```
# @(#) PRODAS:src/main/$RCSfile: sample.prodas,v $; Version $Revision: 35782 $; extracted
$Date: 2019-07-09 15:06:42 -0400 (Tue, 09 Jul 2019) $, MDS Aero
#                               *****************
#****************************** sample.prodas ******************************
#                               *****************
#
#  Author: Thushy Thirunavukkar, MDS Aero Support Corporation
#
#  Description:
#    This is a sample proDAS config file which generated from sample.conf1.113.
#
#  Notes:
#    This file contains only one subsystem name per subsystem type but EDAS
#    supports multiple instances of each subsystem (each with a unique name)
#
#  Date created: Tue Dec  2 16:16:26 1997
#
#
#  Modification history:
#   Date        Initial      NCR#       Description
#   ----        -------     ------      -------------
# Dec.02.97       TT        A3452       Updated for edas2.5 release:
#                                       Deleted arguments from DYNAMIC_AVM
#                                       Subsystem names DDS1 and DDS1_AVM were
#                                       changed to DYNAMIC and DYNAMIC_AVM
#                                       Added extra arguments for
#                                       UEL, PWM, GUI, PB_GUI, DB_SERV,
#                                       DYNAMIC_AVM
#                                       Added comments
#                                       Attached a file header
#                                       log_version is changed to 2.0 in
#                                       LOG_PLAYBACK
# Jan.16.98       TT        A3610       Updated for edas2.7 release:
#                                       added rt_correct for IRIGB
# Jan.23.98       TT        A3610       Added trace directory for TOCEUM
#                                       T700,ACL, command line to start the GUI
#                                       EAIF to UEL source name.
# Jan.23.98       TT        A3610       Fixed typo on last version
# Jan.26.98       TT        A3610       Fixed typo on last version
# Feb.18.98       TT        A3735       Updated for edas2.8 release
#                                       corrected LOG_PLAYBACK, ARINC prameters
#                                       added ATH_01 subsystem.
# Feb.27.98       TT        A3673       Added pp_test_name to UEL
# Mar.17.98       TT        A3754       Added la_rate_hz to LIMIT_ACTION
# Mar.19.98       TT        A2003       Added accel_xfer to PBS
# Mar.19.98       TT        A2828       Modified Thrust arguments
# Mar.26.98       TT        A3985       Added DDS arguments
# Apr.03.98       TT        A3799       Added eaif config file to all eaif
#                                       command line.
# Apr.03.98       TT        A3770       Renamed DB_SERV by INIT and added
#                                       report_quality_change parameter to INIT
# Apr.07.98       TT        A4038       Added send_config option to DYNAMIC
# Apr.07.98       TT        A4035       Added check_disk_space, save_dds_sentry
#                                       options to GUI and PB_GUI
# Apr.16.98       TT        A4068       Added overrun_tolerance,rt_priority,
#                                       rt_default_priority
# Apr.16.98       TT        A3929       Added GASSTC subsystem
# Apr.24.98       TT        A3369       Added AVM options
# May.04.98       TT        A3857       Added options for ARINC_BALLARD
# May.08.98       TT        A2828       Modified Thrust arguments
# May.08.98       TT        A3768       Added a GUI option.
# May.11.98       TT        A4038       Changed the default value of
#                                       send_config option of DYNAMIC
#                                       to false
#                                       Added External subsystem entry.
#                                       Added default value to min_days_to_cal
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#                                       option of PBS.
# May.12.98      TT        A3929        Modified GASSTC default values.
# Jun.04.98      TT        A4254        Added UI_SERVER option
# Jun.11.98      TT        A3724        Added sample_period and num_in_average
#                                       to GAI.
#                                       Removed redundant cad options in GASS
#                                       subsystems.
#                                       Corrected WEI_device option of THRUST.
# Jun.15.98      TT        A1408        Added STATUS_DEST option.
#                                       corrected the comment for WEI stop bits.
# Jul.14.98      TT        A4401        Added reply_timeout to PBS subsystem.
# Jul.31.98      TT        A4304        Added event_gran, command_gran to GUI and
#                                       PB_GUI
# Aug.13.98      TT        A4497        Removed sample period option from GASSTC
# Sep.01.98      TT        A4809        Added engine type option to ARINC.
#                                       corrected log_conversion option
# Sep.16.98      TT        A4275        Added avm_retries, cal_retries and
#                                       tel_retries options to DYNAMIC
# Oct.13.98      TT        A2657        Added default settings for startscan_prog
#                                       and stopscan_prog
# Oct.16.98      TT        A2888        Added SSM_string option to arinc
# Oct.27.98      TT        A2657        Corrected the settings for
#                                       startscan_prog and stopscan_prog
# Oct.30.98      TT        A5146        Added yday_offset to IRIB
# Oct.30.98      TS        A5080        Added args for THRUST
# Nov.03.98      TT        A5157        Corrected sccs header
# Nov.09.98      TT        A5071        Added 'extrap_value' and 'extrap_quality'
# Nov.13.98      TT        A1408        Added coments for 'STATUS_DEST' option.
# Dec.23.98      TT        A5380        Removed tacho1, tacho2, tacho3 from
#                                       DYNAIMIC
# Dec.30.98      TT        A5406        Added 'cal_uel_source' option to PBS
# Jan.27.99      TT        A4404        Added 'TAD_retries ' , 'TAD_timeout'
#                                       options to THRUST.
# Jan.29.99      TT        A5269        Added 'T800_reset_time' option to ARINC
# Feb.10.99      TS        A4926        Add 'double_buffer_size' arg to LOGS
# Feb.15.99      TS        A4926        Remove the double buffer size parameter
# Feb.22.99      TT        A4569        Added 'eaif_server_host','eaif_server_service'
#                                       to DYNAMIC
# Feb.23.99      TT        A4569        Added 'crit_description' to LOG_PLAYBACK
# Feb.24.99      TT        A5471        Added 'Nsrc_name' option to GUI
# Mar.25.99      TS        A5600        Add thermal EMF parameters to GAI &
#                                        allow configuration of polarity of
#                                        excitation channel
# Jun.14.99      GK        A5825        Added recover mode for Scan & Transfer
# Jul.05.99      RS        A5629        Added required tokens for Alarm Summary
#                                        Window feature in LIMIT_ACTION section
# Jul.09.99      GK        A5747        Added PLC_TTY subsystem
# Aug.20.99      GK        A5774        Added device addresses for LP/IP/HP
#                                        ground stations in DDTC
# Aug.22.99      AC        A5815        Added the avm_connection parameter to the
#                                        DYNAMIC_AVM section
# Sep.14.99      JH        A4954        Added header info parameters in
#                                        T700_gui_cmd and T800_gui_cmd
# Oct.04.99      JD        A5711        Added channel redirect flag to GUI
# Oct.20.99      RS        A6305        Added use_testeng_dir_4_rep flag in LOG
#                                        TRUE will chooses the engine/test as
#                                        report's parent directory
# Nov.23.99      RS        A6443        Added dynamic_slot flag for DDS
# Jan.12.00      JH        Z1003        Added exit_scan_prompt for GUI
# Aug.25.00      JH        A3515        Removed dynamic_slot flag for DDS
# Aug.31.00      JPL       A6962        Added scan rate for T800
# Oct.02.00      JPL       Z0001        Added values for new WS section
# Oct.16.00      LY        A7041        Added save_hss_sentry for GUI
#                                       Added HSS subsystem
# Oct.31.00      JH        A7073        Added dataview_active for GUI
# Dec.04.00      JPL       A7233        Added TRUTEMP subsystem
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# Dec 14 00      LY        A7262       Added init_tolerance option for WS and TOCEUM
