



Evaluation

CAN_Marathon_L.vi

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\CAN_Marathon_L.vi

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CAN_Marathon_L.vi

Файл настроек
C:\Program Files (x86)\CAN_Marathon\Test\data\Config.ini

Управление **Индикация** Stop

Настройки

Can-Карта: 0
Сан-канал № 1: 0
Can-Baud: 1M
Can-Flags: CAN 11&29 bit-ID
ACode-Фильтр: 0032
AMask-Фильтр: 00000000
Tx-Can: 0
Rx-Can: 0

id	046
data[0]	7F
data[1]	E5
data[2]	10
data[3]	00
data[4]	00
data[5]	00
data[6]	0C
data[7]	86
len	8
flags	0000
ts	00000000

flags: 0x00xx 0 - RTR, 1-SFF, 4-EFF

Зажиг.(Кл.15)
Упр. удал.
Вкл.

М min, [Нм]: -50
Град. М max, [Нм/с]: 4000
М max, [Нм]: 50
Порог управл. демпф. М, [Нм]: 0,1
i - редуктора: 9,78
Статус ключей инв.

1 - своб. вращение

Режим работы: 1 - энергосбереж.
n, [об/мин]: -1 (п-статус)
M, [Нм]: -1,0 (M-статус)
Мдейств., [Нм]: 12,5 (Демпф. вкл.)
Udc, [В]: 0,0
Idc, [А]: 0,0
Pe dc, [Вт]: -0,5
Демпф. У
Демпф. внутр. и внеш.
Тормоза
TCS выкл.
Коробка скоростей
P - парковка: 1
Режим управления
Выключить привод: 0

Is, [А]: 0,0
Isd, [А]: 0,0
Isc, [А]: 0,0
Isq, [А]: 0,0
Isqd, [А]: 0,0

АМПЕРМАГНИТ

LabVIEW Ver. 1.2.0.0

T IGBT-U, [°C]: 16	T охл. жидк., [°C]: 0
T IGBT-V, [°C]: 16	T статора NTC1, [°C]: 0
T IGBT-W, [°C]: 16	T статора NTC2, [°C]: 0
T макс. IGBT, [°C]: 0	T статора, [°C]: 18
IGBT темп. коэф. U: 0	Темп. коэф. статора: 0
IGBT темп. коэф. V: 0	Temп. мотора: 0 - нормальная
IGBT темп. коэф. W: 0	
IGBT макс. темп. коэф.: 0	

T макс. статора, [°C]: 85
n max, [1/мин]: 1000

CAN Errs Out:
ewl: 0
boff: 0
hwovr: 0
swovr: 0
wtout: 0

NATIONAL INSTRUMENTS
LabVIEW™ Evaluation Software

[H6] n, [об/мин][ns]

[H6] M, [Нм][Ms]

[TF] CAN Stop[Stop]

[U8] Can-Карта[Can-Board]

unsigned char



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- U16** Can-Baud
- U32** AMask-Фильтр[AMask]
- U32** ACode-Фильтр[ACode]
- U8** Can-Flags
- TF** Tab Control
- TF** angle_vs_speed[angle_vs_speed]
- TF** spvm/sin_cos[spvm/sin_cos]
- TF** speed/torque_mode[speed/torque_mode]
- TF** mode_angle_pll[mode_angle_pll]
- TF** mode_linear_angle[mode_linear_angle]
- TF** mode_enable_Id[mode_enable_Id]
- TF** mode_i/torque[mode_i/torque]
- TF** mode_debug/car[mode_debug/car]
- TF** fix/dif_pi_k_fapch[fix_dif_pi_k_fapch]
- TF** use_piout/abs_udq[use_piout_abs_udq]
- TF** ena_oscil[ena_oscil]
- TF** ena_dt[ena_dt]
- TF** mode_fix_angle[mode_fix_angle]
- TF** mode_different_fase[mode_different_fase]
- TF** mode_ignore_Uin[mode_ignore_Uin]
- TF** diz_fil_f_w[diz_fil_f_w]
- U8** Режим управления[MotorCtrl]
- TF** bit38 ena_canlog[ena_canlog]
- TF** ena_d_offset_i[ena_d_offset_i]
- TF** fix/dif_pi_k_fapch[ena_fil_table_linear]
- TF** one/two_time_pwm[one_two_time_pwm]
- TF** ena_low_lim_Id[ena_low_lim_Id]
- TF** ena_change_k_Id_lq[ena_change_k_Id_lq]
- TF** ena_Id_peak_mode[ena_Id_peak_mode]
- TF** fix/dif_pi_k_fw[fix_dif_pi_k_fw]
- TF** ena_use_cpu2[ena_use_cpu2]
- TF** ena_hard_reset[ena_hard_reset]
- TF** ena_mtpa[ena_mtpa]
- TF** torq_f_id_massive_mode[torq_f_id_massive_mode]
- TF** auto/bike[auto_bike]
- TF** 1rev/2revs[1rev_2revs]



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- TF ena_nlpd[ena_nlpd]
- TF ena_pid_tuning_on_speed[ena_pid_tuning_on_speed]
- TF ena_canlog1[ena_canlog1]
- TF xx[xx]
- TF xx[xx 2]
- TF dis_res_ampl[dis_res_ampl]
- TF ena_high_speed_oscil[ena_high_speed_oscil]
- TF ena_4-channel_oscil[ena_4_channel_oscil]
- TF Зажиг.(Кл.15)[KI_15]
- U8 Демпф. U[Dampf_U]
- TF Тормоз[Brake active]
- U8 Коробка скоростей[GearCtrl]
- TF Clr_Reset[TCS active]
- I16 M max, [Нм][M_max]
- I16 M min, [Нм][M_min]
- U32 Град. M max, [Нм/с][M_grad_max]
- SGL Порог управл. демпф. М, [Нм][dM_damp_Ctrl]
- Tx Tx-Can[Tx-Can]
 - Tx CAN
 - U32 id
 - U8 data[0]
 - U8 data[1]
 - U8 data[2]
 - U8 data[3]
 - U8 data[4]
 - U8 data[5]
 - U8 data[6]
 - U8 data[7]
 - U8 len
 - U16 flags
 - U32 ts
- U8 Can-канал[Can-Ch]
- TF Статус ключей инв.[MCU_stGateDrv]
- SGL i - редуктора[i_R]
- U16 n max, [1/мин][n_max]
- Tx Файл настроек [Cfg_file]



