

bKAGRA phase1 中に保存されていた DQ 信号の簡単な説明

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(1) 一般的な一般用語

- **_DQ** : RT モデル内で信号処理をしているが、そのなかで **frame** に任意のサンプルレートで保存することを決定したチャンネル。基本的に信号は **16Hz(epics)** で保存されているが、ある意味、特に重要であるチャンネルであるとも言える。

#DAQ Channels	
C00_STRAIN	16384 Strain
ERR_STRAIN	16384 Strain
CTRL_STRAIN	16384 Strain
MICH_RESIDUAL	16384 Meter
MICH_DELTA_TM	16384 Meter
MICH_DELTA_IM	16384 Meter
C00_DISPLACEMENT	16384 NanoMeter

- **IN1, EXC, IN2, OUT** : Filter bank のある部分の信号を保存していることが多い。各部分の名称は図を見て確認



- その他

(2) 256 Hz DQ signal:

- これらのチャンネルは、optical gain の楕円フィッティングをする際に、重要だけど、時系列で使用するため、そんなにサンプリング数が足りない、むしろ多すぎても似たような点多すぎるという意味で、256Hz で加えられた信号。
- Q のほうが最終的に error 信号となっている。

K1:LSC-REFLAIR_A_RF17_I_ERR_256_DQ 256

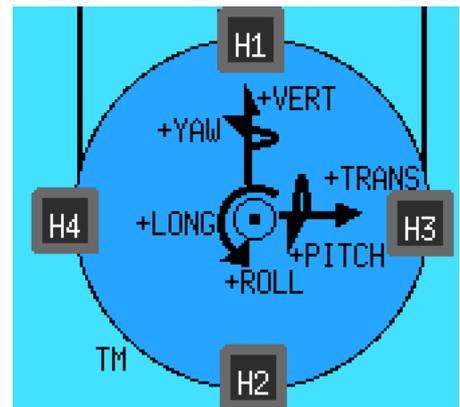
K1:LSC-REFLAIR_A_RF17_Q_ERR_256_DQ 256

K1:LSC-REFLAIR_B_LF_OUT_256_DQ 256

2048 Hz DQ signal:

- たくさんあるので理解できそうなものから順に理解していくようにする。
- **K1:VIS-**について
 - 一般用語
 - ◇ **SF** : Standard Filter

- ◇ BF : Bottom Filter
- ◇ IM : Intermediate Mass
- ◇ TM : Test Mass
- ◇ DAMP : 揺れを抑えるための damping 信号
- ◇ GAS : Geometric Anti-Spring たてばね
- ◇ ISCINF : Interferometer Sensing and control
- ◇ LVDTINF : Linear Variable Differential Transducer
- ◇ OSEMINF : Optical Sensor Electrmagnatic Motor
- ◇ OPLEV : Optical LEVer
- ◇ SEG1-4 : QPD のそれぞれ 4 つのセンサー(保存する必要ある?)
- ◇ TILT : oplev で求める傾き要素。pitch, yaw、Length 方向を求める oplev おあるが、まだ充実していなさそう。。。
- ◇ H1-H4 : magnet for horizontal axis
- ◇ V1-V3 : magnet for vertical axis
- ◇ L : Length 方向
- ◇ P : Pitch 方向
- ◇ Y : Yaw 方向
- ◇ R : Roll 方向
- ◇ T : Trans 方向
- ◇ V : Vert 方向



-
- PR2, PR3, PRM
 - ◇ 通称 Type-Bp と呼ばれる Suspension。
 - ◇ <http://gwwiki.icrr.u-tokyo.ac.jp/JGwwiki/KAGRA/Subgroups/VIS/TypeBp>
 - ◇ TM, IM, BF, SF
- IMC, MCI, MCE, MCO
 - ◇ 通称 Type-C と呼ばれる Suspension
 - ◇ (なぜか K1:IMC があるのでここで加えていく)
 - ◇ DITHER : わざと pitch と yaw 方向に揺れを加えて、角度調整を行っている。その復調(DEMOD)信号の I と Q
- IMC-IMMT1, IMC-IMMT2
 - ◇ IMMT : Input Mode Matching Telescope, laser の mode matching 用
 - IMMT1 と IMMT2 がある。その trans 光を QPD で position check & intensity stabilize している。
 - <https://gwdoc.icrr.u-tokyo.ac.jp/DocDB/0020/T1302068/003/InputMMT.pdf>

◇

➤ ETMX, ETMY, (ITMX)