# Dec 29 00      XC        A7151       Added Torque Meter (MS Driver) subsystem
#                                      Added EMS1_MS (MS Driver) subsystem
#                                      Added EMS1_ME (ME Driver) subsystem
# Feb 12 2001    JPL       A7344       Changed TRUTEMP retry from 3 to 1
# Feb 16 01      LY        A7345       Changed timeout of MS from 1000 to 100
# Feb 20 01      LY        A7345       Changed timeout of ME and TRQMETER to 100
# Apr 24 2001    JPL       A7410       Added 4 new parameters to PBS section
# May 15 2001    JPL       A7411       Added 1 new parameter to EMS1_ME section
# Jun 28 2001    HZ        A7422       Added 1 new la_audio_player parameter
#                                       to LIMIT_ACTION section
# Sep 05 2001    MZ        A7439       add GASS subsystem
# Sep 27 2001    HZ        A7449       add continuous log parameters
# Sep 27 2001    MZ        A7412       add new parameter for ATH
# Sep 16 2001    HZ        A7449       add comments for continuous log parameters
# Oct 25 2001    MZ        A7451       change thrust parameter
# Oct 25 2001    MZ        A7412       add new parameter for ATH
# Mar 14 2002    JH        Z1003       Moved modbus_tcp parameter from MS to ME
# Apr 26 2002    HZ        A7567       Added pbs_9032_list parameter in PBS
# Apr 29 2002    JPL       A7576       Added language_filename to UEL
# May 03 02      YJ        A7549       add flag BPT_data_from_DB
# MAY 23 02      MZ        A7595       add comment in ATH section
# MAY 29 02      MZ        A7600       add RTP2000 driver section
# JUN 04 02      MZ        A7593       modify DYNAMIC_AVM section
# Jun 13 2002    HZ        A7567       Temporarilly removeded pbs_9032_list
# Jun 26 2002    HZ        A7607       Modified cl_max_file_size in kilobytes
#                                       in section LOG_PLAYBACK
# Aug 22 2002    HZ        A7567       Added pbs_9032_list parameter in PBS
# Aug 30 02      YJ        A7606       Added parameters for UEL display server
# Sep 20 02      YJ        A7648       Added TBDAU subsystem
# Oct 24 02      MZ        A7634       add replay feature
# NOV 25 02      MZ        A7600       remove done DP from RTP section
# DEC 16 02      MZ        A7739       Add SETRA470 in ATH section
# DEC 16 02      MZ        A7739       Add comment in ATH section
# Dec 17, 2002   JPL       A7601       Added section for HPS (HyScan driver)
# Jan 24, 2002   JPL       A7601       Added timeout values for operations
# Jan 27, 03     HZ        A7768       Added Fullset configurable channel
# Jan 27 03      JH        A7649       Added section for DS (Data Server)
# Jan 30 03      HZ        A7581       Added configurable yellow alarm flag
# Feb 06 03      HZ        A7769       Added acl_srvname for PRODAS
# Feb 17, 2003   JPL       A7601       Changed names of 2 HPS entries
# Feb 27, 2003   JPL       A7601       Added entries, update values, comments
# Mar 07  2003   YJ        A7794       Added fs_point_size
# Apr 21, 2003   JPL       10078       Added auxiliary purge support
# May 07, 2003   HZ        10096       Modified FS configurable channel to float
# May 26, 2003   HZ        A7794       Generated sample.prodas from sample.conf1.113
#                                       for proDAS configuration
# May 30, 2003   HZ        A7794       Removed GUI and PB_GUI sections
# Jun 21, 2003   YJ        10171       Added UTRH subsystyem
# Jul 17, 2003   YJ        10168       Added MSS subsystyem
# Dec 15, 2003   JH        A1003       Remove the connection type from INIT
# Jan 23, 2004   MZ        10170       Added HSV subsystem
# Feb 12, 2004   YJ        10168       Added position checking option for MSS
# Apr 12, 2004   HZ        10169       Added DPS subsystem
# May 03, 2004   YJ        11834       Added scan_delay for HPS
# May 03, 2004   YJ        11834       Added data_query
# May 28, 2004   MZ        11946       Assed new option for HSV
# Jun 16, 2004   MZ        11946       change to save_with_critical
# Jun 30, 2004   JH        11946       Add some comment to HSV SS
# Aug 30, 2004   MZ        10168       add comments for MSS
# Oct 29, 2004   MZ        10699       added CONSORT
# Nov 23, 2004   HZ        12034       Removed the la_audio_player
# Dec 15, 2004   HZ        12034       Added the la_default_hostname for LA
# Jan 06, 2005   HZ        12262       Removed the pbs_9032_list from PBS section
# Feb 10, 2005   JH        12037       Added new Calculated SS option
# Feb 16, 2005   MZ        12236       Added CEC subsystem
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# Feb 16, 2005   MZ        12294       Added root path
# Feb 18, 2005   HZ        12326       Added the exclude_subsystems for LOG
# Apr 01, 2005   MZ        12294       changed to ROOT_PATH
# May 01, 2005   HZ        12503       Added la_event_comment_to_db flag for LA
# May 12, 2005   HZ        12503       Modified the comment for the flag of
#                                       saving EVENT_COMMENT to database
# May 27, 2005   AC        12237       Added TSM subsystem
# Aug 03, 2005   JH        12654       Removed UEL disp server timeout
# Dec 07, 2006   JH        Z1003       Added the communication timeout for Data Server
# Jan 25, 2007   AC        13555       Added Zero Pressure Voltage channels for MSS
# Dec 18, 2007   JH        Z1005       Added the fullset stability information
# May 08, 2008   JH        Z1005       Fix PBS's vent_control_ch tag
# Jul 15, 2008   JH        Z1005       Added parameters for External and RTP
# Oct 14, 2008   JH        14481       Added parameters for M1553 SS
# Jan 08, 2009   AC        14113       Added tolerance for TSM
# Apr 27, 2009   JH        14655       Added the new parameter for ARINC
# May 15, 2009   HZ        14674       Added CDF conversion for LOG_PLAYBACK
# Jun 05, 2009   HZ        14737       Added cal_zero parameter for GASS SS
# Jun 09, 2009   JH        Z1005       Added note for RTP SS
# Oct 19, 2009   HZ        14775       Added device type parameter for each THG master load cell
# Nov 16, 2009   JH        14840       Added SPT timeout parameter for DDTC
# May 10, 2010   JH        14938       Added 3 parameters for ARINC
# May 25, 2010   JH        Z1005       Modified all default EH connection from
#                                       SHARED_MEMORY to SOCKET
# May 31, 2010   HZ        14925       Added parameters for continuous purge
# May 31, 2010   AC        14925       Added parameters for fullset
# Jul 14, 2010   JH        14970       Added OPC SS parameters
# Oct 14, 2010   HZ        15041       Added 2 new parameters for LOG_PLAYBACK
# Oct 14, 2010   HZ        15054       Added a new section for DTS subsystem
# Oct 20, 2010   HZ        15054       Changed DTS trigger type text to HW/SW
# Oct 21, 2010   HZ        14925       Modified PBS section for proDAS continuous purge
# Jan 26, 2011   HZ        15157       Added log action parameters for LOG_PLAYBACK
# Feb 09, 2011   HZ        15173       Added three new parameters for ME subsystem
# Feb 14, 2011   JH        15159       Added VEXA section for VEXA subsystem
# Feb 18, 2011   AC        15157       Added fullsets pre action for record number
# Jun 16, 2011   JH        15294       Added EN_SERVER section
# Jun 27, 2011   JH        14481       Added a new parameter for M1553
# Sep 10, 2012   JH        15690       Added the DDSC section
# Apr 18, 2013   AC        15841       Added back-off delay to the TSM section
# May 07, 2013   HZ        15840       Increased the default log version to 4.0
# May 08, 2013   HZ        15871       Modified to support 3 LA subsystems
# May 28, 2013   HZ        15877       Added NDDS section
# Jun 26, 2013   HZ        15871       Removed the la_yellow_alarm parameter from LA INFO SS
# Aug 14, 2013   HZ        15945       Added NSS subsystem
# Aug 20, 2013   HZ        15945       Replaced EPHL_disabled_pgm with replay_disabled_prg
# Sep 12, 2013   HZ        15997       Removed the TCorrChan parameter from THG for proDAS
# Oct 01, 2013   HZ        15945       Added comments to NSS subsystem
# Oct 25, 2013   AC        15841       modified back-off delay to the TSM section
# Nov 15, 2013   JH        15841       Add support for DDS version 4.5
# Jan 23, 2014   HZ        16141       Add recording number monitor channel to the LOG section
# Mar 28, 2014   AC        16268       Added new parameters in MSS and FULLSET sections
# Dec 04, 2014   AC        16526       Added new parameters in MSS section
# Mar 24, 2015   HZ        Bug763      Added 2 acknowledge alarm channels in LIMIT_ACTION SS
# Jun 25, 2015   JH        Bug1021     Added AFDX SS paramters
# Oct 05, 2015   HZ        Bug1260     Modified ATH SS to support CPT6100
# Jan 18, 2016   JH        Bug1389     Added one parameter to AFDX SS
# Jan 28, 2016   HZ        Bug1492     Modified comments for two critical log parameters
# Oct 20, 2016   JH        Bug1677     Added xml_encoding into EN_server
# Nov 09, 2016   HZ        Bug2051     Added min_free_space parameter for INIT
#                                      Modified NDDS to be a subsystem
# Jan 11, 2018   HZ        Bug2653     Added unlimited_log parameter in the LOG section
# Jan 15, 2018   HZ        Bug2631     Added la_remote_shell parameter in LA subsystems
# Feb 06, 2018   HZ        Bug2039     Added 2 parameters in INIT section for periodic
#                                       checking disk space
# Feb 15, 2018   HZ        Bug2461     Added PRODAQ subsystem
# Feb 16, 2018   JH        Bug2473     Added MVIB SS
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# May 30, 2018   JH        Bug2869     Added load_balance_enable parameter in the calculated SS
# Aug 13, 2018   HZ        Bug2926     Added cl_always_create_new_log parameter for continuous
log
# Feb 08, 2019   JH        Bug3077     Added ss_extrap_value for IC module
#*************************************************************************/


#-------------------------------------------------------------------------
# See Notes (2) at the end of this file for help on 'CL' options
#-------------------------------------------------------------------------
CL    MASTER_CONFIG_ID   0
CL    CELL_ID            0
CL    VERBOSITY          100
CL    TRACE_DEST         stdout
CL    STATUS_DEST        edas_status
# REPLAY_FLAG (TRUE replay mode. FALSE real time mode)
CL    REPLAY_FLAG        FALSE
CL    ROOT_PATH          /users/EDAS