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- TF** Настройки[Save_Cfg]
- TF** Настройки[Init]
- I16** Т макс. статора, [°C][T_Str_max]
- TF** Упр. удал.[En_rem]
- I16** п удал., [1/мин][ns_rem]
- I16** М удал., [Нм][Ms_rem]
- SCL** Isd, [A][Is_sd]
- SCL** Isq, [A][Is_sq]
- TF** Упр. током[En_Is]
- abc** USB-CAN интерфейс[CanBoard_Info]
- I16** Т IGBT-U, [°C][MCU_IBGTTempU]
- I16** Т IGBT-V, [°C][MCU_IBGTTempV]
- I16** Т IGBT-W, [°C][MCU_IBGTTempW]
- I16** Т макс. IGBT, [°C][MCU_IBGTTempMax]
- U8** IGBT темп. коэф. V[MCU_IBGTTempRiseV]
- U8** IGBT темп. коэф. W[MCU_IBGTTempRiseW]
- U8** IGBT макс. темп. коэф.[MCU_IBGTTempRiseMax]
- U8** IGBT темп. коэф. U[MCU_IBGTTempRiseU]
- U8** Темп. коэф. статора[MCU_TempRiseCurrStr]
- I16** Т статора, [°C][MCU_TempCurrStr]
- I16** Т статора NTC2, [°C][MCU_TempCurrStr2]
- I16** Т статора NTC1, [°C][MCU_TempCurrStr1]
- I16** Т охл. жид., [°C][MCU_TempCurrCool]
- SCL** Мдейст., [Нм][M_act]
- SCL** Isq, [A][Isq]
- SCL** Isd, [A][Isd]
- SCL** Idc, [A][Idc]
- TF** Темп. мотора[Темпер. мотора(статус)]
- abc** Режим работы[MCU_Status]
- abc** Разр. кондесаторов
- SCL** Udc15, V
- TF** Udc мин.
- TF** Idc мин.
- TF** М мин.
- TF** Т статора макс.
- TF** Udc макс.



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- TF** Idc макс.
- TF** T-Motor over fault
- TF** T-Motor over warn.
- TF** Udc under alarm
- TF** Udc over alarm
- TF** Udc under fault
- TF** I-phase over fault
- abc** Состояние ошибок
- TF** M макс.
- TF** Udc valid
- TF** T IGBT макс.
- TF** Т охл. жид. макс.
- TF** n макс.
- I16** M макс. зн.
short int
- I16** M мин. зн.
short int
- TF** T-Inverter over warn.
- TF** Idc over fault
- TF** Udc over fault
- TF** n-Motor over fault
- TF** MCU disconnected
- TF** MCU serial port fault
- TF** T-Inverter over fault
- TF** n-Motor over warn.
- TF** Idc over warn.
- TF** U-CPLD over fault
- TF** Gate-driver fault
- TF** Ext. low voltage fault
- TF** Int. power-chip fault
- TF** CPLD serious failure
- TF** Main chip - CPLD fault
- TF** Loop interlock fault
- TF** Udc-MCU fault
- TF** T-Motor sensor fault
- TF** I-Phase sensor fault
- TF** MCU self-test fails



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CAN bus off

Версия ПО ПЛК TC275 [MCU SW-ver]

Версия ПО калибр. ПЛК TC275 [MCU calib_SW-ver]

Версия ПО Hv MCU [MCU Hv SW-ver]

Версия ПО CPLD [MCU CPLD SW-ver]

Версия ПЛК [MCU HW-ver]

M, [Нм][M]

Udc, [В][Udc]

Is, [А][Is]

n, [об/мин][n]

M-статус[M_Status]

n-статус[n_Status]

Демпф. вкл.

Rx-Can[Rx-Can]

CAN

id

data[0]

data[1]

data[2]

data[3]

data[4]

data[5]

data[6]

data[7]

len

flags

ts

Tab Control 2[Tab_M_n]

App_Name

strVersion

Rx-error out[Rx-err out]

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.



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**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.

**code**

code is the error or warning code.

Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.

**source**

source describes the origin of the error or warning.

Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.

**CAN Errs Out****ewl****boff****hwovr****swovr****wtout****Pe dc, [Bt][Pe dc]****Ms_Can****Очередь Rx**

short int

**Tx-error out[Tx-err out]**

error in can accept error information wired from VIs previously called. Use this information to decide if any functionality should be bypassed in the event of errors from other VIs.

Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.

**status**

status is TRUE (X) if an error occurred or FALSE (checkmark) to indicate a warning or that no error occurred.

Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.

**code**

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Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.

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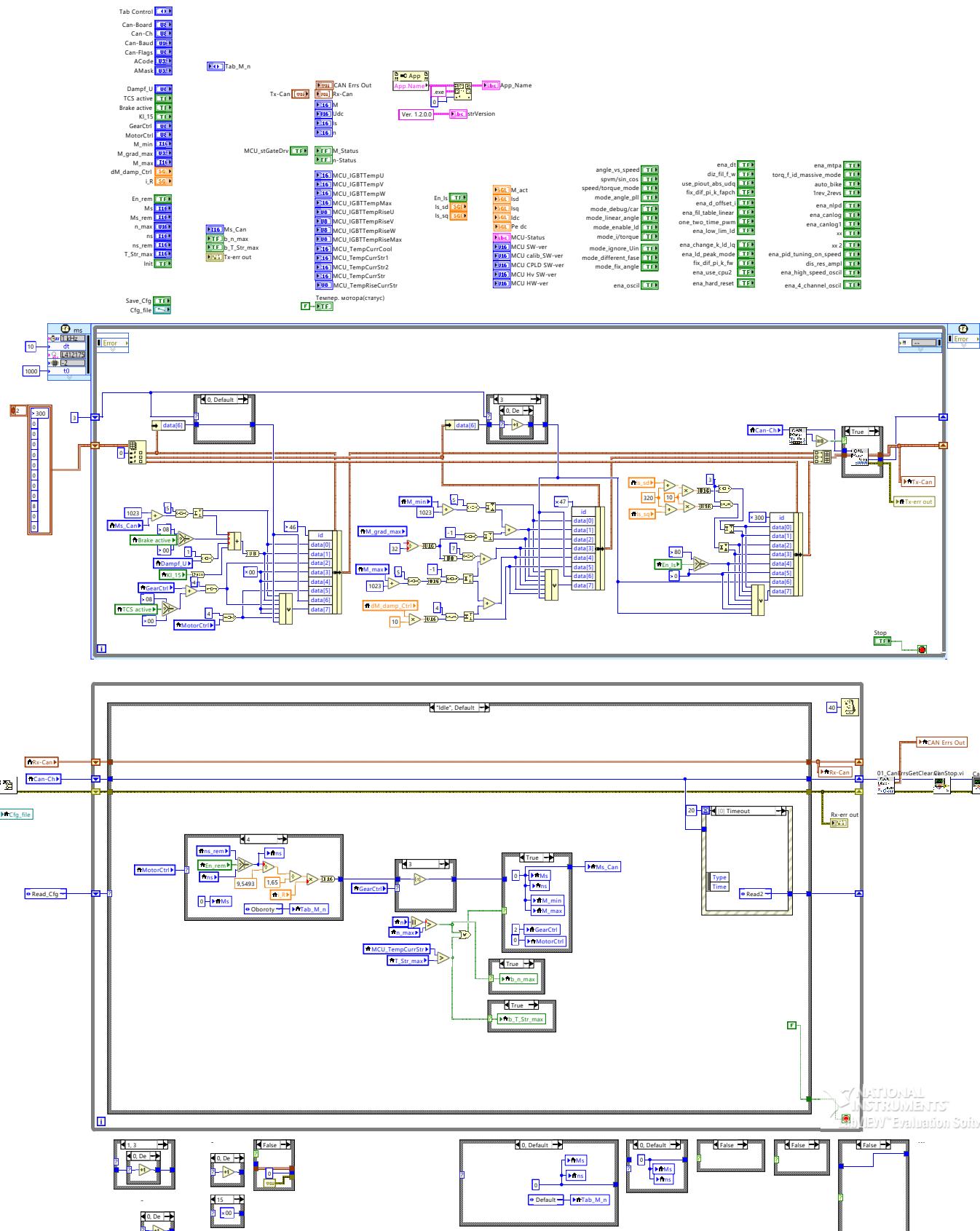
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**source**

