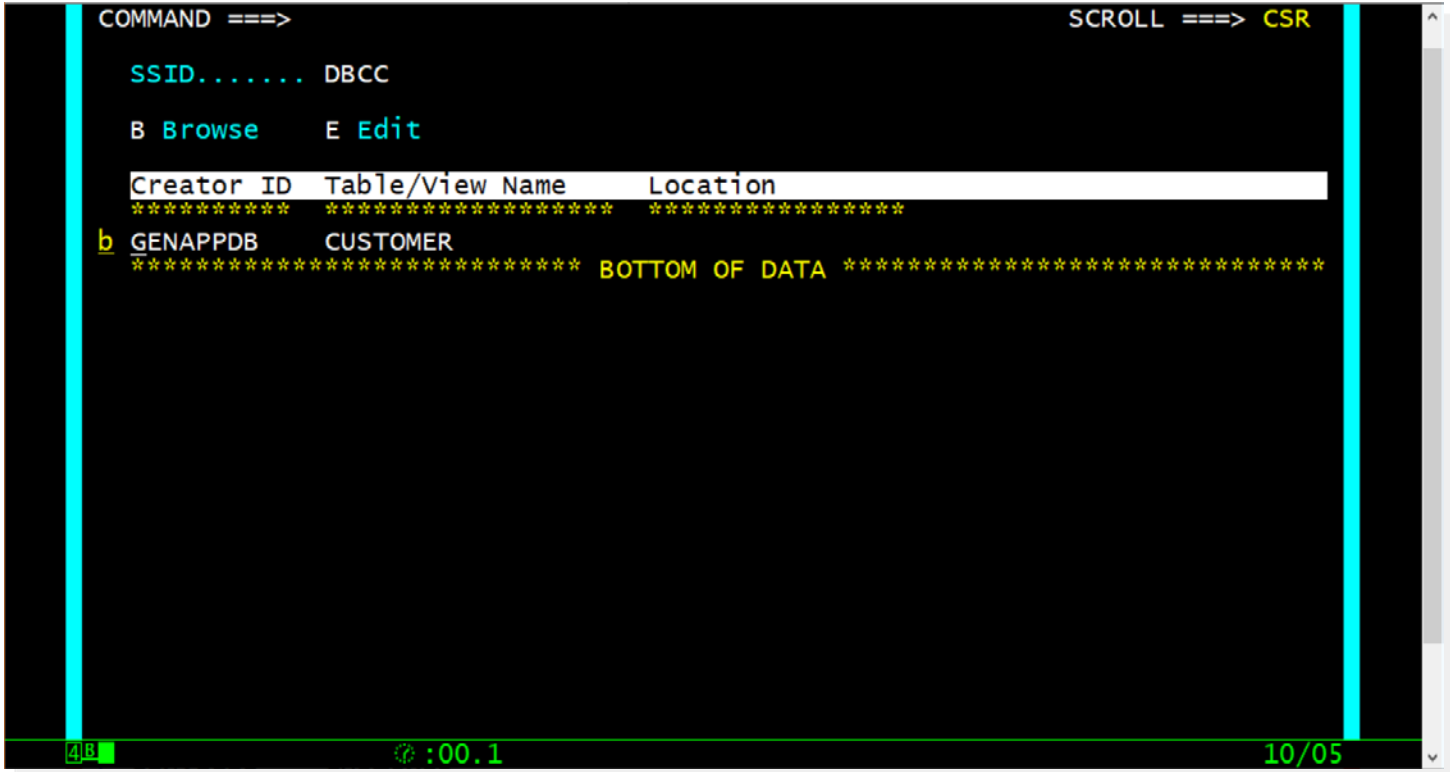

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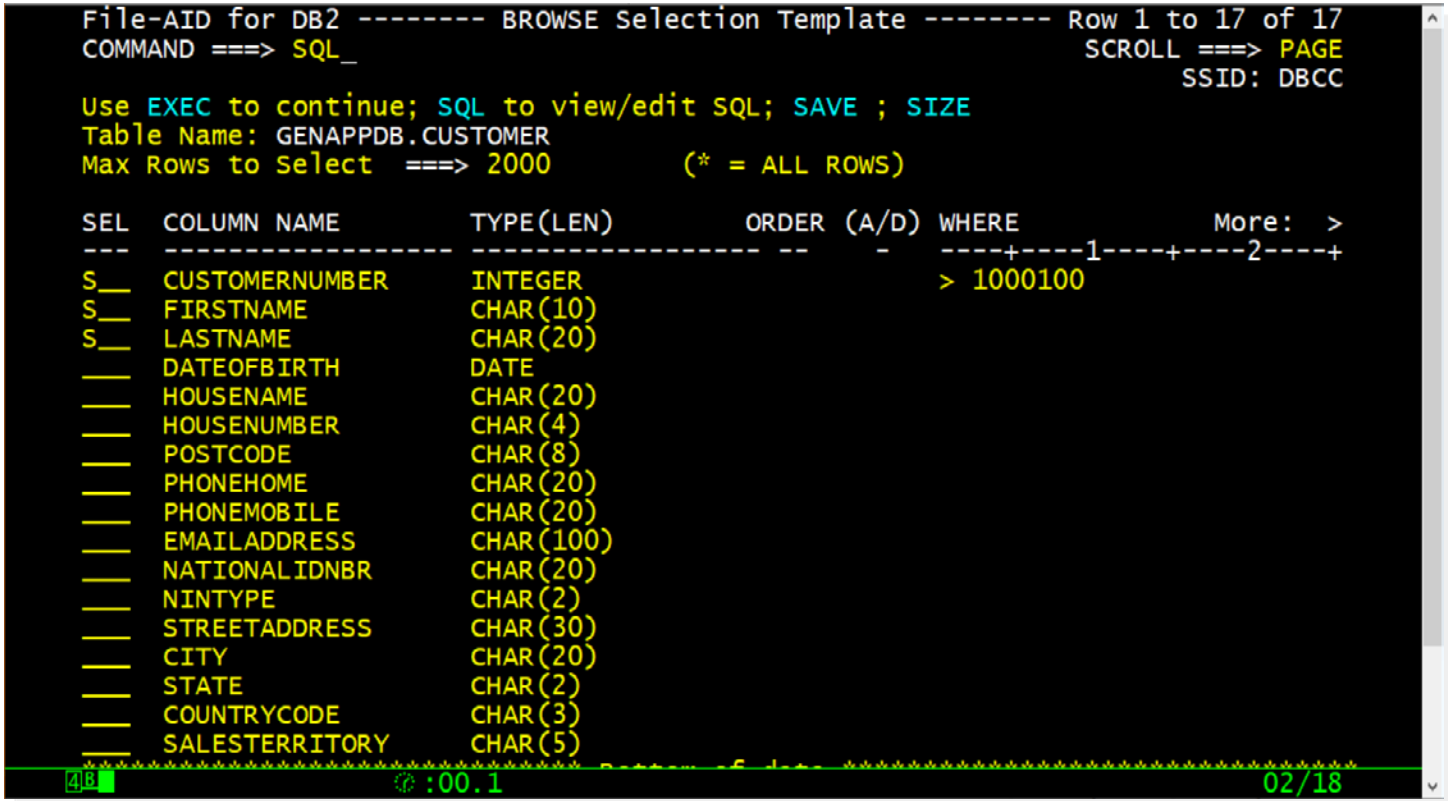

