

z/TPF EE V1.1

z/TPFDF V1.1

TPF Toolkit for WebSphere® Studio V3

TPF Operations Server V1.2



IBM Software Group

## *TPF Users Group Spring 2007*

z/TPF Recoup Enhancements – Recoup Phase 1  
Chain Chase Processing

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Venue: Operations Subcommittee

**AIM Enterprise Platform Software**

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# *Introduction*

- Changes to both the front end and back end of Recoup
  - z/TPF Recoup Enhancement Project
    - Modifications to processes and procedures for Phase 1 Recoup
  - z/TPF Recoup Deferred Lost Project
    - Modifications to processes and procedures for Phase 3+ Recoup
- This presentation provides insight to Phase 1 changes
  - Response to requirements identified by customers
  - Includes requirements identified internally by the TPF Lab

## *Topics of Discussion*

- Why was Phase 1 processing changed ?
- What was changed ?
- What is the impact to the customer ?
- Examples
- Questions

## *Why was Phase 1 processing changed ?*

- Improve customer flexibility and usability
- Provide consistent view of Recoup processing
- Reduce DEFRC activity on the main I-stream
- Enhance presentation of information about chain chases
- Eliminate duplicate functions and tables

## *What was changed ?*

- Consolidation of Recoup scheduling function
- Integration of chain chase activation, control, and tracking
- Enhancement of Recoup selective chain chase options
- Consistent presentation of Recoup status displays
- New and changed Commands
- C-Function Calls, Macros and C-headers

## *Consolidation of Recoup scheduling function*

- Combine Scheduling Control Tables
  - z/TPF Recoup Schedule Control Table (IRSCT) expanded
    - Built each time ZRECP SETUP or ZRECP START entered
    - Extracts information about all data structures on z/TPF
      - z/TPF descriptors, z/TPFDF DBDEFs, z/TPFCS Data Stores
    - Table Items created for each root Record ID/Version or Data Store Name
      - Data Structure type (z/TPF, z/TPFCS, z/TPFDF)
      - Record Type (#RECTYP)
      - Descriptor or DBDEF container program name and location
    - Indicators set in each item to show status and characteristics
      - Chase (Y/N), Status (ToDo, InProgress, Completed, Stopped)
      - Uniqueness (SSU, Processor, Istream)
    - Schedule information
      - Processor (Any, Other, Prime, Specific Processor)
      - Order (First, Next, Dependent ID)
      - Affinity (Grouping and RCI processing)

## *Integration of chain chase activation, control, and tracking*

- Restructured Recoup Monitor Operation
  - Single master monitor ECB running on the Main I-stream
    - Handles all record structures (z/TPF, z/TPFDF, z/TPFCS)
    - Uses new conditional EVNWC macro rather than DEFRC macros
  - Restart Area (RSA) monitors assigned as needed
    - One ECB per RSA to control the chase of an assigned record structure
    - Activated via SWISC on any available I-stream
    - Kicks off chain chase ECB's via SWISC to any available I-stream
- z/TPFDF and z/TPFCS modified to use z/TPF controls models
  - Use IRART (Recoup Active Root Table) for tracking ECB activity
  - Centralized Timeout processing for all record structures
    - Three stage timeout process
    - Improved displays to assist in timeout processing
    - New profile option to set stage 2 timeout length
    - Ability to extend timeout value by operator command

## *Enhancement to Recoup selective chain chase*

- New command to display or modify the IRSCT
  - Provides means to selectively chase multiple record structures
  - Allows selection of SSU unique records
    - Only one SSU per Recoup run
  - Ability to include or exclude record structures by:
    - Type of record structure (z/TPF, z/TPFDF, z/TPFCS)
    - Record ID/Version (z/TPF and z/TPFDF)
    - Data Store Name (z/TPFCS)
  - Modification of IRSCT is restricted
    - Normal recoup run does not permit modification
    - Only allowed for selective recoup runs
      - **ZRECP START TEST1**
      - **ZRECP START SEL**