source describes the origin of the error or warning.

Right-click the error in control on the front panel and select Explain Error or Explain Warning from the shortcut menu for more information about the error.

**b_T_Str_max****b_n_max**



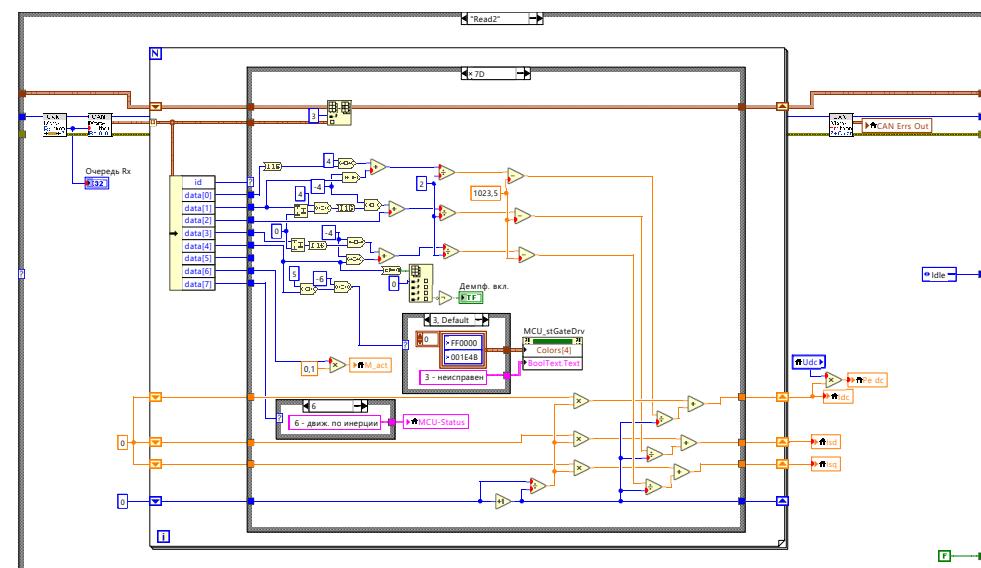
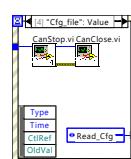
