


```

        NULL) ==> <status>
    set_desired( [PAN|TILT],
                [HOLD_POWER_LEVEL|MOVE_POWER_LEVEL],
                [PTU_REG_POWER|PTU_LOW_POWER|PTU_OFF_POWER],
                NULL) ==> <status>
extern char set_desired(char, char, PTU_PARM_PTR *, char);

/* get_current( [PAN|TILT],
               [POSITION|SPEED|ACCELERATION|BASE|UPPER|LOWER|
               HOLD_POWER_LEVEL|MOVE_POWER_LEVEL|RESOLUTION])
               ==> <value> */
extern long get_current(char, char);

/* get_desired( [PAN|TILT],
               [POSITION|SPEED|ACCELERATION|BASE|UPPER|LOWER|
               HOLD_POWER_LEVEL|MOVE_POWER_LEVEL|RESOLUTION])
               ==> <value> */
extern long get_desired(char, char);

/* set_mode( COMMAND_EXECUTION_MODE,
            [EXECUTE_IMMEDIATELY|EXECUTE_UPON_IMMEDIATE_OR_AWAIT])
            ==> <status>
set_mode( ASCII_VERBOSE_MODE,
          [VERBOSE|TERSE|QUERY_MODE]) ==> <status>
set_mode( ASCII_ECHO_MODE,
          [ON_MODE|OFF_MODE|QUERY_MODE]) ==> <status>
set_mode( POSITION_LIMITS_MODE,
          [ON_MODE|OFF_MODE|QUERY_MODE]) ==> <status>
set_mode( DEFAULTS,
          [SAVE_CURRENT_SETTINGS|RESTORE_SAVED_SETTINGS|
          RESTORE_FACTORY_SETTINGS]) ==> <status> */
extern char set_mode(char, char);

/* halt([ALL|PAN|TILT]) ==> <status> */
extern char halt(char);

/* await_completion() ==> <status> */
extern char await_completion(void);

/* reset_PTU() ==> <status> */
extern char reset_ptu(void);

/* firmware_version() ==> <version ID string> */
extern char* firmware_version(void);

/** multiple unit support */
/** ENHANCEMENTS IN PROGRESS */
typedef unsigned char UID_fd;

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/* in general, should not be used or required... */
extern char select_host_port(portstream_fd);

/* select_unit(<portstream>, <unit ID>) ==> <status> */
extern char select_unit(portstream_fd, UID_fd);

/* set_unit_id(<unit ID>) ==> <status> */
extern char set_unit_id(UID_fd);

/***** function call constants *****/

#define PAN      1
#define TILT     2

#define POSITION      1
#define SPEED        2
#define ACCELERATION 3
#define BASE         4
#define UPPER_SPEED_LIMIT 5
#define LOWER_SPEED_LIMIT 6
#define MINIMUM_POSITION 7
#define MAXIMUM_POSITION 8
#define HOLD_POWER_LEVEL 9
#define MOVE_POWER_LEVEL 10
#define RESOLUTION    11

/* specifies changes relative to current position */
/*
#define RELATIVE  1
#define ABSOLUTE  2
*/

#define QUERY  NULL

/* power modes */
#define PTU_HI_POWER  1
#define PTU_REG_POWER 2
#define PTU_LOW_POWER 3
#define PTU_OFF_POWER 4

/* PTU mode types */
#define COMMAND_EXECUTION_MODE  1
#define ASCII_VERBOSE_MODE      2
#define ASCII_ECHO_MODE         3
#define POSITION_LIMITS_MODE     4
#define DEFAULTS                 5

#define EXECUTE_IMMEDIATELY      1 /* default */
#define EXECUTE_UPON_IMMEDIATE_OR_AWAIT  2

#define VERBOSE  1
#define TERSE    0 /* default */

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#define ON_MODE      1 /* default */
#define OFF_MODE     0

#define SAVE_CURRENT_SETTINGS    0
#define RESTORE_SAVED_SETTINGS  1
#define RESTORE_FACTORY_SETTINGS 2

#define QUERY_MODE  3

#define ALL  1
```

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