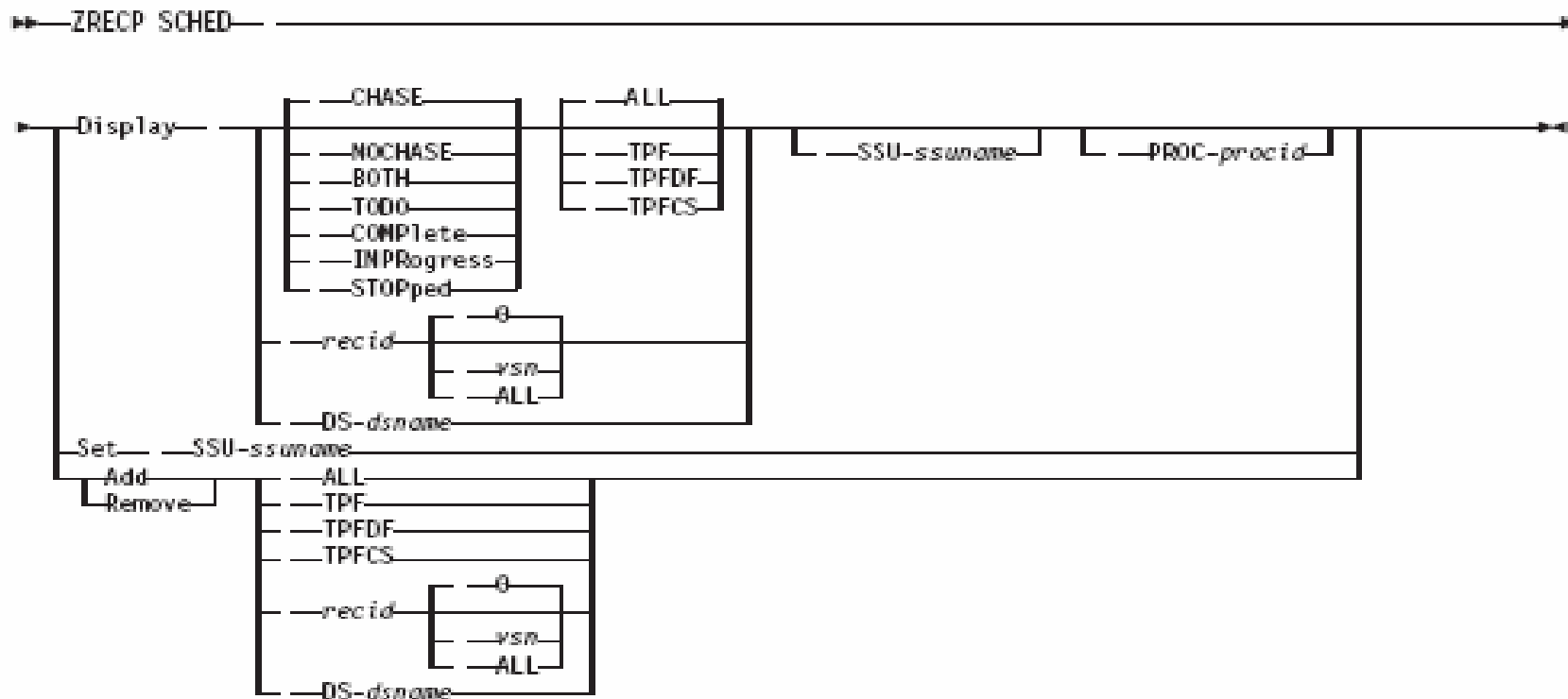
## *Consistent presentation of Recoup status displays*

- Reformatting of Recoup Status Messages
  - Single ‘look’ for z/TPF, z/TPFCS, and z/TPFDF displays
  - Segmented the ZRECP STATUS output during Phase 1
    - Section 1 provide overall status of the recoup process
    - Section 2 provide detail information about each Restart Area Chase
- Multiple ways to determine the status of a Recoup Run
  - Information messages for each record structure chase
    - Begin, Start, Completed messages for record structure chases
  - Standard ZRECP STATUS command
  - New ZRECP SCHED DISPLAY command
    - Able to select by chase state (TODO, INPRogress, COMPLete, STOPped)
    - Also able to select by processor ID

# New and changed Commands

- ZRECP SCHED**

- **Display or change the IBM recoup scheduling control table (IRSCT)** Use this command to display the status of a recoup chain chase or to change the list of record structures that will be chain chased.

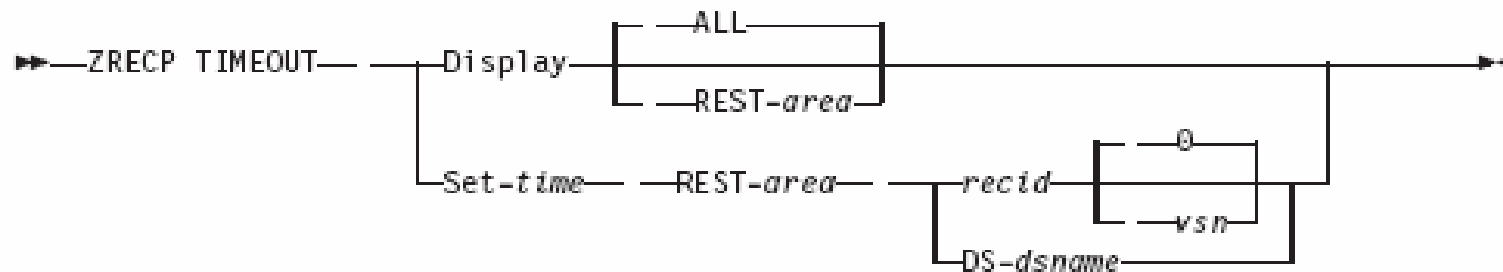


# *New and changed Commands*

## ZRECP TIMEOUT—Display or change timeout information

Use this command to do the following tasks:

- Display the timeout status for a specific z/TPF, z/TPFCS, z/TPFDF chain chase
- Change the time for the current chain chase to complete processing.