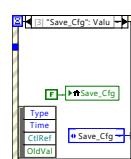
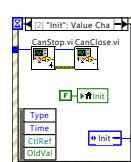
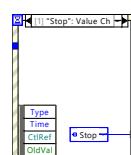
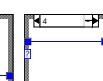
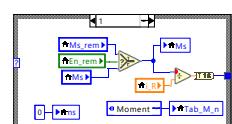
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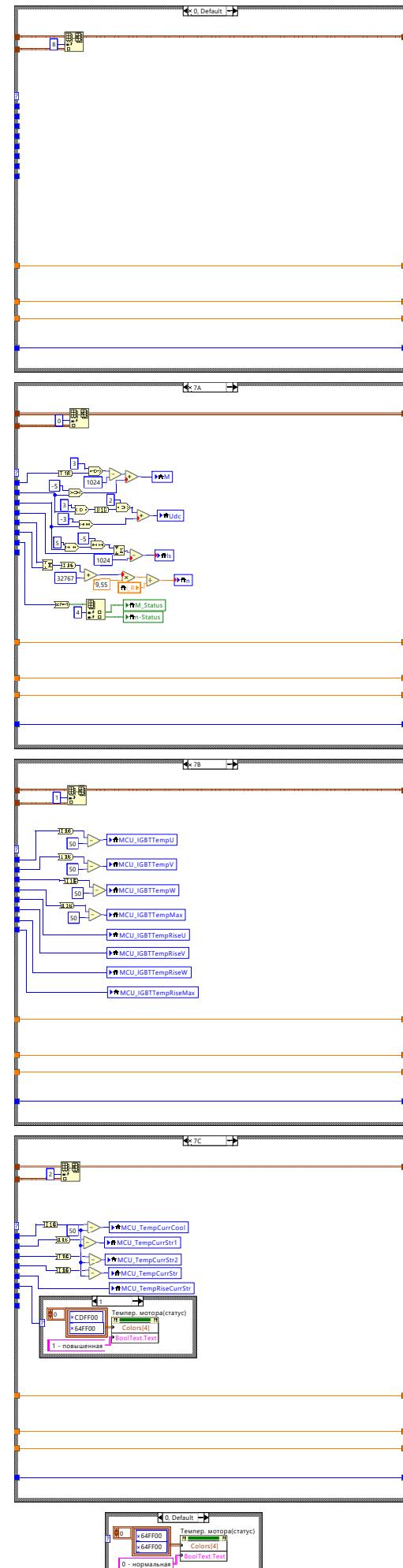
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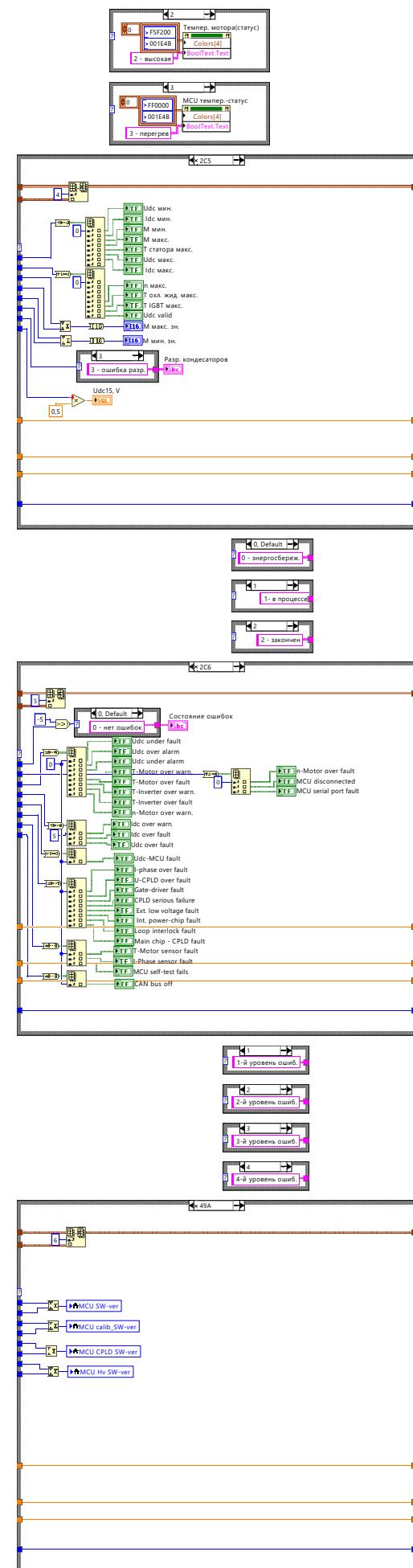