➤ BS, SR2,

◇ 通称、Type-B と呼ばれる Suspension

◇ TM, IM, BF, F0, F1, IP

- K1:PSL について

K1:VIS-PR2_BF_DAMP_GAS_IN1_DQ 2048

K1:VIS-PR2_BF_DAMP_L_IN1_DQ 2048

K1:VIS-PR2_BF_DAMP_P_IN1_DQ 2048

K1:VIS-PR2_BF_DAMP_R_IN1_DQ 2048

K1:VIS-PR2_BF_DAMP_T_IN1_DQ 2048

K1:VIS-PR2_BF_DAMP_V_IN1_DQ 2048

K1:VIS-PR2_BF_DAMP_Y_IN1_DQ 2048

K1:VIS-PR2_BF_LVDTINF_GAS_IN1_DQ 2048

K1:VIS-PR2_IM_DAMP_L_IN1_DQ 2048

K1:VIS-PR2_IM_DAMP_P_IN1_DQ 2048

K1:VIS-PR2_IM_DAMP_R_IN1_DQ 2048

K1:VIS-PR2_IM_DAMP_T_IN1_DQ 2048

K1:VIS-PR2_IM_DAMP_V_IN1_DQ 2048

K1:VIS-PR2_IM_DAMP_Y_IN1_DQ 2048

K1:VIS-PR2_IM_OSEMINF_H1_IN1_DQ 2048

K1:VIS-PR2_IM_OSEMINF_H2_IN1_DQ 2048

K1:VIS-PR2_IM_OSEMINF_H3_IN1_DQ 2048

K1:VIS-PR2_IM_OSEMINF_V1_IN1_DQ 2048

K1:VIS-PR2_IM_OSEMINF_V2_IN1_DQ 2048

K1:VIS-PR2_IM_OSEMINF_V3_IN1_DQ 2048

K1:VIS-PR2_TM_DAMP_L_IN1_DQ 2048

K1:VIS-PR2_TM_DAMP_P_IN1_DQ 2048

K1:VIS-PR2_TM_DAMP_Y_IN1_DQ 2048

K1:VIS-PR2_TM_ISCINF_L_IN1_DQ 2048

K1:VIS-PR2_TM_OPLEV_LEN_DIAG_DQ 2048

K1:VIS-PR2_TM_OPLEV_LEN_SUM_OUT_DQ 2048

K1:VIS-PR2_TM_OPLEV_PIT_DIAG_DQ 2048

K1:VIS-PR2_TM_OPLEV_TILT_SUM_OUT_DQ 2048

K1:VIS-PR2_TM_OPLEV_YAW_DIAG_DQ 2048
K1:VIS-PR2_SF_DAMP_GAS_IN1_DQ 2048
K1:VIS-PR2_SF_LVDTINF_GAS_IN1_DQ 2048

K1:VIS-PR3_BF_DAMP_GAS_IN1_DQ 2048
K1:VIS-PR3_BF_DAMP_L_IN1_DQ 2048
K1:VIS-PR3_BF_DAMP_P_IN1_DQ 2048
K1:VIS-PR3_BF_DAMP_R_IN1_DQ 2048
K1:VIS-PR3_BF_DAMP_T_IN1_DQ 2048
K1:VIS-PR3_BF_DAMP_V_IN1_DQ 2048
K1:VIS-PR3_BF_DAMP_Y_IN1_DQ 2048
K1:VIS-PR3_BF_LVDTINF_GAS_IN1_DQ 2048
K1:VIS-PR3_IM_DAMP_L_IN1_DQ 2048
K1:VIS-PR3_IM_DAMP_P_IN1_DQ 2048
K1:VIS-PR3_IM_DAMP_R_IN1_DQ 2048
K1:VIS-PR3_IM_DAMP_T_IN1_DQ 2048
K1:VIS-PR3_IM_DAMP_V_IN1_DQ 2048
K1:VIS-PR3_IM_DAMP_Y_IN1_DQ 2048
K1:VIS-PR3_IM_OSEMINF_H1_IN1_DQ 2048
K1:VIS-PR3_IM_OSEMINF_H2_IN1_DQ 2048
K1:VIS-PR3_IM_OSEMINF_H3_IN1_DQ 2048
K1:VIS-PR3_IM_OSEMINF_V1_IN1_DQ 2048
K1:VIS-PR3_IM_OSEMINF_V2_IN1_DQ 2048
K1:VIS-PR3_IM_OSEMINF_V3_IN1_DQ 2048
K1:VIS-PR3_SF_DAMP_GAS_IN1_DQ 2048
K1:VIS-PR3_SF_LVDTINF_GAS_IN1_DQ 2048
K1:VIS-PR3_TM_DAMP_L_IN1_DQ 2048
K1:VIS-PR3_TM_DAMP_P_IN1_DQ 2048
K1:VIS-PR3_TM_DAMP_Y_IN1_DQ 2048
K1:VIS-PR3_TM_ISCINF_L_IN1_DQ 2048
K1:VIS-PR3_TM_OPLEV_LEN_DIAG_DQ 2048
K1:VIS-PR3_TM_OPLEV_LEN_SUM_OUT_DQ 2048
K1:VIS-PR3_TM_OPLEV_PIT_DIAG_DQ 2048
K1:VIS-PR3_TM_OPLEV_TILT_SUM_OUT_DQ 2048
K1:VIS-PR3_TM_OPLEV_YAW_DIAG_DQ 2048

K1:VIS-PRM_BF_DAMP_GAS_IN1_DQ 2048
K1:VIS-PRM_BF_DAMP_L_IN1_DQ 2048
K1:VIS-PRM_BF_DAMP_P_IN1_DQ 2048
K1:VIS-PRM_BF_DAMP_R_IN1_DQ 2048
K1:VIS-PRM_BF_DAMP_T_IN1_DQ 2048
K1:VIS-PRM_BF_DAMP_V_IN1_DQ 2048
K1:VIS-PRM_BF_DAMP_Y_IN1_DQ 2048
K1:VIS-PRM_BF_LVDTINF_GAS_IN1_DQ 2048
K1:VIS-PRM_IM_DAMP_L_IN1_DQ 2048
K1:VIS-PRM_IM_DAMP_P_IN1_DQ 2048
K1:VIS-PRM_IM_DAMP_R_IN1_DQ 2048
K1:VIS-PRM_IM_DAMP_T_IN1_DQ 2048
K1:VIS-PRM_IM_DAMP_V_IN1_DQ 2048
K1:VIS-PRM_IM_DAMP_Y_IN1_DQ 2048
K1:VIS-PRM_IM_OSEMINF_H1_IN1_DQ 2048
K1:VIS-PRM_IM_OSEMINF_H2_IN1_DQ 2048
K1:VIS-PRM_IM_OSEMINF_H3_IN1_DQ 2048
K1:VIS-PRM_IM_OSEMINF_V1_IN1_DQ 2048
K1:VIS-PRM_IM_OSEMINF_V2_IN1_DQ 2048
K1:VIS-PRM_IM_OSEMINF_V3_IN1_DQ 2048
K1:VIS-PRM_SF_DAMP_GAS_IN1_DQ 2048
K1:VIS-PRM_SF_LVDTINF_GAS_IN1_DQ 2048
K1:VIS-PRM_TM_DAMP_L_IN1_DQ 2048
K1:VIS-PRM_TM_DAMP_P_IN1_DQ 2048
K1:VIS-PRM_TM_DAMP_Y_IN1_DQ 2048
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K1:VIS-PRM_TM_OPLEV_TILT_SUM_OUT_DQ 2048
K1:VIS-PRM_TM_OPLEV_YAW_DIAG_DQ 2048
K1:VIS-MCI_TM_ISCINF_L_IN1_DQ 2048
K1:VIS-MCI_TM_OPLEV_PIT_OUT_DQ 2048
K1:VIS-MCI_TM_OPLEV_SEG1_IN1_DQ 2048
K1:VIS-MCI_TM_OPLEV_SEG2_IN1_DQ 2048