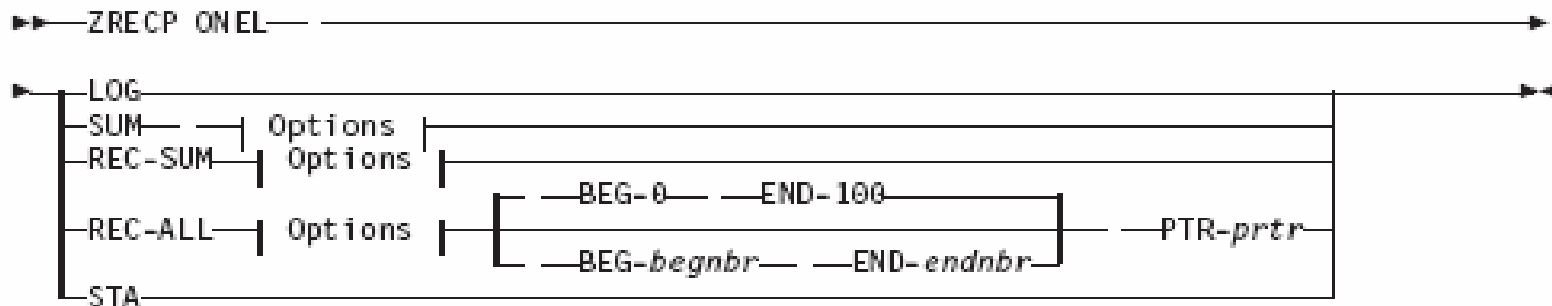


# New and changed Commands

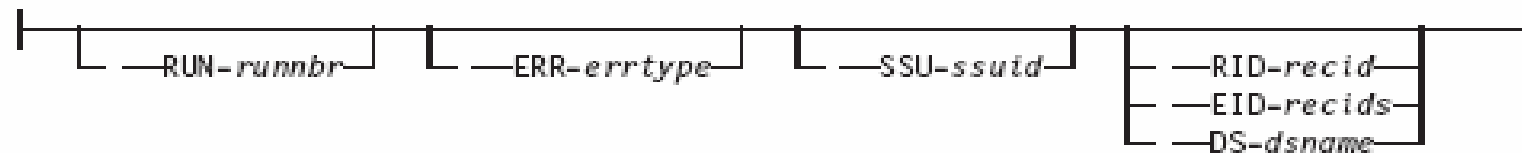
- ZRECP ONEL**

- Online error log**

Use this command to display the errors found during the chain chase portion of recoup phase 1.



**Options:**

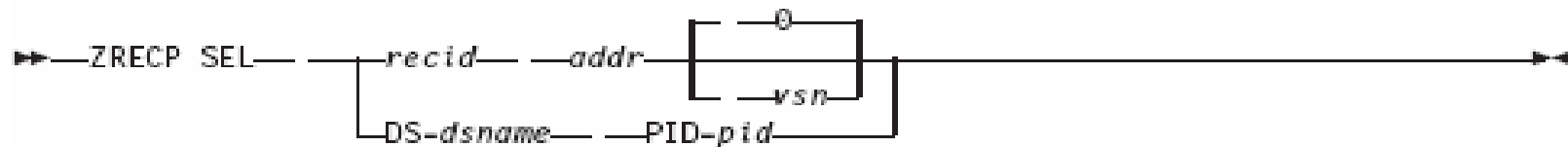


# New and changed Commands

- **ZRECP SEL**

- **Process recoup records**

Use this command to process a fixed file record or a z/TPF collection support (z/TPFCS) collection again and include it in a recoup run.



- **ZRECP LEVEL**

- **Change the ECBs allowed for phase 1**

Use this command to change the number of active entry control blocks (ECBs) that are allowed during recoup phase 1 chain chase processing.