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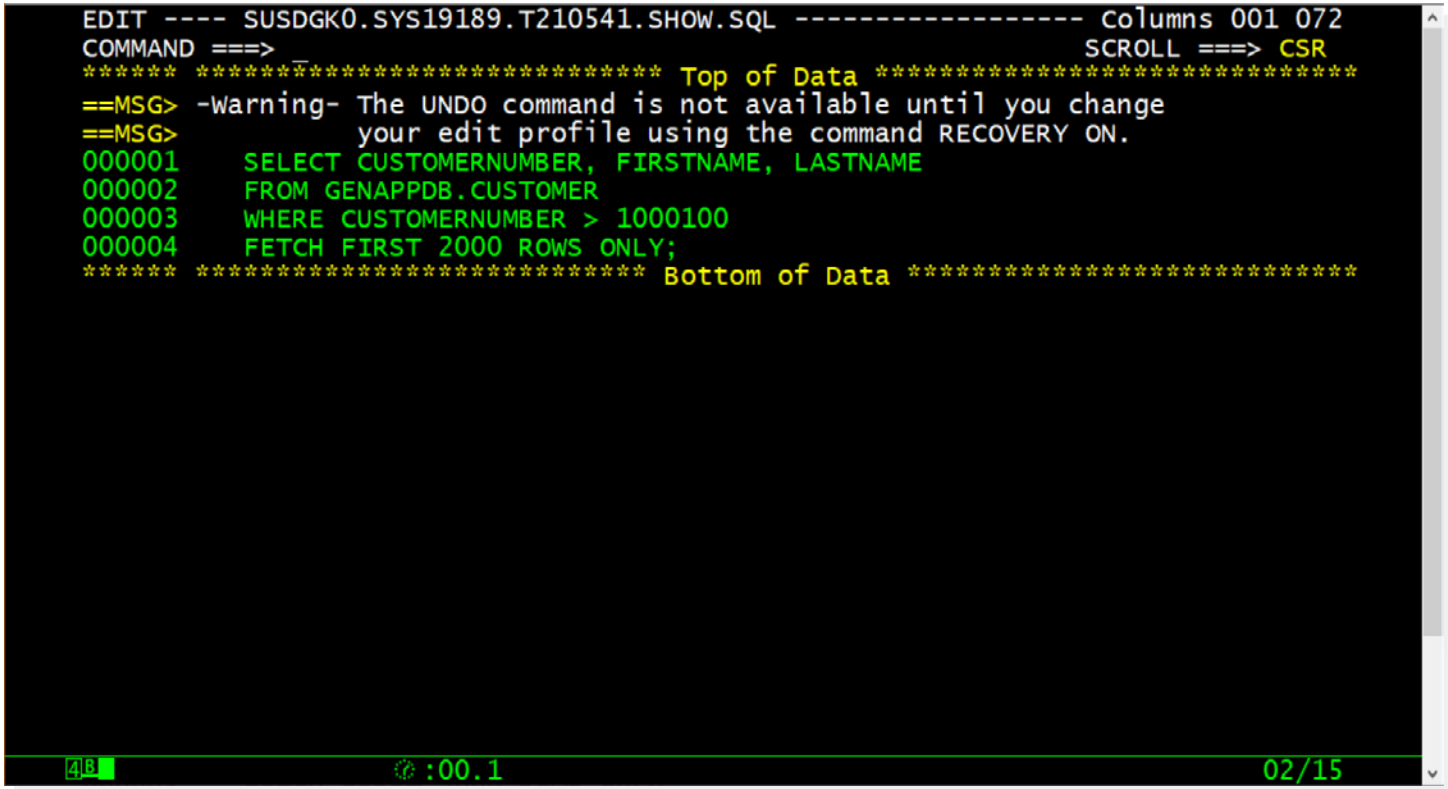