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    LIMIT_ACTION       TRUE
# value: Rate (Hz) to check limits
CI    la_rate_hz
# The host where the alsum will be running
CI     la_alsum_cli_host       ramsYYYY
# The service name for alsum server
CI     la_alsum_cli_service    alsum_srv
# The service name for L&A alarm server
CI     la_alsum_srv_service    laas_srv
# The timeout for which L&A alarm server waits for alsum after its launch
CI     la_alsum_timeout    5000
# Maximum number of retries of a client
CI     la_alsum_max_retry  3
# Sleep in polling loop the client (In Millisecond)
CI     la_alsum_sleep_ms   200
# The yellow alarms flag (TRUE or FALSE)
CI     la_yellow_alarm   FALSE
# The default hostname for INVOKE_EXECUTE action
CI     la_default_hostname   prodasmgt
# The saving EVENT_COMMENT to database flag (TRUE or FALSE)
CI     la_event_comment_to_db  FALSE
# The ENABLE_ALARMS channel to control Limits and Actions
CI     la_enable_alarms_ch   ENABLE_ALARMS
# The channel to acknowledge one alarm
CI     la_ch_ack_one         CH_ACK_ONE
# The channel to acknowledge all alarms
CI     la_ch_ack_all         CH_ACK_ALL
# The remote shell (/usr/bin/rsh (default) or /usr/bin/ssh)
CI     la_remote_shell       /usr/bin/rsh

#-------------------------------------------------------------------------
SS    LIMIT_ACTION_INFO   TRUE
# value: Rate (Hz) to check limits
CI    la_rate_hz          1.0
# The host where the alsum will be running
CI     la_alsum_cli_host       ramsYYYY
# The service name for alsum info server
CI     la_alsum_cli_service    alsum_srv_info
# The service name for L&A info server
CI     la_alsum_srv_service    laas_srv_info
# The timeout for which L&A info server waits for alsum after its launch
CI     la_alsum_timeout    5000
# Maximum number of retries of a client
CI     la_alsum_max_retry  3
```

```
# Sleep in polling loop the client (In Millisecond)
CI     la_alsum_sleep_ms   200
# The default hostname for INVOKE_EXECUTE action
CI     la_default_hostname   prodasmgt
# The saving EVENT_COMMENT to database flag (TRUE or FALSE)
CI     la_event_comment_to_db  FALSE
# The ENABLE_ALARMS channel to control Limits and Actions
CI     la_enable_alarms_ch   ENABLE_ALARMS
# The UEL message flag for LIMIT_ACTION_INFO subsystem only (TRUE or FALSE)
CI     la_info_uel_flag      TRUE
# The remote shell (/usr/bin/rsh (default) or /usr/bin/ssh)
CI     la_remote_shell       /usr/bin/rsh

#-------------------------------------------------------------------------
SS    LIMIT_ACTION_QUIET  TRUE
# value: Rate (Hz) to check limits
CI    la_rate_hz          1.0
# The default hostname for INVOKE_EXECUTE action
CI     la_default_hostname   prodasmgt
# The saving EVENT_COMMENT to database flag (TRUE or FALSE)
CI     la_event_comment_to_db  FALSE
# The ENABLE_ALARMS channel to control Limits and Actions
CI     la_enable_alarms_ch   ENABLE_ALARMS
# The remote shell (/usr/bin/rsh (default) or /usr/bin/ssh)
CI     la_remote_shell       /usr/bin/rsh

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    CALCULATED          TRUE
# Can be either set to BAD or SUSPECT for NON domain error (Can't set to GOOD)
CI  propagated_quality  BAD
# Set to TRUE to report all calc error; set to FALSE to report only domain error
CI  report_all_error    TRUE
# Set to TRUE/FALSE to turn on/off the load balancing mechanism; default to TRUE
CI  load_balance_enable    TRUE

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    INTERNAL            TRUE

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    FULLSET             TRUE
# Fullset configurable float channel name
CI    fs_channame
# Maximum number of fullset stability channels
CI    deviation_limit    50
# Maximum duration of a fullset for stability, in seconds
CI    deviation_duration 30
# For fullset recording number: Opcode_cmd Record_number_channel output_channel
# For PW at Glacier, we need to define pre_fs_action
# Pre Fullset Actions
CI    pre_fs_action  op_rec_num REC_NO O30002
# Pre Fullset Actions: Opcode_cmd
CI    pre_fs_action
# Post Fullset Accmulation Actions: Opcode_cmd SSName
CI    post_fs_accu_action
# Post Fullset Actions: Opcode_cmd
CI    post_fs_action

# ======================================
# Data Server subsystems
# --------------------------------------
```

```
SS  DATA_SERVER                 TRUE
# Service name for connecting to DS
CI    service_name          ds_serv
# Maximun send rate allowed in Hz for DS
CI    max_sendrate          10
# Communication timeout in milliseconds 500-5000
CI    com_timeout           3000

# =======================================
# Torque Meter (Generic Modbus Serial Driver) subsystem
# ---------------------------------------
SS    TRQMETER                          FALSE
#    /dev/ttydn004          /dev/ttyd2
CI    device                       /dev/ttyd2
CI    baudrate                     19200
CI    databits                     8
CI    stopbits                     1
#   parity: n=none, e=even, o=odd
CI    parity                         n
#   sign: signed or unsigned
CI    sign            signed
#   endian: little or big
CI    endian                   little
#   datatype:  float or short (short is for short integer)
CI    datatype                     float
#   use decimal format for the slave address
CI    slaveaddress    1
#   discrete channel group, inputcoils or inputstatus
CI  dchannelgroup     inputstatus
#   float channel group, inputregisters or holdingregisters
CI  fchannelgroup     holdingregisters
#   timeout in ms
CI    timeout         100
#   max number of Modbus register channels
CI  maxregchannel      5
# =======================================
# EMS1_MS (Generic Modbus Serial Driver) subsystem
# ---------------------------------------
SS    EMS1_MS                      FALSE
#    /dev/ttydn004          /dev/ttyd2
CI    device                       /dev/ttyd2
CI    baudrate                     19200
CI    databits                     8
CI    stopbits                     1
#   parity: n=none, e=even, o=odd
CI    parity                         n
#   sign: signed or unsigned
CI    sign            signed
#   endian: little or big
CI    endian                   little
#   datatype:  float or short (short is for short integer)
CI    datatype                    short
#   use decimal format for the slave address
CI    slaveaddress    1
#   discrete channel group, inputcoils or inputstatus
CI  dchannelgroup     inputstatus
#   float channel group, inputregisters or holdingregisters
CI  fchannelgroup     inputregisters
#   timeout in ms
CI    timeout         100
#   max number of Modbus register channels
CI  maxregchannel      5
# =======================================
# EMS1_ME (Generic Modbus Ethernet Driver) subsystem
# ---------------------------------------
SS    EMS1_ME                     FALSE
```

```
CI    host                          picard
CI    service                      debug_srv2
#   sign: signed or unsigned
CI    sign            unsigned
#   endian: little or big
CI    endian                  big
#   datatype:  float or short (short is for short integer)
CI    datatype                    short
#   use decimal format for the slave address
CI    slaveaddress    1
#   discrete channel group, inputcoils or inputstatus
CI  dchannelgroup     inputstatus
#   float channel group, inputregisters or holdingregisters
CI  fchannelgroup     inputregisters
#   timeout in ms
CI    timeout         100
#   protocol, tcp or udp
CI  protocol          tcp
#   max number of Modbus register channels
CI  maxregchannel     100
#   TCP implementation (use either Woodward or OpenMODBUS)
CI  modbus_tcp              Woodward
#   write multiple registers : multiple/single
CI  writemultipleregisters  single
#   max range of coil addresses in one output request (<= 1968)
CI  maxcoiloutput     1920
#   max range of holding register addresses in one output request (<=120)
CI  maxregoutput      120
#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS  PLC_TTY            TRUE
# the TTY device name for the PLC communication (no default)
CI    device             /dev/ttyd2
# the TTY port buadrate (default = 9600)
CI    baudrate           38400
# the number of data bits (default = 8)
CI    databits           8
# the number of stop bits (default = 1)
CI    stopbits           1
# the parity (N = None, E = Even, O = Odd) of the data (default = N)
CI    parity             N
# the protocol (SIGNED or UNSIGNED) used by the PLC (default = SIGNED)
CI    RTU_protocol       SIGNED

#-------------------------------------------------------------------------
# DTCI Subsystem
#-------------------------------------------------------------------------
SS    DTCI                   TRUE
# the trigger type (SW or HW)
CI    trigger                SW
# the reply timeout in seconds
CI    reply_timeout          10
# engineering unit, or user factor
CI    engineering_unit       psi
# intermittent temperature rate in seconds
CI    temperature_scan_rate  5
# zero calibration stabilization time in seconds
CI    zero_stabilize_time    10
# the service name to communicate to the DTC Initium systems
CI    service_name           dtc_srv

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    COXFLOW            TRUE
```

```
# the port to which the Cox flow meter is connected to
CI     device            /dev/tty1
# the baud rate of the Cox flow meter
CI     baudrate          300
# enable or disble parity (0 = off)
CI     parity            TTY_EVEN
# set number of stop bits
CI     stopbits          1
# set number of data bits
CI     databits          7
# timeout value for communicating with the COX flow
CI     timeout           1000