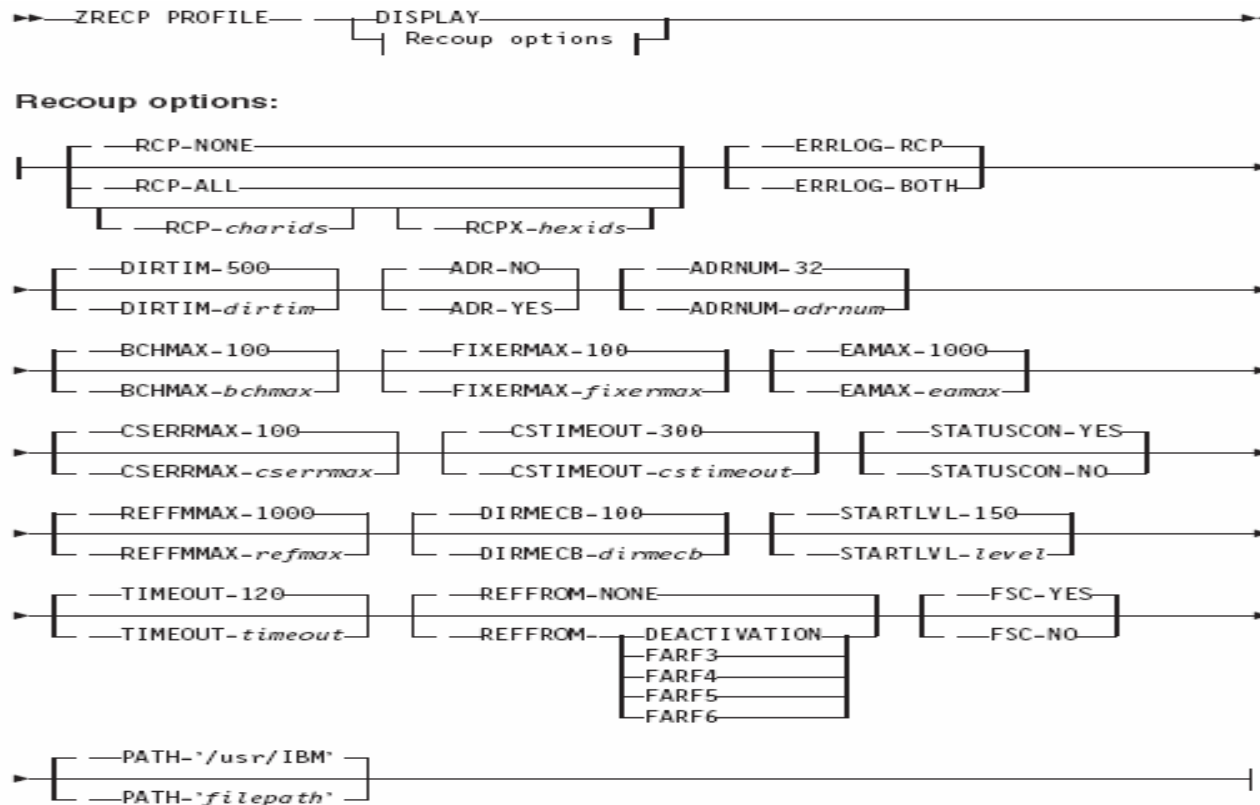


# New and changed Commands

- ZRECP PROFILE**

- Option table input message driver**

Use this command to display or set your recoup run-time options.



# *New and changed Commands*

- **ZRECP RECALL**

- **Recall recoup**

Use this command to do the following:

Begin the actual chain chase process in phase 1.

Enter the ZRECP START and ZRECP SCHED commands to set up the record structures that will be chain chased.

Begin recoup phase 3 when running in 1052 state.

When starting a new recoup run, you can enter this command only after ZRECP START command processing is completed successfully.

**Note:** If you start recoup in selective chain chase mode or test mode, enter the ZRECP SCHED command to refine the online record structures that will be chain chased before you enter ZRECP RECALL.

▶▶—ZRECP RECALL—▶▶

## *New and changed Commands*

- **TPFDF Recoup Commands Removed**
  - ZRECP MPLOG (Replaced by ZRECP SCHED)
  - ZRECP PRT (Obsoleted)
  - ZRECP REPORT (Replaced by ZRECP SCHED)
- **TPFDF Recoup Commands Remaining**
  - Only Apply to z/TPFDF Data Structures
  - ZRECP LOG – Display a recoup log
  - ZRECP Q RESET – Reset queue control indicator
  - ZRECP STA – Display statistical data



# *C-Function Calls, Macros and C-headers*

- **C-Function Calls (New)**

- **evnwc\_cond**

- **Conditional wait for count event completion**

- This function waits for the count of an event to be less than or equal to aspecified value. It is used with the evntc, evnwc, and postc functions.

- **tpf\_STCK\_to\_timet**

- **Convert tpf\_TOD\_type to time\_t**

- This function converts a z/TPF time-of-day (TOD) stamp to time\_t format. You can format or manipulate the return from this function with any standard C function that is defined in the time.h header file.

# *C-Function Calls, Macros and C-headers*

- **Macros**

- **BRPRO**

- **Query recoup options**

- Use this system macro to query the status of current recoup run options that are held as bit settings at BK0APIS in the recoup keypoint (BKORP). These recoup run options are set by using the ZRECP PROFILE command. See *z/TPF Operations* for more information about recoup runtime options and the ZRECP PROFILE command.
      - New options
        - DIRMECB – defines the number of simultaneous ECB's to use for pool directory operations (capture, merge, init)
        - STARTLVL – specifies the initial value for the maximum number of recoup ECB's during phase 1
        - TIMEOUT – specifies the time (in seconds) that a chain chase has to complete processing after the initial timeout notification