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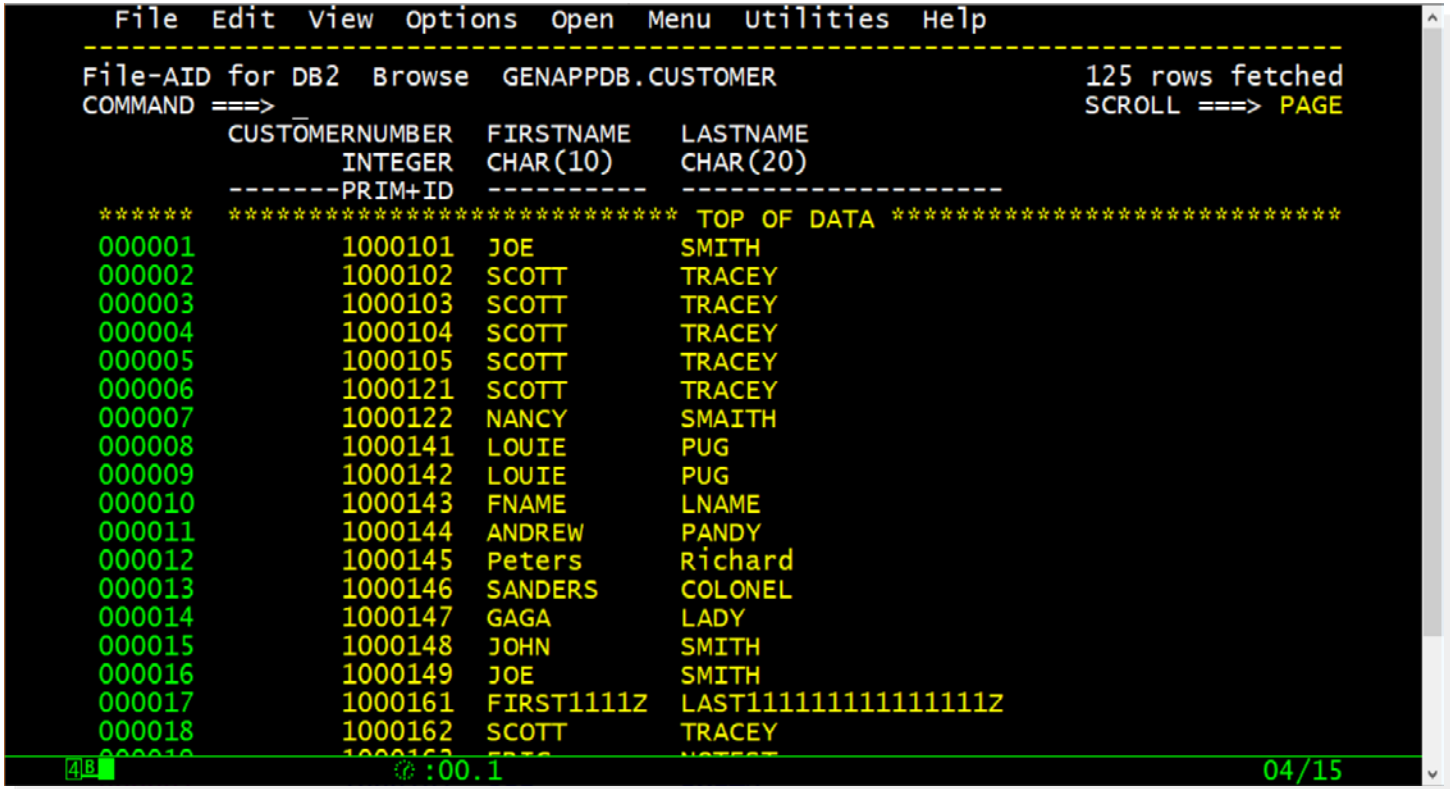