K1:VIS-MCI_TM_OPLEV_SEG3_IN1_DQ 2048
K1:VIS-MCI_TM_OPLEV_SEG4_IN1_DQ 2048
K1:VIS-MCI_TM_OPLEV_SUM_OUT_DQ 2048
K1:VIS-MCI_TM_OPLEV_YAW_OUT_DQ 2048
K1:VIS-MCE_TM_ISCINF_L_IN1_DQ 2048
K1:VIS-MCE_TM_OPLEV_PIT_OUT_DQ 2048
K1:VIS-MCE_TM_OPLEV_SEG1_IN1_DQ 2048
K1:VIS-MCE_TM_OPLEV_SEG2_IN1_DQ 2048
K1:VIS-MCE_TM_OPLEV_SEG3_IN1_DQ 2048
K1:VIS-MCE_TM_OPLEV_SEG4_IN1_DQ 2048
K1:VIS-MCE_TM_OPLEV_SUM_OUT_DQ 2048
K1:VIS-MCE_TM_OPLEV_YAW_OUT_DQ 2048
K1:VIS-MCO_TM_ISCINF_L_IN1_DQ 2048
K1:VIS-MCO_TM_OPLEV_PIT_OUT_DQ 2048
K1:VIS-MCO_TM_OPLEV_SEG1_IN1_DQ 2048
K1:VIS-MCO_TM_OPLEV_SEG2_IN1_DQ 2048
K1:VIS-MCO_TM_OPLEV_SEG3_IN1_DQ 2048
K1:VIS-MCO_TM_OPLEV_SEG4_IN1_DQ 2048
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K1:VIS-MCO_TM_OPLEV_YAW_OUT_DQ 2048
K1:VIS-MCE_TM_TILT_PIT_IN1_DQ 2048
K1:VIS-MCE_TM_TILT_PIT_OUT_DQ 2048
K1:VIS-MCE_TM_TILT_PIT_OUTF_OUT_DQ 2048
K1:VIS-MCE_TM_TILT_SENSINF_PIT_I_IN1_DQ 2048
K1:VIS-MCE_TM_TILT_SENSINF_PIT_I_OUT_DQ 2048
K1:VIS-MCE_TM_TILT_SENSINF_PIT_Q_IN1_DQ 2048
K1:VIS-MCE_TM_TILT_SENSINF_PIT_Q_OUT_DQ 2048
K1:VIS-MCE_TM_TILT_SENSINF_YAW_I_IN1_DQ 2048
K1:VIS-MCE_TM_TILT_SENSINF_YAW_I_OUT_DQ 2048
K1:VIS-MCE_TM_TILT_SENSINF_YAW_Q_IN1_DQ 2048
K1:VIS-MCE_TM_TILT_SENSINF_YAW_Q_OUT_DQ 2048
K1:VIS-MCE_TM_TILT_YAW_IN1_DQ 2048
K1:VIS-MCE_TM_TILT_YAW_OUT_DQ 2048
K1:VIS-MCE_TM_TILT_YAW_OUTF_OUT_DQ 2048
K1:PSL-IP_QPD1_DC_PIT_OUT_DQ 2048

K1:PSL-IP_QPD1_DC_SEG1_IN1_DQ 2048
K1:PSL-IP_QPD1_DC_SEG2_IN1_DQ 2048
K1:PSL-IP_QPD1_DC_SEG3_IN1_DQ 2048
K1:PSL-IP_QPD1_DC_SEG4_IN1_DQ 2048
K1:PSL-IP_QPD1_DC_YAW_OUT_DQ 2048
K1:PSL-IP_QPD2_DC_PIT_OUT_DQ 2048
K1:PSL-IP_QPD2_DC_SEG1_IN1_DQ 2048
K1:PSL-IP_QPD2_DC_SEG2_IN1_DQ 2048
K1:PSL-IP_QPD2_DC_SEG3_IN1_DQ 2048
K1:PSL-IP_QPD2_DC_SEG4_IN1_DQ 2048
K1:PSL-IP_QPD2_DC_YAW_OUT_DQ 2048
K1:PSL-ISS_1ST_OUT1_CON_IN_DQ 2048
K1:PSL-ISS_1ST_OUT1_CON_OUT_DQ 2048
K1:PSL-ISS_1ST_OUT2_CON_IN_DQ 2048
K1:PSL-ISS_1ST_OUT2_CON_OUT_DQ 2048
K1:PSL-ISS_2ND_OUT1_CON_IN_DQ 2048
K1:PSL-ISS_2ND_OUT1_CON_OUT_DQ 2048
K1:PSL-ISS_2ND_OUT2_CON_IN_DQ 2048
K1:PSL-ISS_2ND_OUT2_CON_OUT_DQ 2048
K1:PSL-ISS_2ND_PD_MON_CON_IN_DQ 2048
K1:PSL-ISS_2ND_PD_MON_CON_OUT_DQ 2048
K1:PSL-ISS_AOM_MON_CON_IN_DQ 2048
K1:PSL-ISS_AOM_MON_CON_OUT_DQ 2048
K1:PSL-ISS_PDA_MON_CON_OUT_DQ 2048
K1:PSL-ISS_PDB_MON_CON_OUT_DQ 2048
K1:PSL-ISS_SERVO_REF_SIG_CON_IN_DQ 2048
K1:PSL-ISS_SERVO_REF_SIG_CON_OUT_DQ 2048
K1:PSL-PMC_FAST_MON_OUT_DQ 2048
K1:PSL-PMC_MIXER_OUT_DQ 2048
K1:PSL-PMC_REFL_DC_OUT_DQ 2048
K1:PSL-PMC_SLOW_MON_OUT_DQ 2048
K1:PSL-PMC_TRANS_DC_OUT_DQ 2048
K1:PSL-TTFSS_COM_OUT1_CON_IN_DQ 2048
K1:PSL-TTFSS_COM_OUT1_CON_OUT_DQ 2048
K1:PSL-TTFSS_COM_OUT2_CON_IN_DQ 2048