# C-Function Calls, Macros and C-headers

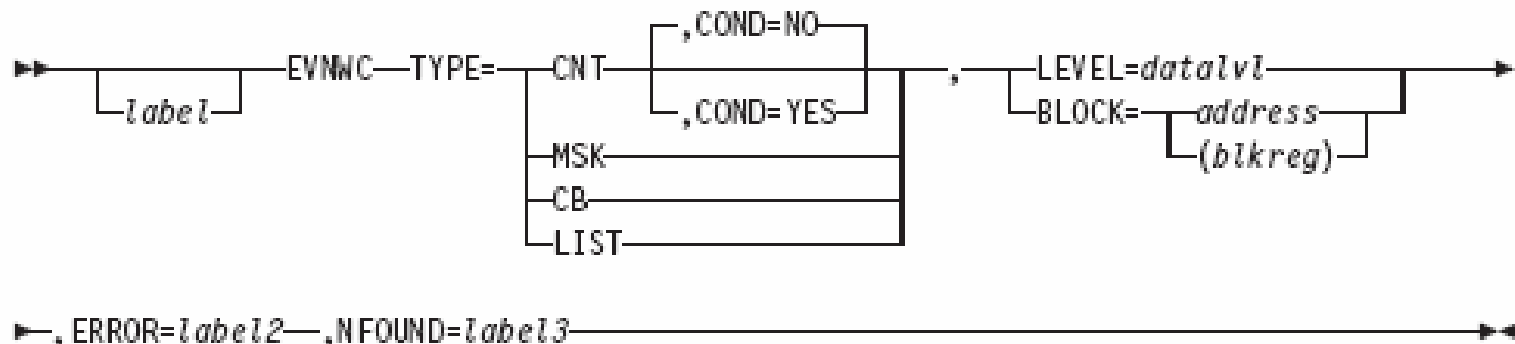
- **EVNWC**

- **Wait for event completion**

- Use this general macro to wait for the completion of a named event. It is used with the EVNTC and POSTC macros. You can use the EVNTC, POSTC, EVNWC, and SAWNC macros to pass the contents of a core block from one ECB to another ECB.

- **COND**

- specifies conditional processing, where: **NO** specifies an unconditional wait. That is, the ECB will be reactivated when the event has completed processing and the count is 0.
    - YES specifies that the ECB will be reactivated when the count for the event is less than or equal to a specified number. Note: If you specify COND=YES, the event is not cleaned up when the ECB is reactivated. To ensure the storage that is associated with the event is released, code the EVNWC macro again without the COND parameter specified (or with COND=NO specified). LEVEL=datavl specifies a core block reference word (CBRW) and file address reference word



# *C-Function Calls, Macros and C-headers*

- Recoup Keypoint
  - BK0DF.mac (z/TPFDF Specific Fields)
    - Obsoleted. Integrated into BK0RP
  - BK0RP.mac and C\_BK0RP.h
    - Restructured in Section 1 and Section2
    - Integrated Scheduling Inface Block into Restart Areas
  - IRSCT.mac replaces MPRECP.mac
- Update z/TPFDF DBDEF to bring inline with z/TPF
  - MPPRCD now **ANY**, **PRIME**, **OTHER**, *cpuid*
  - MPNXTD and MPRECD now uses a Record ID/**Version** combination
  - New ECB= parameter to limit number of simultaneous ordinal chased
- Removed the SRMP1A scheduling table and related software

## *What is the impact to the customer ?*

- Some reassembly or recompile may be required
  - Revised layout of the recoup keypoint (BK0RP)
  - Recoup keypoint now always memory resident (carved at CTIN time)
  - Changed use of the file copy of the keypoint (work and processor unique)
  - User created recoup programs need to be reviewed for changes
- DBDEF's and TPF Descriptors
  - Requires unique instance of Record ID/Version
    - Resolve conflicting version between z/TPF and z/TPFDF
  - Take advantage of parameter changes and single schedule table
    - Changes allow greater control over chain chase activity (ECB=)
    - Can now have references between z/TPF and z/TPFDF
    - Can now put z/TPF and z/TPFDF in same RCI grouping
    - Chases of z/TPF, z/TPFCS, and z/TPFDF can be interleaved

# *Examples*

# ZRECP TIMEOUT

User: ZRECP TIMEOUT DISPLAY

System: RECP0801I 10.54.03 ZRECP TIMEOUT DISPLAY

RESTART AREA	RECORD ID/DS	VERSION	TIME	ACTIVE CHASE
1	PN, 'D7D5'	001	20	3
3	, 'FC33'	102	20	2
6	IFSXBSS		15	1

END OF DISPLAY

User: ZRECP TIMEOUT DISPLAY REST 1

System: RECP0806I 10.56.33 RECOUP TIMEOUT RESTART AREA 1, RECORD ID PN, 'D7D5'  
VSN 001 20 SECONDS REMAIN UNTIL FINAL TIMEOUT

ACTIVE CHASE - 3  
FILE ADDRESSES - 000000007030C035  
- 000000008030C04E  
- 00000000C08835F7

END OF DISPLAY

User: ZRECP TIMEOUT SET-200 REST-2 C3C1 001

System: RECP0800I 10.54.23 CHANGED TIMEOUT TO 200 SECONDS FOR RESTART AREA 2 FOR RECORD ID  
CA, 'C3C1' VSN 001

## ZRECP ONEL

The following example displays a summary of total error counts.

```
User: ZRECP ONEL REC-SUM

System: RECP0395I 11.07.23 ONLINE ERROR LOG DISPLAY FOR 07Aug
TOTAL ERRORS FOR ID JB(D1C2) - 1
TOTAL ERRORS FOR ID JF(D1C6) - 1
TOTAL ERRORS FOR ID JO(D1D6) - 1
TOTAL ERRORS FOR DS IRSCTBSS - 1
END OF DISPLAY
```

The following example displays a summary of total error counts for a specific data store.

```
User: ZRECP ONEL REC-SUM DS-IRSCTBSS

System: RECP0395I 11.07.23 ONLINE ERROR LOG DISPLAY FOR 07Aug
TOTAL ERRORS FOR DS IRSCTBSS - 1
END OF DISPLAY
```