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    ARINC_BALLARD        TRUE
# VME A16 address
CI     a16                0xf700
# VME A32 address
CI     a32                0x17000000
# enable or disble port directory
CI     tx                 3
CI     tx                 4
CI     tx                 5
CI     tx                 6
# Engine type
CI     T800_type          TRENT_800
# T800 OMS scan thread priority
CI     T800_priority      5
# T800 OMS scan rate
CI     T800_scan_rate     10
# TX label resetting time in msec
CI     T800_reset_time    50
# Engine type
CI     T700_type          TRENT_700
# T700 OMS data update rate (ms) by EEC
CI     T700_oms_rate      100
# T700 OMS scan thread priority
CI     T700_priority      5
# Shared memory key (if used, must also be specified in the command line)
CI     acl_key            17
# SSM string:  <engine> <encoding> <string <00> <01> <10> <11> >
CI     SSM_string         TRENT_800 DIS NOP NCD FT FW
# The service name of Arinc Channel list server for PRODAS
CI     acl_srvname         acl_srv
#Ballard card number in the PCI bus (default=0)
CI     card_number        0
#TRUE to disable encoding for the label: flight number
CI    label_fln_disable   FALSE
#TRUE to disable encoding for the label: time
CI    label_time_disable  FALSE
#TRUE to disable encoding for the label: date
CI    label_date_disable  FALSE

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    DYNAMIC               TRUE
# AVM TRUE / FALSE  flag
CI     avm_enable           TRUE
# Telemetry TRUE / FALSE  flag
CI     tel_enable           TRUE
# DDS send_config flag
CI     send_config          FALSE
# AVM service name
```

```
CI     avm_service          avm_srv
# Telemetry service name
CI     telemetry_service    tel_srv
# calibration service name
CI     calibration_service  cal_srv
# FTP user name
CI     ftp_user             ftpuser
# Number of avm packets allowed to be missing
CI    max_avm_pack_miss     5
# Number of retries on AVM socket
CI    avm_retries           50
# Number of telemetry packets allowed to be missing
CI    max_tel_pack_miss     5
# Number of retries on TELEMETRY socket
CI    tel_retries           50
# time out used for real time processing
CI    max_pack_miss_on_sel  3
# Number of retries on CALIBRATION socket
CI    cal_retries           50
# EAIF_server host name
CI    eaif_server_host      edas_rt
# EAIF_server service name
CI    eaif_server_service   eaif_srv

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS  DDSC                  TRUE
# DDS host name that DDSC is connecting to
CI    dds_host_name          fuji
# DDS Service name that DDSC is connecting to
CI    dds_srv_name           dds_port
# Communication timeout in milliseconds
CI    con_timeout            10000
# State change timeout in seconds
CI    state_timeout          30
# DDS version (3, 4, 4.5)
CI    dds_version            3
# Save sentry duration in second
CI    sentry_duration        3600

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    GASSDIO             TRUE
# card info (VXI chassis,slot and VME address)
# EDAS can configure more than one card
CI     card               2 6 0xE800

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    G2_1                  TRUE
CI     device             /dev/g2_mem
CI     version            G2020

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    GASSAI              TRUE
# card info (VXI chassis,slot,VME address,sample to use in an average,
#            sample period)
# EDAS can configure more than one card
CI       card     1 1 0xc400 0x900000 4 37
# Extrapolation value
# (float number, zero means no extrapolation, less than zero is invalid)
```

```
CI       extrap_value    10
# Extrapolation quality (G/B/S)
CI       extrap_quality  S
# number of ms to wait after removing excitation voltage
CI       temf_n1     12.5
# number of ms to wait for settling after applying the excitation voltage
CI       temf_n2     12.5
# an integer number of samples to use in an average for calculating EMF
CI       temf_n      4
# a float describing the maximum negative bridge balance correction in volts
CI       bb_lo_limit    -0.0001
# a float describing the maximum positive bridge balance correction in volts
CI       bb_hi_limit    0.0001
# a float describing trhe maximum negative EMF correction in volts
CI       temf_lo_limit  -0.0006
# a float describing the maximum positive EMF correction in volts
CI       temf_hi_limit  -0.0006
# an integer describing the number of samples to take in an average to
# arrive at bridge balance correction values
CI       bb_count_in_average    400
# the value to be stored in the CVT for DC strain channels while a EMF
# calculation is being done. Values are "last_value" or "bad_value"
CI       temf_display   last_value
#  EMF excitation channel name
CI       temf_excitation_channel  DCExcite
#  EMF control channel name
CI       temf_control_channel     DCControl
#  Flag to indicate if thermal correction is "on" or "off"
CI       temf                     on
# EMF excitation channel polarity - POSITIVE or NEGATIVE
CI       temf_excitation_polarity    POSITIVE
#
#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    GASSAO             TRUE
# card info (VXI chassis,slot and VME address)
# EDAS can configure more than one card
CI       card     2 10 0xF000

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    GASSFC             TRUE
# card info (VXI chassis,slot and VME address)
# EDAS can configure more than one card
CI       card     1 5 0xCA00

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    GASSTC             TRUE
# Mode type(Long/Short) and measurment timeout
CI     period            Short 1.01
# card info (VXI chassis,slot,VME address and trigger period in milliseconds)
CI     card              3 4 0xf400 0x980000 5.0

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    PBS                TRUE
# service name
CI     port              pbs
# number of bricks per zone
CI     zone              20
# software or hardware trigger; OFF or ON
```

```
CI     trigger           ON 33
# no of days to next cal; default don't show anything
CI     min_days_to_cal   30
# scan rate for accelerated transfer
CI     accel_xfer        33
# reply time-out in seconds
CI     reply_timeout     60
# UEL source name for cal date messages
# This name should match with the 'cal_uel_source' name in the
# DB server .config file
CI     cal_uel_source    CALCHK
# Discrete output channel used to control vent relay
# (MUST appear in .config before the other 3 vent CI's)
CI     vent_control_ch    D001
# Discrete feedback channel from relay
CI     vent_feedback_ch  D002
# Milliseconds to allow all purge valves to open
CI     valve_on_delay    2000
# Milliseconds to allow venting to take affect
CI     valve_off_delay   2000
# Continuous purge mode: (continuous, high/low, none)
CI     cont_purge_mode   continuous
# Engine ready to run channel (discrete channel)
CI     eng_running_ch    EngRunningCh
# The following two parameters are used only for continuous purge mode
# Continuous purge control channel (discrete channel)
CI     cont_purge_ctrl_ch PurgeCtrlCh
# Continuous purge delay channel (float channel)
CI     cont_purge_delay_ch PurgeDelayCh
# The following parameter is used only for high/low continuous purge mode
# High/low pressure control channel (discrete channel)
CI     hilo_press_ctrl_ch  hilo_ctrl_ch
#-------------------------------------------------------------------------
# TSM (Temperature Scanning Modules) subsystem
#-------------------------------------------------------------------------
SS    TSM                TRUE
# service name
CI     port              pbs
# software or hardware trigger;
CI     trigger           SW
#  hardware trigger scan rate
CI     hw_trigger_rate   100
# no of days to next cal; default don't show anything
CI     min_days_to_cal   30
# scan rate for accelerated transfer
CI     accel_xfer        50
# response time-out in seconds
CI     response_timeout  60
# UEL source name for cal date messages
# This name should match with the 'cal_uel_source' name in the
# proDAS DB server .config file
CI     cal_uel_source    CALCHK
# tolerance for open circuit detected
CI     tolerance_counter 2
# Back-off delay offset counter min 0 and max 100
CI     delay_offset 0

#-------------------------------------------------------------------------
#
# ========================================
# DPS (Digital Pressure Scanners) subsystem
# ----------------------------------------
SS    DPS                FALSE
# DPS service name (default telnet)
CI     port              telnet
# software or hardware trigger; OFF or ON
```

```
CI     trigger           OFF
# scan rate for accelerated transfer
CI     accel_xfer        50
# reply time-out in seconds
CI     reply_timeout     60
# protocol, TCP or UDP
CI     protocol          UDP
#-------------------------------------------------------------------------
#
# ============================================
# DTS (Digital Thermocouple Scanners) subsystem
# --------------------------------------------
SS    DTS                FALSE
# DPS service name (default telnet)
CI     port              telnet
# software or hardware trigger; SW or HW
CI     trigger           SW
# external trigger rate (Hz)
CI     hw_trigger_rate   100
# number of averages during calibration
CI     calavg            4
# maximum allowable difference between RTD values
CI     maxdelta          10.0
# scan rate for accelerated transfer
CI     accel_xfer        20
# reply time-out in seconds
CI     reply_timeout     3
