



dpscolfix

January 12, 2017

Abstract

Correct dps bit pattern error for float numbers

1 Instruments/Modes

Instrument	Mode
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2 Use

pipeline processing	no
interactive analysis	no

3 Description

Due to a problem in the DPS system, some derived parameters were stored as float instead of double value in the final FITS files. This means that the 64-bit pattern was truncated to only 32-bit pattern and stored as float. **dpscolfix** task reads the float numbers and stores the 32bit in a 64bit pattern and save the new double value in the column. A new keyword *DPSCORRF*, with value *PATCHD*, is then written in the header to prevent future modifications and to identify this file as corrected. If the keyword *DPSCORRF* already exists with the value *VALID*, **dpscolfix** does not apply any correction. **dpscolfix** exists with error in case the keyword *DPSCORRF* exists and the value is not *VALID* nor *PATCHD*.

4 Parameters

This section documents the parameters recognized by this task (if any).

Parameter	Mand	Type	Default	Constraints
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<i>file</i>	<i>yes</i>	<i>file</i>		
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Input file name



5 Errors

This section documents warnings and errors generated by this task (if any). Note that warnings and errors can also be generated in the SAS infrastructure libraries, in which case they would not be documented here. Refer to the index of all errors and warnings available in the HTML version of the SAS documentation.

UnknownKeywordValue (error)

The keyword DPSCORRF exists, but the value is unknown.

DerivedParametersCorrected (warning)

corrective action: The float values for derived parameters were already corrected.

DerivedParamCorrect (warning)

corrective action: The file was created with the right bit pattern.

6 Input Files

- 1.

7 Output Files

- 1.

8 Algorithm

9 Comments

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References