# ZRECP SEL

The following example selectively adds version 0 of the C1C1 record type to the current recoup run after receiving fixed errors during chain chase processing.

```
System: RECP0012A 19.31.36 FIXED ERROR-RESPOND
        RECP0014A 19.31.36 DEFERING TIL SEL RECOUP COMPLETE
        OR CONTINUE RESPOND.

User:   ZRECP SEL C1C1 00000000D4030000

System: RECP0031I 00.23.03 STARTING TPF SEL CHASE - RESTART AREA 0
        ID:   AA 'C1C1' VER: 000   TYPE: TPF   RECTYP: #WAARI   DESCN: BKD0
        STATUS: SEL ACTV  SSU: HPN   PROC: B   IS: 01   ELAPSED TIME: 00000000
        FA-00000000 D4030000
        END OF DISPLAY+
        :
        :
        :
        RECP0032I 00.23.03 COMPLETED TPF SEL CHASE - RESTART AREA 0
        ID:   AA 'C1C1' VER: 000   TYPE: TPF   RECTYP: #WAARI   DESCN: BKD0
        STATUS: SEL COMP  SSU: HPN   PROC: B   IS: 01   ELAPSED TIME: 00000000
        FA-00000000 D4030000
        END OF DISPLAY+
```

# ZRECP SEL

The following example selectively adds a specific z/TPFCS data store.

```
User:  ZRECP SEL DS-TPFDB PID-0002FC16AF4469DD E3D7C6C4 C2404040 1802F104 1802F105 00000000 00000000

System: RECP0831I 00.35.55 STARTING TPFCS SEL CHASE - RESTART AREA 0
        DSNAME: TPFDB      TYPE: TPFCS
        STATUS: SEL ACTV  SSU: HPN   PROC: B  IS: 01  ELAPSED TIME: 00000000
        PID-0002FC16 AF4469DD E3D7C6C4 C2404040
           1802F104 1802F105 00000000 00000000
        END OF DISPLAY+
        :
        :
        :
        RECP0832I 00.35.55 COMPLETED TPFCS SEL CHASE - RESTART AREA 0
        DSNAME: TPFDB      TYPE: TPFCS
        STATUS: SEL COMP  SSU: HPN   PROC: B  IS: 01  ELAPSED TIME: 00000000
        PID-0002FC16 AF4469DD E3D7C6C4 C2404040
           1802F104 1802F105 00000000 00000000
        END OF DISPLAY+
```

# ZRECP STATUS

```

User: ZRECP STATUS
System: RECP0533I 12.46.31 RECOUP STATUS REPORT COMPLETED+
        CSMP0097I 12.46.31 CPU-B SS-BSS SSU-HPN IS-01
        RECP0040I 12.46.31 RECOUP STATUS REPORT
        PHASE I: ACTIVE RCP SEQ: 00000000
        START: 03/29/2007 12:35:03 END:
        PRIME PROC: B ACTIVE PROC: B ECB: MAX 0010 CUR 00000008 _
        IRSCT ENTRIES: TODO 0070 COMPLETED 0032
        TOTAL ERRORS: FIXED 00000000 TIMEOUT 00000000

RESTART AREA DISPLAY
RESTART AREA: 0
ID: CD 'C3C4' VER: 000 TYPE: TPF RECTYP: #SONSKP DESCN: BKDY
STATUS: ACTIVE SSU: HPN PROC: Q IS: 01 ELAPSED TIME: 00000000 _
ECBS: STARTED 00000017 COMPLETED 00000017 ALLOWED
ORDS: START 00000000 ENDING 00000096 CURRENT 00000000
FINDS: POOL 000000014 DUPE 000000000 RCI 000000000
ERROR: 00000000 TIMEOUT 00000000 FIXED 00000000
RESTART AREA: 1
ID: 'FC66' VER: 000 TYPE: TPF RECTYP: #IBMMP4 DESCN: BKD1
STATUS: ACTIVE SSU: HPN PROC: B IS: 01 ELAPSED TIME: 00000005
ECBS: STARTED 00000000 COMPLETED 00000000 ALLOWED
ORDS: START 00000021 ENDING 00000021 CURRENT 00000021 _
FINDS: POOL 000000000 DUPE 000000000 RCI 000000000
ERROR: 00000000 TIMEOUT 00000000 FIXED 00000000
RESTART AREA: 2
ID: AA 'C1C1' VER: 000 TYPE: TPF RECTYP: #WAARI DESCN: BKD0
STATUS: ACTIVE SSU: HPN PROC: B IS: 01 ELAPSED TIME: 00000005 _
ECBS: STARTED 00000661 COMPLETED 00000660 ALLOWED
ORDS: START 00000000 ENDING 00002599 CURRENT 00000661
FINDS: POOL 000000000 DUPE 000000000 RCI 000000000
ERROR: 00000000 TIMEOUT 00000000 FIXED 00000000
RESTART AREA: 3
ID: 'FC2A' VER: 000 TYPE: TPF RECTYP: #INODE DESCN: BKD7
STATUS: ACTIVE SSU: HPN PROC: B IS: 01 ELAPSED TIME: 00000005
ECBS: STARTED 00001272 COMPLETED 00001270 ALLOWED
ORDS: START 00000000 ENDING 00006000 CURRENT 00001256 _
FINDS: POOL 0000000142 DUPE 000000000 RCI 000000000
ERROR: 00000000 TIMEOUT 00000000 FIXED 00000000
RESTART AREA: 4
ID: 'B071' VER: 000 TYPE: TPFDF FILE: IR71DF DBDEF: UF87
STATUS: ACTIVE SSU: HPN PROC: B IS: 01 ELAPSED TIME: 00000000+
ECBS: STARTED 00000032 COMPLETED 00000032 ALLOWED
ORDS: START 00000020 ENDING 00000020 CURRENT 00000020
FINDS: POOL 000000000 DUPE 000000000 RCI 000000000
ERROR: 00000000 TIMEOUT 00000000 FIXED 00000000
RESTART AREA: 5
ID: CB 'C3C2' VER: 000 TYPE: TPF RECTYP: #NCBRI DESCN: BKDB
STATUS: ACTIVE SSU: HPN PROC: B IS: 01 ELAPSED TIME: 00000004
ECBS: STARTED 00001048 COMPLETED 00001048 ALLOWED
ORDS: START 00000000 ENDING 00006027 CURRENT 00001048 _
FINDS: POOL 000000000 DUPE 000000000 RCI 000000000
ERROR: 00000000 TIMEOUT 00000000 FIXED 00000000
RESTART AREA: 6
DSNAME: TYPE: TPFCS
STATUS: COMPLETED SSU: HPN PROC: B IS: 01 ELAPSED TIME: 00000000
ECBS: STARTED 00000012 COMPLETED 00000012
PIDS COMPLETED: 00000012
FINDS: POOL 000000000 DUPE 000000000 RCI 000000000
ERROR: 00000000 TIMEOUT 00000000 FIXED 00000000
RESTART AREA: 7
ID: CO 'C3D6' VER: 000 TYPE: TPF RECTYP: #RCBRA DESCN: BKDV
STATUS: ACTIVE SSU: HPN PROC: B IS: 01 ELAPSED TIME: 00000002
ECBS: STARTED 00000233 COMPLETED 00000232 ALLOWED
ORDS: START 00000000 ENDING 00002599 CURRENT 00000233 _
FINDS: POOL 000000000 DUPE 000000000 RCI 000000000
ERROR: 00000000 TIMEOUT 00000000 FIXED 00000000
END OF DISPLAY+
    
```