#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
# RTP2000 subsystem
#-------------------------------------------------------------------------
SS    RTP_2000               TRUE
# rtp_service_name
CI      rtp_service_name      rtp_2000
# rtp_broadcast_name(must match the one defined in /etc/hosts)
CI      rtp_broadcast_name      rtp_2000_broadcast
# rtp_max_timeout(ms, default=1000ms)
CI      rtp_max_timeout       1000
# rtp_max_retries(default=3)
CI      rtp_max_retries       3
# rtp_retry_interval(sec, default=60s)
CI      rtp_retry_interval    60
# max_scan_rate(Hz, default=10Hz)
CI      max_scan_rate         10 (10Hz is the max possible for the throttle)
# RTP protocol (default=RTP2000, RTP2300)
CI     rtp_protocol          RTP2000

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    PLC                TRUE
# The TCP/IP name of the PLC host
CI     host_name         plc1
# The name of the service for TCP/IP port
CI     service           plc_tcp
# The name of the file on the PLC for float inputs
CI     float_in          F36
# The name of the file on the PLC for float outputs
CI     float_out         F26
# The name of the file on the PLC for discrete inputs
CI     disc_in           B35
# The name of the file on the PLC for discrete outputs
CI     disc_out          B25

#-------------------------------------------------------------------------
```

```
#
#-------------------------------------------------------------------------
SS    PWM                TRUE
# Command host name
CI     cmd_host          dpwmw2
# Command host service name
CI     cmd_service       pwm_ws
# Data host name
CI     data_host         daiut1
# Data host service name
CI     data_service      pwm_vax
# Trent engine names
CI     TRENT             TRENT_700
# BRR engine names
CI     BRR               BR_710

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    SCUTR              TRUE
# Flag to use VME SCUTR interface (TRUE) or PCI SCUTR interface (FALSE)
CI     vme_if            TRUE
# Card number, and card A32 VME address
# EDAS can configure more than one card
CI     card              1     0x15000000

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    DYNAMIC_DDTC       TRUE
# UNIX device name for RS485 port
CI     device            /dev/ttyd3
# Baud-rate used by TTY
CI     baudrate          19200
# Parity used by TTY
CI     parity            1
# Number of stop bits used by TTY
CI     stopbits          1
# Number of data bits used by TTY
CI     databits          8
# Time out for TTY in milliseconds
CI     timeout_ms        50
# Time out for SPT TTY in milliseconds
CI     spt_timeout_ms    300
# Wing box sned time in milliseconds
CI     wbsend_ms         200
# LP ground station device address
CI     LP_dev_addr       0
# IP ground station device address
CI     IP_dev_addr       0
# HP ground station device address
CI     HP_dev_addr       0

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    TDM_1               TRUE
# digbert unit serial port device name
CI     dev_digbert       /dev/ttyd3
# digbert port rate(baud),bits per byte(6,7,8),parity(N,O,E),stop bits(0,1,2)
CI     port_digbert      9600 8 1 N
# incaip unit serial port device name
CI     dev_incaip        /dev/ttyd2
# incaip port rate(baud),bits per byte(6,7,8),parity(N,O,E),stop bits(0,1,2)
CI     port_incaip       9600 8 1 N
# incahp unit serial port device name
```

```
CI     dev_incahp         /dev/ttyd1
# incahp port rate(baud),bits per byte(6,7,8),parity(N,O,E),stop bits(0,1,2)
CI     port_incahp        9600 8 1 N

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    THRUST              TRUE
# driver communicating with the WEI1 port
CI     WEI_device         /dev/ttyd1
# Baud-rate used for WEI
CI     WEI_baudrate       9600
# Parity used for WEI
CI     WEI_parity         none
# Number of stop bits used for WEI
CI     WEI_stopbits       1
# Number of data bits used for WEI
CI     WEI_databits       8
# Instrument address in E-2-WEI
CI     WEI_instr_addr     01
# driver communicating with the WEI2 port
#CI     WEI2_device         /dev/null
# Baud-rate used for WEI
#CI     WEI2_baudrate       9600
# Parity used for WEI
#CI     WEI2_parity         none
# Number of stop bits used for WEI
#CI     WEI2_stopbits       1
# Number of data bits used for WEI
#CI     WEI2_databits       8
# Instrument address in E-2-WEI
#CI     WEI2_instr_addr     02
# driver communicating with the TAD1 port
CI     TAD1_device        /dev/ttyd2
# Baud-rate used for TAD1
CI     TAD1_baudrate      9600
# Parity used for TAD1
CI     TAD1_parity        none
# Number of stop bits used for TAD1
CI     TAD1_stopbits      1
# Number of data bits used for TAD1
CI     TAD1_databits      8
# driver communicating with the TAD2 port
#CI     TAD2_device        /dev/ttyd2
# Baud-rate used for TAD2
#CI     TAD2_baudrate      9600
# Parity used for TAD2
#CI     TAD2_parity        none
# Number of stop bits used for TAD2
#CI     TAD2_stopbits      1
# Number of data bits used for TAD2
#CI     TAD2_databits      8
# Number of milliseconds that EDAS should wait for a TAD to respond.
CI     TAD_timeout        300
# Number of consecutive times EDAS will try to reestablish communication with a TAD
CI     TAD_retries        2
# Number of seconds before giving up on the WEI
CI     lostcomm_timeout   180
# Default channel quality to use during temporary communication loss
# one of GOOD / BAD / SUSPECT
CI     WEI_comm_fail_quality  GOOD
# maximum number of consecutive communication failures to tolerate
CI     WEI_max_comm_fail      5
# WEI device
# Communication protocol for WEI devices
#CI     WEI_Protocol   WEI
```

```
CI     WEI_Protocol    TAD

#-------------------------------------------------------------------------
#   THG (Thrust generic ) subsystem
#-------------------------------------------------------------------------
SS     THG               TRUE

#serial port
CI     WRK1_device       /dev/ttyn000
#communication parameter, including buadrate data bits stop bits parity
CI     WRK1_port         38400 8 1 N
#instrument address
CI     WRK1_instr_addr   01
#sign, could be + or -
CI     WRK1_sign         +
#delay before send request
CI     WRK1_send_delay     0
#delay before read response
CI     WRK1_receive_delay  5

#serial port
CI     WRK2_device       /dev/ttydn001
#communication parameter, including buadrate data bits stop bits parity
CI     WRK2_port         38400 8 1 N
#instrument address
CI     WRK2_instr_addr   01
#sign, could be + or -
CI     WRK2_sign         +
#delay before send request
CI     WRK2_send_delay     5
#delay before read response
CI     WRK2_receive_delay  10

#serial port
CI     WRK3_device       /dev/ttydn002
#communication parameter, including buadrate data bits stop bits parity
CI     WRK3_port         38400 8 1 N
#instrument address
CI     WRK3_instr_addr   01
#sign, could be + or -
CI     WRK3_sign         +
#delay before send request
CI     WRK3_send_delay     5
#delay before read response
CI     WRK3_receive_delay  10

#serial port
CI     WRK4_device       /dev/ttydn003
#communication parameter, including buadrate data bits stop bits parity
CI     WRK4_port         38400 8 1 N
#instrument address
CI     WRK4_instr_addr   01
#sign, could be + or -
CI     WRK4_sign         +
#delay before send request
CI     WRK4_send_delay     5
#delay before read response
CI     WRK4_receive_delay  10

# device type, either E-2-TAD or AST3
CI     MSTF1_device_type E-2-TAD
#serial port
CI     MSTF1_device      /dev/ttydn004
#communication parameter, including buadrate data bits stop bits parity
CI     MSTF1_port        4800 8 1 N
#instrument address
```

```
CI     MSTF1_instr_addr  01
#sign, could be + or -
CI     MSTF1_sign         +
#delay before send request
CI     MSTF1_send_delay    35
#delay before read response
CI     MSTF1_receive_delay 45

# device type, either E-2-TAD or AST3
CI     MSTR1_device_type E-2-TAD
#serial port
CI     MSTR1_device      /dev/ttydn005
#communication parameter, including buadrate data bits stop bits parity
CI     MSTR1_port        4800 8 1 N
#instrument address
CI     MSTR1_instr_addr  01
#sign, could be + or -
CI     MSTR1_sign         +
#delay before send request
CI     MSTR1_send_delay    35
#delay before read response
CI     MSTR1_receive_delay 45

# device type, either E-2-TAD or AST3
CI     MSTF2_device_type E-2-TAD
#serial port
CI     MSTF2_device      /dev/ttydn006
#communication parameter, including buadrate data bits stop bits parity
CI     MSTF2_port        4800 8 1 N
#instrument address
CI     MSTF2_instr_addr  01
#sign, could be + or -
CI     MSTF2_sign         +
#delay before send request
CI     MSTF2_send_delay    35
#delay before read response
CI     MSTF2_receive_delay 45

# device type, either E-2-TAD or AST3
CI     MSTR2_device_type E-2-TAD
#serial port
CI     MSTR2_device      /dev/ttydn007
#communication parameter, including buadrate data bits stop bits parity
CI     MSTR2_port        4800 8 1 N
#instrument address
CI     MSTR2_instr_addr  01
#sign, could be + or -
CI     MSTR2_sign         +
#delay before send request
CI     MSTR2_send_delay    35
#delay before read response
CI     MSTR2_receive_delay 45

#working load cell device timeout in ms
CI     WRK_timeout       500
#master load cell device timeout in ms
CI     MST_timeout       500
#average
CI     AverageReadings   2

#=======================================
# GASS (Analog Input) subsystem
#---------------------------------------
# card info (VXI chassis,slot,VME address,sample to use in an average,
#            sample period trigger period)
# EDAS can configure more than one card
```

```
SS  GASS              TRUE