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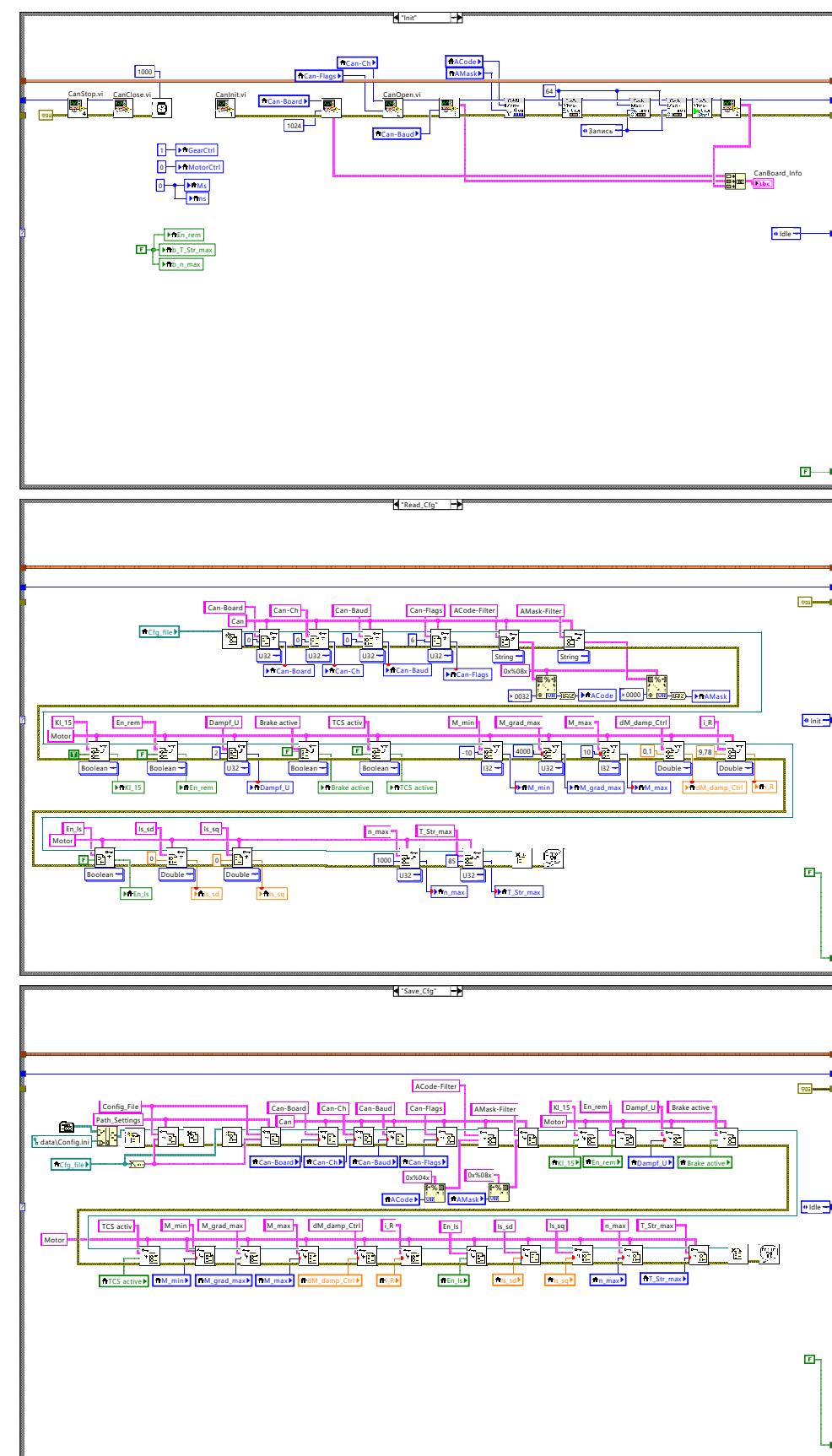
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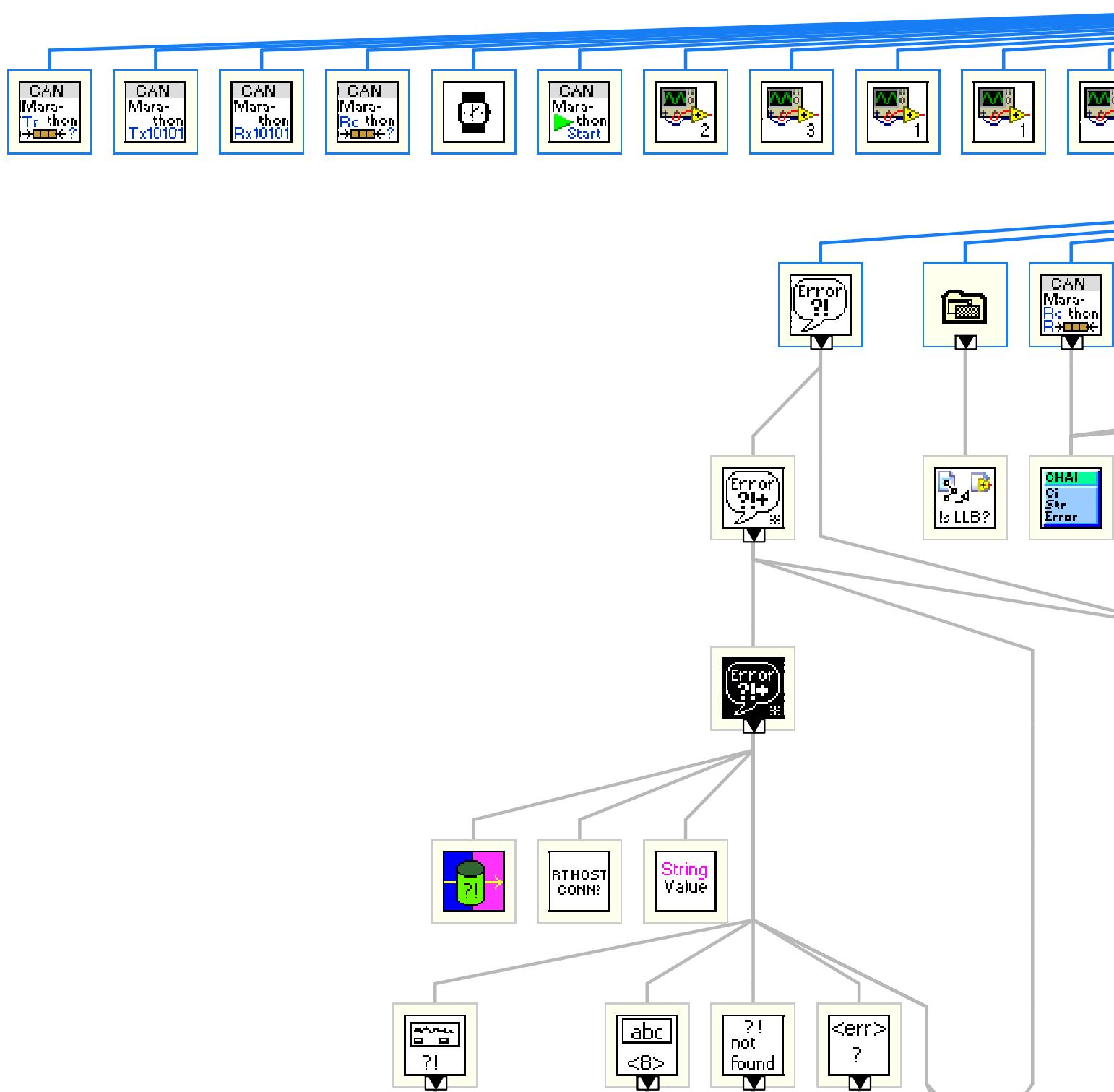
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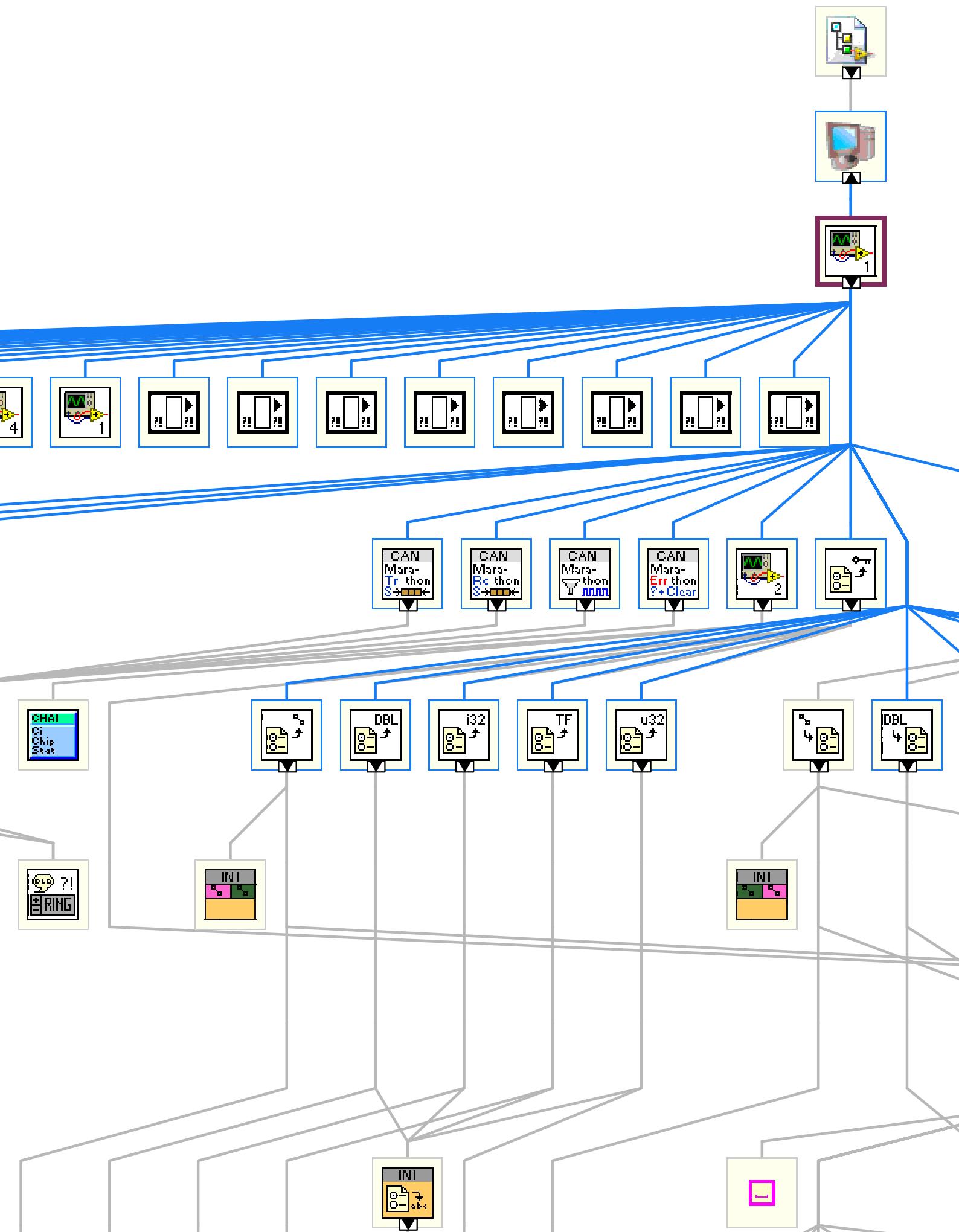