# ZRECP SCHED DISPLAY

User: ZRECP SCHED DISPLAY

System: RECP0820I 12.55.43 DISPLAY OF IRSCT ENTRIES

CREATED: 03/29/2007 12:54:32

PHASE I START:

PHASE I END:

	TOTAL	TPF	TPFCS	TPFDF	
IRSCT ITEMS:	138	70	8	60	-
ITEMS TO DO:	138	70	8	60	
COMPLETED:	0	0	0	0	

CHASE	RECID/DS	VER	TYP	UNQ	PRO	STA	START	END
YES	'FC93'	001	TPF	---	ANY	T		
YES	'FC93'	002	TPF	---	ANY	T		
YES	'FC93'	003	TPF	---	ANY	T		-
YES	'FC93'	004	TPF	---	ANY	T		
YES	AA,'C1C1'	000	TPF	---	ANY	T		
YES	'FC63'	000	TPF	-P-	ANY	T		
YES	'FC66'	000	TPF	-P-	ANY	T		
YES	'FC55'	000	TPF	---	ANY	T		-
:								
:								
YES	'B071'	000	DF	---	ANY	T		
YES	'B073'	000	DF	---	ANY	T		
YES	'B075'	000	DF	---	ANY	T		-
YES	'B075'	001	DF	---	ANY	T		
YES	'B076'	000	DF	---	ANY	T		
YES	'BD09'	000	DF	---	ANY	T		
YES	'BD00'	000	DF	---	ANY	T		
YES	'BD90'	000	DF	---	ANY	T		-
YES	'BD91'	000	DF	---	ANY	T		
:								
:								
YES	IFSXBSS		CS	---	ANY	T		
YES	IRCPBSS		CS	---	ANY	T		-
YES	MATIP_DS		CS	---	ANY	T		
YES	TESTX_DS		CS	---	ANY	T		
YES	T02KEYP		CS	---	ANY	T		
YES	T02SVTDS		CS	---	ANY	T		
YES	TPFDB		CS	---	ANY	T		-