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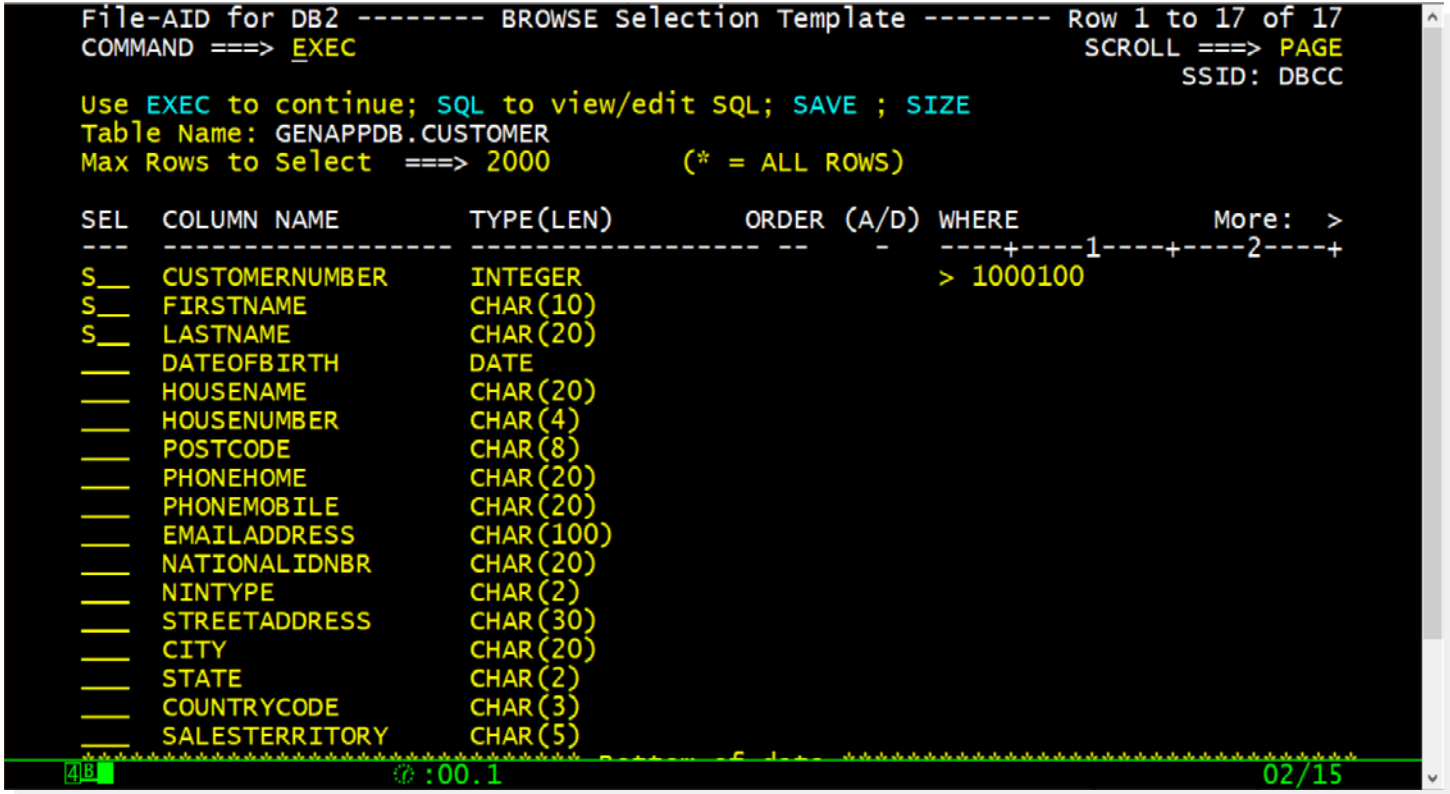