K1:PSL-TTFSS_COM_OUT2_CON_OUT_DQ 2048
K1:PSL-TTFSS_EOM_MON_CON_IN_DQ 2048
K1:PSL-TTFSS_EOM_MON_CON_OUT_DQ 2048
K1:PSL-TTFSS_EXC_COM_CON_IN_DQ 2048
K1:PSL-TTFSS_EXC_COM_CON_OUT_DQ 2048
K1:PSL-TTFSS_EXC_PZT_CON_IN_DQ 2048
K1:PSL-TTFSS_EXC_PZT_CON_OUT_DQ 2048
K1:PSL-TTFSS_EXC_TEST_CON_IN_DQ 2048
K1:PSL-TTFSS_EXC_TEST_CON_OUT_DQ 2048
K1:PSL-TTFSS_FAST_OUT1_CON_IN_DQ 2048
K1:PSL-TTFSS_FAST_OUT1_CON_OUT_DQ 2048
K1:PSL-TTFSS_FAST_OUT2_CON_IN_DQ 2048
K1:PSL-TTFSS_FAST_OUT2_CON_OUT_DQ 2048
K1:PSL-TTFSS_MIXER_MON_CON_IN_DQ 2048
K1:PSL-TTFSS_MIXER_MON_CON_OUT_DQ 2048
K1:PSL-TTFSS_PZT_MON_CON_IN_DQ 2048
K1:PSL-TTFSS_PZT_MON_CON_OUT_DQ 2048
K1:PSL-TTFSS_TEMP_FILTER_IN1_DQ 2048
K1:PSL-TTFSS_TEMP_FILTER_OUT_DQ 2048
K1:PSL-TTFSS_TEMP_MON_CON_IN_DQ 2048
K1:PSL-TTFSS_TEMP_MON_CON_OUT_DQ 2048
K1:IMC-DITHER_DITHER_PIT_MCE_DEMOD_I_IN1_DQ 2048
K1:IMC-DITHER_DITHER_PIT_MCE_DEMOD_I_OUT_DQ 2048
K1:IMC-DITHER_DITHER_PIT_MCE_DEMOD_Q_IN1_DQ 2048
K1:IMC-DITHER_DITHER_PIT_MCE_DEMOD_Q_OUT_DQ 2048
K1:IMC-DITHER_DITHER_PIT_MCI_DEMOD_I_IN1_DQ 2048
K1:IMC-DITHER_DITHER_PIT_MCI_DEMOD_I_OUT_DQ 2048
K1:IMC-DITHER_DITHER_PIT_MCI_DEMOD_Q_IN1_DQ 2048
K1:IMC-DITHER_DITHER_PIT_MCI_DEMOD_Q_OUT_DQ 2048
K1:IMC-DITHER_DITHER_PIT_MCO_DEMOD_I_IN1_DQ 2048
K1:IMC-DITHER_DITHER_PIT_MCO_DEMOD_I_OUT_DQ 2048
K1:IMC-DITHER_DITHER_PIT_MCO_DEMOD_Q_IN1_DQ 2048
K1:IMC-DITHER_DITHER_PIT_MCO_DEMOD_Q_OUT_DQ 2048
K1:IMC-DITHER_DITHER_YAW_MCE_DEMOD_I_IN1_DQ 2048
K1:IMC-DITHER_DITHER_YAW_MCE_DEMOD_I_OUT_DQ 2048