CI    card                1 1  0xC400 0xA00000 4 37 5.0
CI    card                1 2  0xC600 0xA40000 4 37 5.0
CI    card                1 3  0xC800 0xA80000 4 37 5.0
CI    card                1 4  0xCA00 0xAC0000 4 37 5.0
CI    card                1 5  0xCC00 0xB00000 4 37 5.0
CI    card                1 6  0xCE00 0xB40000 4 37 5.0
CI    card                1 8  0xD200 0xBC0000 4 37 5.0
# Mode type(Long/Short) and measurment timeout
CI    period              Short 1.01
# number of ms to wait after removing excitation voltage
CI    temf_n1             17.5
# number of ms to wait for settling after applying the excitation voltage
CI    temf_n2             17.5
# an integer number of samples to use in an average for calculating EMF
CI    temf_n              2
#  Flag to indicate if thermal correction is "on" or "off"
CI    temf                OFF
#  EMF excitation channel name
CI    temf_excitation_channel   DCStrainControlZero01
#  EMF control channel name
CI    temf_control_channel      DCControl
#  RTD control channel name
CI    rtd_control_channel       RTD
#  RTD notify channel name
CI    rtd_notify_channel        RTDNOTIFY
# Extrapolation value
# (float number, zero means no extrapolation, less than zero is invalid)
CI    extrap_value        10
# Extrapolation quality (G/B/S)
CI    extrap_quality      S
# a float describing the maximum negative bridge balance correction in volts
CI       bb_lo_limit    -0.0001
# a float describing the maximum positive bridge balance correction in volts
CI       bb_hi_limit    0.0001
# a float describing trhe maximum negative EMF correction in volts
CI       temf_lo_limit  -0.0006
# a float describing the maximum positive EMF correction in volts
CI       temf_hi_limit  -0.0006
# an integer describing the number of samples to take in an average to
# arrive at bridge balance correction values
CI       bb_count_in_average    400
# the value to be stored in the CVT for DC strain channels while a EMF
# calculation is being done. Values are "last_value" or "bad_value"
CI       temf_display   last_value
# EMF excitation channel polarity - POSITIVE or NEGATIVE
CI       temf_excitation_polarity    POSITIVE
# Flag to do cal_zero or not (TRUE or FALSE), default is TRUE
CI       cal_zero         TRUE
#
#-------------------------------------------------------------------------
# An External Hook Subsystem
#-------------------------------------------------------------------------
SS    TOCEUM              TRUE
# connection used: socket or shared memory
CI     connection         SOCKET
# service name or shared memory key
CI     serv_key           toceum_srv
# program name of the client
CI     program            /users/EDAS/bin/exe/toceum -c /users/EDAS/bin/exe/.toceum.config -s
# heartbeat channel name
CI     heartbeat          TE_HEARTBEAT
# error channel name
CI     error              TE_ERROR
# maximum value of heartbeat channel
CI     tolerance          30
```

```
CI     init_tolerance    120
# maximum number of consecutive retries to restart client
CI     retry             3
# delay before checking the value of heartbeat
CI     delay             10
# flag to set the sentivity to the Enable/Disable button
CI     allow_disable     No

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    LOG_PLAYBACK       TRUE
# Time (sedonds) saved before event
CI     crit_pre_event    120
# Time (seconds) saved after event
CI     crit_post_event   60
# Rate (Hz) of critical log
CI     crit_rate_hz      200
# Rate (chan/sec) maximum aggregate rate
CI     max_agg_rate      10000
# Key word for the description, value 2: Command line for conversion prg
CI     log_conversion    RRDS /users/EDAS/bin/exe/eaif -f /users/EDAS/bin/exe/.eaif_r2d2.config
-t TR
CI     log_conversion    DDAS /users/EDAS/bin/exe/eaif -f /users/EDAS/bin/exe/.eaif_ddas.config
-t TR
CI     log_conversion    CDF  /usr/bin/rsh prodasmgt "<[MIN]>" c:\\proDAS\\bin\\DCU.exe
/testname=$TESTNAME$ /log=$LOGNAME$
# History log version being output
CI     log_version       4.0
# Size of critical log in MBytes
CI     crit_size         40
# precision of float values in report
CI     report_precision  4
# Critical log description
CI     crit_description  RRDS DDAS critical log description
# Flag controlling the location of the report directory
CI     use_testeng_dir_4_rep  FALSE
# Flag controlling the continuous log
CI     cl_enabled         FALSE
# Continuous log scan rate (from 1 Hz to 10 Hz)
CI     cl_scan_rate       10
# Maximum file size (Kilobytes)
CI     cl_max_file_size   2000
# Maximum number of tests
CI     cl_max_number_test 20
# Discrete channel name to control the stop and start of continuous log
CI     cl_trigger
# Maximum number of seconds to delay before stopping continuous log
CI     cl_max_off_delay   10
# Subsystem names to be excluded from the continuous log (seperated by space)
CI     cl_exclude_ss      MOPS
# allow continuous log to scan at up to 100 Hz (TRUE or FALSE)
CI     cl_exceedance      FALSE
# Maximum buffer duration (in seconds: 5 - 600) for transient log
CI     max_buf_duration   10
# Log action format: Key_word Opcode_cmd Record_number_channel output_channel
Optional_record_number_value
# For PW at Glacier, we need to define pre_log_start, post_log_stop and pre_save_critical actions
# pre_log_start action
CI     pre_log_start      PW op_rec_num REC_NO O30002
# post_log_start action
#CI     post_log_start     PW op_rec_num REC_NO O30002
# pre_log_stop action
#CI     pre_log_stop       PW op_rec_num REC_NO O30002 -1
# post_log_stop action
CI    post_log_stop       PW op_rec_num REC_NO O30002 -1
```

```
# pre_save_critical action
CI    pre_save_critical   PW op_rec_num REC_NO O30004
# post_save_critical action
#CI    post_save_critical   PW op_rec_num REC_NO O30004
# recording number monitor channel
CI    rec_num_monitor_chan EnableRecNum
# Flag if unlimited log is supported (TRUE or FALSE)
CI    unlimited_log       FALSE
# Flag if a new continuous log is always created (TRUE or FALSE, default is FALSE)
CI    cl_always_create_new_log    FALSE
#-------------------------------------------------------------------------
# External Hook Subsystem
#-------------------------------------------------------------------------
SS    External           TRUE
# service name or shared memory key
CI     serv_key          ex_serv
# connection type
CI     connection        SOCKET
# server timeout in second
CI     serv_timeout      30
# set to yes if the client is on the system O/S; otherwise no
CI     kill_client       no

#-------------------------------------------------------------------------
# An External Hook Subsystem
#-------------------------------------------------------------------------
SS    RNA                TRUE
# service name or shared memory key
CI     serv_key          ex_serv
# connection type
CI     connection        SOCKET

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    DYNAMIC_AVM         TRUE
# The TCP/IP name of the GPIB host
CI     host_name          GPIB_ENET_0
# The GPIB service type for the TCP/IP connection
CI     gpib_server        gpib_tcp
# Address, number of channels, number of tracking filters of the AVM hardware
CI     avm_info           2 6 0
# Default low frequency
CI     avm_low_freq       21
# Default high frequency
CI     avm_high_freq      217
# Default acceleration sensitivity
CI     avm_acc_sens       50
# Default velocity sensitivity
CI     avm_vel_sens       500
# Default Tracking Filter Mode
CI     avm_tf_mode        0
# AVM Connection: value 1, release connection, any other value has no effect
CI     avm_connection      1
# Do not calibrate the following channel
CI     avm_ch              1
CI     avm_ch              2

#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    ATH_01                TRUE
#The name of the device communicating with Hygro-M2
CI     ath_dev_name  /dev/ttydn001
#The time out of the device
CI     ath_time_out  1000
```

```
#Time delay for reading data from RS232 in millisenconds
CI     ath_timeval   10
#RS-232-C device baud rate
#For Setra470, set ath_baud_rate to 9600
CI     ath_baud_rate 1200
#RS-232-C device stop bits
CI     ath_stop_bits 1
#RS-232-C device data bits
CI     ath_data_bits 8
#RS-232-C device parity
CI     ath_parity    0
#Device type (Hygro_M2, DPI141, SETRA470 or CPT6100)
#CI     ath_device_type   Hygro_M2
#CI     ath_device_type   DPI141
#CI     ath_device_type   SETRA470
CI     ath_device_type   CPT6100
#Name of the Temperature CVT channel
#only be used for HYGRO_M2 channel
CI     temp_ch_name  Temperature
#Name of the Humidity CVT channel
#only be used for HYGRO_M2 channel
CI     hum_ch_name   Humidity
#Name of the Dew Point CVT channel
#only be used for HYGRO_M2 channel
CI     dp_ch_name    Dew_Point
#Name of the DPI141 CVT channel
#only be used for DPI141 channel
CI     baro_ch_name  dpi141
#Maximum number of reconnection attempts
CI     max_attempts  5
# the filter percentage (CPT6100 only), default 0
CI     cpt6100_filter    0
#-------------------------------------------------------------------------
#
#-------------------------------------------------------------------------
SS    IRIGB               TRUE
# The base address of the TrueTime card in the VME bus
CI     base_addr          0xf000
# The path and the name of the device file
CI     dev_file           /dev/vme/vme0a16n
# Boolean to indicate if RT correction is performed
CI     rt_correct         TRUE
# Offset for 'day of year'
CI     yday_offset        0

#-------------------------------------------------------------------------
# WEATHER (External) subsystem
#-------------------------------------------------------------------------