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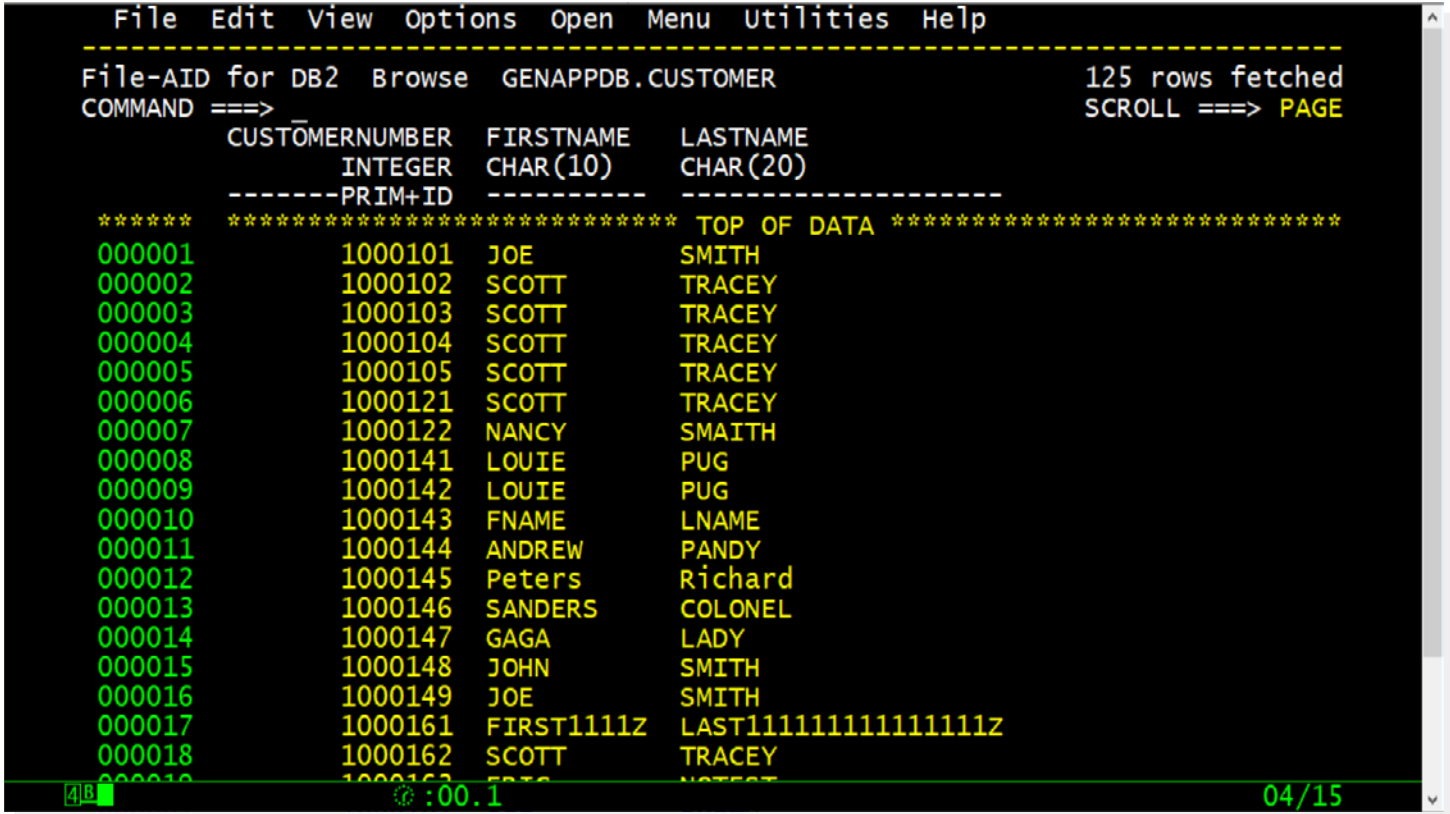
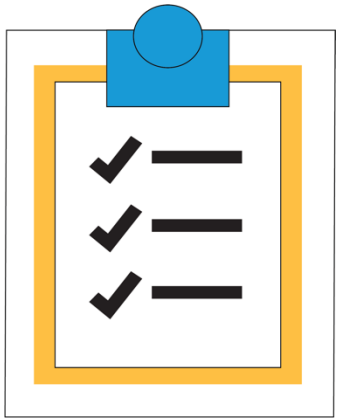


