



z/TPFDF V1.1

TPF Users Group Fall 2008 z/TPFDF Status Update

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AIM Enterprise Platform Software
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Agenda

- **Newly Available z/TPFDF Enhancements**
 - Subsystem user support for CRUISE
 - Miscellaneous CRUISE enhancements
 - Long chain detection in Recoup
 - New user exit for file address calculations
 - z/TPFDF migration aid for non-HPO customers
- **Previously Available z/TPFDF Enhancements**
- **Accepted TPFUG Requirement**
 - DF00079 – Support memory based z/TPFDF files

Subsystem User Support for CRUISE

- **CRUISE did not allow multiple subsystem users (SSUs) to be processed during a single run of a parameter table.**
- **Led to operational complexity since customers needed:**
 - At least one capture tape per SSU, and
 - To execute the parameter table in each SSU
- **CRUISE has now been enhanced to support multiple SSUs within the same subsystem**
 - Available as APAR PK59957 on z/TPFDF PUT 5
 - Satisfies TPF Users Group Requirement DF00158

Subsystem User Support for CRUISE

- **Three new options are available in the CRUISE parameters table (ZFCRU SETUP):**
 - SSU - a list of subsystem users to be processed, or “ALL” subsystem users
 - If not specified, the default is to process only the SSU in which the ZFCRU START command is entered.
 - SSUCOMMON - indicates if SSU common files are to be processed. The default is “yes”.

Subsystem User Support for CRUISE

- ORIGSSU – indicates if data is to be restored to the SSU from which the data was captured (the default), or to the SSU in which the ZFCRU START command was entered
 - Allows data to be captured in one SSU, and restored to another
- **Existing parameter tables are unaffected**
 - For capture, verify and pack functions, processing is not affected
 - For restore, processing is not affected except that the default is to restore data to the SSU from which it was captured

Miscellaneous CRUISE Enhancements

- **The following enhancements are also included in APAR PK59957 on z/TPFDF PUT 5:**
 - Improved ZFCRU DISPLAY information regarding ordinals, partitions and interleaves
 - Allow CRUISE to issue a message as each file ID is completed
 - ZFCRU SETUP ENDIDMSG
 - Allow CRUISE to pause automatically at certain points during processing, allowing customers to adjust ECB levels
 - ZFCRU SETUP AUTOPAUSE

Long Chain Detection in Recoup

- **z/TPFDF did not provide a mechanism for detecting long subfile chains**
 - Such chains have a negative effect on logical record searches and recoup chainchase
- **A new DBDEF parameter is now available allowing such long chains to be detected during Recoup**
 - The LONGCHAIN parameter is specified as a numeric value indicating the length at which a “long chain” is declared
 - The default value is zero, indicating that no checking is to be performed

Long Chain Detection in Recoup

- **A new informational message will be issued for each top-level index in which one or more long chains are detected**
- **ZRECP DISPLAY LONG displays additional information about all long chains detected during Recoup**
- **Available as PK69613 on z/TPFDF PUT 5**
- **Satisfies TPFUG Requirement DF00177**

New User Exit for File Address Calculations

- **z/TPFDF does not support processor-unique or I-stream unique records**
- **Some customers have modified TPFDF to at least partially support such records**
- **z/TPFDF user exit (DFUEX) case 11 has been introduced to simplify such implementations**
 - Allows parameters passed to the FAC8C macro by the z/TPFDF central database routines to be modified
 - The default is no change to the file address calculations

New User Exit for File Address Calculations

- **Customers requiring formal support for processor-unique records should consider voting for TPFUG requirement DF08186S**
- **User Exit is available with APAR PK51854 on z/TPFDF PUT 5**

z/TPFDF Migration Aid for Non-HPO Customers

- **Certain z/TPFDF files are partitioned for loosely-coupled processors**
- **This requires non-HPO customers to define more records than needed, or to carry a local modification to set the number of partitions to one**
- **z/TPFDF and z/TPF have been modified to automatically set the number of partitions for such files to the number of loosely-coupled processors**
- **Support is provided with APAR PK67432 on z/TPFDF PUT 5, and APAR PJ33760 on z/TPF PUT 5**

Previously Available z/TPFDF Requirements

- **The following enhancements have been previously announced, and are also on z/TPFDF PUT 5**
 - PK59946 - support z/TPFDF files which are “always open”
 - PK59331 - consists of four ZUDFM enhancements:
 - Clear residual links after incorrect ZUDFM commands
 - Allow an explicit LREC size using ZUDFM ADD
 - Log the CPU-ID for ZUDFM DEF INIT commands
 - New user exit to allow ZUDFM special character translations

Accepted TPFUG Requirement

- **DF00079 – Support memory based z/TPFDF files**
 - DBDEF will specify if a file is memory based
 - DBOPN will allow either:
 - a new instance of the file to be created in memory, or
 - an existing instance of the file to be accessed
 - DBCLS will allow either the instance to be deleted, or simply released allowing other ECBs access

Questions and Answers