K1:IMC-DITHER_DITHER_YAW_MCE_DEMOD_Q_IN1_DQ 2048
K1:IMC-DITHER_DITHER_YAW_MCE_DEMOD_Q_OUT_DQ 2048
K1:IMC-DITHER_DITHER_YAW_MCI_DEMOD_I_IN1_DQ 2048
K1:IMC-DITHER_DITHER_YAW_MCI_DEMOD_I_OUT_DQ 2048
K1:IMC-DITHER_DITHER_YAW_MCI_DEMOD_Q_IN1_DQ 2048
K1:IMC-DITHER_DITHER_YAW_MCI_DEMOD_Q_OUT_DQ 2048
K1:IMC-DITHER_DITHER_YAW_MCO_DEMOD_I_IN1_DQ 2048
K1:IMC-DITHER_DITHER_YAW_MCO_DEMOD_I_OUT_DQ 2048
K1:IMC-DITHER_DITHER_YAW_MCO_DEMOD_Q_IN1_DQ 2048
K1:IMC-DITHER_DITHER_YAW_MCO_DEMOD_Q_OUT_DQ 2048
K1:IMC-MCL_SERVO_IN2_DQ 2048
K1:IMC-MCL_SERVO_OUT_DQ 2048
K1:IMC-SERVO_ATEST1_CON_IN_DQ 2048
K1:IMC-SERVO_ATEST1_CON_OUT_DQ 2048
K1:IMC-SERVO_ATEST2_CON_IN_DQ 2048
K1:IMC-SERVO_ATEST2_CON_OUT_DQ 2048
K1:IMC-SERVO_BTEST1_CON_IN_DQ 2048
K1:IMC-SERVO_BTEST1_CON_OUT_DQ 2048
K1:IMC-SERVO_BTEST2_CON_IN_DQ 2048
K1:IMC-SERVO_BTEST2_CON_OUT_DQ 2048
K1:IMC-SERVO_FAST_CON_IN_DQ 2048
K1:IMC-SERVO_FAST_CON_OUT_DQ 2048
K1:IMC-SERVO_FAST_MON_CON_IN_DQ 2048
K1:IMC-SERVO_FAST_MON_CON_OUT_DQ 2048
K1:IMC-SERVO_MIXER_CON_IN_DQ 2048
K1:IMC-SERVO_MIXER_CON_OUT_DQ 2048
K1:IMC-SERVO_OUT2_CON_IN_DQ 2048
K1:IMC-SERVO_OUT2_CON_OUT_DQ 2048
K1:IMC-SERVO_SLOWFB_MON_CON_IN_DQ 2048
K1:IMC-SERVO_SLOWFB_MON_CON_OUT_DQ 2048
K1:IMC-SERVO_SLOW_CON_IN_DQ 2048
K1:IMC-SERVO_SLOW_CON_OUT_DQ 2048
K1:IMC-SERVO_SLOW_MON_CON_IN_DQ 2048
K1:IMC-SERVO_SLOW_MON_CON_OUT_DQ 2048
K1:IMC-SERVO_SPLIT_MON_CON_IN_DQ 2048

K1:IMC-SERVO_SPLIT_MON_CON_OUT_DQ 2048
K1:IMC-SERVO_SUM_MON_CON_IN_DQ 2048
K1:IMC-SERVO_SUM_MON_CON_OUT_DQ 2048
K1:IMC-DOF1_P_IN1_DQ 2048
K1:IMC-DOF1_Y_IN1_DQ 2048
K1:IMC-DOF2_P_IN1_DQ 2048
K1:IMC-DOF2_Y_IN1_DQ 2048
K1:IMC-DOF3_P_IN1_DQ 2048
K1:IMC-DOF3_Y_IN1_DQ 2048
K1:IMC-DOF4_P_IN1_DQ 2048
K1:IMC-DOF4_Y_IN1_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA1_DC_PIT_OUT_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA1_DC_SEG1_IN1_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA1_DC_SEG2_IN1_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA1_DC_SEG3_IN1_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA1_DC_SEG4_IN1_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA1_DC_SUM_IN1_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA1_DC_SUM_OUT_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA1_DC_YAW_OUT_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA2_DC_PIT_OUT_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA2_DC_SEG1_IN1_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA2_DC_SEG2_IN1_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA2_DC_SEG3_IN1_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA2_DC_SEG4_IN1_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA2_DC_SUM_IN1_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA2_DC_SUM_OUT_DQ 2048
K1:IMC-IMMT1_TRANS_QPDA2_DC_YAW_OUT_DQ 2048
K1:IMC-MCE_PIT_OUT_DQ 2048
K1:IMC-MCE_TRANS_QPDA1_DC_PIT_OUT_DQ 2048
K1:IMC-MCE_TRANS_QPDA1_DC_SEG1_IN1_DQ 2048
K1:IMC-MCE_TRANS_QPDA1_DC_SEG2_IN1_DQ 2048
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K1:IMC-MCE_TRANS_QPDA1_DC_SEG4_IN1_DQ 2048
K1:IMC-MCE_TRANS_QPDA1_DC_SUM_IN1_DQ 2048
K1:IMC-MCE_TRANS_QPDA1_DC_SUM_OUT_DQ 2048