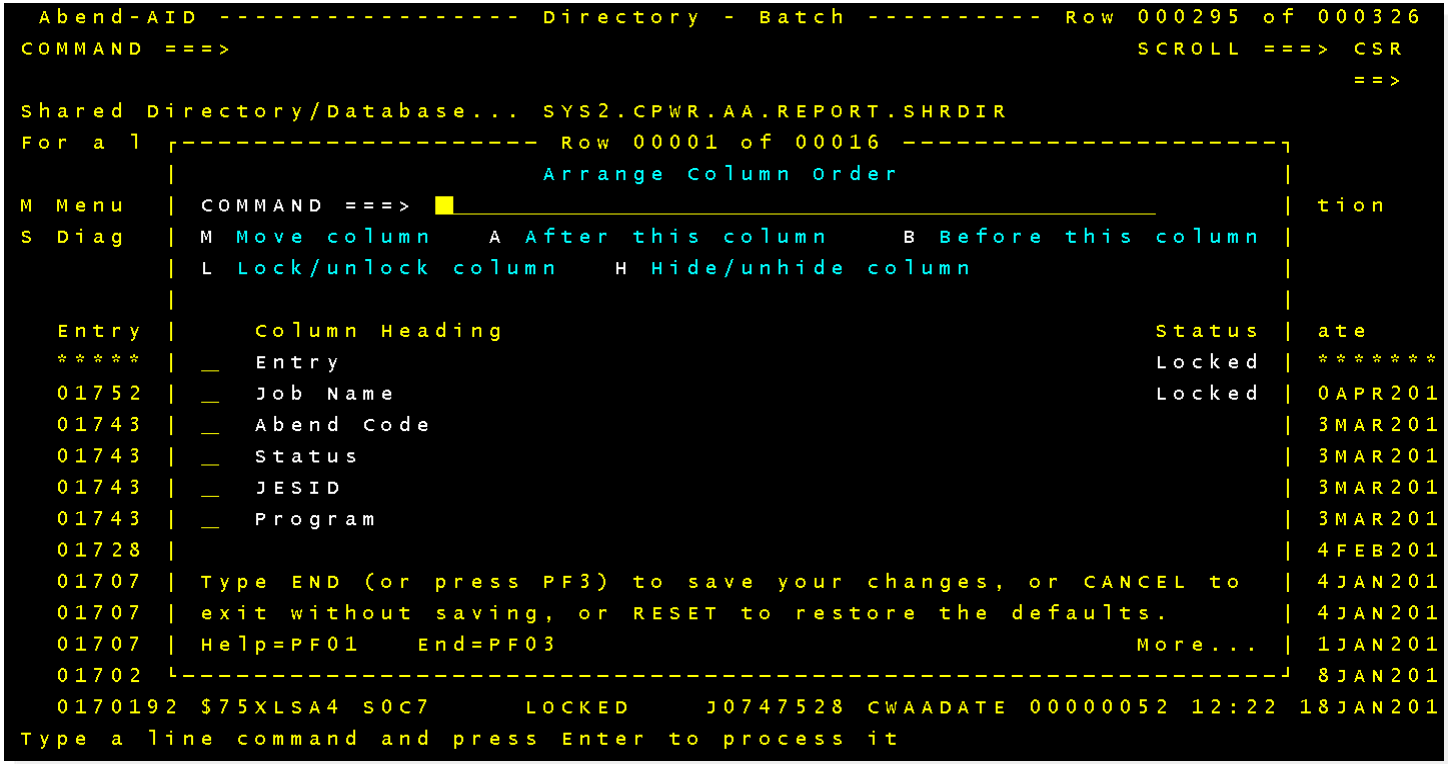
ARRANGE COMMAND IN VIEWER

ARRANGE Command

- Customize report directory to match requirements through ARRANGE command
- With this command:
  - Move columns before and after other columns
  - Lock columns to appear on every screen when scrolling
  - Hide columns from view



ARRANGE Command



USING SNAPAID

Invoking Abend-AID If Application Does Not Abend

- Some applications handle error conditions so they don't abend
  - No Abend-AID report will be generated
- Abend-AID reports can be generated in other ways
  - Batch: Xpediter through 'AA SNAP command'
  - Batch: Abend-AID through Call SNAPAID
  - CICS: EXEC CICS DUMP command outside of handle condition
  - Xpediter/CICS - =7.1 option

SNAPAID

- Used in Db2 stored procedures, WebSphere MQ and any batch application where program is not coded to abend when failing condition occurs
- Generate Abend-AID diagnostic report without terminating app
- Should be invoked prior to any ROLLBACK or COMMIT commands

SNAPAID

Copybook PRMICBL needs to be copied from Abend-AID sample library and added to your copy library

- Contact tech support
- Edit copybook and change following parameter before adding to your copy library:

```
03  DYNALC-REQ        PIC X     VALUE ‘SPACE’
```

- Change value from SPACE to ‘D’

SNAP-AID

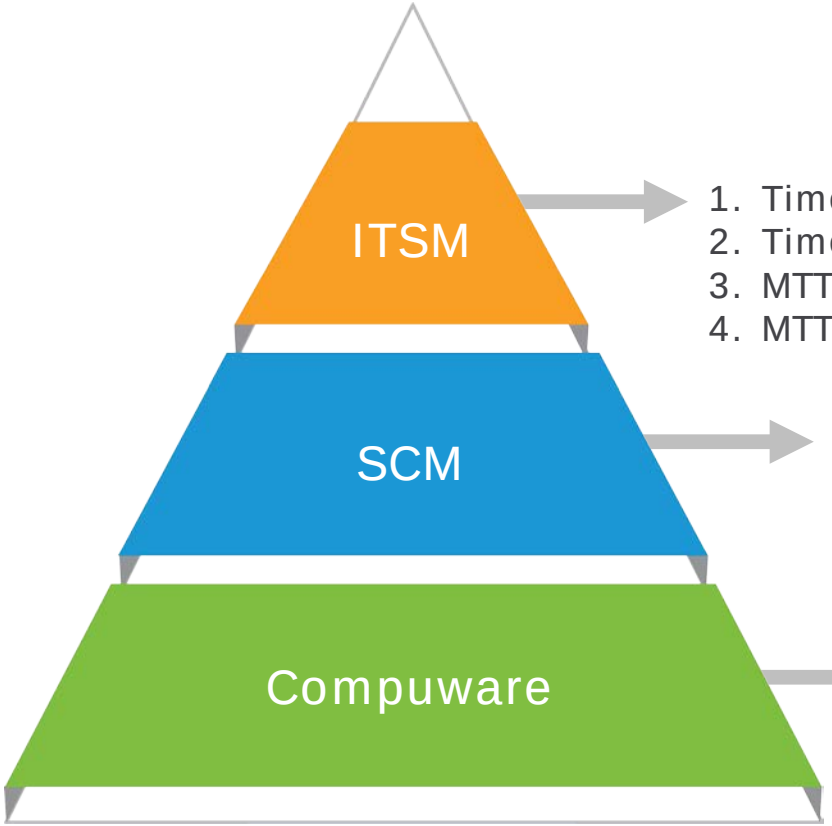
```
01  PARM-INTERFACE   COPY PRMICBL.
01   SNAPAID       PIC X(08) VALUE ‘SNAPAID’.

Insert the following code before you issue
The call to the abend routine or issue a
ROLLBACK:

    CALL SNAPAID USING PARM-INTERFACE
        ON OVERFLOW
            CONTINUE
        END-CALL.
```