END OF DISPLAY+

## ZRECP SCHED DISPLAY - Details

User: ZRECP SCHED DISPLAY B075/ALL

System: RECP0821I 12.58.56 DISPLAY OF IRSCT ENTRY

RECID: , 'B075'	VER: 024	RECTP: #BTREE	UNIQUE: ---		
PGMNAME: BKZM	TYPE: TPF	PROC: ANY	GRP:	RCI: NO	
FCHAS: YES	NCHAS:	VER:	PCHAS:	VER:	-
STATUS: TODO	START:		END:		
RECID: , 'B075'	VER: 000	RECTP: #BTREE	UNIQUE: ---		
PGMNAME: UF87	TYPE: DF	PROC: ANY	GRP:	RCI: NO	
FCHAS: YES	NCHAS:	VER:	PCHAS:	VER:	-
STATUS: TODO	START:		END:		
RECID: , 'B075'	VER: 001	RECTP: #BTREE	UNIQUE: ---		
PGMNAME: UF87	TYPE: DF	PROC: ANY	GRP:	RCI: NO	
FCHAS: YES	NCHAS:	VER:	PCHAS:	VER:	-
STATUS: TODO	START:		END:		

END OF DISPLAY+

User: ZRECP SCHED DISPLAY DS-MATIP\_DS

System: RECP0821I 12.58.15 DISPLAY OF IRSCT ENTRY

DS: MATIP\_DS TYPE: CS STATUS: TODO PROC: ANY  
 START: END:  
 END OF DISPLAY+

# ZRECP SCHED DISPLAY – SSU Unique

User: ZRECP SCHED DISP SSU-HPN

System: CSMP0097I 02.22.44 CPU-B SS-BSS SSU-HPN IS-01  
 RECP0820I 02.22.44 DISPLAY OF IRSCT ENTRIES SSU-HPN  
 CREATED: 04/12/2007 02:21:49  
 PHASE I START:  
 PHASE I END:

	TOTAL	TPF	TPFCS	
IRSCT ITEMS:	163		8	82 _
ITEMS TO DO:	163	73	8	82
COMPLETED:	0	73	0 TPFDF	0
		0		

CHASE	RECID/DS	VER	TYP	UNQ	PRO	STA	START	END
YES	, 'FC93'	002	TPF	SP-	ANY	T		
YES	, 'FC93'	003	TPF	SP-	ANY	T		-
YES	, 'FC93'	004	TPF	SP-	ANY	T		

END OF DISPLAY+

# ZRECP SCHED ADD / REMOVE

User: ZRECP SCHED ADD TPF

System: CSMP0097I 23.03.12 CPU-B SS-BSS SSU-HPN IS-01  
 RECP0822I 23.03.12 IRSCT ENTRY ADDED FOR TPF+  
 CSMP0097I 23.03.12 CPU-B SS-BSS SSU-HPN IS-01  
 RECP0820I 23.03.12 DISPLAY OF IRSCT ENTRIES

	TOTAL	TPF	TPFCS	TPFDF
IRSCT ITEMS:	163	73		82
ITEMS TO DO:	73		0	0
COMPLETED:	0	73	0	0

END OF DISPLAY+

8

User: ZRECP SCHED REM B075/ALL

System: CSMP0097I 23.03.53 CPU-B SS-BSS SSU-HPN IS-01  
 RECP0823I 23.03.53 IRSCT ENTRY REMOVED FOR , 'B075' ALL+  
 CSMP0097I 23.03.53 CPU-B SS-BSS SSU-HPN IS-01  
 RECP0820I 23.03.53 DISPLAY OF IRSCT ENTRIES  
 CSMP0097I 23.03.53 CPU-B SS-BSS SSU-HPN IS-01  
 RECP0820I 23.03.53 DISPLAY OF IRSCT ENTRIES

	TOTAL	TPF	TPFCS	TPFDF
IRSCT ITEMS:	163	73		82
ITEMS TO DO:	72		0	0
COMPLETED:	0	72	0	0

END OF DISPLAY+

8

0

# ZRECP SCHED SET / ADD

User: ZRECP SCHED SET SSU-HPN

System: CSMP0097I 23.25.59 CPU-B SS-BSS SSU-HPN IS-01  
 RECP0836I 23.25.59 RECOUP RUN IS SET FOR SUBSYSTEM USER HPN +  
 CSMP0097I 23.25.59 CPU-B SS-BSS SSU-HPN IS-01  
 RECP0820I 23.25.59 DISPLAY OF IRSCT ENTRIES SSU-HPN

	TOTAL	TPF	TPFCS	TPFDF
IRSCT ITEMS:	163	73		82
ITEMS TO DO:	0	0		0
COMPLETED:	0	0		0

END OF DISPLAY+

8

User: ZRECP SCHED ADD FC93/ALL

0

System: CSMP0097I 23.26.26 CPU-B SS-BSS SSU-HPN IS-01  
 RECP0822I 23.26.26 IRSCT ENTRY ADDED FOR , 'FC93' ALL+  
 CSMP0097I 23.26.26 CPU-B SS-BSS SSU-HPN IS-01  
 RECP0820I 23.26.26 DISPLAY OF IRSCT ENTRIES SSU-HPN

	TOTAL	TPF	TPFCS	TPFDF
IRSCT ITEMS:	163	73		82
ITEMS TO DO:	3	3		0
COMPLETED:	0	0		0

END OF DISPLAY+

8

User: ZRECP RECALL

0

System: CSMP0097I 23.27.02 CPU-B SS-BSS SSU-HPN IS-01  
 RECP0003I 23.27.02 PSEUDO DIRECTORY INITIALIZATION STARTED  
 :



# *Questions*

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