SS  WS          TRUE
# Command line to start WS
CI    program               ws_test -c .config.ws -s
# Type of IPC communication used
CI    connection          SOCKET
# Shared memory service key number
CI    serv_key            ws_serv
# Heartbeat channel tolerance value
CI    tolerance           30
CI    init_tolerance  120
# Number of program restarts allowed
CI    retry               3
# Heartbeat channel delay value
CI    delay               10
# Enable/Disable EXT HOOKS button in GUI
CI    allow_disable     No
# Name of Heartbeat channel
CI    heartbeat           WS_HEARTBEAT
```

```
# Name of Error channel
CI    error               WS_ERROR

#-------------------------------------------------------------------------
# HSS (High Speed Sentry) subsystem
#-------------------------------------------------------------------------
#Note: SS DYNAMIC and HSS cannot be Both TRUE at the same time
SS  HSS                FALSE
#save sentry history length in seconds
CI    history_length       60
#save sentry post event length in seconds
CI    post_length          60

#-------------------------------------------------------------------------
# TRUTEMP subsystem
#-------------------------------------------------------------------------
SS  TRUTEMP    TRUE
# Well known service port name (/etc/services)
CI    tt_service_name           tt_gate
# Retry gateway connection this many times
CI    comm_retries              1
# Delay time in mS between reconnect attempts
CI    comm_retry_interval       1000
# File to dump TruTemp diagnostics info
CI    diag_filename             TTdiag.log
# Gateway host names (/etc/hosts) & synch pulse address
CI    gateway                   rrc7ttg2  0
CI    gateway                   rrc7ttg1  0xf0
CI    gateway                   rrc7ttg3  0xf1
# Dump the coefficients to the TTdiag file
CI    dump_coeffs               FALSE
# Perform loop resistance testing for all
CI    loop_resist               FALSE
# Perform earth conductance testing for all
CI    earth_cond                FALSE
# Ethernet communcation protocol, tcp or udp
CI    protocol         UDP

#-------------------------------------------------------------------------
# TBDAU Subsystem
#-------------------------------------------------------------------------
SS   TBDAU                      FALSE
CI   tbdau_dev_name             /dev/ttydn004
CI   tbdau_baud_rate            9600
CI   tbdau_stop_bits            1
CI   tbdau_parity               2
CI   tbdau_data_bits            8
CI   tbdau_timeout              300
CI   tbdau_max_attempts         3

#-------------------------------------------------------------------------
# UTRH Subsystem
#-------------------------------------------------------------------------
SS   UTRH                       FALSE

#-------------------------------------------------------------------------
# MSS Subsystem
#-------------------------------------------------------------------------
SS   MSS                      FALSE
# specifies the time required to allow the MSS to settle-down after stepping from
# one port to the next
CI   settling_time            180
# specifies the duration of the impluse
CI   impulse_time             15
# specifies the minimum time reqiured between impluse
CI   time_between_impulse     60
```

```
# The physical tolerance in EU's for the MSS for checking the quick zero deviation
CI   zero_tolerance           10
# if the position_confirm set to OFF, the driver won't do port position checking
# the default is ON
#CI   position_confirm         OFF
CI   ambient_channname        amb_channel
# Sample to be taken for average
CI   avg_sample               1
# Delay between reading each sample data
CI   read_delay               5
# Decoding BCD / BNR_32
CI   decoding                BCD
# Syncronous Mode SYNC / ASYNC
CI   mode                    SYNC
# TRUE will generate info message for ambient channel if defined and found.
CI   ambch_uel_infomsg       FALSE
# TRUE will ignore sv zero press volt channels verification if defined.
CI   ignore_sv_zerochan      FALSE
CI   sv_zero_pres_volt       1,sv1_zero_pv
CI   sv_zero_pres_volt       2,sv2_zero_pv
CI   sv_zero_pres_volt       3,sv3_zero_pv
CI   sv_zero_pres_volt       4,sv4_zero_pv
CI   sv_zero_pres_volt       5,sv5_zero_pv
CI   sv_zero_pres_volt       6,sv6_zero_pv
CI   sv_zero_pres_volt       7,sv7_zero_pv
CI   sv_zero_pres_volt       8,sv8_zero_pv
CI   sv_zero_pres_volt       9,sv9_zero_pv
CI   sv_zero_pres_volt       10,sv10_zero_pv
CI   sv_zero_pres_volt       11,sv11_zero_pv
CI   sv_zero_pres_volt       12,sv12_zero_pv

#-------------------------------------------------------------------------
# CONSORT Subsystem
#-------------------------------------------------------------------------
SS   CONSORT                 FALSE
# Server name that RTE uses to communicate with the CONSORT H/W
CI   service_name            udp_test1
# Maximun milliseconds RTE waits for CONSORT H/W to respond.
CI   timeout                 1000

#-------------------------------------------------------------------------
# HPS Subsystem
#-------------------------------------------------------------------------
SS   HPS                      TRUE
# It is possible to have up to 8 hyscan entries.
# 1) HyScan Letter [A-H], 2) GPIB address [1-31], 3) hostname, 4) Hiline used [0|1]
# NOTE: not shown here are 2 hidden hyscan parameters, they are 2 integer numbers
#       that will override the program defaults of GPIB data buffer size and
#       read data window size for the given PC.  The defaults should be sufficient
#       which is why they are hidden/optional parameters
CI    hyscan             a  4  acatgpib1  1
CI    hyscan             b  5  acatgpib2  1
CI    hyscan             C  6  acatgpib3  0
# Tolerance percentage for Zero Difference reporting when last was < 12 hours ago
CI    tol_zd_lt12        0.5
# Tolerance percentage for Zero Difference reporting when last was > 12 hours ago
CI    tol_zd_gt12        2.3
# Tolerance percentage for checking transducer value after hiline zero operation
CI    tol_hiline         0.7
# Retry offline HyScan connections, number of times before giving up, to retry
# continuously set this value to an arbitrarily high number.  Remember also
# that the retry works each time the START SCAN event occurs
CI    gpib_retry         1
# Verify presence of calibrators.  This feature is not totally necessary and
# shutting it off can reduce 5-10 seconds for the time CONFIGURE takes to complete
CI    verify_calib       TRUE
```

```
# Name of Calibration Coefficients file to use (HyScan Letter and date/time are appended)
CI    hps_calcoef_log    HPS_calcoefs.log
# Name of Zero Difference Report to use (HyScan Letter and date/time are appended)
CI    hps_zero_report    HPS_zerodiff.log
# Name of High line Zero Report file to use (HyScan letter & date appended)
CI    hps_hiline_rpt     HPS_highline.log
# Standard GPIB service port name for GPIB/ENET-100 devices
CI    gpib_service       gpib_tcp
# "SET" items that are used to configure each HyScan PC (see HyScan 2000 manual)
CI    conf_setting       CALIBRATION_FILE_EXTENSION  000
CI    conf_setting       CALIBRATION_FILE_NAME       calcoefs
# Time out value for the calibration (per PC in seconds)
CI    time_calib         350
# Time out value for the zero operation (per PC in seconds)
CI    time_zero          100
# Time out value for the hiline zero (per PC in seconds)
CI    time_hizero        120
# Setting to map auxiliary purge to specific HyScan PC
CI    auxiliary_purge    C
# Critical settings for Auxiliary Purge
CI    aux_purge_zone     1  1  34.0
CI    aux_purge_zone     1  2  69.0
CI    aux_purge_zone     1  3  344.0
CI    aux_purge_zone     4  3  137.0
# number of calibrators
CI    num_calibrators    6
# data query type: POLL or CONTINUOUS, default as CONTINUOUS
CI    data_query         CONTINUOUS
# delay time in ms for reading data after sending PREPARE_SCAN, default:0
CI    scan_delay         30

#=======================================
# HSV (Analog Input) subsystem
#---------------------------------------
# card info (VXI chassis,slot,VME address,sample to use in an average,
#            sample period trigger period)
# EDAS can configure more than one card
SS    HSV                TRUE
CI    card               1 2  0xC600 0xA40000
CI    card               1 4  0xCA00 0xAC0000
# Extrapolation value
# (float number, zero means no extrapolation, less than zero is invalid)
#CI    extrap_value        10
# Extrapolation quality (G/B/S)
CI    extrap_quality      G
# pre-event log time(second), must great than 3 second
CI    pre_event_time      10
# post-event log time(second), must great than 3 second
CI    post_event_time     40
# card log mode (CONTINUOUS or CIRCULAR)
CI    log_mode        CONTINUOUS
# store EU converted value into log (YES or NO)
CI    store_EU_converted   YES
# save together with critical log (YES or NO)
CI    save_with_critical       YES

#=======================================
# CEC-8000 subsystem
#---------------------------------------
SS     CEC                 TRUE
#Chassis information
chassis             1 /dev/ttyM3 19200 1 8 N
#Time out in ms. Must be greater than 3000 ms)
CI    timeout        3000
#Maximum number of retry before give up
CI    retry               3
```

```
# ========================================
# M1553 subsystem
# ----------------------------------------
SS  M1553                       TRUE
#Ballard card number in the PCI bus
CI  card_number                 1
#Maximum response time in us (before setting the channel quality to suspect)
