



IBM Software Group

27th ALCS User Group Meeting, London, 24 - 26 May 2011

TPFDF Status Update

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Agenda

- TPFDF PUT 25
- TPFDF PUT 26
- Changes to Maintenance Process
- The Future of TPFDF 1.1.3

TPFDF PUT 25

- Available in November, 2009
- 18 APARs including 3 enhancements
 - ▶ PK70823 – Remove the enhanced DETAC table size restriction on ALCS
 - On TPF, the enhanced DETAC table would be dynamically resized using heap storage
 - On ALCS, GETCC blocks were used because heap storage wasn't previously available
 - Processing has been changed to use heap (CALOC) storage on ALCS so the table can be dynamically resized
 - The DB0150 system error has been obsoleted.



TPFDF PUT 25

- ▶ PK80659 – TPFDF C/C++ interface only allows reference name strings with an exact length of 8 bytes
 - Assembler interface for DBOPN, DBIFB, and DBCLS allow reference names of less than 8 bytes to be specified
 - TPFDF pads the names with blanks
 - C/C++ interface for dfopn, dfifb, and dfcls takes a system error if a reference name that is less than (or greater than) 8 bytes is specified
 - Interface has been updated to allow null-terminated strings less than 8 bytes
 - TPFDF pads the names with blanks, as assembler does
 - System errors DBC041, DBC0121, and DBC0161 are now obsolete.

TPFDF PUT 25

- ▶ PK90124 – TPFDF data collection display (ZUDFC DISPLAY) should be enhanced to support larger average values
 - TPFDF average rates could only support up to 6 digits and a decimal place
 - Now, up to 8-digit averages with no decimal place are supported



TPFDF PUT 26

- Ongoing
- 7 APARs (through 16-May-2011) including 1 enhancement
 - ▶ PK60265 – Provide a new algorithm to hash 8-byte character strings
 - #TPFDB09 already hashes 8-byte character strings
 - Doesn't provide even distributions under certain circumstances:
 - Algorithm argument typically (or often) contains a small subset of available hexadecimal values (such as 4-byte location codes)
 - Large number of hash slots exist
 - This is due to using addition instead of multiplication in underlying hashing calculation
 - Algorithm #TPFDB11 introduced to use multiplication instead of addition in calculation



Changes to the TPFDF 1.1.3 Maintenance Process

- PUT numbers will ***no longer be incremented*** on a yearly basis
 - ▶ The last physical PUT was PUT 23 in 2007
 - ▶ The last virtual PUT was PUT 25 in 2009
 - ▶ All APARs released since then have been and will be available on the web as individual packages classified as PUT 26
 - ▶ A consolidated APARFIX file (so an entire PUT can be installed at once) will be made available annually (named PUT26A, PUT26B, etc.)
- Impact
 - ▶ New naming convention for consolidated APARFIX files
 - ▶ The PDF “PUT Summary” document is no longer available
 - ▶ If a requirement arises to create a new PUT, it can be considered

The Future of TPFDF 1.1.3

- TPF 4.1 had End Of Service (EOS) on December 30, 2010
- ***TPFDF 1.1.3 is still fully supported on ALCS and will be fully supported for the foreseeable future***
- Maintenance APARs will continue to be issued
 - ▶ Fewer APARs are being reported as
 - The product base has stabilized
 - There are fewer TPF 4.1 customers who report TPFDF 1.1.3 problems
 - ▶ IBM plans to retrofit any HIPER APARS reported in z/TPFDF that are known to apply to TPFDF 1.1.3
 - PM38825 (currently open) is an example



The Future of TPFDF 1.1.3

- Enhancements will continue to be considered and implemented as in the past
 - ▶ **All** ALCS enhancement requests outstanding since the last ALCS User's Group have been implemented!
 - There was only one!
 - ▶ With TPF 4.1 EOS, all future TPFDF 1.1.3 enhancement requests must originate from ALCS customers



Wrap Up

- Support for TPFDF through alcs@uk.ibm.com:
 - ▶ Problems
 - ▶ Requirements
 - IBM encourages ALCS customers to submit TPFDF requirements through alcs@uk.ibm.com
 - There are currently **no** TPFDF requirements open from ALCS users
- Questions