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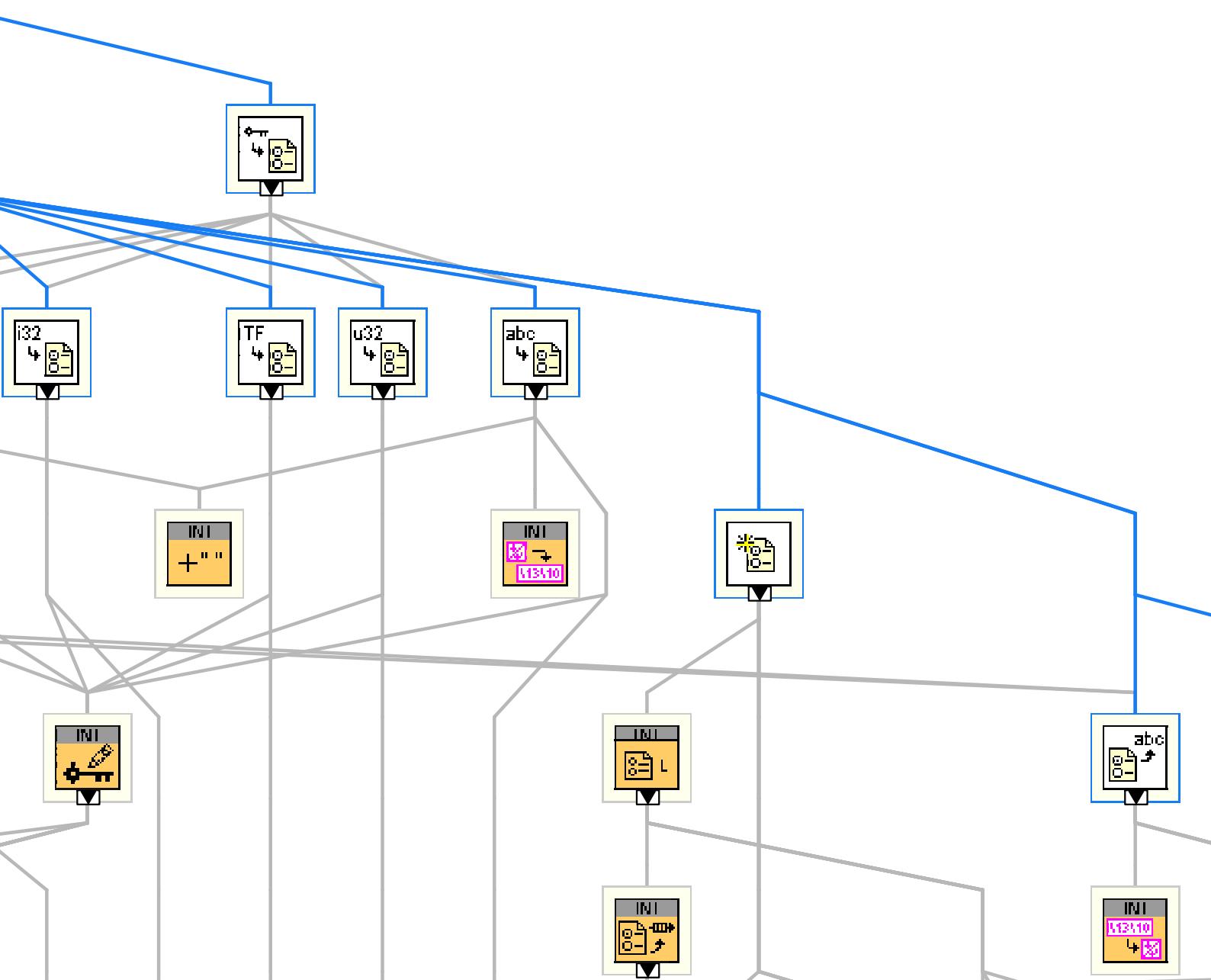
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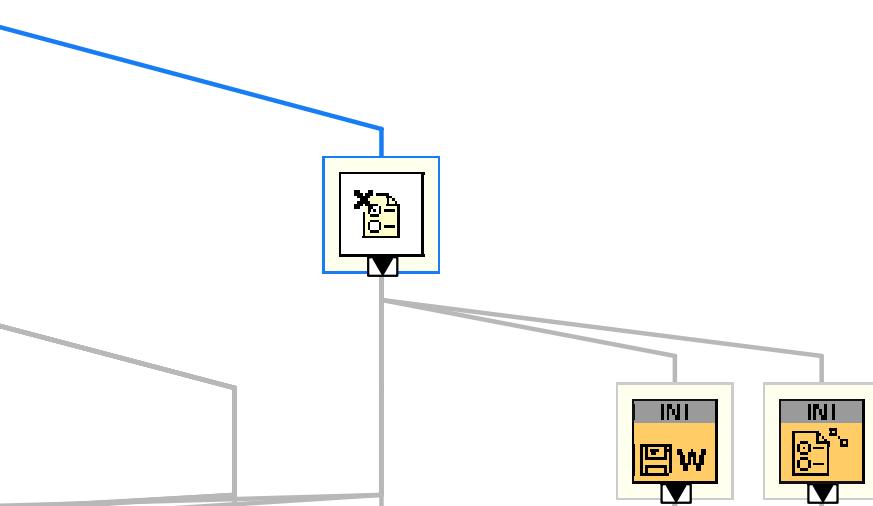
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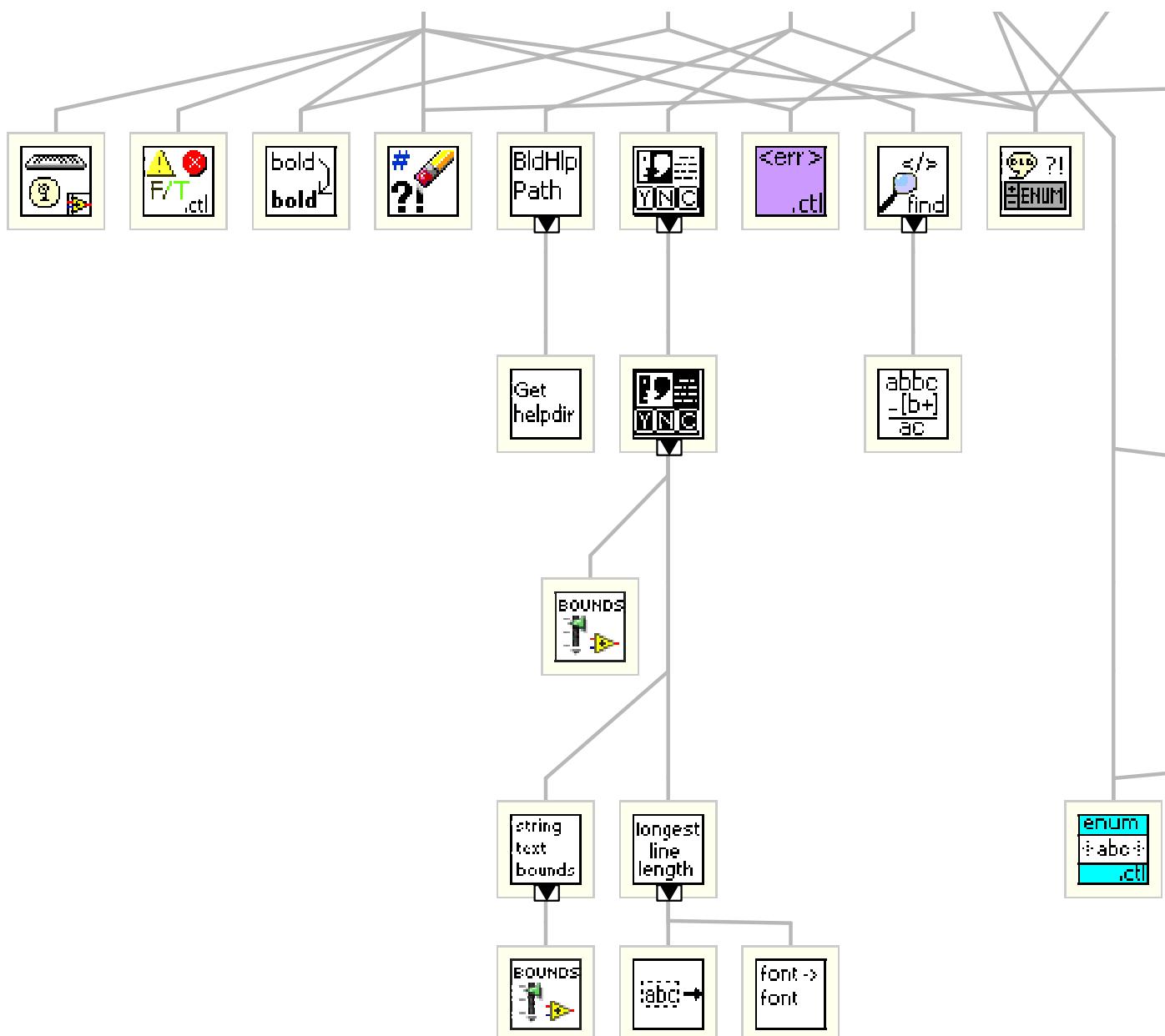
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**CanClose.vi**