CI  exp_resp_time               12
#   init_port, init_method, trigger chan, trig node1, trig node2,...
#CI  init_params                 0, WC, trigger,1,2
#TRUE to reverse the word order - default to TRUE
CI  reverse_word_order          TRUE

# ========================================
# OPC subsystem
# ----------------------------------------
SS  OPC                     TRUE
# OPC server info: prefix, critical_flag, main URL, optional secondary URL
# Multiple OPC server info line can be defined.
CI  opc_server     soft_bridge, false,  http://plc_pc:8090/OPC/DA
# Time out in sec for the OPC connection
CI  timeout                 10
# Optional, append the specified string to all item
#CI  append_prefix         soft_bridge, tag_pf

# ========================================
# VEXA subsystem
# ----------------------------------------
SS  VEXA                    TRUE
# software or hardware trigger: SW or HW
CI  trigger               SW

# ========================================
# NSS Network Subscription Subsystem
# ----------------------------------------
SS   NSS                TRUE
# Topic name
CI   topic_name         SlowSpeedTopic
# QoS profile name
CI   qos_profile_name   DynChanData_Profile
# Suspect tolerance in seconds (default 3, minumum 2 seconds, < bad_tolerance)
CI   suspect_tolerance  3
# Bad tolerance in seconds (default 5, minumum 3 seconds, > suspect_tolerance)
CI   bad_tolerance      5
# Start scan timeout in seconds (default 5, maximum 10 seconds)
CI   start_scan_timeout 5

# ========================================
# AFDX subsystem
# ----------------------------------------
SS  AFDX                  TRUE
# AFDX card number. Start with 0.
CI  card_number           0
# True to enable the AFDX lookback circuitry. No loopback cable is required.
CI  loopback_enabled      FALSE
# Skew max for all received VL in us (increment of 400)
CI  skew_max              2400

# ========================================
# PRODAQ subsystem
# ----------------------------------------
SS  PRODAQ                TRUE

# ========================================
# MVIB (MTI Vibration) subsystem
```

```
# ---------------------------------------
SS  MVIB                        TRUE
CI    login_name                {RemoteDataUser}
CI    login_password            REMOTEDATA
CI    text_config               FALSE

#-------------------------------------------------------------------------
# Unified Event Log Module
#-------------------------------------------------------------------------
MD    UEL
# List of source names that may be registered via the UEL library
CI     source_names     TOCEUM, DDART, EAIF
# cmd line to execute when log closed
# Path and file of log file is appended first.
CI     post_proc_cmd    /users/EDAS/bin/exe/eaif -f /users/EDAS/bin/exe/.eaif_r2d2.config -t
UEL
# append test name to cmd line
CI     pp_test_id       -i
# append test name to cmd line
CI     pp_test_name     -b
# Name of language resource file (optional)
CI     language_filename   EV_English.lang
# Name of UEL display server service
CI     UEL_display_server_service_name  debug4_srv

#-------------------------------------------------------------------------
# Scan and Transfer Module
#-------------------------------------------------------------------------
MD    ST
# Use real-time CPU if TRUE
CI     set_rt_cpu            TRUE
# Report overruns if TRUE
CI     detect_overruns       TRUE
# EDAS base frequency (minor cycle) in Hz
CI     base_frequency        200
# Full path of program to call at start scan
CI     startscan_prog        /users/EDAS/bin/exe/time_sync stop
# Full path of program to call at stop scan
CI     stopscan_prog         /users/EDAS/bin/exe/time_sync start
# Integer value for ss default scheduler priority
CI     rt_default_priority
# char*<subsystem name> int<priority value>
CI     rt_priority
# float percentage above base rate  before an overrun is detected
CI     overrun_tolerance     1.0
# recovery mode when the scan freeze occurs: RECOVER (default) or DUMP
CI     recover_mode          RECOVER

#-------------------------------------------------------------------------
# User Interface Server
#-------------------------------------------------------------------------
MD    UI_SERVER
# Name of service
CI    service_name          ui_serv
# Timeout in seconds
CI    timeout               10
CI    save_dds_sentry       ON
CI    save_hss_sentry       OFF

#-------------------------------------------------------------------------
# Event Notification Server
#-------------------------------------------------------------------------
MD    EN_SERVER
# Name of service
CI    service_name          en_serv
# Server timeout in seconds
```

```
CI    timeout               10
# Heartbeat period in seconds
CI    hb_period             5
# Name of XML encoding. Default is UTF-8
CI    xml_encoding          UTF-8

#-------------------------------------------------------------------------
# Network Data Distribution Subsystem
#-------------------------------------------------------------------------
SS    NDDS                  TRUE
# Static channel data topic name
CI    sta_topic_name        Example StaChan
# Static channel data profile name
CI    sta_profile_name      StaChanData_Profile
# Dynamic channel data topic name
CI    dyn_topic_name        Example DynChan
# Dynamic channel data profile name
CI    dyn_profile_name      DynChanData_Profile
# Test information data topic name
CI    test_topic_name       Example TestInfo
# Test information data profile name
CI    test_profile_name     TestInfo_Profile

#-------------------------------------------------------------------------
# Init and Configuration Module
#-------------------------------------------------------------------------
MD    INIT
# set two connections for proDAS
CI      db_serv_key               fs_serv
# database server host name.
CI      db_host_name              picard
# timeout to wait for database server requests, in seconds
CI      db_timeout                900
#  configuration retriever service name.
CI      cr_serv_key               cr_serv
# configuration retrieval server host name
CI      cr_host_name              bigbird
# timeout to wait for configuration retrieval server requests, in seconds
CI      cr_timeout                900
# flag which controls the sending of quality change message to event handler
CI      report_quality_change  TRUE
# indicates the BPT data is from database or not
CI      BPT_data_from_DB       FALSE
# Replay disabled subsystem name list (subsystems will not scan during replay mode)
CI      replay_disabled_pgm  TOCEUM WTHR_STN
# minimum free disk space in MB (default is 256 MB)
CI      min_free_space       1024
# check disk in scan: TRUE or FALSE (default is FALSE)
CI      check_disk_in_scan   FALSE
# check disk interval in seconds (default is 300 seconds)
CI      check_disk_interval  300
# SS type and its extrapolation value pair (default is 0.0 so it doesn't need to be defined)
# (float number, zero means no extrapolation, less than zero is invalid)
# (polynomial type needs some extrapolation in order to enable limit check)
CI    ss_extrap_value        PRODAQ   0.1

<!> END OF CONFIG <!>

-------------------------------------------------------------------------

NOTES:
    1) '<!> END OF CONFIG <!>' marks the end of the config file
        (so that we can put comments here ...). It MUST follow the last
        configuration parameter and MUST start in column 1 and MUST be exactly
        as above (without the quotes -'-).
```

'#' in column 1 introduces a comment line. EDAS ignores comment lines and blank lines.

2) 'CL' stands for Command Line option. Valid command line options are:
- MASTER_CONFIG_ID: identifies the default test to configure EDAS with;
- CELL_ID: identifies the default cell to configure EDAS for;
- VERBOSITY: level of verbosity to be used (0 (low) - 100 (high)); Note that '89' is the highest verbosity EDAS should run with under normal operating conditions.
- TRACE_DEST: either "stdout" (all trace messages go to the X-term) or a trace file name with no path (all traces go to the 'tmp' dir, in the named file).
- STATUS_DEST: identifies the edas_status file with no path (all edas_status files will be directed to /users/EDAS/bin/exe directory). Default file name is 'edas_status'.

e.g.: CL VERBOSITY 89

NOTE: if EDAS is started with command line options from the prompt, those options will override the config file definitions; valid command line options at the prompt are 'm', 'c', 'v', 't' 'e', 'f' and 's' or the same letters in capitals:

mXXXX	to download master config XXXX;
cX	to configure for test cell XX;
v[0-100]	to set the verbosity between 0 (low) and 100 (high);
tfile_name	to use file 'file_name' (no path) as the trace destination;
eeng_name	to use the engine 'eng_name' with EDAS (for views and logs)
sfile_name	to use file 'file_name' (path is automatically /users/EDAS/bin/tmp) as the edas_status file destination.
fconfig	to use 'config' (path/file_name) instead of this '.config'.

e.g.: edas m1000 c3 v89

3) 'SS' stands for Sub-System option
A sub-system will be opened only if it is set to TRUE on a SS line. It will be configured only if it is included in the down-loaded master configuration.
e.g.: SS INTERNAL TRUE

4) 'CI' stands for Configuration Info
Lines that start with 'CI' contain configuration parameters that apply to the last preceeding 'SS' sub-system or 'MD' module encountered in the config file.
e.g.: CI crit_pre_event 120

5) 'MD' stands for Module Description
To identify the module (or sub-system) to which 'CI' lines apply, Modules which are sub-systems (such as the 'Fullset' sub-system) can have config parameters after a 'SS' or 'MD' line with their name. Modules which are not sub-systems (such as the GUI) can only have config parameters after a 'MD' line.
e.g.: MD GUI
e.g.: MD G2_1

/**/