zADVISER

Compuware zAdviser



1. Time Spent on Innovation
2. Time Spent on Bugs
3. MTTR
4. MTTD

1. Unique Containers Deployed
2. Unique Elements Deployed
3. Mean Time From Checkout to PTFs
4. Rate of Rollbacks or Fallbacks

- **Abend-AID**
  - Abends by LPAR
  - Abend Codes
  - JOB Name/Step/Load Mod/CSECT
  - Abends Trapped vs. Escaped

Data Sources

Compuware zAdviser

KPIs originate from:

Source Control Management (SCM)

Compuware ISPW

CA Endevor®

MICRO FOCUS ChangeMan ZMF

IT Service Management (ITSM)

Project/Problem Management Tool

Jira Software

servicenow

ca technologies | RALLY

IBM Rational. software

Compuware Product Usage

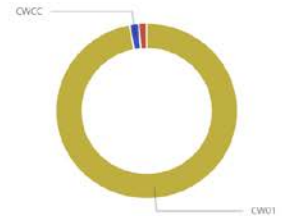
Compuware Abend-AID®

Compuware Xpediter® CODE COVERAGE

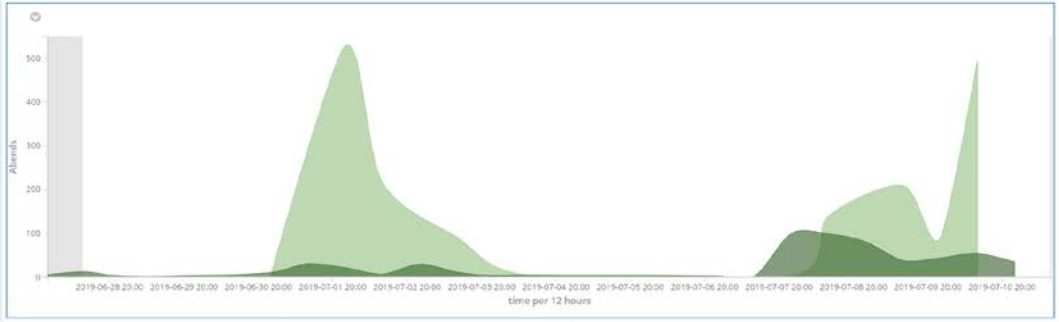
Compuware Topaz®

Compuware zAdviser

Abends by LPAR

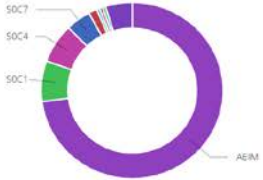


Trend of Abends

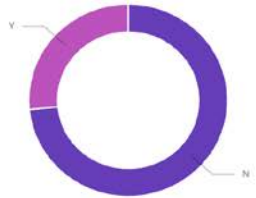


Abends by Type

Abend Codes



Viewer Source Support



Abends

Sysplex	LPAR	Job	Step	CICS Tran	Load Module	CSECT	Abend	Count
PRODPLEX	CW01	XXXXXX0X	GO	Batch Abend	ONION	ONION	SOC1	88
PRODPLEX	CW01	XXXXXX0X	GO	Batch Abend	ONION	ONION	SOC7	50
PRODPLEX	CW01	XXXXXX0X	GO	Batch Abend	ONION	PTABLER	SOC4	38
PRODPLEX	CW01	H01AC031	FXTDCAS	F039	FM000039	FM000039	AEIM	28

Abend-AID Top Users

User	Usage Count
FFHAJM0	1,741
AA01VS01	438
PFHAMJ0	91
PMJJJ1	88

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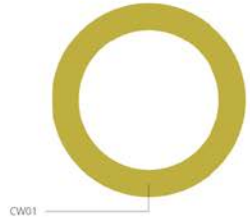
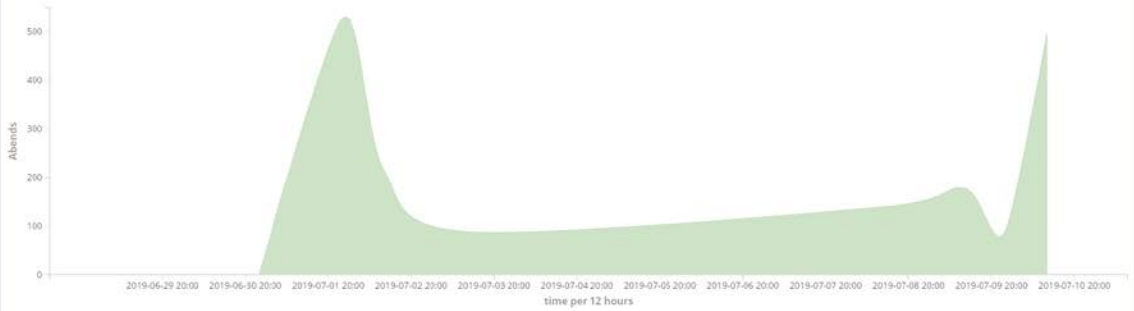
Abends by LPAR