K1:IMC-MCE_TRANS_QPDA1_DC_YAW_OUT_DQ 2048
K1:IMC-MCE_TRANS_QPDA2_DC_PIT_OUT_DQ 2048
K1:IMC-MCE_TRANS_QPDA2_DC_SEG1_IN1_DQ 2048
K1:IMC-MCE_TRANS_QPDA2_DC_SEG2_IN1_DQ 2048
K1:IMC-MCE_TRANS_QPDA2_DC_SEG3_IN1_DQ 2048
K1:IMC-MCE_TRANS_QPDA2_DC_SEG4_IN1_DQ 2048
K1:IMC-MCE_TRANS_QPDA2_DC_SUM_IN1_DQ 2048
K1:IMC-MCE_TRANS_QPDA2_DC_SUM_OUT_DQ 2048
K1:IMC-MCE_TRANS_QPDA2_DC_YAW_OUT_DQ 2048
K1:IMC-MCE_YAW_OUT_DQ 2048
K1:IMC-MCI_PIT_OUT_DQ 2048
K1:IMC-MCI_YAW_OUT_DQ 2048
K1:IMC-MCO_PIT_OUT_DQ 2048
K1:IMC-MCO_YAW_OUT_DQ 2048
K1:IMC-PWR_IN_OUT_DQ 2048
K1:IMC-PZT_PIT_OUT_DQ 2048
K1:IMC-PZT_YAW_OUT_DQ 2048
K1:IMC-REFL_QPDA1_DC_PIT_OUT_DQ 2048
K1:IMC-REFL_QPDA1_DC_SEG1_IN1_DQ 2048
K1:IMC-REFL_QPDA1_DC_SEG2_IN1_DQ 2048
K1:IMC-REFL_QPDA1_DC_SEG3_IN1_DQ 2048
K1:IMC-REFL_QPDA1_DC_SEG4_IN1_DQ 2048
K1:IMC-REFL_QPDA1_DC_SUM_OUT_DQ 2048
K1:IMC-REFL_QPDA1_DC_YAW_OUT_DQ 2048
K1:IMC-REFL_QPDA1_RF17_I1_ERR_DQ 2048
K1:IMC-REFL_QPDA1_RF17_I1_IN1_DQ 2048
K1:IMC-REFL_QPDA1_RF17_I2_ERR_DQ 2048
K1:IMC-REFL_QPDA1_RF17_I2_IN1_DQ 2048
K1:IMC-REFL_QPDA1_RF17_I3_ERR_DQ 2048
K1:IMC-REFL_QPDA1_RF17_I3_IN1_DQ 2048
K1:IMC-REFL_QPDA1_RF17_I4_ERR_DQ 2048
K1:IMC-REFL_QPDA1_RF17_I4_IN1_DQ 2048
K1:IMC-REFL_QPDA1_RF17_I_PIT_OUT_DQ 2048
K1:IMC-REFL_QPDA1_RF17_I_YAW_OUT_DQ 2048
K1:IMC-REFL_QPDA1_RF17_Q1_ERR_DQ 2048

K1:IMC-REFL_QPDA1_RF17_Q1_IN1_DQ 2048
K1:IMC-REFL_QPDA1_RF17_Q2_ERR_DQ 2048
K1:IMC-REFL_QPDA1_RF17_Q2_IN1_DQ 2048
K1:IMC-REFL_QPDA1_RF17_Q3_ERR_DQ 2048
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K1:IMC-REFL_QPDA1_RF17_Q4_ERR_DQ 2048
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K1:IMC-REFL_QPDA2_DC_SEG1_IN1_DQ 2048
K1:IMC-REFL_QPDA2_DC_SEG2_IN1_DQ 2048
K1:IMC-REFL_QPDA2_DC_SEG3_IN1_DQ 2048
K1:IMC-REFL_QPDA2_DC_SEG4_IN1_DQ 2048
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K1:A0S-IYC_WAB_OUTF_YAW_OUT_DQ 2048
K1:A0S-IYC_WAB_OUTF_Y_OUT_DQ 2048
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K1:PEM-EX0_SENSOR11_OUT_DQ 2048
K1:PEM-EX0_SENSOR12_OUT_DQ 2048

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K1:PEM-EX0_SENSOR2_OUT_DQ 2048
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K1:VIS-ETMY_TM_OPLEV_LEN_YAW_OUT_DQ 2048
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K1:VIS-ETMX_BF_DAMP_P_IN1_DQ 2048
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K1:VIS-ETMX_BF_DAMP_V_IN1_DQ 2048
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K1:VIS-ETMX_IM_PSINF_H3_IN1_DQ 2048
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K1:VIS-ETMX_IP_BLEND_ACCL_IN1_DQ 2048
K1:VIS-ETMX_IP_BLEND_ACCT_IN1_DQ 2048
K1:VIS-ETMX_IP_BLEND_ACCY_IN1_DQ 2048
K1:VIS-ETMX_IP_BLEND_LVDTL_IN1_DQ 2048
K1:VIS-ETMX_IP_BLEND_LVDTT_IN1_DQ 2048
K1:VIS-ETMX_IP_BLEND_LVDTY_IN1_DQ 2048
K1:VIS-ETMX_IP_DAMP_L_IN1_DQ 2048
K1:VIS-ETMX_IP_DAMP_T_IN1_DQ 2048
K1:VIS-ETMX_IP_DAMP_Y_IN1_DQ 2048
K1:VIS-ETMX_MN_DAMP_L_IN1_DQ 2048
K1:VIS-ETMX_MN_DAMP_P_IN1_DQ 2048
K1:VIS-ETMX_MN_DAMP_R_IN1_DQ 2048
K1:VIS-ETMX_MN_DAMP_T_IN1_DQ 2048
K1:VIS-ETMX_MN_DAMP_V_IN1_DQ 2048
K1:VIS-ETMX_MN_DAMP_Y_IN1_DQ 2048
K1:VIS-ETMX_MN_OPLEV_TILT_PIT_OUT_DQ 2048
K1:VIS-ETMX_MN_OPLEV_TILT_SUM_OUT_DQ 2048
K1:VIS-ETMX_MN_OPLEV_TILT_YAW_OUT_DQ 2048
K1:VIS-ETMX_TM_OPLEV_LEN_PIT_OUT_DQ 2048
K1:VIS-ETMX_TM_OPLEV_LEN_SUM_OUT_DQ 2048
K1:VIS-ETMX_TM_OPLEV_LEN_YAW_OUT_DQ 2048
K1:VIS-ETMX_TM_OPLEV_TILT_PIT_OUT_DQ 2048
K1:VIS-ETMX_TM_OPLEV_TILT_SUM_OUT_DQ 2048
K1:VIS-ETMX_TM_OPLEV_TILT_YAW_OUT_DQ 2048
K1:PEM-EY1_SEIS_NS_BLRMS_HI_OUT_DQ 2048
K1:PEM-EY1_SEIS_NS_BLRMS_LOW_OUT_DQ 2048
K1:PEM-EY1_SEIS_NS_BLRMS_MID_OUT_DQ 2048
K1:PEM-EY1_SEIS_NS_SENSINF_IN1_DQ 2048