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**CanStop.vi**

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**NI_LVConfig.lvlib:Write Key (String).vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Write Key (String).vi

**05_CanStatus.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\0_CAN_Marathon\05_CanStatus.vi

**NI_LVConfig.lvlib:Close Config Data.vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Close Config Data.vi

**NI_LVConfig.lvlib:Write Key (I32).vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Write Key (I32).vi

**NI_LVConfig.lvlib:Write Key.vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Write Key.vi



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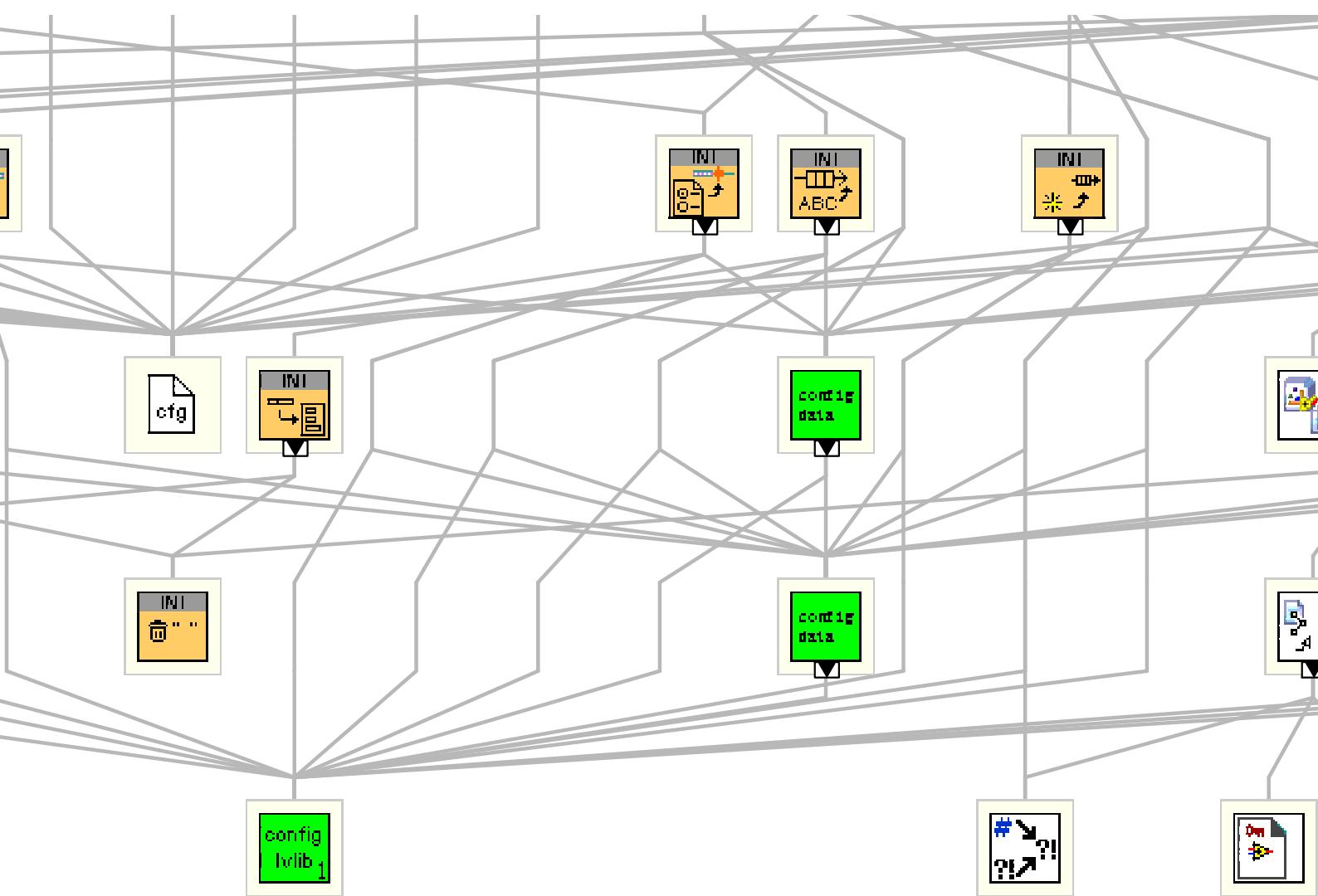
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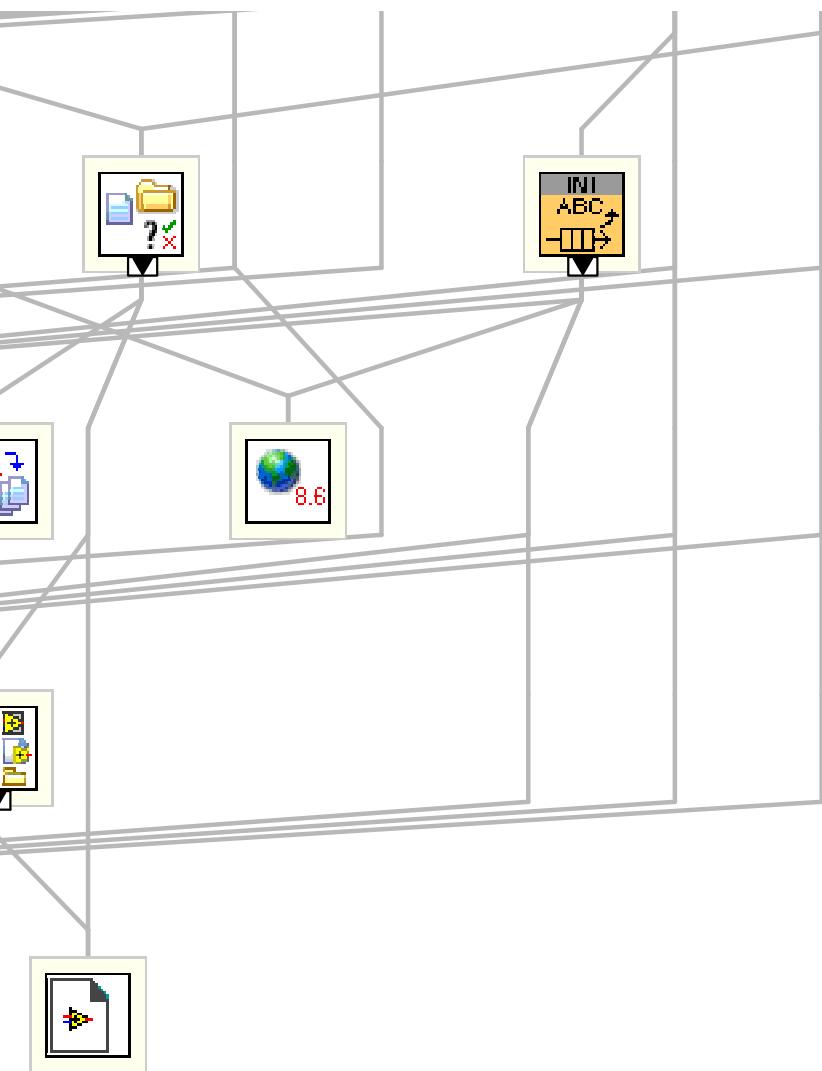
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**CanInit.vi**

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**CanBoard_Info.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\CanBoard_Info.vi

**CanSetFilter.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\CanSetFilter.vi

**NI_LVConfig.lvlib:Read Key (I32).vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Read Key (I32).vi

**NI_LVConfig.lvlib:Read Key (U32).vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Read Key (U32).vi

**NI_LVConfig.lvlib:Read Key.vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Read Key.vi

**NI_LVConfig.lvlib:Read Key (Boolean).vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Read Key (Boolean).vi

**NI_LVConfig.lvlib:Open Config Data.vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Open Config Data.vi

**Simple Error Handler.vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\error.llb\Simple Error Handler.vi

**Application Directory.vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\file.llb\Application Directory.vi

**01_CanErrsGetClear.