

LFR-FSW - Bug #74

Périodicité de TM_LFR_SCIENCE_BURST_CWF_F2 hors tolérance.

05/03/2014 07:52 PM - Gerald Saule

Status:	Closed	Start date:	05/03/2014
Priority:	Normal	Due date:	
Assignee:	bruno katra	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
revision:	r104		

Description

La période d'émission des salves de TM_LFR_SCIENCE_BURST_CWF_F2 devrait être de LFR_CWF_L / F2 (= 1688/16 = 10.5s). Bien que ces salves soient générées, les outils de validation retournent toujours **Timeout=12.6s**:
[**TM_LFR_SCIENCE_BURST_CWF_F2**] not seen.

Par comparaison, on a un fonctionnement nominal en SBM2 avec TM_LFR_SCIENCE_SBM2_CWF_F2.

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F(TM_LFR_SCIENCE_SBM2_CWF_F2): nom=256.0Hz, Nb(T)=171.0, res=256.00144433/s,
T(.../PA_LFR_ACQUISITION_TIME): res=256.0/s
T(TM_LFR_SCIENCE_SBM2_CWF_F2): nom=10.5s, min=10.487057s, mean=10.4999407602s, max=10.512917s,
Nb(T<9.45s)=0.0%, Nb(T>11.55s)=0.0%
T(.../PA_LFR_ACQUISITION_TIME): min=10.5s, mean=10.5s, max=10.5, Nb(T<9.45s)=0.0%, Nb(T>11.55s)=0.0%
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Contexte:

LPPMON Version=0.2.2 - Branch=default - Changeset=835955994d5f

Carte mini-LFR: LFR-172200 dev V1.0; No série III (sans connecteurs sub-click)

Vhdl: mini-lfr_0.0.0.15

Soft: 1.0.0.2 (variante sur carte finale) = r104

Brique Brique Star-Dundee S/N 46120065.

RPW-SYS-MEB-LFR-ICD-00097 Issue2_Rev0

RPW-SYS-SSS-00013-LES + Annex_Release_Definition Issue2_rev1

History

#1 - 06/03/2014 10:12 AM - Gerald Saule

- Subject changed from Périodicité de TM_LFR_SCIENCE_SBM2_CWF_F2 hors tolérance. to Périodicité de TM_LFR_SCIENCE_BURST_CWF_F2 hors tolérance.

#2 - 28/03/2014 11:21 AM - paul leroy

- Status changed from New to Resolved

Bug non reproduit avec fsw = 1.0.0.4 et vhdl = 0.1.7

Vérification en lançant le mode BURST et en regardant les logs enregistrés par le rmapplugin pendant 5 minutes.

#3 - 15/05/2014 12:12 PM - paul leroy

- Assignee changed from paul leroy to bruno katra

#4 - 16/06/2014 05:22 PM - bruno katra

- Status changed from Resolved to Closed

Bug corrigé.

Plus de warning dans les traces et verif de delta=10.5s :

1er paquet de la première salve:

18:44:27.112804, TM_LFR_SCIENCE_BURST_CWF_F2, CCSDS_VERSION_NUMBER = 0, PACKET_TYPE: TM_PACKET = 0, DATA_FIELD_HEADER_FLAG: WITH_HEADER = 1, PROCESS_ID: RPW_PID_2 = 76, PACKET_CATEGORY: PRIVATE_SCIENCE_OR_TELECOMMAND = 12, (PACKET_ID=0xcc), SEGMENTATION_GROUPING_FLAG: STANDALONE_PACKET = 3, SEQUENCE_CNT=3674, (PACKET_SEQUENCE_CONTROL=0xce5a), PACKET_LENGTH=4051, SPARE_1=0, PUS_VERSION = 1, SPARE_2=0, SERVICE_TYPE: SCIENCE_DATA_TRANSFER = 21, SERVICE_SUBTYPE: SCIENCE_REPORT = 3, DESTINATION_ID: GROUND = 0, TIME=0x8000e74ba1f, PA_LFR_SID_PKT: SC_B_CWF_F2 = 2, PA_BIA_MODE_MUX_SET: SET_0 = 0, PA_BIA_MODE_HV_ENABLED: ENABLED = 1, PA_BIA_MODE_BIAS1_ENABLED: ENABLED = 1, PA_BIA_MODE_BIAS2_ENABLED: ENABLED = 1, PA_BIA_MODE_BIAS3_ENABLED: ENABLED = 1, SPARE: 0x0, PA_LFR_ACQUISITION_TIME=0x8000e74ba1f, PA_LFR_CWF_BLK_NR=336

1er paquet de la deuxième salve:

18:44:37.612755, TM_LFR_SCIENCE_BURST_CWF_F2, CCSDS_VERSION_NUMBER = 0, PACKET_TYPE: TM_PACKET = 0, DATA_FIELD_HEADER_FLAG: WITH_HEADER = 1, PROCESS_ID: RPW_PID_2 = 76, PACKET_CATEGORY: PRIVATE_SCIENCE_OR_TELECOMMAND = 12, (PACKET_ID=0xcc), SEGMENTATION_GROUPING_FLAG: STANDALONE_PACKET = 3, SEQUENCE_CNT=3682, (PACKET_SEQUENCE_CONTROL=0xce62), PACKET_LENGTH=4051, SPARE_1=0, PUS_VERSION = 1, SPARE_2=0, SERVICE_TYPE: SCIENCE_DATA_TRANSFER = 21, SERVICE_SUBTYPE: SCIENCE_REPORT = 3, DESTINATION_ID: GROUND = 0, TIME=0x8000e7f3a1f, PA_LFR_SID_PKT: SC_B_CWF_F2 = 2, PA_BIA_MODE_MUX_SET: SET_0 = 0, PA_BIA_MODE_HV_ENABLED: ENABLED = 1, PA_BIA_MODE_BIAS1_ENABLED: ENABLED = 1, PA_BIA_MODE_BIAS2_ENABLED: ENABLED = 1, PA_BIA_MODE_BIAS3_ENABLED: ENABLED = 1, SPARE: 0x0, PA_LFR_ACQUISITION_TIME=0x8000e7f3a1f, PA_LFR_CWF_BLK_NR=336

Contexte:

LPPMON Version=0.2.2 Branch=default Changeset=835955994d5f
Carte mini-LFR: LFR-172200 dev V1.0; No série III (sans connecteurs sub-click)
Vhdl: mini-lfr_0.1.16
Soft: 1.0.0.9b (variante sur carte finale)
Brique Star-Dundee S/N 46120065.

TEST CASE = SVS_0041

RPW-SYS-MEB-LFR-ICD-00097 Issue2_Rev0
RPW-SYS-SSS-00013-LES + Annex_Release_Definition Issue2_rev1