K1:PEM-EY1_SEIS_NS_SENSINF_OUT_DQ 2048
K1:PEM-EY1_SEIS_WE_BLRMS_HI_OUT_DQ 2048
K1:PEM-EY1_SEIS_WE_BLRMS_LOW_OUT_DQ 2048
K1:PEM-EY1_SEIS_WE_BLRMS_MID_OUT_DQ 2048
K1:PEM-EY1_SEIS_WE_SENSINF_IN1_DQ 2048
K1:PEM-EY1_SEIS_WE_SENSINF_OUT_DQ 2048
K1:PEM-EY1_SEIS_Z_BLRMS_HI_OUT_DQ 2048
K1:PEM-EY1_SEIS_Z_BLRMS_LOW_OUT_DQ 2048
K1:PEM-EY1_SEIS_Z_BLRMS_MID_OUT_DQ 2048
K1:PEM-EY1_SEIS_Z_SENSINF_IN1_DQ 2048
K1:PEM-EY1_SEIS_Z_SENSINF_OUT_DQ 2048
K1:PEM-EY1_SENSOR1_OUT_DQ 2048
K1:PEM-EY1_SENSOR2_OUT_DQ 2048
K1:PEM-EY1_SENSOR3_OUT_DQ 2048
K1:PEM-EY1_SENSOR4_OUT_DQ 2048
K1:VIS-ITMX_BF_DAMP_GAS_IN1_DQ 2048
K1:VIS-ITMX_BF_DAMP_L_IN1_DQ 2048
K1:VIS-ITMX_BF_DAMP_P_IN1_DQ 2048
K1:VIS-ITMX_BF_DAMP_R_IN1_DQ 2048
K1:VIS-ITMX_BF_DAMP_T_IN1_DQ 2048
K1:VIS-ITMX_BF_DAMP_V_IN1_DQ 2048
K1:VIS-ITMX_BF_DAMP_Y_IN1_DQ 2048
K1:VIS-ITMX_BF_LVDTINF_GAS_IN1_DQ 2048
K1:VIS-ITMX_DP_GEO_CH1_IN1_DQ 2048
K1:VIS-ITMX_DP_GEO_CH2_IN1_DQ 2048
K1:VIS-ITMX_F0_DAMP_GAS_IN1_DQ 2048
K1:VIS-ITMX_F0_LVDTINF_GAS_IN1_DQ 2048
K1:VIS-ITMX_F1_DAMP_GAS_IN1_DQ 2048
K1:VIS-ITMX_F1_LVDTINF_GAS_IN1_DQ 2048
K1:VIS-ITMX_F2_DAMP_GAS_IN1_DQ 2048
K1:VIS-ITMX_F2_LVDTINF_GAS_IN1_DQ 2048
K1:VIS-ITMX_F3_DAMP_GAS_IN1_DQ 2048
K1:VIS-ITMX_F3_LVDTINF_GAS_IN1_DQ 2048
K1:VIS-ITMX_IM_DAMP_L_IN1_DQ 2048
K1:VIS-ITMX_IM_DAMP_P_IN1_DQ 2048

K1:VIS-ITMX_IM_DAMP_R_IN1_DQ 2048
K1:VIS-ITMX_IM_DAMP_T_IN1_DQ 2048
K1:VIS-ITMX_IM_DAMP_V_IN1_DQ 2048
K1:VIS-ITMX_IM_DAMP_Y_IN1_DQ 2048
K1:VIS-ITMX_IM_PSINF_H1_IN1_DQ 2048
K1:VIS-ITMX_IM_PSINF_H2_IN1_DQ 2048
K1:VIS-ITMX_IM_PSINF_H3_IN1_DQ 2048
K1:VIS-ITMX_IM_PSINF_V1_IN1_DQ 2048
K1:VIS-ITMX_IM_PSINF_V2_IN1_DQ 2048
K1:VIS-ITMX_IM_PSINF_V3_IN1_DQ 2048
K1:VIS-ITMX_IP_BLEND_ACCL_IN1_DQ 2048
K1:VIS-ITMX_IP_BLEND_ACCT_IN1_DQ 2048
K1:VIS-ITMX_IP_BLEND_ACCY_IN1_DQ 2048
K1:VIS-ITMX_IP_BLEND_LVDTL_IN1_DQ 2048
K1:VIS-ITMX_IP_BLEND_LVDTT_IN1_DQ 2048
K1:VIS-ITMX_IP_BLEND_LVDTY_IN1_DQ 2048
K1:VIS-ITMX_IP_DAMP_L_IN1_DQ 2048
K1:VIS-ITMX_IP_DAMP_T_IN1_DQ 2048
K1:VIS-ITMX_IP_DAMP_Y_IN1_DQ 2048
K1:VIS-ITMX_MN_DAMP_L_IN1_DQ 2048
K1:VIS-ITMX_MN_DAMP_P_IN1_DQ 2048
K1:VIS-ITMX_MN_DAMP_R_IN1_DQ 2048
K1:VIS-ITMX_MN_DAMP_T_IN1_DQ 2048
K1:VIS-ITMX_MN_DAMP_V_IN1_DQ 2048
K1:VIS-ITMX_MN_DAMP_Y_IN1_DQ 2048
K1:VIS-ITMX_TM_OPLEV_LEN_PIT_OUT_DQ 2048
K1:VIS-ITMX_TM_OPLEV_LEN_SUM_OUT_DQ 2048
K1:VIS-ITMX_TM_OPLEV_LEN_YAW_OUT_DQ 2048
K1:VIS-ITMX_TM_OPLEV_TILT_PIT_OUT_DQ 2048
K1:VIS-ITMX_TM_OPLEV_TILT_SUM_OUT_DQ 2048
K1:VIS-ITMX_TM_OPLEV_TILT_YAW_OUT_DQ 2048
K1:PEM-EY0_SENSOR10_OUT_DQ 2048
K1:PEM-EY0_SENSOR11_OUT_DQ 2048
K1:PEM-EY0_SENSOR1_OUT_DQ 2048
K1:PEM-EY0_SENSOR2_OUT_DQ 2048