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\0_CAN_Marathon\01_CanErrsGetClear.vi

**CanSetBaud.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\CanSetBaud.vi

**CanStart.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\CanStart.vi

**CanOpen.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\CanOpen.vi

**NI_LVConfig.lvlib:Write Key (U32).vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Write Key (U32).vi

**NI_LVConfig.lvlib:Write Key (Boolean).vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Write Key (Boolean).vi

**NI_LVConfig.lvlib:Write Key (Double).vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Write Key (Double).vi

**07_CanTrStat.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\0_CAN_Marathon\07_CanTrStat.vi

**NI_LVConfig.lvlib:Read Key (String).vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Read Key (String).vi

**CanTrQueThreshold.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\CanTrQueThreshold.vi



Evaluation

CAN_Marathon_L.vi

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**04_CanRead_Cnt.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\0_CAN_Marathon\04_CanRead_Cnt.vi

**CanRcQueThreshold.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\CanRcQueThreshold.vi

**CanRcQueGetCnt.vi**

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**NI_LVConfig.lvlib:Read Key (Path).vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Read Key (Path).vi

**03_CanRcQueResize.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\0_CAN_Marathon\03_CanRcQueResize.vi

**06_CanTransmit_Cnt.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\0_CAN_Marathon\06_CanTransmit_Cnt.vi

**NI_LVConfig.lvlib:Read Key (Double).vi**

C:\Program Files\National Instruments\LabVIEW 2020\vi.lib\Utility\config.llb\Read Key (Double).vi

**Wait.vi**

C:\Users\s.makov\Downloads\CAN_Marathon\CAN_Marathon\Tools\Wait.vi

"CAN_Marathon_L.vi History"

Current Revision: 1268

