**PTOLEMY DVAL and others checks**

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**Data sets:**

RL-CAL-PTOLEMY-1-PDCS-V1.0

RL-CAL-PTOLEMY-1-PHC-V1.0

RL-CAL-PTOLEMY-2-PDCS-V1.0

RL-CAL-PTOLEMY-2-PHC-V1.0

RL-CAL-PTOLEMY-3-PDCS-V1.0

RL-CAL-PTOLEMY-3-PHC-V1.0

RL-C-PTOLEMY-1-FSS-V1.0

RL-C-PTOLEMY-1-RBD-V1.0

RL-C-PTOLEMY-2-FSS-V1.0

RL-C-PTOLEMY-2-RBD-V1.0

RL-C-PTOLEMY-3-FSS-V1.0

RL-C-PTOLEMY-3-RBD-V1.0

RL-C-PTOLEMY-5-FSS-V1.0 (delivered on 5/02/2016)

Delivered on 20/01/2016

NB: The check has been done with the Lander Clock kernel that we have just produced. DVAL time only gives warnings of less of 1 second.

Data sets passed PVV successfully.

Level 1 just PVV checked.

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| **Experiment** | PTOLEMY | **RID Nr.** |  |
| **Title** | AUXILIARY data badly defined | | |
| **Dataset** | ALL | | |
| **Validation step** | readpds | | |
| **Description** | The AUXILIARY data cannot be read by readpds because the ROW\_BYTES are badly defined as they do not contain CR/LF end of line. 2 must be added to all. (51 instead of 49, 50 instead of 48 etc…) | | |
| **SOLUTION** | Change the ROW\_BYTES in the AUXILIARY data | | |

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| **Experiment** | PTOLEMY | **RID Nr.** |  |
| **Title** | Non ASCII characters | | |
| **Dataset** | ALL | | |
| **Validation step** | DVAL Encoding | | |
| **Description** | The DOCUMENT/PTOLEMY\_CALIBRATION\_DESC.TXT contains non ascii characters (TAB).  Same for TIMELINE\_\*.TXT | | |
| **SOLUTION** |  | | |

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| **Experiment** | PTOLEMY | **RID Nr.** |  |
| **Title** | TIME discrepancies | | |
| **Dataset** | ALL | | |
| **Validation step** | DVAL Time | | |
| **Description** | There are discrepancies between the s/c clock stop and the STOP\_TIME of more than 1 seconds:  Example ( but you have to check the data with DVAL to have the complete list):  Differences are around 9 seconds in the AUXILIARY data  And about 1 second in  RL-C-PTOLEMY-2-FSS-V1.0/DATA/FULL\_SPECTRUM/PTO\_FS22\_141114224733\_0023.LBL.  The rest are warnings (less than 1 sec difference).  For Level 5 the difference is of 160818 seconds!! | | |
| **SOLUTION** |  | | |

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| **Experiment** | PTOLEMY | **RID Nr.** |  |
| **Title** | Mismatch in DATA\_SET\_ID | | |
| **Dataset** | RL-C-PTOLEMY-3-FSS-V1.0  RL-C-PTOLEMY-3-RBD-V1.0  RL-CAL-PTOLEMY-3-PHC-V1.0 | | |
| **Validation step** | PVV verify | | |
| **Description** | CALIB/SNIFF\_MODE\_CONV\_FACTORS.LBL DATA\_SET\_ID = RL-CAL-PTOLEMY-3-FSS-V1.0 while it is DATA\_SET\_ID = RL-C-PTOLEMY-3-FSS-V1.0 in the catalog.  Check the 3 data sets, the same issue appears. | | |
| **SOLUTION** | Replace the DATA\_SET\_ID in the label | | |

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| **Experiment** | PTOLEMY | **RID Nr.** |  |
| **Title** | Table badly defined | | |
| **Dataset** | RL-C-PTOLEMY-5-FSS-V1.0 | | |
| **Validation step** | DVAL Table | | |
| **Description** | Table object declare 142 rows but only 127 could be read in file DATA/MS\_AGILKIA.LBL | | |
| **SOLUTION** | Check the column numbers and change it. | | |

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| **Experiment** | PTOLEMY | **RID Nr.** |  |
| **Title** | Incorrect Size | | |
| **Dataset** | RL-C-PTOLEMY-5-FSS-V1.0 | | |
| **Validation step** | DVAL Size | | |
| **Description** | In DATA/MS\_ABYDOS1.LBL the size announced is 5112 (36\*142) but the file is 5148 (143\*36). FILE\_RECORDS = 143  The number of ROWS is actually 128 but announced ROWS = 127. | | |
| **SOLUTION** | Change the ROWS and FILE\_RECORDS. | | |

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| **Experiment** | PTOLEMY | **RID Nr.** |  |
| **Title** |  | | |
| **Dataset** | ALL | | |
| **Validation step** |  | | |
| **Description** |  | | |
| **SOLUTION** |  | | |