K1:PEM-EY0_SENSOR3_OUT_DQ 2048
K1:PEM-EY0_SENSOR4_OUT_DQ 2048
K1:PEM-EY0_SENSOR5_OUT_DQ 2048
K1:PEM-EY0_SENSOR6_OUT_DQ 2048
K1:PEM-EY0_SENSOR7_OUT_DQ 2048
K1:PEM-EY0_SENSOR8_OUT_DQ 2048
K1:PEM-EY0_SENSOR9_OUT_DQ 2048
K1:A0S-TMSY_GR_QPD1_PIT_OUT_DQ 2048
K1:A0S-TMSY_GR_QPD1_SEG1_IN1_DQ 2048
K1:A0S-TMSY_GR_QPD1_SEG2_IN1_DQ 2048
K1:A0S-TMSY_GR_QPD1_SEG3_IN1_DQ 2048
K1:A0S-TMSY_GR_QPD1_SEG4_IN1_DQ 2048
K1:A0S-TMSY_GR_QPD1_SUM_OUT_DQ 2048
K1:A0S-TMSY_GR_QPD1_YAW_OUT_DQ 2048
K1:A0S-TMSY_GR_QPD2_PIT_OUT_DQ 2048
K1:A0S-TMSY_GR_QPD2_SEG1_IN1_DQ 2048
K1:A0S-TMSY_GR_QPD2_SEG2_IN1_DQ 2048
K1:A0S-TMSY_GR_QPD2_SEG3_IN1_DQ 2048
K1:A0S-TMSY_GR_QPD2_SEG4_IN1_DQ 2048
K1:A0S-TMSY_GR_QPD2_SUM_OUT_DQ 2048
K1:A0S-TMSY_GR_QPD2_YAW_OUT_DQ 2048

16384 :

K1:PSL-ISS_PDA_MON_CON_IN_DQ 16384
K1:PSL-ISS_PDB_MON_CON_IN_DQ 16384
K1:PSL-REFCAV_ERR_CON_IN_DQ 16384
K1:PSL-REFCAV_ERR_CON_OUT_DQ 16384
K1:PSL-REFCAV_OPGAIN_CAL_IN1_DQ 16384
K1:PSL-REFCAV_OPGAIN_CAL_OUT_DQ 16384
K1:PSL-REFCAV_REFL_CON_IN_DQ 16384
K1:PSL-REFCAV_REFL_CON_OUT_DQ 16384
K1:PSL-REFCAV_TRANS_CON_IN_DQ 16384
K1:PSL-REFCAV_TRANS_CON_OUT_DQ 16384
K1:IMC-CAV_ERR_CON_IN_DQ 16384
K1:IMC-CAV_ERR_CON_OUT_DQ 16384

K1:IMC-CAV_OPGAIN_CAL_IN1_DQ 16384
K1:IMC-CAV_OPGAIN_CAL_OUT_DQ 16384
K1:IMC-CAV_REFL_CON_IN_DQ 16384
K1:IMC-CAV_REFL_CON_OUT_DQ 16384
K1:IMC-CAV_TRANS_CON_IN_DQ 16384
K1:IMC-CAV_TRANS_CON_OUT_DQ 16384
K1:LSC-MICH1_IN1_DQ 16384
K1:LSC-MICH1_OUT_DQ 16384
K1:LSC-REFLAIR_A_LF_IN1_DQ 16384
K1:LSC-REFLAIR_A_LF_OUT_DQ 16384
K1:LSC-REFLAIR_A_RF17_I_ERR_DQ 16384
K1:LSC-REFLAIR_A_RF17_I_IN1_DQ 16384
K1:LSC-REFLAIR_A_RF17_I_OUT_DQ 16384
K1:LSC-REFLAIR_A_RF17_Q_ERR_DQ 16384
K1:LSC-REFLAIR_A_RF17_Q_IN1_DQ 16384
K1:LSC-REFLAIR_A_RF17_Q_OUT_DQ 16384
K1:LSC-REFLAIR_B_LF_IN1_DQ 16384
K1:LSC-REFLAIR_B_LF_OUT_DQ 16384
K1:CAL-PCAL_EY_1_PD_OFS_V_DQ 16384
K1:CAL-PCAL_EY_1_PD_RX_V_DQ 16384
K1:CAL-PCAL_EY_1_PD_TX_V_DQ 16384
K1:CAL-PCAL_EY_2_OFS_TAOM_V_DQ 16384
K1:CAL-PCAL_EY_2_PD_OFS_V_DQ 16384
K1:CAL-PCAL_EY_2_PD_RX_V_DQ 16384
K1:CAL-PCAL_EY_2_PD_TX_V_DQ 16384
K1:CAL-CS_CALHWI_HARDWARE_DQ 16384
K1:CAL-CS_PROC_C00_DISPLACEMENT_DQ 16384
K1:CAL-CS_PROC_C00_STRAIN_DQ 16384
K1:CAL-CS_PROC_CTRL_STRAIN_DQ 16384
K1:CAL-CS_PROC_ERR_STRAIN_DQ 16384
K1:CAL-CS_PROC_MICH_DELTA_IM_DQ 16384
K1:CAL-CS_PROC_MICH_DELTA_TM_DQ 16384
K1:CAL-CS_PROC_MICH_RESIDUAL_DQ 16384