Trend of Abends



Abends by Type

Abend Codes

Viewer Source Support

No results found

Abends

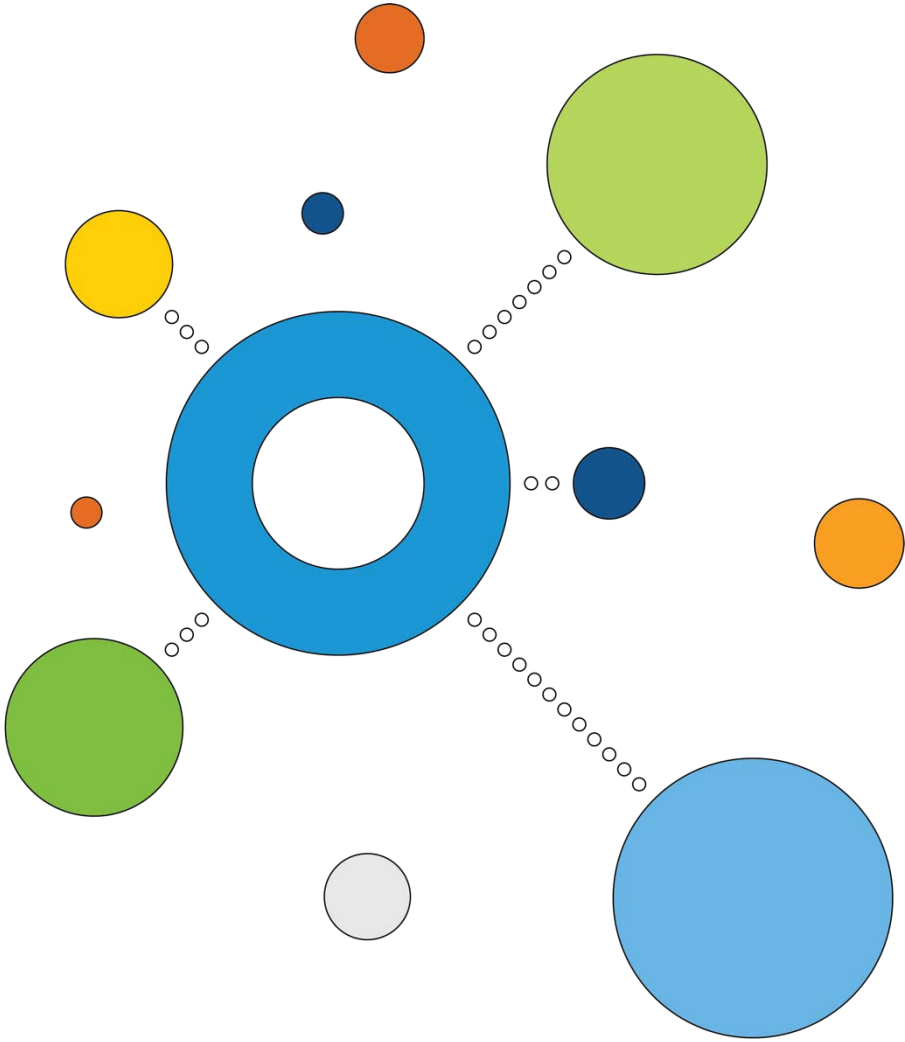
Sysplex	LPAR	Job	Step	CICS Tran	Load Module	CSECT	Abend	Count
PRODPLEX	CW01	H01AC031	FXTDCAS	F039	FM000039	FM000039	AEIM	28

Abend-AID Top Users

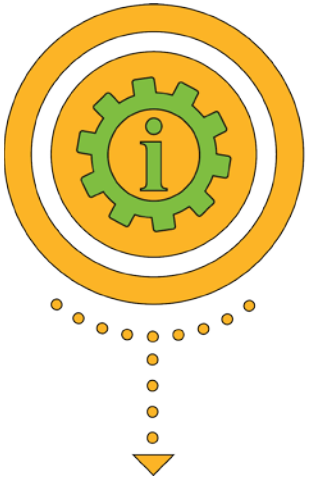
User	Usage Count
FFHAJM0	1,737

Recap

- Root Cause Analysis
- Extended Search
- Perform Flow
- Seamless Integration Between Abend-AID and File-AID
- Using SNAP-AID



Questions and Next Steps



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